

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 : P3671

ATTENTION : Mary I. Murphy



Laboratory Certification ID # 20012



1) SEMI-VOLATILE DATA	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	14
9) QC Data Summary For SVOCMS Group3	21
9.1) Deuterated Monitoring Compound Summary	22
9.2) MS/MSD Summary	24
9.3) LCS/LCSD Summary	26
9.4) Method Blank Summary	27
9.5) GS/MS Tune Summary	28
9.6) Internal Standard Area and RT Summary	32
10) Sample Data	38
10.1) S-911-K1-SO-0-0.5-081924	39
10.2) S-911-K1-SO-0.5-1-081924	59
10.3) S-911-K1-SO-0-0.5-081924-FD	79
10.4) S-905-KJ-SO-0-0.5-081924	99
10.5) S-905-KJ-SO-0-0.5-081924DL	119
10.6) S-905-KJ-SO-0-0.5-081924-FD	138
10.7) S-905-KJ-SO-0-0.5-081924-FDDL	158
10.8) S-928-K1-SO-0-0.5-081924	177
10.9) S-928-K1-SO-0.5-1-081924	195
10.10) S-903-J-SO-0.5-1.0-081924	214
10.11) S-903-J-SO-0.5-1.0-081924DL	234
10.12) S-912-J-SO-0-0.5-081924	253
10.13) S-912-J-SO-0.5-1-081924	273
11) Calibration Data Summary	289
11.1) Initial Calibration Data	3
11.1.1) BN081924	290
11.2) Continued Calibration Data	478
11.2.1) BN033563.D	478
11.2.2) BN033582.D	504

Table Of Contents for P3671

11.2.3) BN033599.D	530
12) QC Sample Data	556
12.1) Tune Raw Data	557
12.2) Method Blank Data	573
12.3) LCS Data	584
12.4) MS Data	609
12.5) MSD Data	634
13) Manual Integration	659
14) Analytical Runlogs	665
15) Percent Solid	678
16) Extraction Logs	687
16.1) PB162880.pdf	687
16.2) PB162880IC.pdf	689
17) Standard Prep Logs	690
18) Shipping Document	753
18.1) Chain Of Custody	754
18.2) Lab Certificate	756
18.3) Internal COC	757

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

Cover Page

Order ID : P3671

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3671-01
P3671-02
P3671-03
P3671-04
P3671-05
P3671-06
P3671-07
P3671-08
P3671-09
P3671-10
P3671-11
P3671-12
P3671-13
P3671-14
P3671-15

Client Sample Number

S-904-J-SO-0-0.5-081924
S-904-J-SO-0.5-1.0-081924
S-911-K1-SO-0-0.5-081924
S-911-K1-SO-0.5-1-081924
S-911-K1-SO-0-0.5-081924-FD
S-905-KJ-SO-0-0.5-081924
S-905-KJ-SO-0-0.5-081924-FD
S-905-J-SO-0.5-1.0-081924
S-928-K1-SO-0-0.5-081924
S-928-K1-SO-0.5-1-081924
S-903-J-SO-0-0.5-081924
S-903-J-SO-0.5-1.0-081924
S-912-J-SO-0-0.5-081924
S-912-J-SO-0.5-1-081924
TB-01-081924

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

Signature : _____

Date: 9/4/2024

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 # P3671

Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

14 Solid samples were received on 08/19/2024.

1 Water sample was received on 08/19/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group5, TOC, VOCMS Group 4, VOCMS Group3, VOCMS Group5 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 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for

S-905-KJ-SO-0-0.5-081924 [Fluoranthene-d10 - 28%, Terphenyl-d14 - 22%],

S-905-KJ-SO-0-0.5-081924DL [Fluoranthene-d10 - 26%, Terphenyl-d14 - 23%],

S-905-KJ-SO-0-0.5-081924-FD [Terphenyl-d14 - 24%],

S-905-KJ-SO-0-0.5-081924-FDDL [Terphenyl-d14 - 28%],

S-912-J-SO-0-0.5-081924 [Terphenyl-d14 - 24%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, while

S-912-J-SO-0.5-1-081924 [Fluoranthene-d10 - 24%, this compound did not meet the NJDKQP criteria but met the in-house criteria, while Terphenyl-d14 - 20%], this

compound did not meet the NJDKQP criteria and in-house criteria and as per method two surrogates are allowed to failed, no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

Samples S-905-KJ-SO-0-0.5-081924, S-905-KJ-SO-0-0.5-081924-FD and S-903-J-SO-0.5-1.0-081924 were diluted due to high concentrations.

E. Additional Comments:

The Sample S-912-J-SO-0.5-1-081924, have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

Samples S-904-J-SO-0-0.5-081924, S-904-J-SO-0.5-1.0-081924, S-905-J-SO-0.5-1.0-081924, S-903-J-SO-0-0.5-081924, were not analyzed in SIM due to high concentration of the target compound in Total scan analysis.

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

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: P3671

MATRIX: Solid

METHOD: 8270-Modified/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for S-905-KJ-SO-0-0.5- 081924 [Fluoranthene-d10 - 28%, Terphenyl-d14 - 22%], S-905-KJ-SO-0-0.5- 081924DL [Fluoranthene-d10 - 26%, Terphenyl-d14 - 23%], S-905-KJ-SO-0-0.5- 081924-FD [Terphenyl-d14 - 24%], S-905-KJ-SO-0-0.5-081924-FDDL [Terphenyl-d14 - 28%], S-912-J-SO-0-0.5-081924 [Terphenyl-d14 - 24%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, while S-912-J-SO-0.5-1- 081924 [Fluoranthene-d10 - 24%, this compound did not meet the NJDKQP criteria but met the in-house criteria, while Terphenyl-d14 - 20%], this compound did not meet the NJDKQP criteria and in-house criteria and as per method two surrogates are allowed to failed, no corrective action was taken.			

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

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples .			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

The Sample S-912-J-SO-0.5-1-081924, have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

Samples S-904-J-SO-0-0.5-081924, S-904-J-SO-0.5-1.0-081924, S-905-J-SO-0.5-1.0-081924, S-903-J-SO-0-0.5-081924, were not analyzed in SIM due to high concentration of the target compound in Total scan analysis.

Samples S-905-KJ-SO-0-0.5-081924, S-905-KJ-SO-0-0.5-081924-FD and S-903-J-SO-0.5-1.0-081924 were diluted due to high concentrations.

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

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3671

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: 09/04/2024

2nd Level QA Review Signature: _____

Date: _____

LAB CHRONICLE

OrderID:	P3671	OrderDate:	8/20/2024 10:36:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	G11, VOA Ref. #2 Soil, VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3671-01	S-904-J-SO-0-0.5-08 1924	SOIL			08/19/24			08/19/24
			SVOCMS Group5	8270E		08/21/24	08/22/24	
P3671-01DL	S-904-J-SO-0-0.5-08 1924DL	SOIL			08/19/24			08/19/24
			SVOCMS Group5	8270E		08/21/24	08/26/24	
P3671-02	S-904-J-SO-0.5-1.0-0 81924	SOIL			08/19/24			08/19/24
			SVOCMS Group5	8270E		08/21/24	08/22/24	
P3671-03	S-911-K1-SO-0-0.5-0 81924	SOIL			08/19/24			08/19/24
			SVOCMS Group3	8270-Modifie d		08/21/24	08/23/24	
			SVOCMS Group5	8270E		08/21/24	08/22/24	
P3671-04	S-911-K1-SO-0.5-1-0 81924	SOIL			08/19/24			08/19/24
			SVOCMS Group3	8270-Modifie d		08/21/24	08/23/24	
			SVOCMS Group5	8270E		08/21/24	08/22/24	
P3671-05	S-911-K1-SO-0-0.5-0 81924-FD	SOIL			08/19/24			08/19/24
			SVOCMS Group3	8270-Modifie d		08/21/24	08/23/24	
			SVOCMS Group5	8270E		08/21/24	08/22/24	
P3671-06	S-905-KJ-SO-0-0.5-0 81924	SOIL			08/19/24			08/19/24
			SVOCMS Group3	8270-Modifie d		08/21/24	08/23/24	
			SVOCMS Group5	8270E		08/21/24	08/22/24	

LAB CHRONICLE

P3671-06DL	S-905-KJ-SO-0-0.5-0 81924DL	SOIL		08/19/24		08/19/24
			SVOCMS Group3	8270-Modified	08/21/24	08/23/24
P3671-07	S-905-KJ-SO-0-0.5-0 81924-FD	SOIL		08/19/24		08/19/24
			SVOCMS Group3	8270-Modified	08/21/24	08/23/24
			SVOCMS Group5	8270E	08/21/24	08/22/24
P3671-07DL	S-905-KJ-SO-0-0.5-0 81924-FDDL	SOIL		08/19/24		08/19/24
			SVOCMS Group3	8270-Modified	08/21/24	08/24/24
P3671-08	S-905-J-SO-0.5-1.0-0 81924	SOIL		08/19/24		08/19/24
			SVOCMS Group5	8270E	08/21/24	08/22/24
P3671-09	S-928-K1-SO-0-0.5-0 81924	SOIL		08/19/24		08/19/24
			SVOCMS Group3	8270-Modified	08/21/24	08/23/24
			SVOCMS Group5	8270E	08/21/24	08/22/24
P3671-10	S-928-K1-SO-0.5-1-0 81924	SOIL		08/19/24		08/19/24
			SVOCMS Group3	8270-Modified	08/21/24	08/23/24
			SVOCMS Group5	8270E	08/21/24	08/22/24
P3671-11	S-903-J-SO-0-0.5-08 1924	SOIL		08/19/24		08/19/24
			SVOCMS Group5	8270E	08/21/24	08/22/24
P3671-12	S-903-J-SO-0.5-1.0-0 81924	SOIL		08/19/24		08/19/24
			SVOCMS Group3	8270-Modified	08/21/24	08/23/24
			SVOCMS Group5	8270E	08/21/24	08/22/24
P3671-12DL	S-903-J-SO-0.5-1.0-0 81924DL	SOIL		08/19/24		08/19/24

LAB CHRONICLE

P3671-13	S-912-J-SO-0-0.5-08 1924	SOIL	SVOCMS Group3	8270-Modified	08/21/24	08/24/24	08/19/24	08/19/24
			SVOCMS Group3	8270-Modified	08/21/24	08/23/24		
P3671-14	S-912-J-SO-0.5-1-08 1924	SOIL	SVOCMS Group5	8270E	08/21/24	08/22/24	08/19/24	08/19/24
			SVOCMS Group3	8270-Modified	08/21/24	08/22/24		
			SVOCMS Group5	8270E	08/21/24	08/22/24		

Hit Summary Sheet SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : S-911-K1-SO-0-0.5-081924								
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Naphthalene	2.300	J	1.5	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	2-Methylnaphthalene	2.700	J	1.7	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Acenaphthylene	2.700	J	1.3	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Acenaphthene	1.600	J	1.2	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Fluorene	4.300	J	1.3	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Phenanthrene	23.500		1.3	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Anthracene	4.200	J	1.7	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Fluoranthene	53.100		1.4	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Pyrene	37.400		2	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Benzo(a)anthracene	21.600		1.6	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Chrysene	29.100		1.8	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Benzo(b)fluoranthene	36.100		2.5	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Benzo(k)fluoranthene	13.800		2.1	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Benzo(a)pyrene	27.400		3.5	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Indeno(1,2,3-cd)pyrene	16.700		2.7	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Dibenzo(a,h)anthracene	4.800	J	2.5	7	ug/Kg
P3671-03	S-911-K1-SO-0-0.5-0819	SOIL	Benzo(g,h,i)perylene	19.800		2.4	7	ug/Kg

Total Svoc :

301.10

Total Concentration:

301.10

Client ID : S-911-K1-SO-0.5-1-081924

P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Naphthalene	8.400		1.2	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	2-Methylnaphthalene	8.600		1.4	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Acenaphthylene	17.400		1.1	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Acenaphthene	6.700		0.98	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Fluorene	7.700		1.1	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Phenanthrene	110.000		1.1	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Anthracene	20.000		1.4	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Fluoranthene	250.000		1.2	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Pyrene	190.000		1.7	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Benzo(a)anthracene	110.000		1.4	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Chrysene	140.000		1.5	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Benzo(b)fluoranthene	180.000		2.1	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Benzo(k)fluoranthene	60.700		1.7	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Benzo(a)pyrene	130.000		3	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Indeno(1,2,3-cd)pyrene	80.600		2.2	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Dibenzo(a,h)anthracene	22.900		2.1	5.9	ug/Kg
P3671-04	S-911-K1-SO-0.5-1-0819	SOIL	Benzo(g,h,i)perylene	94.000		2	5.9	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: P3671
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Svoc :				1,437.00				
Total Concentration:				1,437.00				
Client ID : S-911-K1-SO-0-0.5-081924-FD								
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Naphthalene	16.400		2	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	2-Methylnaphthalene	19.500		2.3	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Acenaphthylene	32.700		1.8	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Acenaphthene	10.700		1.6	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Fluorene	14.200		1.7	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Phenanthrene	190.000		1.8	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Anthracene	34.300		2.3	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Fluoranthene	440.000		1.9	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Pyrene	320.000		2.7	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Benzo(a)anthracene	190.000		2.2	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Chrysene	230.000		2.5	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Benzo(b)fluoranthene	290.000		3.4	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Benzo(k)fluoranthene	100.000		2.8	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Benzo(a)pyrene	220.000		4.7	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Indeno(1,2,3-cd)pyrene	130.000		3.6	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Dibenzo(a,h)anthracene	38.300		3.3	9.4	ug/Kg
P3671-05	S-911-K1-SO-0-0.5-0819	SOIL	Benzo(g,h,i)perylene	160.000		3.3	9.4	ug/Kg
Total Svoc :				2,436.10				
Total Concentration:				2,436.10				
Client ID : S-905-KJ-SO-0-0.5-081924								
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Naphthalene	2.000	J	0.88	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	2-Methylnaphthalene	1.600	J	1	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Acenaphthylene	2.400	J	0.8	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Acenaphthene	18.000		0.7	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Fluorene	15.500		0.77	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Phenanthrene	210.000		0.8	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Anthracene	45.800		1	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Fluoranthene	380.000	E	0.85	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Pyrene	270.000	E	1.2	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(a)anthracene	190.000		0.97	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Chrysene	190.000		1.1	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(b)fluoranthene	250.000	E	1.5	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(k)fluoranthene	91.700		1.3	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(a)pyrene	210.000		2.1	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Indeno(1,2,3-cd)pyrene	110.000		1.6	4.2	ug/Kg
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Dibenzo(a,h)anthracene	31.500		1.5	4.2	ug/Kg

Hit Summary Sheet SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3671-06	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(g,h,i)perylene	120.000		1.5	4.2	ug/Kg
Total Svoc :				2,138.50				
Total Concentration:				2,138.50				
Client ID : S-905-KJ-SO-0-0.5-081924DL								
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Acenaphthene	15.900	JD	3.5	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Fluorene	13.600	JD	3.8	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Phenanthrene	180.000	D	4	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Anthracene	38.900	D	5	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Fluoranthene	340.000	D	4.3	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Pyrene	240.000	D	6.1	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(a)anthracene	180.000	D	4.8	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Chrysene	160.000	D	5.5	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(b)fluoranthene	210.000	D	7.6	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(k)fluoranthene	82.100	D	6.3	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(a)pyrene	180.000	D	10.6	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Indeno(1,2,3-cd)pyrene	93.100	D	8	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Dibenzo(a,h)anthracene	28.100	D	7.5	21.1	ug/Kg
P3671-06DL	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(g,h,i)perylene	110.000	D	7.3	21.1	ug/Kg
Total Svoc :				1,871.70				
Total Concentration:				1,871.70				
Client ID : S-905-KJ-SO-0-0.5-081924-FD								
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Naphthalene	2.100	J	0.9	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	2-Methylnaphthalene	1.500	J	1	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Acenaphthylene	3.200	J	0.82	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Acenaphthene	24.900		0.72	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Fluorene	22.400		0.78	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Phenanthrene	400.000	E	0.82	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Anthracene	130.000		1	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Fluoranthene	1,300.000	E	0.87	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Pyrene	710.000	E	1.2	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(a)anthracene	710.000	E	0.99	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Chrysene	630.000	E	1.1	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(b)fluoranthene	750.000	E	1.6	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(k)fluoranthene	280.000	E	1.3	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(a)pyrene	650.000	E	2.2	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Indeno(1,2,3-cd)pyrene	280.000	E	1.6	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Dibenzo(a,h)anthracene	90.500		1.5	4.3	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-0819	SOIL	Benzo(g,h,i)perylene	290.000	E	1.5	4.3	ug/Kg
Total Svoc :				6,274.60				

Hit Summary Sheet
SW-846

SDG No.: P3671
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Concentration:				6,274.60				
Client ID :	S-905-KJ-SO-0-0.5-081924-FDDL							
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Acenaphthene	23.500	JD	7.2	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Fluorene	20.900	JD	7.8	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Phenanthrene	370.000	D	8.2	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Anthracene	110.000	D	10.3	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Fluoranthene	1,200.000	D	8.7	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Pyrene	810.000	D	12.4	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Benzo(a)anthracene	760.000	D	9.9	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Chrysene	650.000	D	11.2	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Benzo(b)fluoranthene	800.000	D	15.5	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Benzo(k)fluoranthene	270.000	D	12.8	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Benzo(a)pyrene	660.000	D	21.7	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Indeno(1,2,3-cd)pyrene	280.000	D	16.4	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Dibenzo(a,h)anthracene	93.100	D	15.3	43.1	ug/Kg
P3671-07DL	S-905-KJ-SO-0-0.5-0819: SOIL		Benzo(g,h,i)perylene	290.000	D	14.9	43.1	ug/Kg
Total Svoc :				6,337.50				
Total Concentration:				6,337.50				
Client ID :	S-928-K1-SO-0-0.5-081924							
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Acenaphthylene	2.000	J	1.3	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Phenanthrene	13.000		1.3	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Anthracene	2.200	J	1.6	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Fluoranthene	28.700		1.4	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Pyrene	23.000		2	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Benzo(a)anthracene	12.900		1.6	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Chrysene	17.100		1.8	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Benzo(b)fluoranthene	21.000		2.5	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Benzo(k)fluoranthene	8.000		2	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Benzo(a)pyrene	15.700		3.4	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Indeno(1,2,3-cd)pyrene	9.400		2.6	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Dibenzo(a,h)anthracene	2.700	J	2.4	6.9	ug/Kg
P3671-09	S-928-K1-SO-0-0.5-0819 SOIL		Benzo(g,h,i)perylene	11.300		2.4	6.9	ug/Kg
Total Svoc :				167.00				
Total Concentration:				167.00				
Client ID :	S-928-K1-SO-0.5-1-081924							
P3671-10	S-928-K1-SO-0.5-1-0819 SOIL		Acenaphthylene	3.100	J	1.1	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819 SOIL		Fluorene	1.400	J	1	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819 SOIL		Phenanthrene	12.500		1.1	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819 SOIL		Anthracene	2.000	J	1.4	5.8	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: P3671
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3671-10	S-928-K1-SO-0.5-1-0819	SOIL	Fluoranthene	26.800	J	1.2	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819	SOIL	Pyrene	20.000		1.7	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819	SOIL	Benzo(a)anthracene	9.800		1.3	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819	SOIL	Chrysene	15.800		1.5	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819	SOIL	Benzo(b)fluoranthene	20.900		2.1	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819	SOIL	Benzo(k)fluoranthene	8.000		1.7	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819	SOIL	Benzo(a)pyrene	14.000		2.9	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819	SOIL	Indeno(1,2,3-cd)pyrene	9.600		2.2	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819	SOIL	Dibenzo(a,h)anthracene	2.600	J	2	5.8	ug/Kg
P3671-10	S-928-K1-SO-0.5-1-0819	SOIL	Benzo(g,h,i)perylene	11.800		2	5.8	ug/Kg
Total Svoc :				158.30				
Total Concentration:				158.30				
Client ID : S-903-J-SO-0.5-1.0-081924								
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Naphthalene	3.600	J	0.8	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	2-Methylnaphthalene	2.700	J	0.93	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Acenaphthylene	6.300		0.73	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Acenaphthene	25.800		0.64	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Fluorene	26.600		0.7	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Phenanthrene	440.000	E	0.73	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Anthracene	85.300		0.92	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Fluoranthene	860.000	E	0.78	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Pyrene	480.000	E	1.1	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Benzo(a)anthracene	310.000	E	0.88	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Chrysene	330.000	E	1	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Benzo(b)fluoranthene	420.000	E	1.4	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Benzo(k)fluoranthene	140.000		1.1	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Benzo(a)pyrene	340.000	E	1.9	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Indeno(1,2,3-cd)pyrene	180.000		1.5	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Dibenzo(a,h)anthracene	51.700		1.4	3.8	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-0819	SOIL	Benzo(g,h,i)perylene	210.000	E	1.3	3.8	ug/Kg
Total Svoc :				3,912.00				
Total Concentration:				3,912.00				
Client ID : S-903-J-SO-0.5-1.0-081924DL								
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Acenaphthene	28.300	JD	6.4	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Fluorene	27.500	JD	7	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Phenanthrene	450.000	D	7.3	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Anthracene	79.800	D	9.2	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Fluoranthene	850.000	D	7.8	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Pyrene	570.000	D	11	38.4	ug/Kg

Hit Summary Sheet SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Benzo(a)anthracene	340.000	D	8.8	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Chrysene	370.000	D	10	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Benzo(b)fluoranthene	460.000	D	13.8	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Benzo(k)fluoranthene	150.000	D	11.4	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Benzo(a)pyrene	370.000	D	19.3	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Indeno(1,2,3-cd)pyrene	200.000	D	14.6	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Dibenzo(a,h)anthracene	58.100	D	13.6	38.4	ug/Kg
P3671-12DL	S-903-J-SO-0.5-1.0-0819	SOIL	Benzo(g,h,i)perylene	230.000	D	13.3	38.4	ug/Kg
Total Svoc :				4,183.70				
Total Concentration:				4,183.70				
Client ID :	S-912-J-SO-0.5-081924							
P3671-13	S-912-J-SO-0.5-081924	SOIL	Naphthalene	13.200		2.2	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	2-Methylnaphthalene	12.700		2.6	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Acenaphthylene	11.300		2.1	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Acenaphthene	5.900	J	1.8	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Fluorene	6.800	J	2	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Phenanthrene	100.000		2.1	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Anthracene	19.000		2.6	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Fluoranthene	220.000		2.2	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Pyrene	140.000		3.1	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Benzo(a)anthracene	83.800		2.5	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Chrysene	100.000		2.8	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Benzo(b)fluoranthene	130.000		3.9	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Benzo(k)fluoranthene	44.000		3.2	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Benzo(a)pyrene	96.100		5.4	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Indeno(1,2,3-cd)pyrene	53.900		4.1	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Dibenzo(a,h)anthracene	16.000		3.8	10.8	ug/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Benzo(g,h,i)perylene	62.700		3.7	10.8	ug/Kg
Total Svoc :				1,115.40				
Total Concentration:				1,115.40				
Client ID :	S-912-J-SO-0.5-1-081924							
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Phenanthrene	2.300	J	1.2	6.4	ug/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Fluoranthene	4.400	J	1.3	6.4	ug/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Pyrene	3.400	J	1.8	6.4	ug/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Benzo(a)anthracene	2.200	J	1.5	6.4	ug/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Chrysene	2.700	J	1.7	6.4	ug/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Benzo(b)fluoranthene	3.400	J	2.3	6.4	ug/Kg
Total Svoc :				18.40				
Total Concentration:				18.40				

Hit Summary Sheet
SW-846

SDG No.: P3671
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units



QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P3671-03	S-911-K1-SO-0-0.5-081924	2-Methylnaphthalene-d10	0.4	0.21	53		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.18	44		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.29	73		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.21	52		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.14	36		30 (21)	130 (130)
P3671-04	S-911-K1-SO-0.5-1-081924	2-Methylnaphthalene-d10	0.4	0.18	45		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.15	37		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.25	62		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.17	43		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.14	36		30 (21)	130 (130)
P3671-05	S-911-K1-SO-0-0.5-081924-FD	2-Methylnaphthalene-d10	0.4	0.41	103		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.39	98		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.47	116		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.37	93		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.36	90		30 (21)	130 (130)
P3671-06	S-905-KJ-SO-0-0.5-081924	2-Methylnaphthalene-d10	0.4	0.16	40		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.11	28	*	30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.19	47		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.15	38		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.089	22	*	30 (21)	130 (130)
P3671-06DL	S-905-KJ-SO-0-0.5-081924DL	2-Methylnaphthalene-d10	0.4	0.14	35		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.11	26	*	30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.18	45		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.14	34		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.090	23	*	30 (21)	130 (130)
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	2-Methylnaphthalene-d10	0.4	0.17	43		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.14	34		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.24	60		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.16	41		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.096	24	*	30 (21)	130 (130)
P3671-07DL	S-905-KJ-SO-0-0.5-081924-FDDL	2-Methylnaphthalene-d10	0.4	0.16	40		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.12	30		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.25	63		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.15	38		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.11	28	*	30 (21)	130 (130)
P3671-09	S-928-K1-SO-0-0.5-081924	2-Methylnaphthalene-d10	0.4	0.15	37		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.13	32		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.20	49		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.15	37		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.12	31		30 (21)	130 (130)
P3671-10	S-928-K1-SO-0.5-1-081924	2-Methylnaphthalene-d10	0.4	0.24	59		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.19	47		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.34	84		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.24	59		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.17	43		30 (21)	130 (130)
P3671-10MS	S-928-K1-SO-0.5-1-081924MS	2-Methylnaphthalene-d10	0.4	0.35	87		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.19	47		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.31	77		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.22	56		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.16	41		30 (21)	130 (130)
P3671-10MSD	S-928-K1-SO-0.5-1-081924MSD	2-Methylnaphthalene-d10	0.4	0.36	91		30 (17)	150 (161)

() = LABORATORY INHOUSE LIMIT

Surrogate Summary

SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P3671-10MSD	S-928-K1-SO-0.5-1-081924MSD	Fluoranthene-d10	0.4	0.20	49		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.33	81		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.23	58		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.17	43		30 (21)	130 (130)
P3671-12	S-903-J-SO-0.5-1.0-081924	2-Methylnaphthalene-d10	0.4	0.17	41		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.16	41		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.19	48		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.15	38		30 (32)	130 (121)
P3671-12DL	S-903-J-SO-0.5-1.0-081924DL	Terphenyl-d14	0.4	0.12	31		30 (21)	130 (130)
		2-Methylnaphthalene-d10	0.4	0.17	43		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.17	43		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.21	52		30 (33)	130 (121)
P3671-13	S-912-J-SO-0-0.5-081924	2-Fluorobiphenyl	0.4	0.17	43		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.15	38		30 (21)	130 (130)
		2-Methylnaphthalene-d10	0.4	0.19	47		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.13	32		30 (23)	150 (138)
P3671-14	S-912-J-SO-0.5-1-081924	Nitrobenzene-d5	0.4	0.27	68		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.17	43		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.097	24	*	30 (21)	130 (130)
		2-Methylnaphthalene-d10	0.4	0.13	32		30 (17)	150 (161)
PB162880BL	PB162880BL	Fluoranthene-d10	0.4	0.095	24	*	30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.17	41		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.13	33		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.081	20	*	30 (21)	130 (130)
PB162880BS	PB162880BS	2-Methylnaphthalene-d10	0.4	0.36	90		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.40	100		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.38	96		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.40	100		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.37	91		30 (21)	130 (130)
		2-Methylnaphthalene-d10	0.4	0.37	93		30 (17)	150 (161)
		Fluoranthene-d10	0.4	0.36	89		30 (23)	150 (138)
		Nitrobenzene-d5	0.4	0.36	90		30 (33)	130 (121)
		2-Fluorobiphenyl	0.4	0.39	97		30 (32)	130 (121)
		Terphenyl-d14	0.4	0.32	80		30 (21)	130 (130)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P3671-10MS		Client Sample ID: S-928-K1-SO-0.5-1-081924MS		DataFile: BN033571.D							
Naphthalene	23.3	0	23.8	ug/Kg	102				70 (37)	130 (129)	
2-Methylnaphthalene	23.3	0	23.2	ug/Kg	100				70 (37)	130 (139)	
Acenaphthylene	23.3	3.10	26.7	ug/Kg	101				70 (21)	130 (147)	
Acenaphthene	23.3	0	22.9	ug/Kg	98				70 (19)	130 (141)	
Fluorene	23.3	1.40	22.5	ug/Kg	91				70 (10)	130 (167)	
Phenanthrene	23.3	12.5	35.4	ug/Kg	98				70 (27)	130 (146)	
Anthracene	23.3	2.00	26.7	ug/Kg	106				70 (12)	130 (166)	
Fluoranthene	23.3	26.8	51.0	ug/Kg	104				70 (20)	130 (150)	
Pyrene	23.3	20.0	39.6	ug/Kg	84				70 (10)	130 (163)	
Benzo(a)anthracene	23.3	9.80	33.8	ug/Kg	103				70 (10)	130 (175)	
Chrysene	23.3	15.8	38.8	ug/Kg	99				70 (32)	130 (143)	
Benzo(b)fluoranthene	23.3	20.9	40.7	ug/Kg	85				70 (10)	130 (188)	
Benzo(k)fluoranthene	23.3	8.00	32.7	ug/Kg	106				70 (42)	130 (122)	
Benzo(a)pyrene	23.3	14.0	38.7	ug/Kg	106				70 (10)	130 (175)	
Indeno(1,2,3-cd)pyrene	23.3	9.60	32.7	ug/Kg	99				70 (10)	130 (175)	
Dibenz(a,h)anthracene	23.3	2.60	25.2	ug/Kg	97				70 (10)	130 (170)	
Benzo(g,h,i)perylene	23.3	11.8	32.5	ug/Kg	89				70 (10)	130 (168)	
1,4-Dioxane	23.3	0	19.8	ug/Kg	85				20 (70)	160 (130)	

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P3671-10MSD		Client Sample ID: S-928-K1-SO-0.5-1-081924MSD		DataFile: BN033572.D							
Naphthalene	23.3	0	24.5	ug/Kg	105	3			70 (37)	130 (129)	30 (20)
2-Methylnaphthalene	23.3	0	24.1	ug/Kg	103	3			70 (37)	130 (139)	30 (20)
Acenaphthylene	23.3	3.10	27.9	ug/Kg	106	5			70 (21)	130 (147)	30 (20)
Acenaphthene	23.3	0	23.7	ug/Kg	102	4			70 (19)	130 (141)	30 (20)
Fluorene	23.3	1.40	23.4	ug/Kg	94	3			70 (10)	130 (167)	30 (20)
Phenanthrene	23.3	12.5	37.4	ug/Kg	107	9			70 (27)	130 (146)	30 (20)
Anthracene	23.3	2.00	28.2	ug/Kg	112	6			70 (12)	130 (166)	30 (20)
Fluoranthene	23.3	26.8	52.2	ug/Kg	109	5			70 (20)	130 (150)	30 (20)
Pyrene	23.3	20.0	41.3	ug/Kg	91	8			70 (10)	130 (163)	30 (20)
Benzo(a)anthracene	23.3	9.80	35.0	ug/Kg	108	5			70 (10)	130 (175)	30 (20)
Chrysene	23.3	15.8	40.8	ug/Kg	107	8			70 (32)	130 (143)	30 (20)
Benzo(b)fluoranthene	23.3	20.9	42.6	ug/Kg	93	9			70 (10)	130 (188)	30 (20)
Benzo(k)fluoranthene	23.3	8.00	32.3	ug/Kg	104	2			70 (42)	130 (122)	30 (20)
Benzo(a)pyrene	23.3	14.0	39.7	ug/Kg	110	4			70 (10)	130 (175)	30 (20)
Indeno(1,2,3-cd)pyrene	23.3	9.60	33.3	ug/Kg	102	3			70 (10)	130 (175)	30 (20)
Dibenz(a,h)anthracene	23.3	2.60	25.7	ug/Kg	99	2			70 (10)	130 (170)	30 (20)
Benzo(g,h,i)perylene	23.3	11.8	33.3	ug/Kg	92	3			70 (10)	130 (168)	30 (20)
1,4-Dioxane	23.3	0	20.1	ug/Kg	86	1			20 (70)	160 (130)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

DataFile: BN033565.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Qual	Low	High	
PB162880BS	Naphthalene	13.3	12.0	ug/Kg	90					70 (63)	130 (120)	
	2-Methylnaphthalene	13.3	11.5	ug/Kg	86					70 (54)	130 (111)	
	Acenaphthylene	13.3	12.2	ug/Kg	92					70 (61)	130 (110)	
	Acenaphthene	13.3	11.8	ug/Kg	89					70 (65)	130 (112)	
	Fluorene	13.3	11.0	ug/Kg	83					70 (61)	130 (115)	
	Phenanthrene	13.3	12.5	ug/Kg	94					70 (61)	130 (120)	
	Anthracene	13.3	12.4	ug/Kg	93					70 (60)	130 (115)	
	Fluoranthene	13.3	11.9	ug/Kg	89					70 (56)	130 (124)	
	Pyrene	13.3	10.7	ug/Kg	80					70 (58)	130 (125)	
	Benzo(a)anthracene	13.3	12.1	ug/Kg	91					70 (45)	130 (129)	
	Chrysene	13.3	12.7	ug/Kg	95					70 (62)	130 (123)	
	Benzo(b)fluoranthene	13.3	11.8	ug/Kg	89					70 (47)	130 (123)	
	Benzo(k)fluoranthene	13.3	12.0	ug/Kg	90					70 (69)	130 (123)	
	Benzo(a)pyrene	13.3	13.1	ug/Kg	98					70 (53)	130 (123)	
	Indeno(1,2,3-cd)pyrene	13.3	13.0	ug/Kg	98					70 (62)	130 (131)	
	Dibenz(a,h)anthracene	13.3	12.8	ug/Kg	96					70 (57)	130 (120)	
	Benzo(g,h,i)perylene	13.3	12.1	ug/Kg	91					70 (66)	130 (121)	
	1,4-Dioxane	13.3	9.90	ug/Kg	74					20 (70)	160 (130)	

() = LABORATORY INHOUSE LIMIT

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162880BL

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: P3671

SAS No.: P3671 SDG NO.: P3671

Lab File ID: BN033564.D

Lab Sample ID: PB162880BL

Instrument ID: BNA_N

Date Extracted: 08/21/2024

Matrix: (soil/water) SOIL

Date Analyzed: 08/22/2024

Level: (low/med) LOW

Time Analyzed: 22:39

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB162880BS	PB162880BS	BN033565.D	08/22/2024
S-912-J-SO-0.5-1-081924	P3671-14	BN033566.D	08/22/2024
S-928-K1-SO-0.5-1-081924MSD	P3671-10MSD	BN033572.D	08/23/2024
S-912-J-SO-0-0.5-081924	P3671-13	BN033573.D	08/23/2024
S-903-J-SO-0.5-1.0-081924	P3671-12	BN033575.D	08/23/2024
S-911-K1-SO-0-0.5-081924-FD	P3671-05	BN033591.D	08/23/2024
S-911-K1-SO-0.5-1-081924	P3671-04	BN033592.D	08/23/2024
S-911-K1-SO-0-0.5-081924	P3671-03	BN033567.D	08/23/2024
S-905-KJ-SO-0-0.5-081924	P3671-06	BN033568.D	08/23/2024
S-928-K1-SO-0-0.5-081924	P3671-09	BN033569.D	08/23/2024
S-928-K1-SO-0.5-1-081924	P3671-10	BN033570.D	08/23/2024
S-928-K1-SO-0.5-1-081924MS	P3671-10MS	BN033571.D	08/23/2024
S-905-KJ-SO-0-0.5-081924-FD	P3671-07	BN033574.D	08/23/2024

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JACO05Lab Code: CHEMSAS No.: P3671 SDG NO.: P3671Lab File ID: BN033478.DDFTPP Injection Date: 08/19/2024Instrument ID: BNA_NDFTPP Injection Time: 15:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.6
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	37.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	49.1
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	11.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.8 (20) 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	BN033479.D	08/19/2024	16:16
SSTDICC0.2	SSTDICC0.2	BN033480.D	08/19/2024	16:52
SSTDICCC0.4	SSTDICCC0.4	BN033481.D	08/19/2024	17:28
SSTDICC0.8	SSTDICC0.8	BN033482.D	08/19/2024	18:05
SSTDICC1.6	SSTDICC1.6	BN033483.D	08/19/2024	18:41
SSTDICC3.2	SSTDICC3.2	BN033484.D	08/19/2024	19:17
SSTDICC5.0	SSTDICC5.0	BN033485.D	08/19/2024	19:53



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JACO05Lab Code: CHEMSAS No.: P3671 SDG NO.: P3671Lab File ID: BN033562.DDFTPP Injection Date: 08/22/2024Instrument ID: BNA_NDFTPP Injection Time: 21:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	40
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.7
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	10.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.4 (18.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN033563.D	08/22/2024	22:03
PB162880BL	PB162880BL	BN033564.D	08/22/2024	22:39
PB162880BS	PB162880BS	BN033565.D	08/22/2024	23:16
S-912-J-SO-0.5-1-081924	P3671-14	BN033566.D	08/22/2024	23:52
S-911-K1-SO-0-0.5-081924	P3671-03	BN033567.D	08/23/2024	00:28
S-905-KJ-SO-0-0.5-081924	P3671-06	BN033568.D	08/23/2024	01:05
S-928-K1-SO-0-0.5-081924	P3671-09	BN033569.D	08/23/2024	01:41
S-928-K1-SO-0.5-1-081924	P3671-10	BN033570.D	08/23/2024	02:17
S-928-K1-SO-0.5-1-081924MS	P3671-10MS	BN033571.D	08/23/2024	02:53
S-928-K1-SO-0.5-1-081924MSD	P3671-10MSD	BN033572.D	08/23/2024	03:30
S-912-J-SO-0-0.5-081924	P3671-13	BN033573.D	08/23/2024	04:06
S-905-KJ-SO-0-0.5-081924-FD	P3671-07	BN033574.D	08/23/2024	04:42
S-903-J-SO-0.5-1.0-081924	P3671-12	BN033575.D	08/23/2024	05:18



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JACO05Lab Code: CHEMSAS No.: P3671 SDG NO.: P3671Lab File ID: BN033581.DDFTPP Injection Date: 08/23/2024Instrument ID: BNA_NDFTPP Injection Time: 09:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	47.5
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.7
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	13.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.5 (18.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN033582.D	08/23/2024	09:48
S-911-K1-SO-0-0.5-081924-FD	P3671-05	BN033591.D	08/23/2024	15:59
S-911-K1-SO-0.5-1-081924	P3671-04	BN033592.D	08/23/2024	16:35
S-905-KJ-SO-0-0.5-081924DL	P3671-06DL	BN033595.D	08/23/2024	18:23



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JACO05Lab Code: CHEMSAS No.: P3671 SDG NO.: P3671Lab File ID: BN033598.DDFTPP Injection Date: 08/23/2024Instrument ID: BNA_NDFTPP Injection Time: 20:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.1
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	37.6
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.9
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	12.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.1 (18.9) 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
SSTDCCC0.4	SSTDCCC0.4	BN033599.D	08/23/2024	21:30
S-903-J-SO-0.5-1.0-081924DL	P3671-12DL	BN033610.D	08/24/2024	04:08
S-905-KJ-SO-0-0.5-081924-FDDL	P3671-07DL	BN033613.D	08/24/2024	05:57

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG NO.: P3671

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/22/2024

Lab File ID: BN033563.D Time Analyzed: 22:03

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	8400	7.545	22013	10.30	10449	14.18
UPPER LIMIT	16800	8.045	44026	10.804	20898	14.678
LOWER LIMIT	4200	7.045	11006.5	9.804	5224.5	13.678
EPA SAMPLE NO.						
01 S-911-K1-SO-0-0.5-081924	7027	7.55	17952	10.30	8336	14.18
02 S-905-KJ-SO-0-0.5-081924	7735	7.55	20459	10.30	9843	14.18
03 S-905-KJ-SO-0-0.5-081924-FD	8063	7.55	20827	10.30	10022	14.18
04 S-928-K1-SO-0-0.5-081924	8106	7.55	21263	10.30	10490	14.18
05 S-928-K1-SO-0.5-1-081924	7220	7.55	18938	10.30	9199	14.18
06 S-928-K1-SO-0.5-1-081924MS	7489	7.55	19600	10.30	9306	14.18
07 S-928-K1-SO-0.5-1-081924MSD	7606	7.55	20104	10.30	9559	14.18
08 S-903-J-SO-0.5-1.0-081924	8161	7.55	20804	10.30	10684	14.18
09 S-912-J-SO-0-0.5-081924	7667	7.55	19731	10.30	9704	14.18
10 S-912-J-SO-0.5-1-081924	7004	7.55	17932	10.30	8339	14.18
11 PB162880BL	6432	7.55	16127	10.30	7236	14.18
12 PB162880BS	7155	7.55	18004	10.30	7779	14.18

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.: P3671 SAS No.: P3671 SDG NO.: P3671

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/22/2024

Lab File ID: BN033563.D Time Analyzed: 22:03

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	19500	16.929	13945	21.139	14856	23.303
UPPER LIMIT	39000	17.429	27890	21.639	29712	23.803
LOWER LIMIT	9750	16.429	6972.5	20.639	7428	22.803
EPA SAMPLE NO.						
01 S-911-K1-SO-0-0.5-081924	17399	16.93	14980	21.14	17231	23.30
02 S-905-KJ-SO-0-0.5-081924	18367	16.93	15413	21.14	16704	23.30
03 S-905-KJ-SO-0-0.5-081924-FI	20045	16.93	22012	21.14	22949	23.30
04 S-928-K1-SO-0-0.5-081924	20512	16.93	15408	21.14	17341	23.30
05 S-928-K1-SO-0.5-1-081924	18224	16.93	14086	21.14	15519	23.30
06 S-928-K1-SO-0.5-1-081924MS	18439	16.93	15566	21.13	17073	23.30
07 S-928-K1-SO-0.5-1-081924MSI	18339	16.93	15128	21.14	16860	23.30
08 S-903-J-SO-0.5-1.0-081924	19994	16.93	20246	21.14	21193	23.30
09 S-912-J-SO-0-0.5-081924	20199	16.93	18846	21.14	20277	23.30
10 S-912-J-SO-0.5-1-081924	15941	16.93	12739	21.14	14091	23.30
11 PB162880BL	13552	16.93	11004	21.14	11993	23.31
12 PB162880BS	14031	16.93	11303	21.14	12304	23.31

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG NO.: P3671

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/23/2024

Lab File ID: BN033582.D Time Analyzed: 09:48

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	7007	7.545	18519	10.30	9756	14.18
UPPER LIMIT	14014	8.045	37038	10.804	19512	14.678
LOWER LIMIT	3503.5	7.045	9259.5	9.804	4878	13.678
EPA SAMPLE NO.						
01 S-911-K1-SO-0.5-1-081924	6858	7.55	18127	10.30	8708	14.18
02 S-911-K1-SO-0-0.5-081924-FD	6471	7.55	18310	10.30	9783	14.18
03 S-905-KJ-SO-0-0.5-081924DL	8740	7.55	22823	10.30	10830	14.18

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.: P3671 SAS No.: P3671 SDG NO.: P3671

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/23/2024

Lab File ID: BN033582.D Time Analyzed: 09:48

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	21233	16.929	19542	21.139	22177	23.306
UPPER LIMIT	42466	17.429	39084	21.639	44354	23.806
LOWER LIMIT	10616.5	16.429	9771	20.639	11088.5	22.806
EPA SAMPLE NO.						
01 S-911-K1-SO-0.5-1-081924	17176	16.93	13469	21.14	15412	23.31
02 S-911-K1-SO-0-0.5-081924-FI	20641	16.93	16828	21.14	18757	23.31
03 S-905-KJ-SO-0-0.5-081924DL	20585	16.93	17216	21.14	19106	23.31

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG NO.: P3671

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/23/2024

Lab File ID: BN033599.D Time Analyzed: 21:30

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	8463	7.545	21893	10.30	10120	14.18
UPPER LIMIT	16926	8.045	43786	10.803	20240	14.678
LOWER LIMIT	4231.5	7.045	10946.5	9.803	5060	13.678
EPA SAMPLE NO.						
01 S-905-KJ-SO-0-0.5-081924-FDDL	9368	7.55	22518	10.30	10375	14.18
02 S-903-J-SO-0.5-1.0-081924DL	7890	7.55	20855	10.30	10027	14.18

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.: P3671 SAS No.: P3671 SDG NO.: P3671

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/23/2024

Lab File ID: BN033599.D Time Analyzed: 21:30

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	19008	16.929	15095	21.139	17412	23.305
UPPER LIMIT	38016	17.429	30190	21.639	34824	23.805
LOWER LIMIT	9504	16.429	7547.5	20.639	8706	22.805
EPA SAMPLE NO.						
01 S-905-KJ-SO-0-0.5-081924-FI	19734	16.93	16882	21.13	18150	23.30
02 S-903-J-SO-0.5-1.0-081924D	19250	16.93	16100	21.14	17643	23.30

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-03	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	46.9
Sample Wt/Vol:	30.07 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033567.D	1	08/21/24 09:38	08/23/24 00:28	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	2.30	J	1.50	7.00	ug/Kg
91-57-6	2-Methylnaphthalene	2.70	J	1.70	7.00	ug/Kg
208-96-8	Acenaphthylene	2.70	J	1.30	7.00	ug/Kg
83-32-9	Acenaphthene	1.60	J	1.20	7.00	ug/Kg
86-73-7	Fluorene	4.30	J	1.30	7.00	ug/Kg
85-01-8	Phenanthrene	23.5		1.30	7.00	ug/Kg
120-12-7	Anthracene	4.20	J	1.70	7.00	ug/Kg
206-44-0	Fluoranthene	53.1		1.40	7.00	ug/Kg
129-00-0	Pyrene	37.4		2.00	7.00	ug/Kg
56-55-3	Benzo(a)anthracene	21.6		1.60	7.00	ug/Kg
218-01-9	Chrysene	29.1		1.80	7.00	ug/Kg
205-99-2	Benzo(b)fluoranthene	36.1		2.50	7.00	ug/Kg
207-08-9	Benzo(k)fluoranthene	13.8		2.10	7.00	ug/Kg
50-32-8	Benzo(a)pyrene	27.4		3.50	7.00	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	16.7		2.70	7.00	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	4.80	J	2.50	7.00	ug/Kg
191-24-2	Benzo(g,h,i)perylene	19.8		2.40	7.00	ug/Kg
123-91-1	1,4-Dioxane	4.70	U	4.70	14.0	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.21		30 (17) - 150 (161)	53%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.18		30 (23) - 150 (138)	44%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		30 (33) - 130 (121)	73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.21		30 (32) - 130 (121)	52%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.14		30 (21) - 130 (130)	36%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7030		7.545		
1146-65-2	Naphthalene-d8	18000		10.303		
15067-26-2	Acenaphthene-d10	8340		14.178		
1517-22-2	Phenanthrene-d10	17400		16.929		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-03	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	46.9
Sample Wt/Vol:	30.07 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033567.D	1	08/21/24 09:38	08/23/24 00:28	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	15000	21.139			
1520-96-3	Perylene-d12	17200	23.303			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033567.D
Acq On : 23 Aug 2024 00:28
Operator : MA/JU
Sample : P3671-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924

Quant Time: Aug 23 01:36:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	7027	0.400	ng	0.00
7) Naphthalene-d8	10.303	136	17952	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	8336	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	17399	0.400	ng	# 0.00
29) Chrysene-d12	21.139	240	14980	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	17231	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	4606	0.206	ng	0.00
5) Phenol-d6	6.729	99	5376	0.202	ng	0.00
8) Nitrobenzene-d5	8.681	82	4363	0.293	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	5407	0.211	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	882	0.197	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	7139	0.210	ng	0.00
27) Fluoranthene-d10	18.970	212	7439	0.178	ng	0.00
31) Terphenyl-d14	19.583	244	4915	0.144	ng	0.00
Target Compounds						
9) Naphthalene	10.357	128	1549	0.032	ng	# 81
12) 2-Methylnaphthalene	11.979	142	1168	0.038	ng	# 91
16) Acenaphthylene	13.900	152	1378	0.038	ng	95
17) Acenaphthene	14.242	154	587	0.023	ng	# 91
18) Fluorene	15.236	166	1963	0.061	ng	# 40
25) Phenanthrene	16.966	178	16053m	0.332	ng	
26) Anthracene	17.066	178	2508	0.059	ng	# 87
28) Fluoranthene	19.003	202	40078	0.749	ng	100
30) Pyrene	19.365	202	35327	0.528	ng	# 95
32) Benzo(a)anthracene	21.121	228	16542	0.305	ng	95
33) Chrysene	21.175	228	22138	0.411	ng	97
34) Bis(2-ethylhexyl)phtha...	21.085	149	2547m	0.074	ng	
36) Indeno(1,2,3-cd)pyrene	25.449	276	16797	0.235	ng	97
37) Benzo(b)fluoranthene	22.662	252	32758	0.509	ng	95
38) Benzo(k)fluoranthene	22.697	252	12346m	0.195	ng	
39) Benzo(a)pyrene	23.206	252	20599	0.387	ng	96
40) Dibenzo(a,h)anthracene	25.460	278	3867	0.068	ng	# 56
41) Benzo(g,h,i)perylene	26.104	276	17089	0.279	ng	95

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

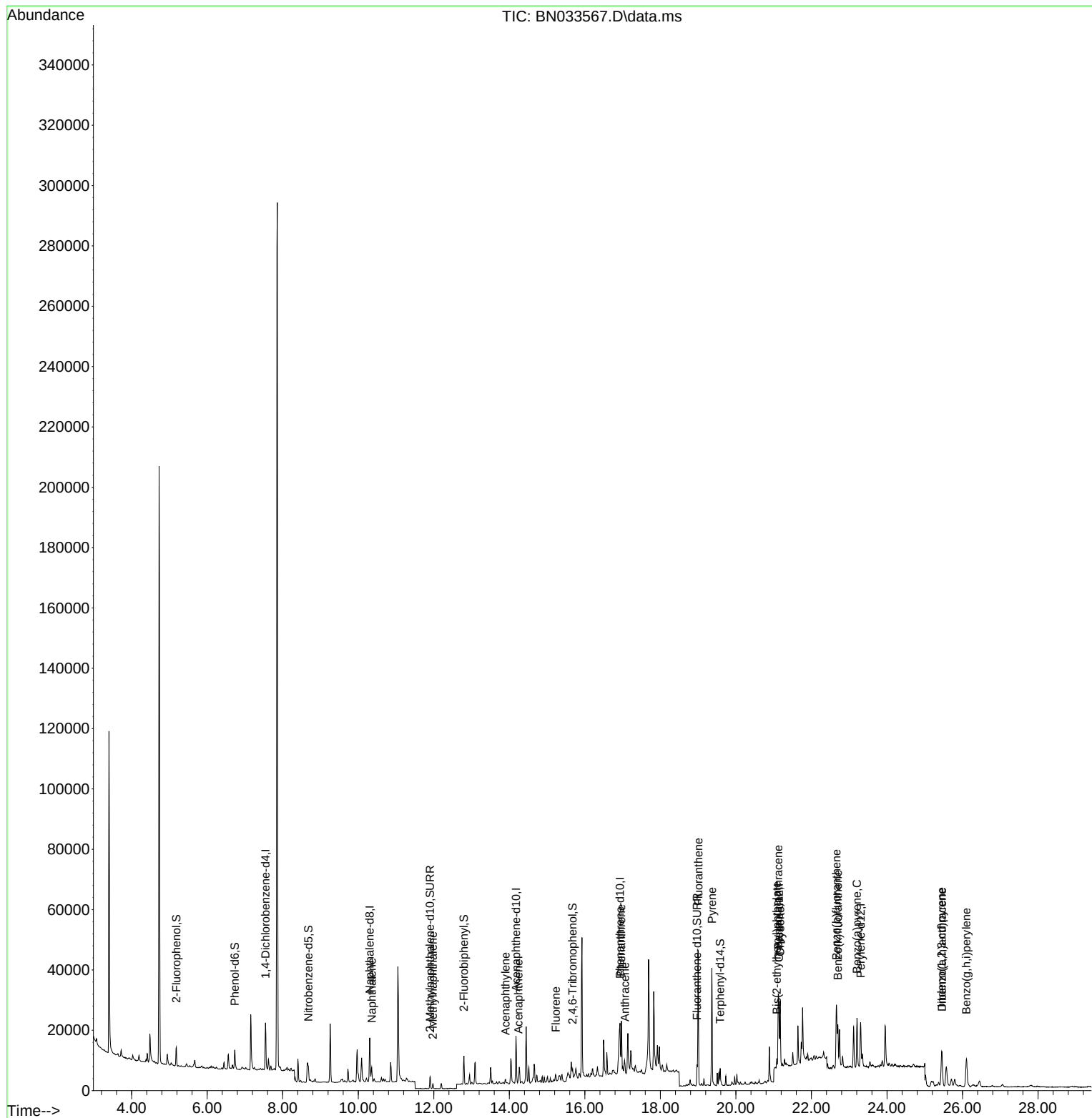
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033567.D
Acq On : 23 Aug 2024 00:28
Operator : MA/JU
Sample : P3671-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

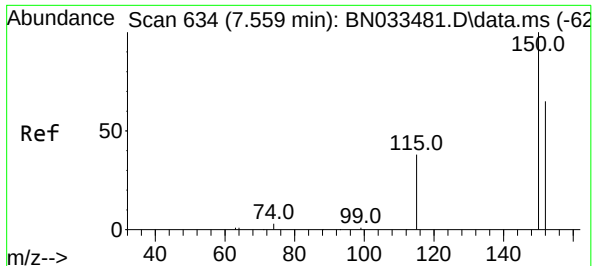
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

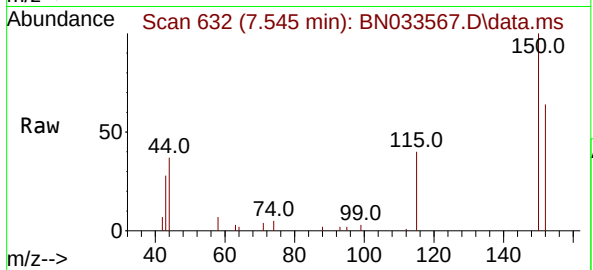
Quant Time: Aug 23 01:36:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

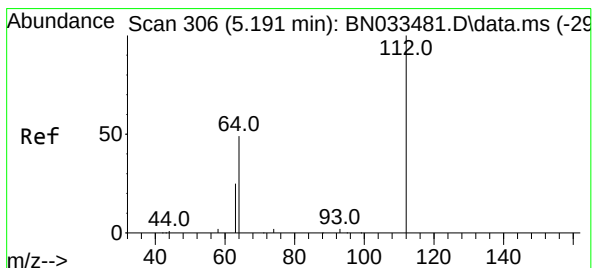
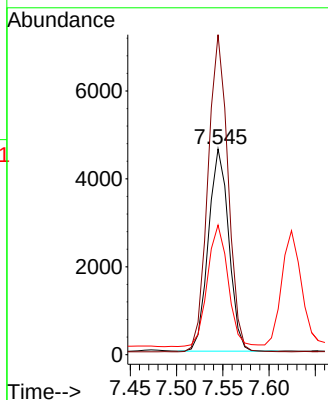
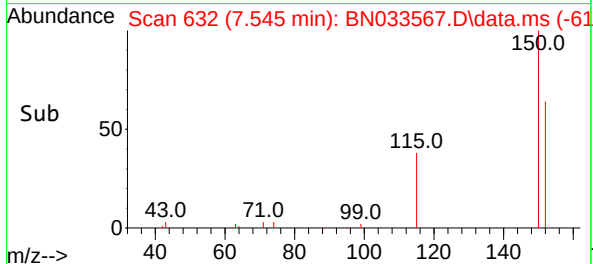
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



Tgt Ion:152 Resp: 702
Ion Ratio Lower Upper
152 100
150 155.6 122.2 183.2
115 63.0 47.2 70.8

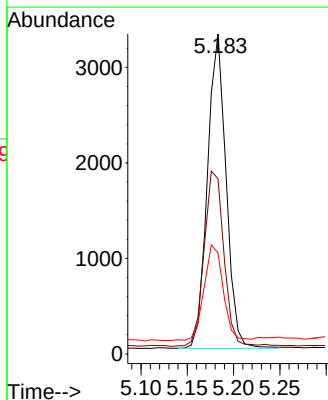
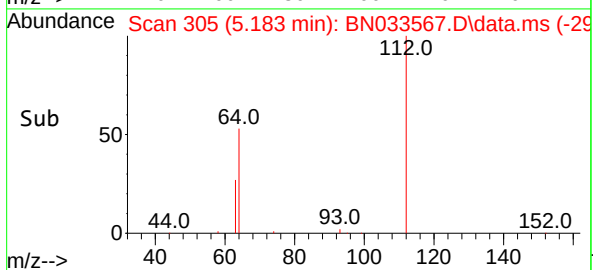
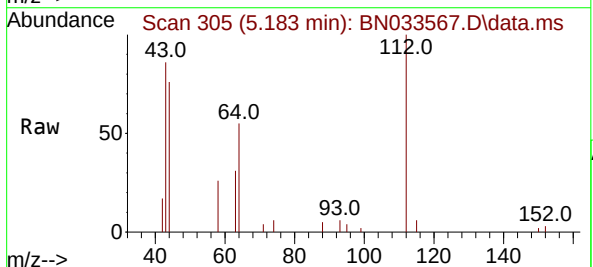
Manual Integrations
APPROVED

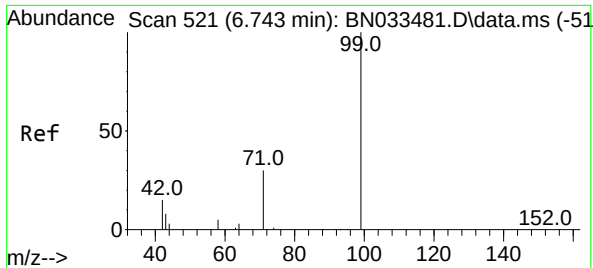
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.206 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

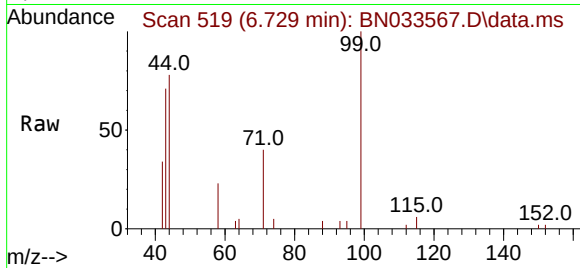
Tgt Ion:112 Resp: 4606
Ion Ratio Lower Upper
112 100
64 59.2 47.1 70.7
63 31.3 24.9 37.3





#5
Phenol-d6
Concen: 0.202 ng
RT: 6.729 min Scan# 519
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

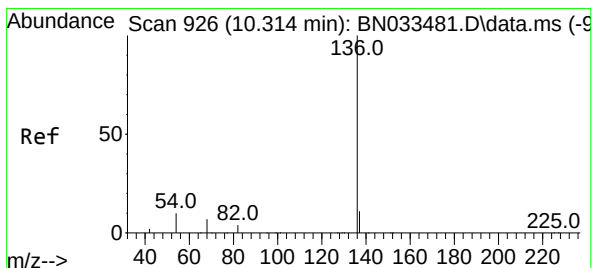
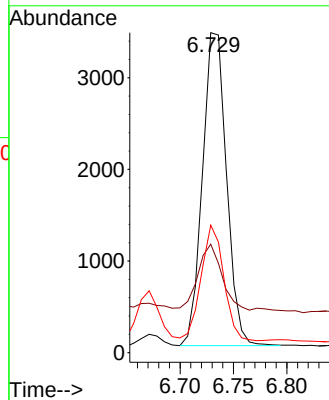
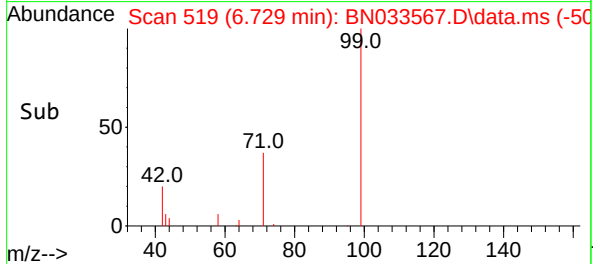
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



Tgt Ion: 99 Resp: 5370
Ion Ratio Lower Upper
99 100
42 22.1 16.6 24.8
71 35.0 26.2 39.4

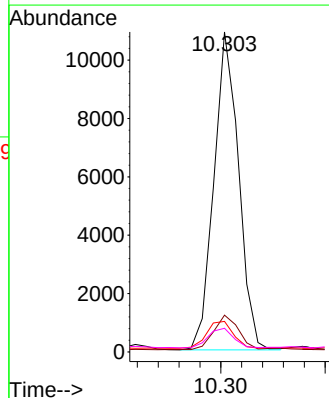
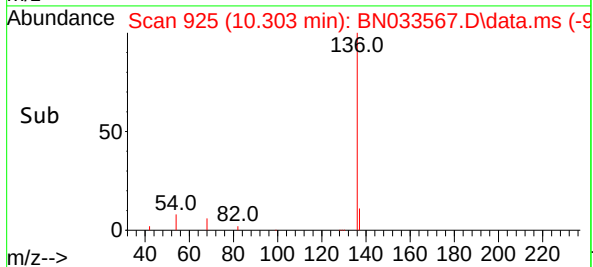
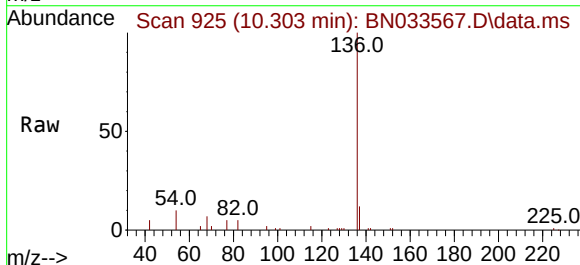
Manual Integrations
APPROVED

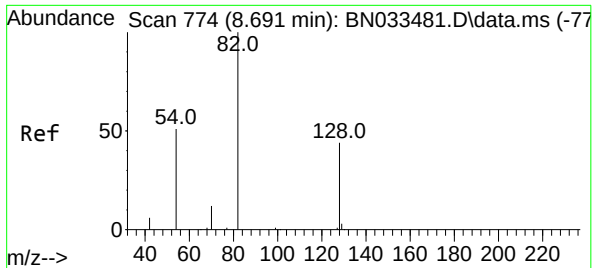
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.303 min Scan# 925
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

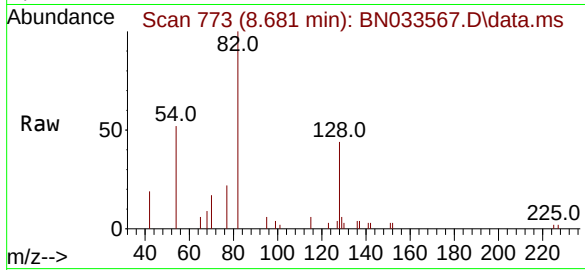
Tgt Ion:136 Resp: 17952
Ion Ratio Lower Upper
136 100
137 11.5 9.0 13.6
54 9.5 8.3 12.5
68 7.4 5.9 8.9





#8
Nitrobenzene-d5
Concen: 0.293 ng
RT: 8.681 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

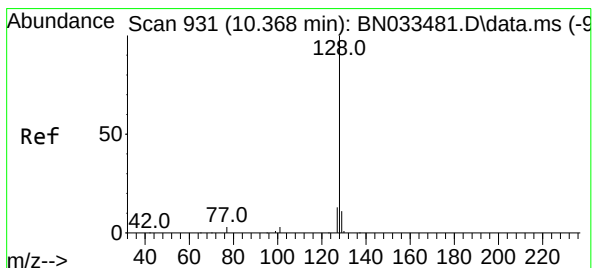
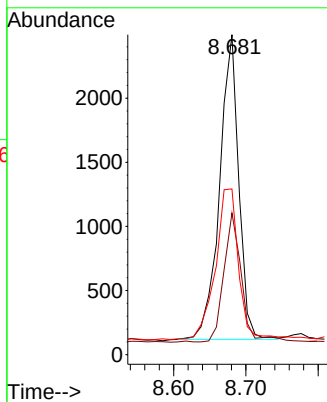
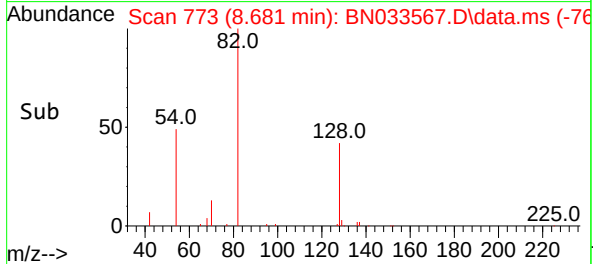
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



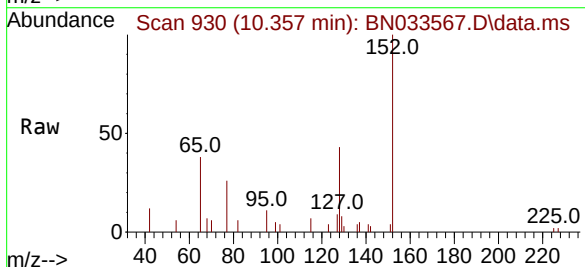
Tgt Ion: 82 Resp: 436
Ion Ratio Lower Upper
82 100
128 44.2 36.0 54.0
54 51.8 42.0 63.0

Manual Integrations
APPROVED

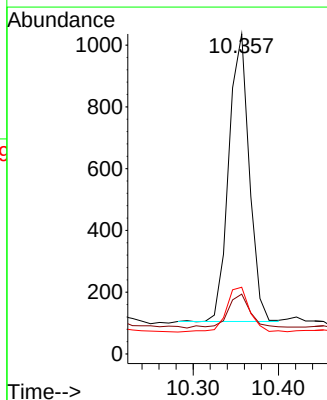
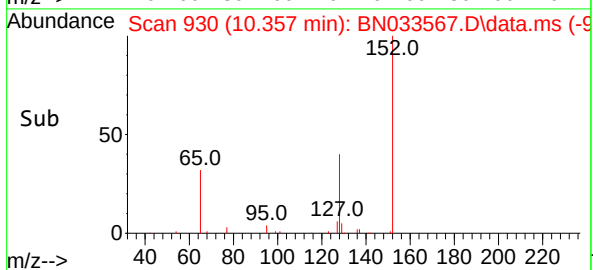
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

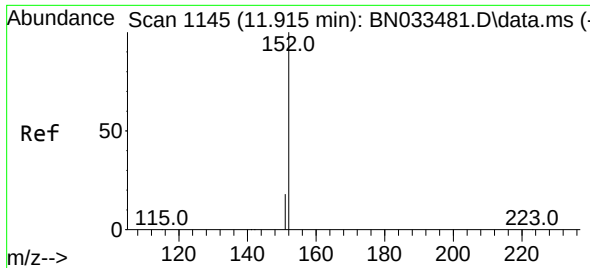


#9
Naphthalene
Concen: 0.032 ng
RT: 10.357 min Scan# 930
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28



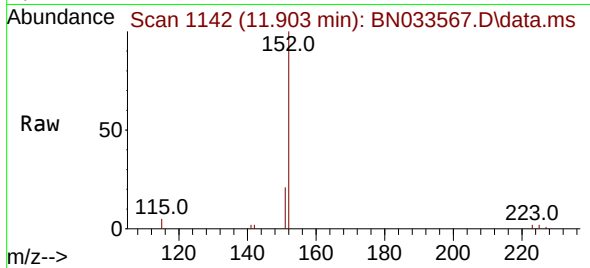
Tgt Ion:128 Resp: 1549
Ion Ratio Lower Upper
128 100
129 18.7 9.1 13.7#
127 20.8 10.7 16.1#





#11
2-Methylnaphthalene-d10
Concen: 0.211 ng
RT: 11.903 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

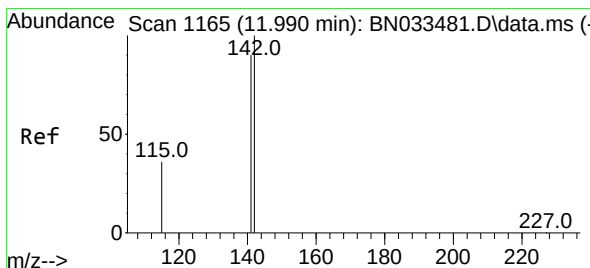
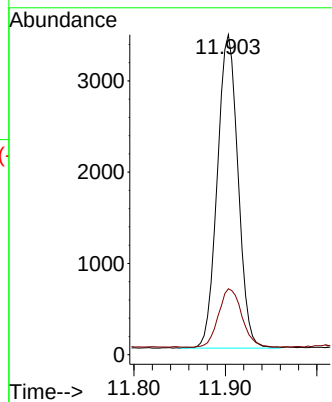
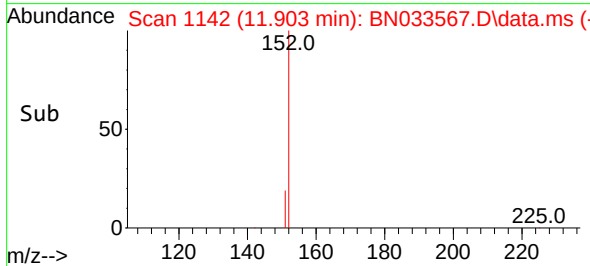
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



Tgt Ion:152 Resp: 540
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0

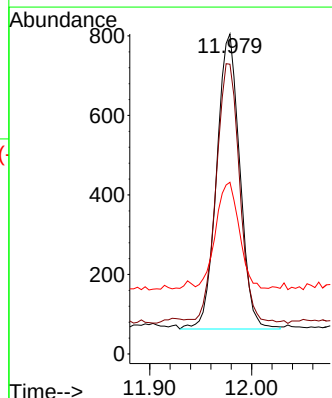
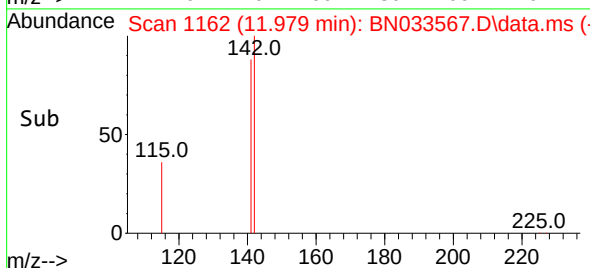
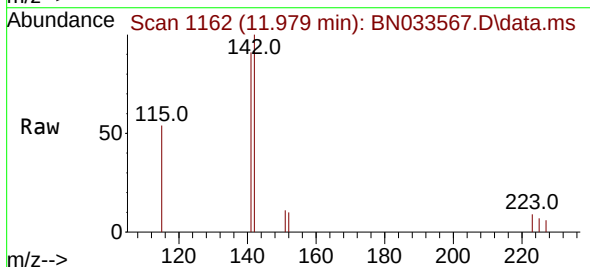
Manual Integrations
APPROVED

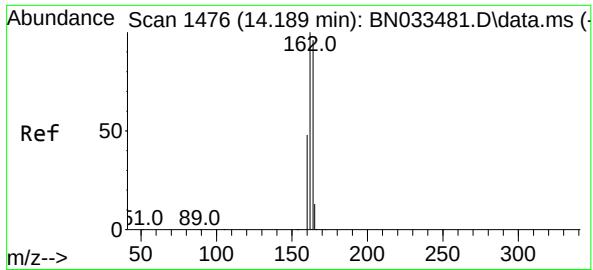
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#12
2-Methylnaphthalene
Concen: 0.038 ng
RT: 11.979 min Scan# 1162
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

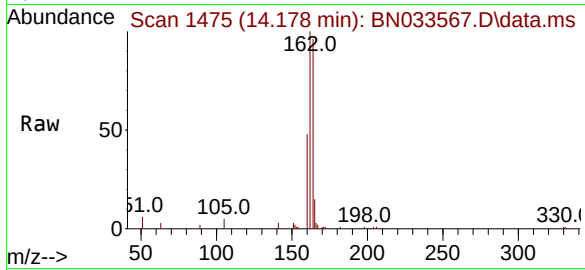
Tgt Ion:142 Resp: 1168
Ion Ratio Lower Upper
142 100
141 90.6 71.7 107.5
115 53.7 29.4 44.2#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1475
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

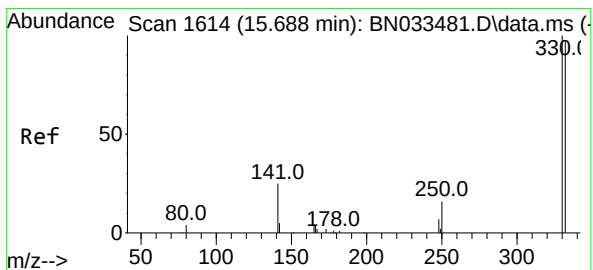
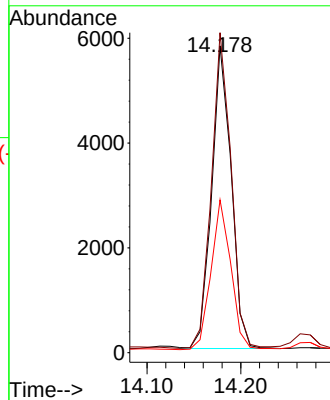
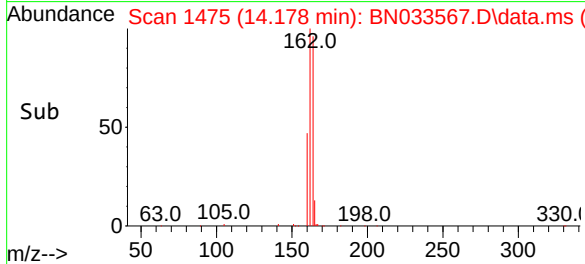
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



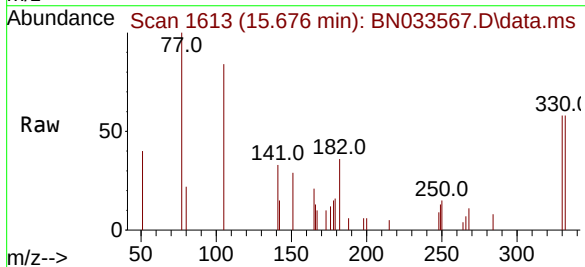
Tgt Ion:164 Resp: 8330
Ion Ratio Lower Upper
164 100
162 104.3 83.5 125.3
160 49.8 40.2 60.4

Manual Integrations
APPROVED

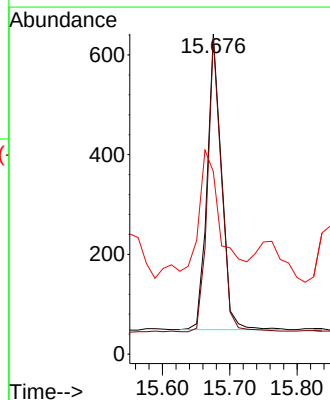
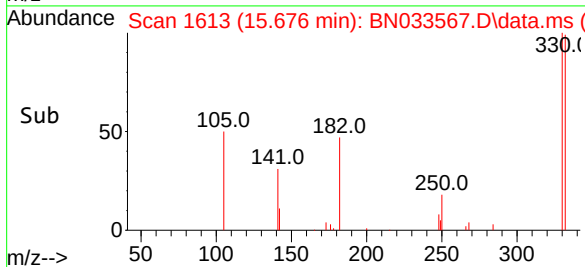
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

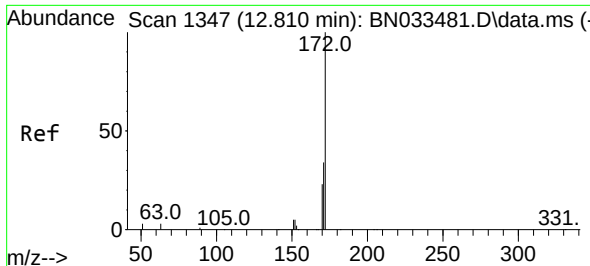


#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.676 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28



Tgt Ion:330 Resp: 882
Ion Ratio Lower Upper
330 100
332 95.6 77.5 116.3
141 51.5 33.9 50.9#





#15

2-Fluorobiphenyl

Concen: 0.210 ng

RT: 12.799 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033567.D

Acq: 23 Aug 2024 00:28

Instrument :

BNA_N

ClientSampleId :

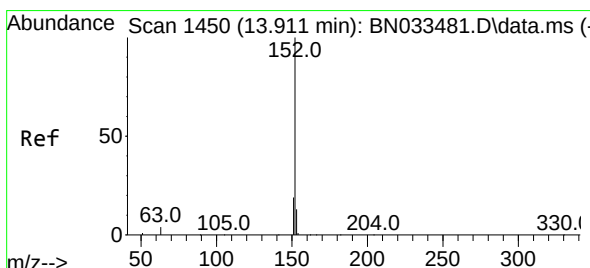
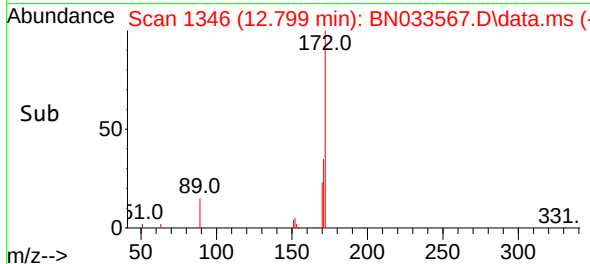
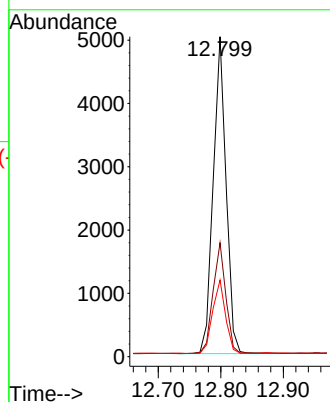
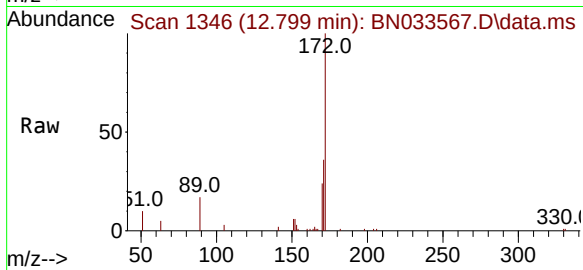
S-911-KI-SO-0-0.5-081924

Tgt Ion:	172	Resp:	7139
Ion	Ratio	Lower	Upper
172	100		
171	35.6	27.7	41.5
170	24.0	18.3	27.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#16

Acenaphthylene

Concen: 0.038 ng

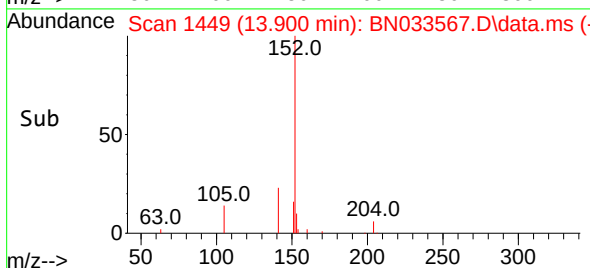
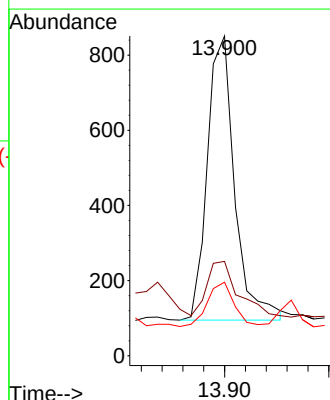
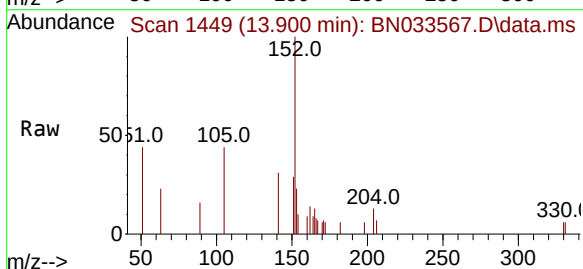
RT: 13.900 min Scan# 1449

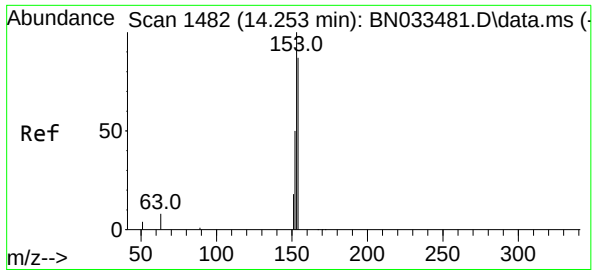
Delta R.T. -0.000 min

Lab File: BN033567.D

Acq: 23 Aug 2024 00:28

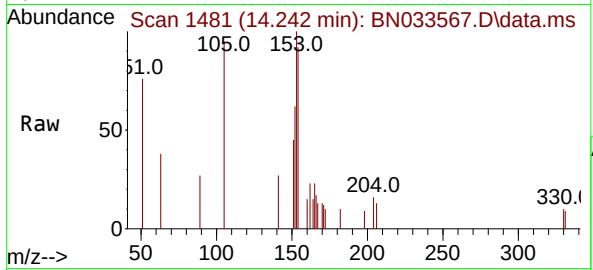
Tgt Ion:	152	Resp:	1378
Ion	Ratio	Lower	Upper
152	100		
151	21.3	15.7	23.5
153	15.2	10.3	15.5





#17
Acenaphthene
Concen: 0.023 ng
RT: 14.242 min Scan# 1481
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

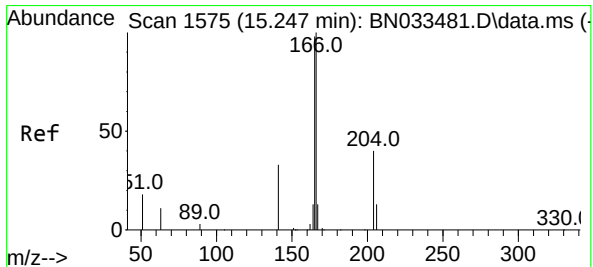
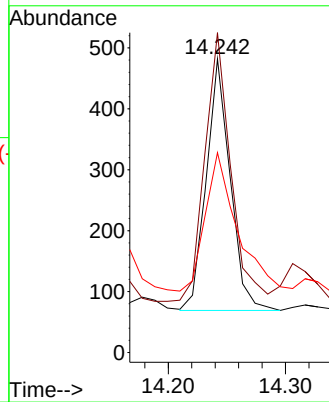
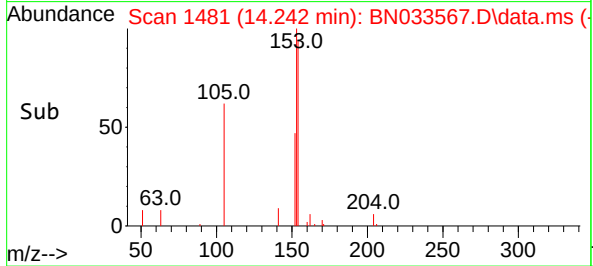
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



Tgt Ion:154 Resp: 58
Ion Ratio Lower Upper
154 100
153 114.1 89.0 133.6
152 72.4 45.2 67.8

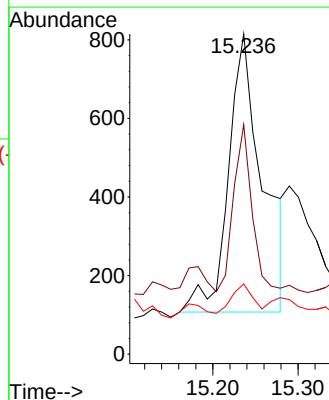
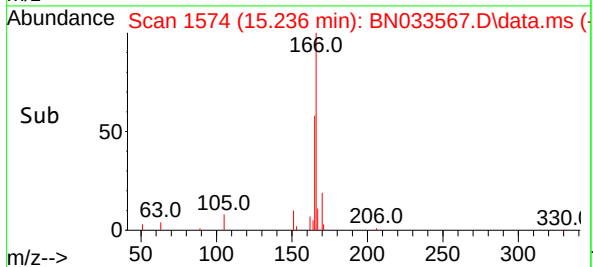
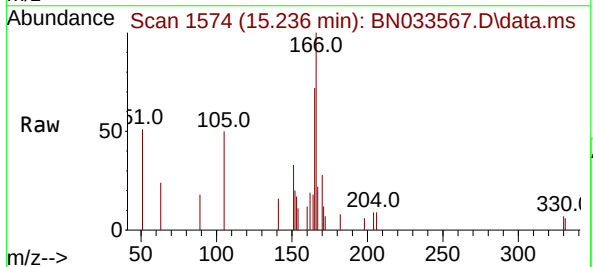
Manual Integrations
APPROVED

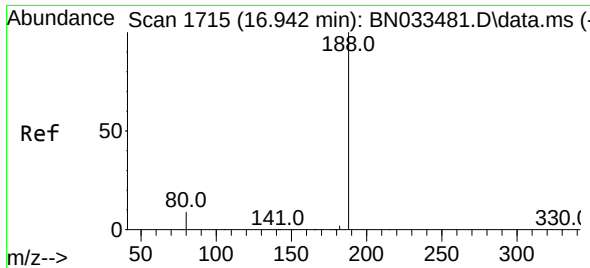
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#18
Fluorene
Concen: 0.061 ng
RT: 15.236 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

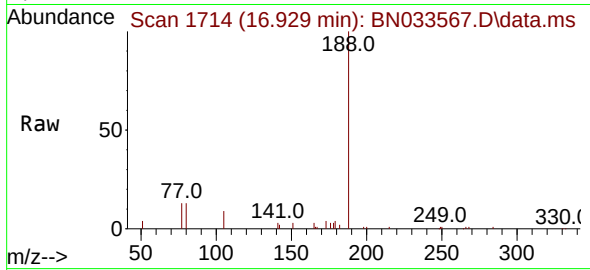
Tgt Ion:166 Resp: 1963
Ion Ratio Lower Upper
166 100
165 32.3 78.2 117.4#
167 6.4 10.6 16.0#





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1715
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

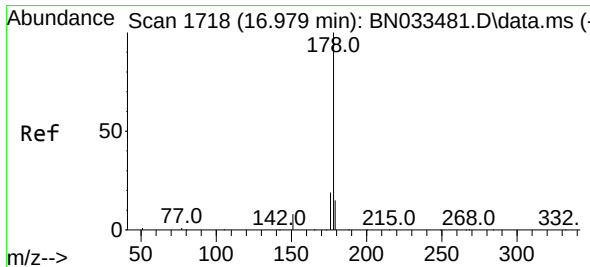
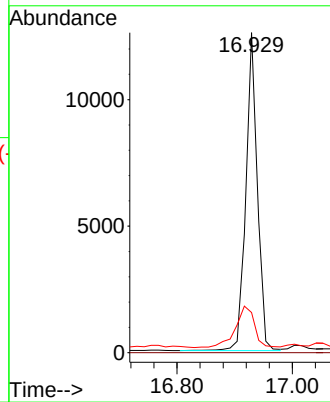
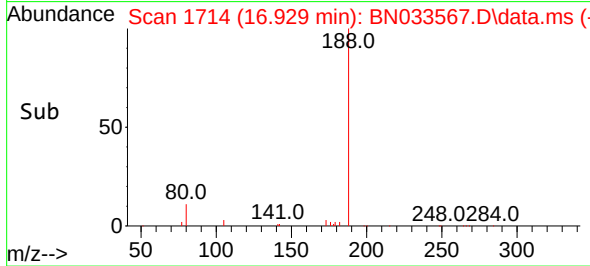
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



Tgt Ion:188 Resp: 17399
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.5 7.8 11.8

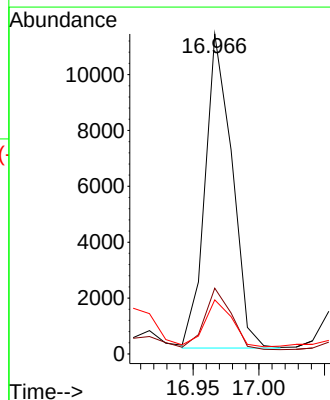
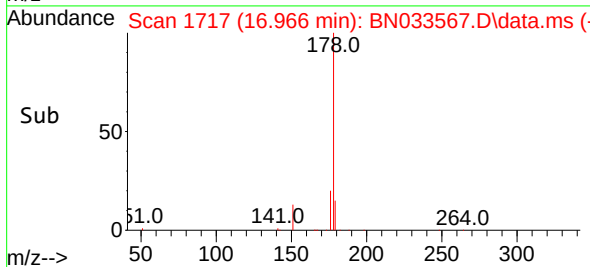
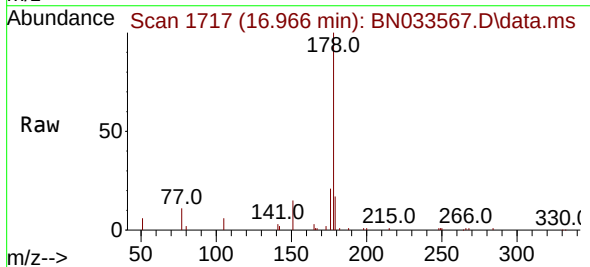
Manual Integrations
APPROVED

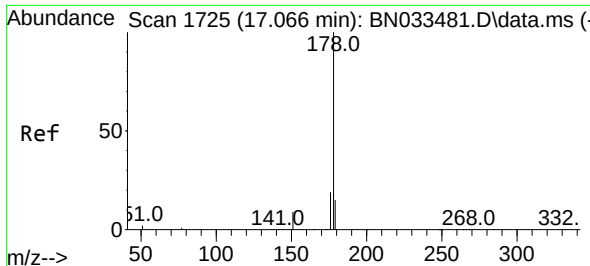
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#25
Phenanthrene
Concen: 0.332 ng m
RT: 16.966 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

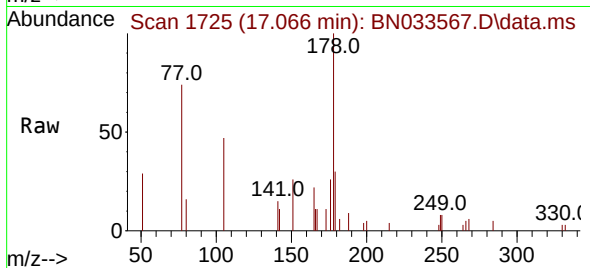
Tgt Ion:178 Resp: 16053
Ion Ratio Lower Upper
178 100
176 19.4 15.3 22.9
179 14.9 12.3 18.5





#26
Anthracene
Concen: 0.059 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

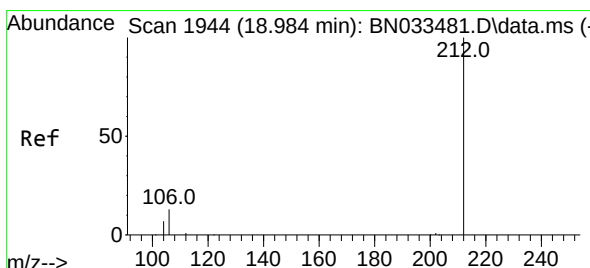
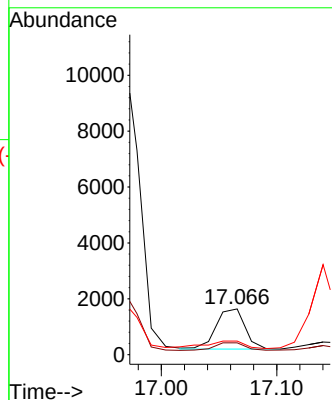
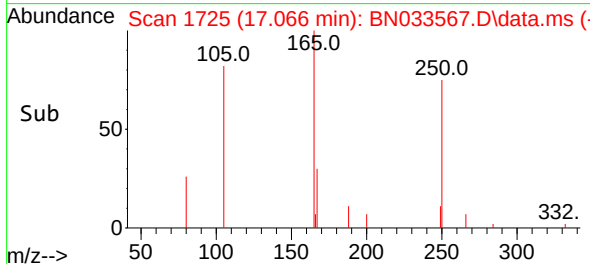
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



Tgt Ion:178 Resp: 2500
Ion Ratio Lower Upper
178 100
176 19.7 15.0 22.6
179 26.8 12.4 18.6

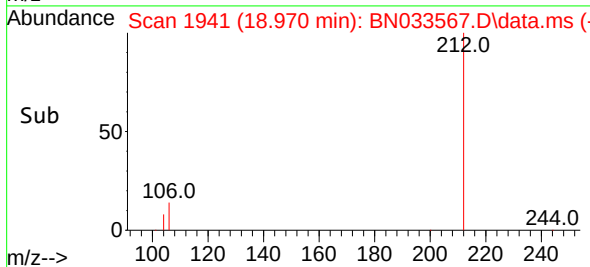
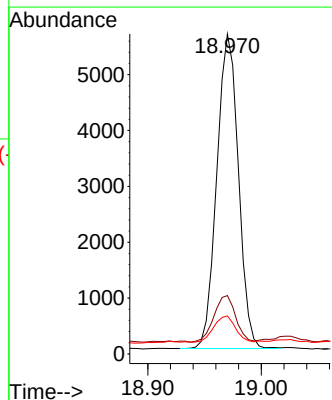
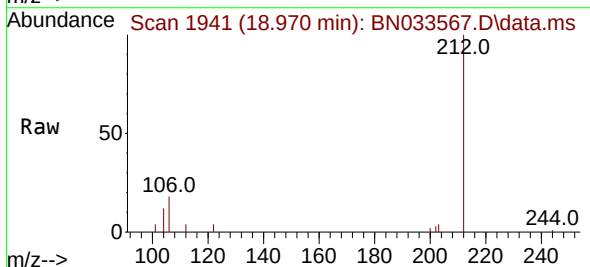
Manual Integrations
APPROVED

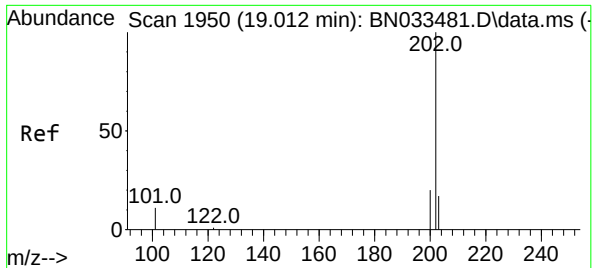
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#27
Fluoranthene-d10
Concen: 0.178 ng
RT: 18.970 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

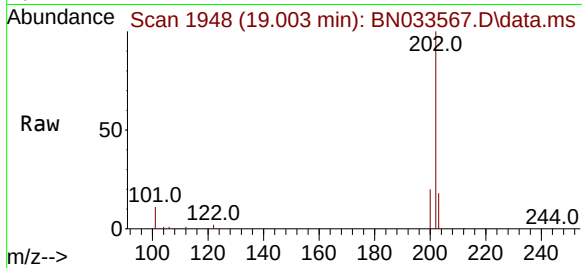
Tgt Ion:212 Resp: 7439
Ion Ratio Lower Upper
212 100
106 14.9 12.3 18.5
104 8.8 7.0 10.4





#28
Fluoranthene
Concen: 0.749 ng
RT: 19.003 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

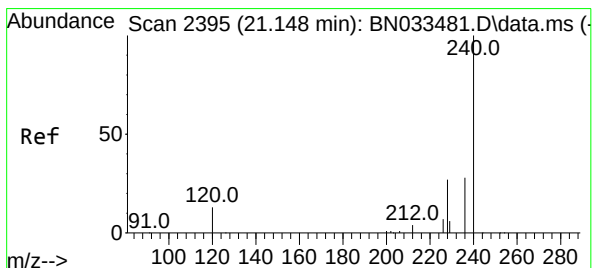
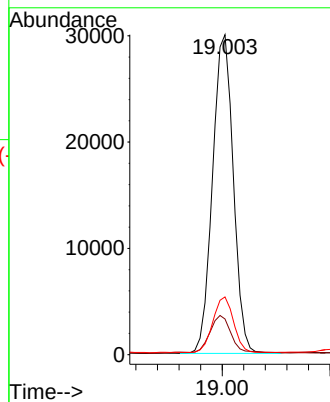
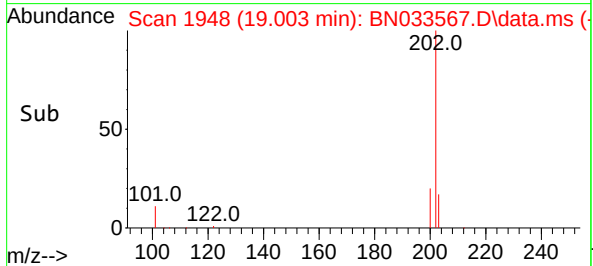
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



Tgt Ion:202 Resp: 40078
Ion Ratio Lower Upper
202 100
101 12.0 9.5 14.3
203 17.3 13.8 20.6

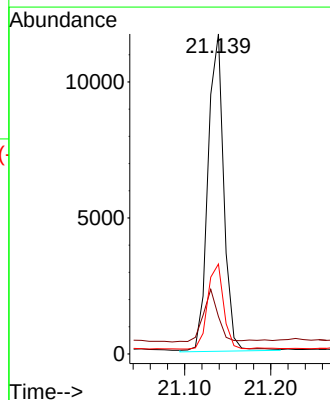
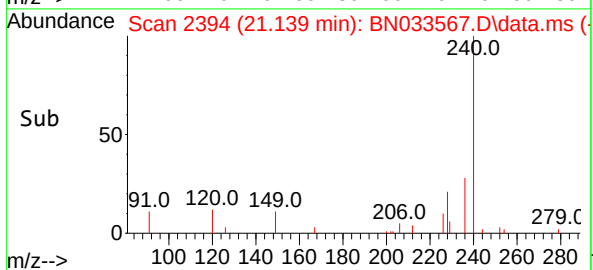
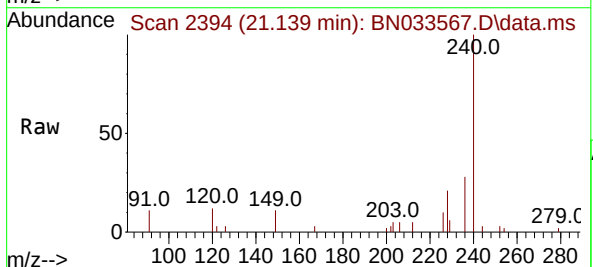
Manual Integrations
APPROVED

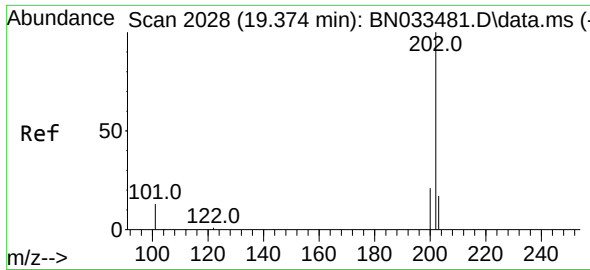
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

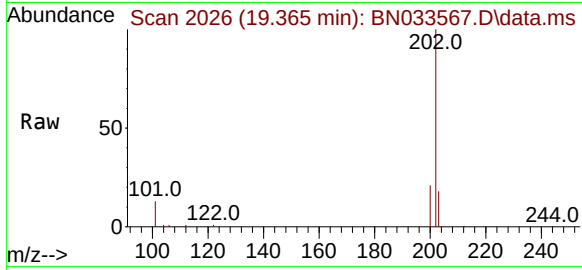
Tgt Ion:240 Resp: 14980
Ion Ratio Lower Upper
240 100
120 11.7 12.4 18.6#
236 28.1 23.0 34.6





#30
Pyrene
Concen: 0.528 ng
RT: 19.365 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

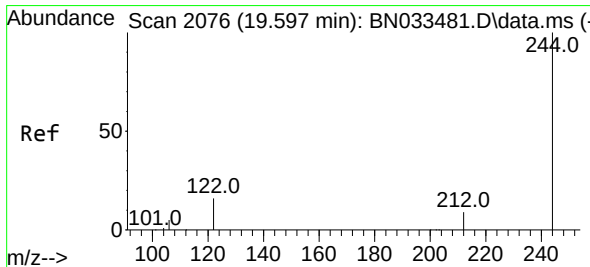
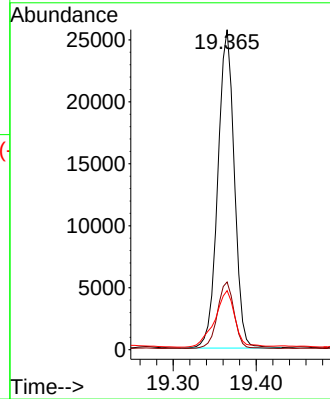
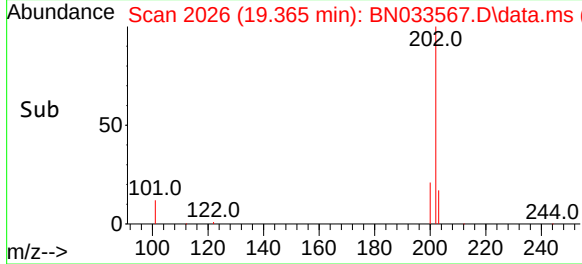
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



Tgt Ion:202 Resp: 3532
Ion Ratio Lower Upper
202 100
200 21.1 16.6 24.8
203 21.8 14.2 21.4

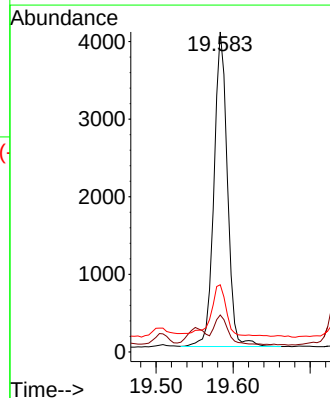
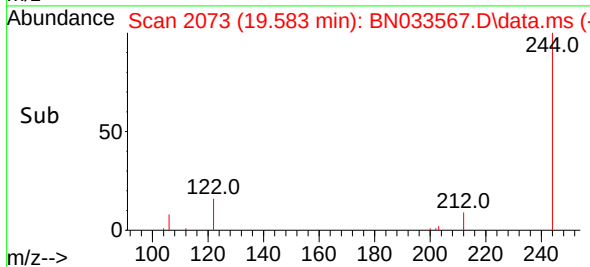
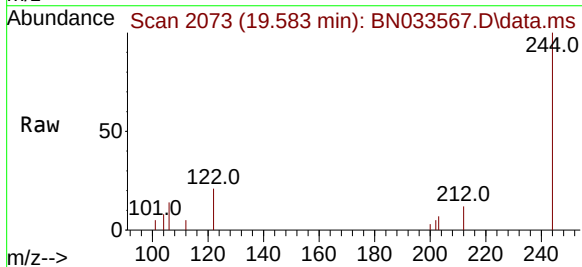
Manual Integrations
APPROVED

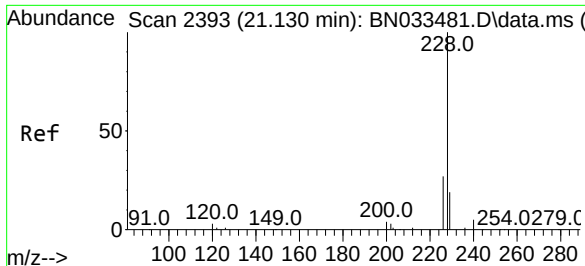
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#31
Terphenyl-d14
Concen: 0.144 ng
RT: 19.583 min Scan# 2073
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

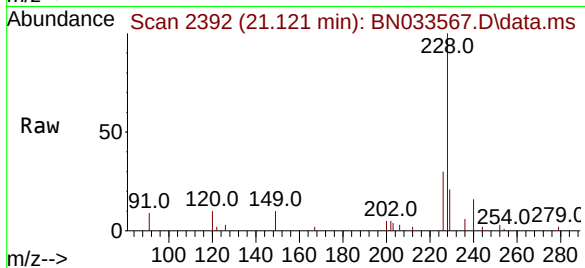
Tgt Ion:244 Resp: 4915
Ion Ratio Lower Upper
244 100
212 11.5 7.8 11.6
122 21.0 13.3 19.9





#32
Benzo(a)anthracene
Concen: 0.305 ng
RT: 21.121 min Scan# 21121
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

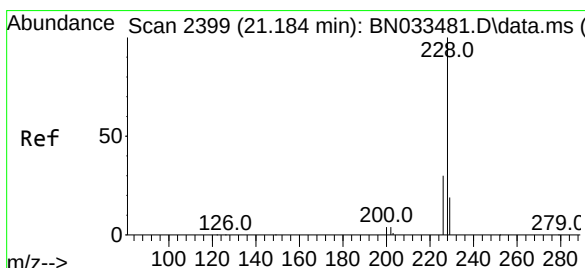
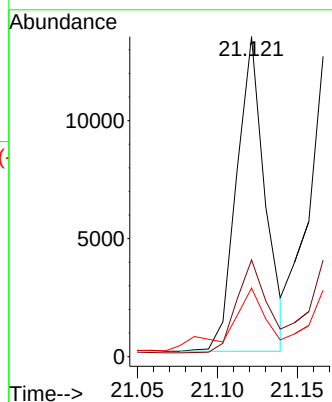
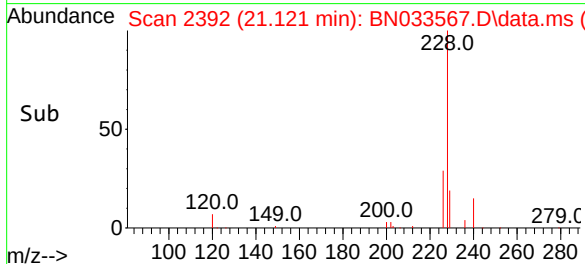
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



Tgt Ion:228 Resp: 1654
Ion Ratio Lower Upper
228 100
226 30.3 21.8 32.6
229 21.5 15.8 23.6

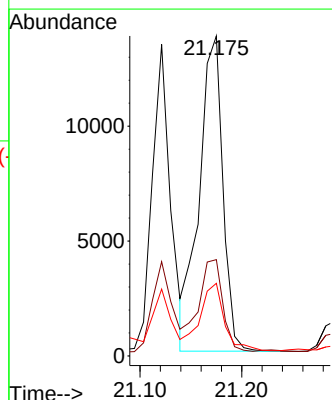
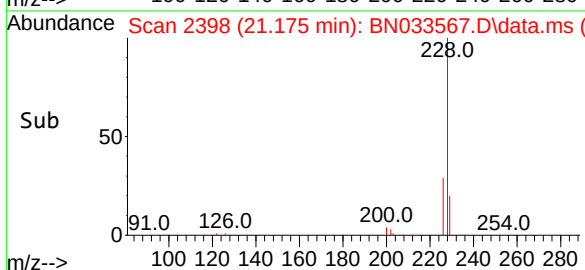
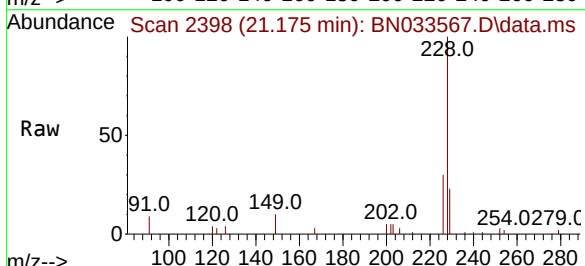
Manual Integrations
APPROVED

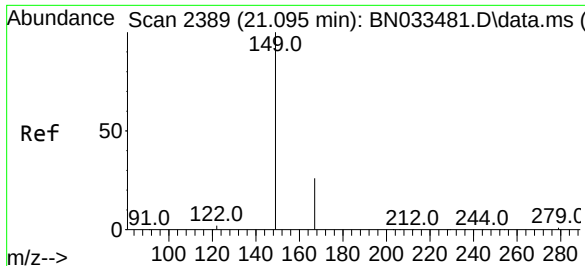
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#33
Chrysene
Concen: 0.411 ng
RT: 21.175 min Scan# 2398
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

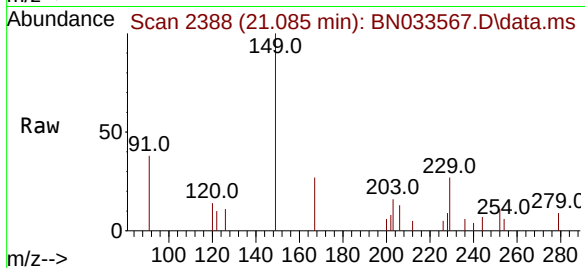
Tgt Ion:228 Resp: 22138
Ion Ratio Lower Upper
228 100
226 30.1 23.8 35.8
229 22.7 15.6 23.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.074 ng m
RT: 21.085 min Scan# 21085
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

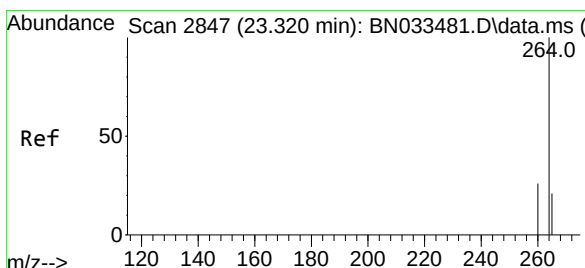
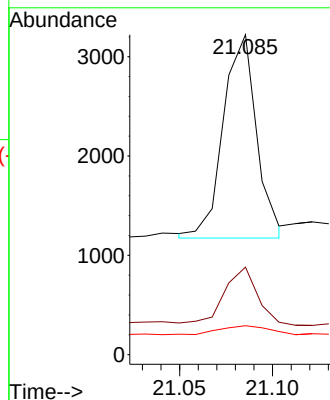
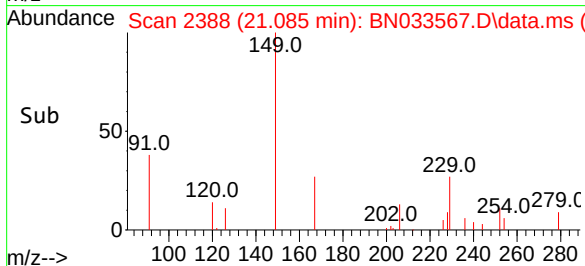
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924



Tgt Ion:149 Resp: 254
Ion Ratio Lower Upper
149 100
167 115.3 21.5 32.3
279 15.5 2.2 3.2

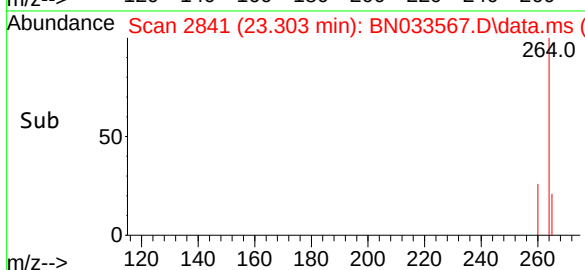
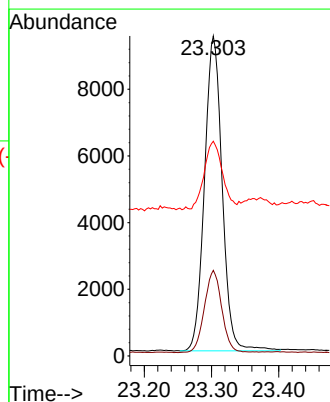
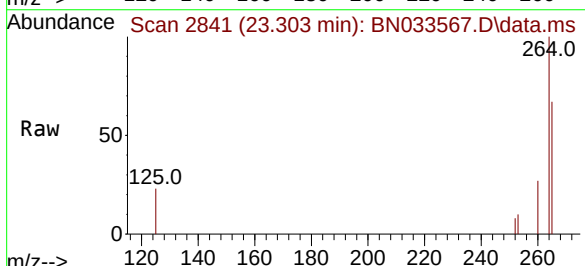
Manual Integrations
APPROVED

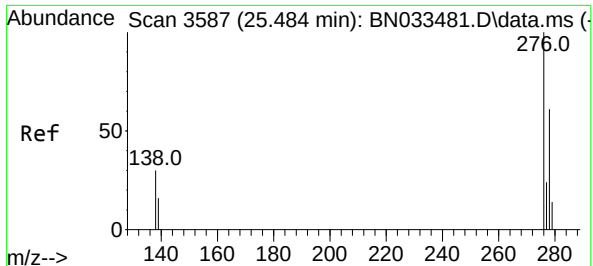
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2841
Delta R.T. -0.000 min
Lab File: BN033567.D
Acq: 23 Aug 2024 00:28

Tgt Ion:264 Resp: 17231
Ion Ratio Lower Upper
264 100
260 26.8 20.8 31.2
265 67.1 52.2 78.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.235 ng

RT: 25.449 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN033567.D

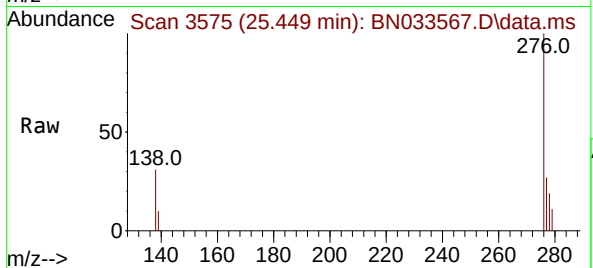
Acq: 23 Aug 2024 00:28

Instrument :

BNA_N

ClientSampleId :

S-911-KI-SO-0-0.5-081924



Tgt Ion:276 Resp: 1679

Ion Ratio Lower Upper

276 100

138 27.1 24.4 36.6

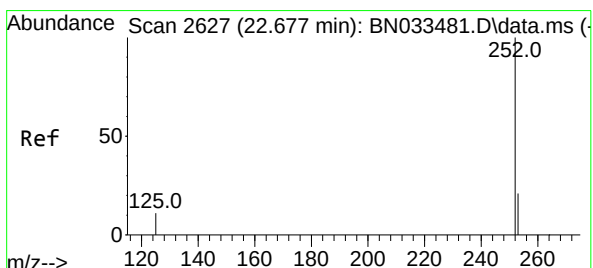
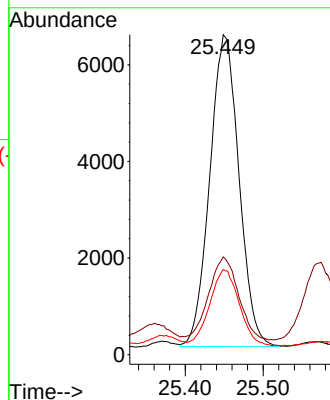
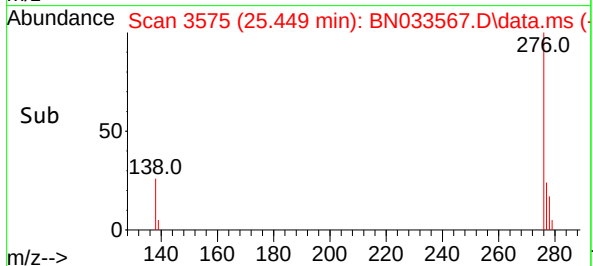
277 24.7 19.8 29.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#37

Benzo(b)fluoranthene

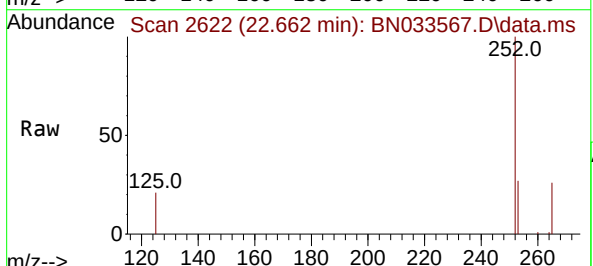
Concen: 0.509 ng

RT: 22.662 min Scan# 2622

Delta R.T. 0.003 min

Lab File: BN033567.D

Acq: 23 Aug 2024 00:28



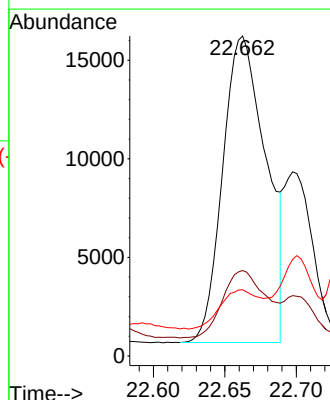
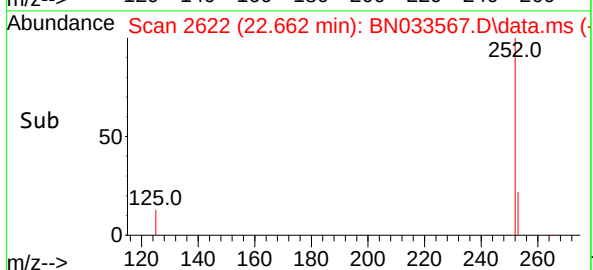
Tgt Ion:252 Resp: 32758

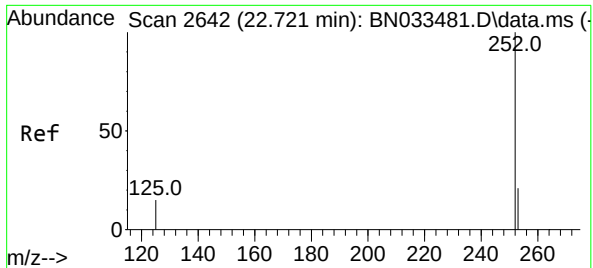
Ion Ratio Lower Upper

252 100

253 26.7 19.8 29.8

125 20.7 13.9 20.9





#38

Benzo(k)fluoranthene

Concen: 0.195 ng m

RT: 22.697 min Scan# 2

Delta R.T. -0.006 min

Lab File: BN033567.D

Acq: 23 Aug 2024 00:28

Instrument :

BNA_N

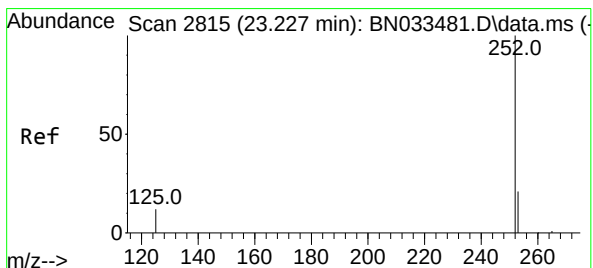
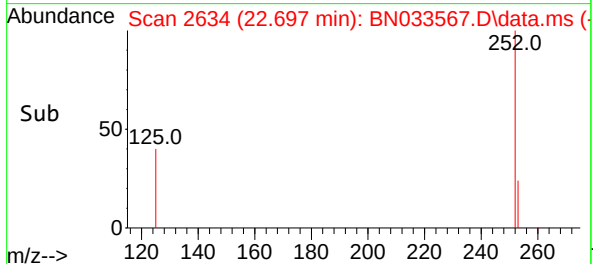
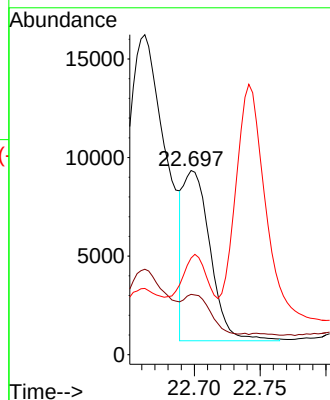
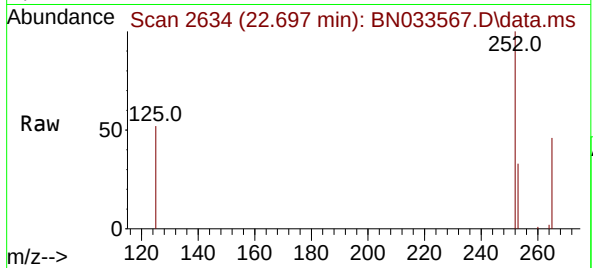
ClientSampleId :

S-911-KI-SO-0-0.5-081924

Tgt Ion:252	Resp:	12340
Ion Ratio	Lower	Upper
252	100	
253	32.8	19.8 29.8
125	52.5	15.8 23.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#39

Benzo(a)pyrene

Concen: 0.387 ng

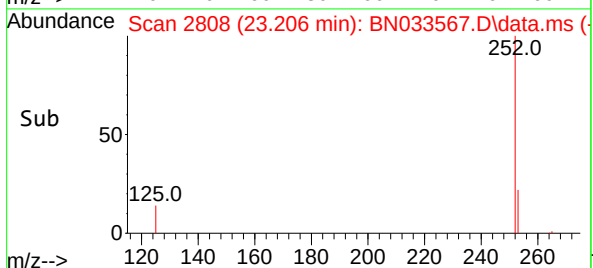
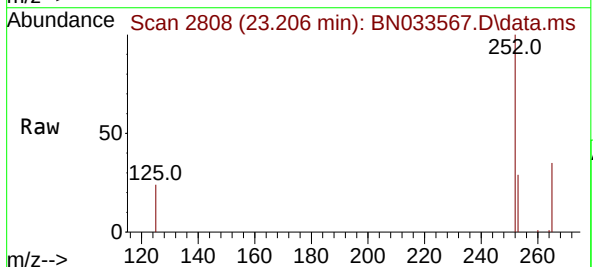
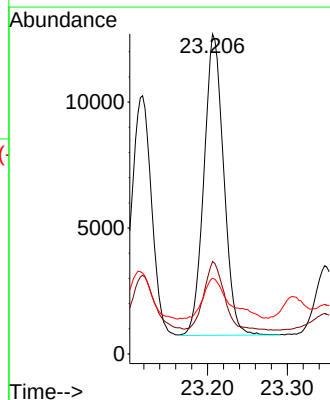
RT: 23.206 min Scan# 2808

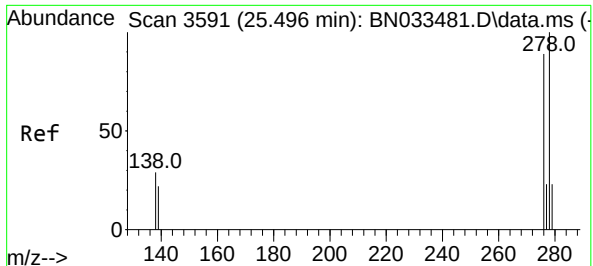
Delta R.T. -0.003 min

Lab File: BN033567.D

Acq: 23 Aug 2024 00:28

Tgt Ion:252	Resp:	20599
Ion Ratio	Lower	Upper
252	100	
253	28.9	21.5 32.3
125	23.6	17.0 25.4





#40

Dibenzo(a,h)anthracene

Concen: 0.068 ng

RT: 25.460 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN033567.D

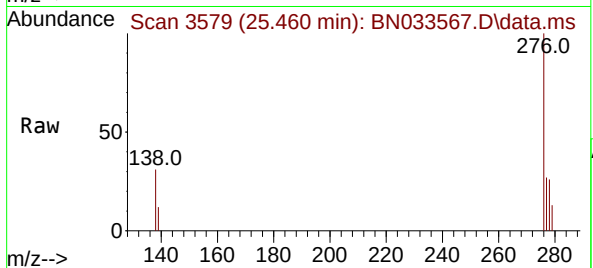
Acq: 23 Aug 2024 00:28

Instrument :

BNA_N

ClientSampleId :

S-911-KI-SO-0-0.5-081924



Tgt Ion:278 Resp: 386

Ion Ratio Lower Upper

278 100

139 44.4 19.1 28.7

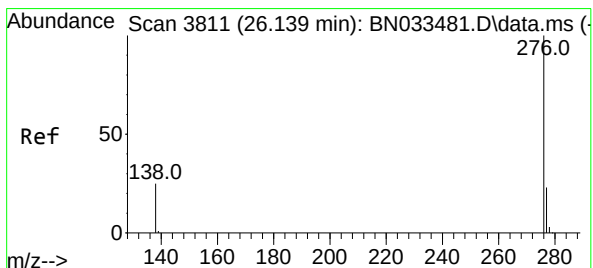
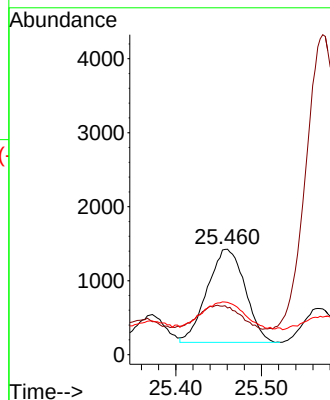
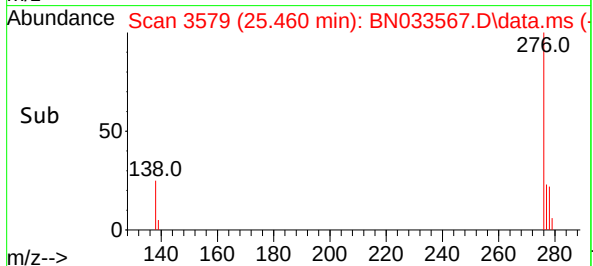
279 49.6 21.0 31.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#41

Benzo(g,h,i)perylene

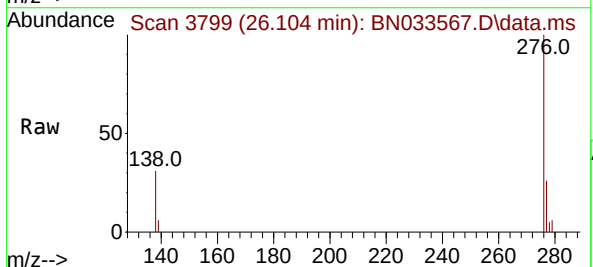
Concen: 0.279 ng

RT: 26.104 min Scan# 3799

Delta R.T. -0.000 min

Lab File: BN033567.D

Acq: 23 Aug 2024 00:28



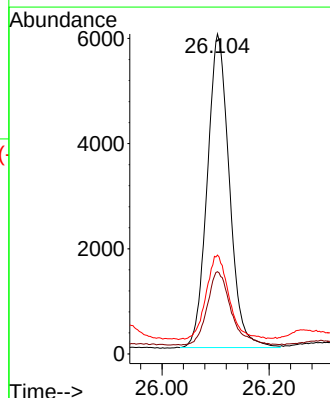
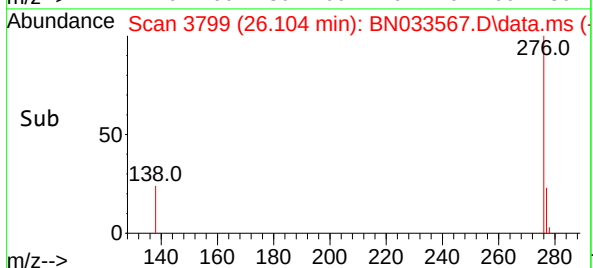
Tgt Ion:276 Resp: 17089

Ion Ratio Lower Upper

276 100

277 25.7 19.7 29.5

138 30.9 21.8 32.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-04	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	56
Sample Wt/Vol:	30.02 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033592.D	1	08/21/24 09:38	08/23/24 16:35	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	8.40		1.20	5.90	ug/Kg
91-57-6	2-Methylnaphthalene	8.60		1.40	5.90	ug/Kg
208-96-8	Acenaphthylene	17.4		1.10	5.90	ug/Kg
83-32-9	Acenaphthene	6.70		0.98	5.90	ug/Kg
86-73-7	Fluorene	7.70		1.10	5.90	ug/Kg
85-01-8	Phenanthrene	110		1.10	5.90	ug/Kg
120-12-7	Anthracene	20.0		1.40	5.90	ug/Kg
206-44-0	Fluoranthene	250		1.20	5.90	ug/Kg
129-00-0	Pyrene	190		1.70	5.90	ug/Kg
56-55-3	Benzo(a)anthracene	110		1.40	5.90	ug/Kg
218-01-9	Chrysene	140		1.50	5.90	ug/Kg
205-99-2	Benzo(b)fluoranthene	180		2.10	5.90	ug/Kg
207-08-9	Benzo(k)fluoranthene	60.7		1.70	5.90	ug/Kg
50-32-8	Benzo(a)pyrene	130		3.00	5.90	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	80.6		2.20	5.90	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	22.9		2.10	5.90	ug/Kg
191-24-2	Benzo(g,h,i)perylene	94.0		2.00	5.90	ug/Kg
123-91-1	1,4-Dioxane	4.00	U	4.00	11.8	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.18		30 (17) - 150 (161)	45%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.15		30 (23) - 150 (138)	37%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		30 (33) - 130 (121)	62%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.17		30 (32) - 130 (121)	43%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.14		30 (21) - 130 (130)	36%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6860		7.545		
1146-65-2	Naphthalene-d8	18100		10.304		
15067-26-2	Acenaphthene-d10	8710		14.178		
1517-22-2	Phenanthrene-d10	17200		16.929		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-04	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	56
Sample Wt/Vol:	30.02 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033592.D	1	08/21/24 09:38	08/23/24 16:35	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	13500	21.139			
1520-96-3	Perylene-d12	15400	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\BN082324\
 Data File : BN033592.D
 Acq On : 23 Aug 2024 16:35
 Operator : MA/JU
 Sample : P3671-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-911-K1-SO-0.5-1-081924

Quant Time: Aug 23 17:00:23 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 00:22:18 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/24/2024
 Supervised By :mohammad ahmed 08/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	6858	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	18127	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	8708	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	17176	0.400	ng	# 0.00
29) Chrysene-d12	21.139	240	13469m	0.400	ng	0.00
35) Perylene-d12	23.309	264	15412	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	3826	0.176	ng	0.00
5) Phenol-d6	6.736	99	4789	0.185	ng	0.00
8) Nitrobenzene-d5	8.681	82	3749	0.249	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	4676	0.180	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	945	0.202	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	6114	0.172	ng	0.00
27) Fluoranthene-d10	18.970	212	6117	0.148	ng	0.00
31) Terphenyl-d14	19.588	244	4375	0.143	ng	0.00
Target Compounds						
9) Naphthalene	10.357	128	6814	0.141	ng	Qvalue 95
12) 2-Methylnaphthalene	11.979	142	4430	0.144	ng	97
16) Acenaphthylene	13.900	152	11201	0.293	ng	98
17) Acenaphthene	14.242	154	3043	0.113	ng	95
18) Fluorene	15.236	166	4381	0.129	ng	89
25) Phenanthrene	16.967	178	90177	1.887	ng	100
26) Anthracene	17.066	178	14247	0.337	ng	# 93
28) Fluoranthene	19.003	202	226121	4.282	ng	100
30) Pyrene	19.365	202	196785	3.273	ng	# 95
32) Benzo(a)anthracene	21.122	228	94067	1.932	ng	96
33) Chrysene	21.175	228	110803	2.289	ng	97
34) Bis(2-ethylhexyl)phtha...	21.086	149	13515m	0.438	ng	
36) Indeno(1,2,3-cd)pyrene	25.461	276	86711	1.355	ng	# 93
37) Benzo(b)fluoranthene	22.666	252	170173	2.957	ng	97
38) Benzo(k)fluoranthene	22.707	252	57866m	1.021	ng	
39) Benzo(a)pyrene	23.215	252	105296	2.211	ng	93
40) Dibenzo(a,h)anthracene	25.469	278	19717	0.385	ng	# 83
41) Benzo(g,h,i)perylene	26.116	276	86506	1.581	ng	99

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

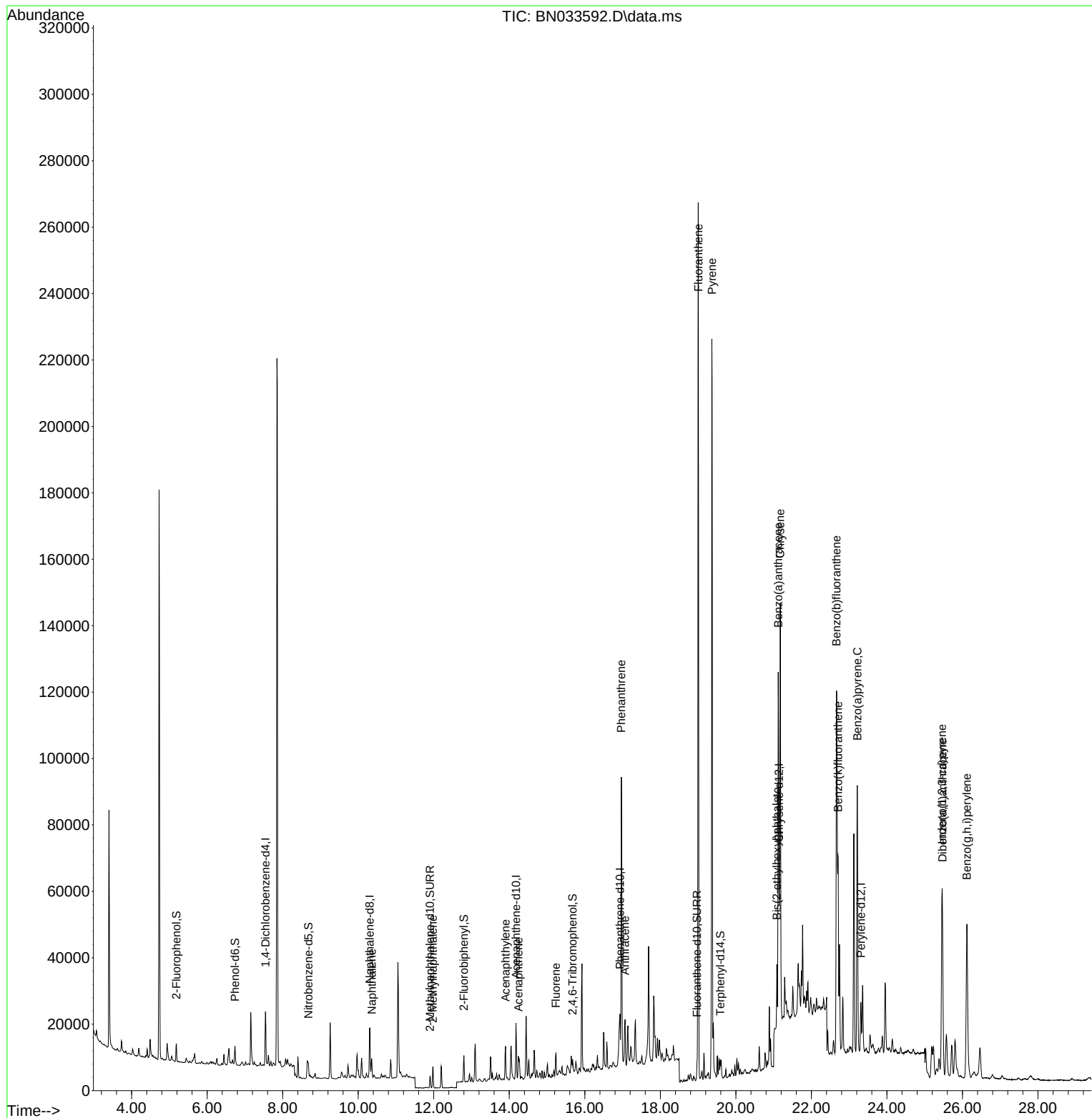
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033592.D
Acq On : 23 Aug 2024 16:35
Operator : MA/JU
Sample : P3671-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

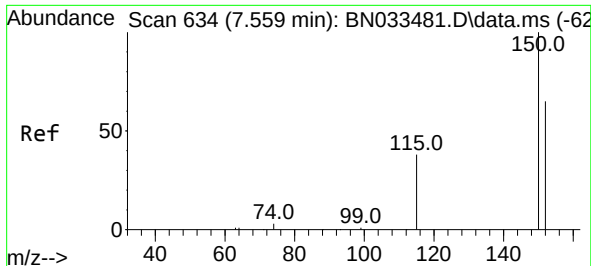
Instrument :
BNA_N
ClientSampleId :
S-911-K1-SO-0.5-1-081924

Quant Time: Aug 23 17:00:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

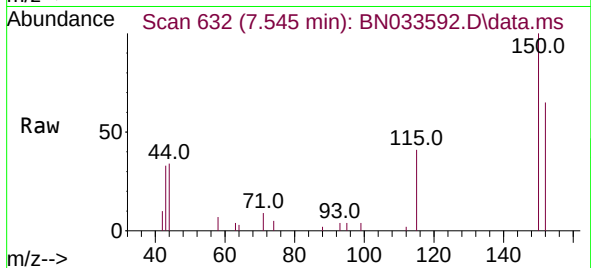
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

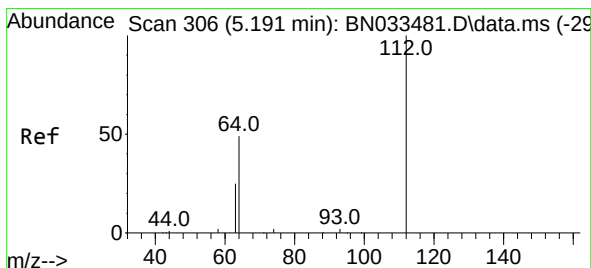
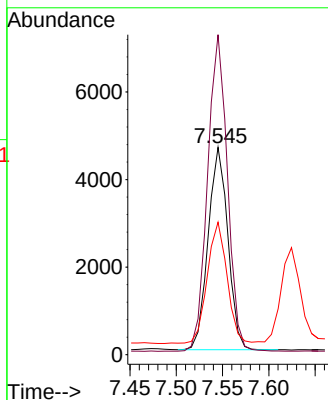
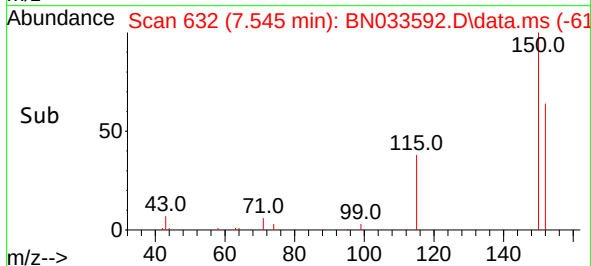
Instrument :
BNA_N
ClientSampleId :
S-911-K1-SO-0.5-1-081924



Tgt Ion:152 Resp: 685
Ion Ratio Lower Upper
152 100
150 154.4 122.2 183.2
115 63.9 47.2 70.8

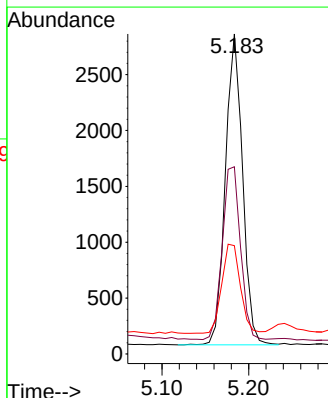
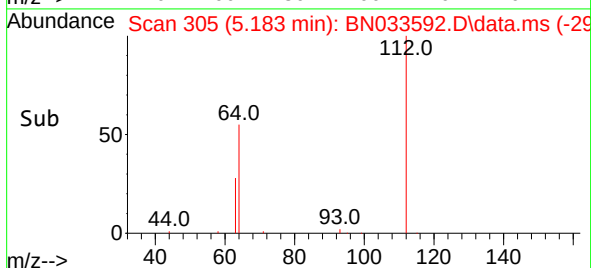
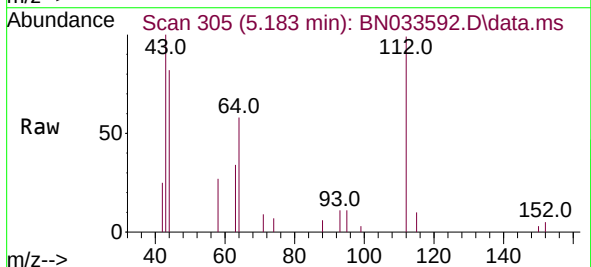
Manual Integrations
APPROVED

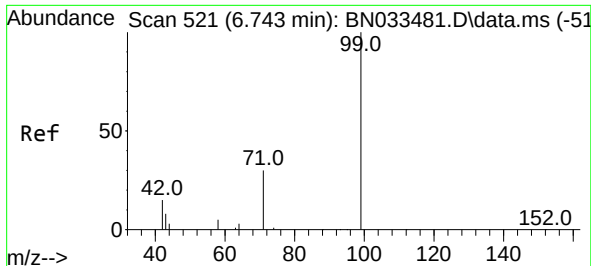
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#4
2-Fluorophenol
Concen: 0.176 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

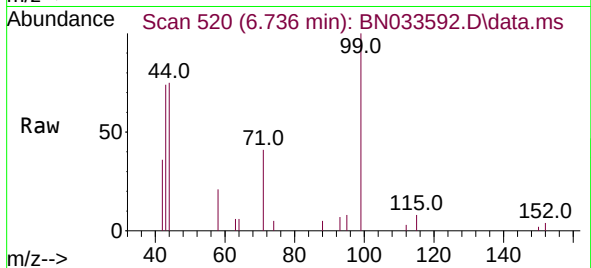
Tgt Ion:112 Resp: 3826
Ion Ratio Lower Upper
112 100
64 58.4 47.1 70.7
63 30.8 24.9 37.3





#5
Phenol-d6
Concen: 0.185 ng
RT: 6.736 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

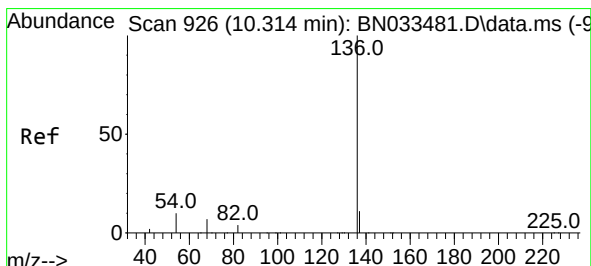
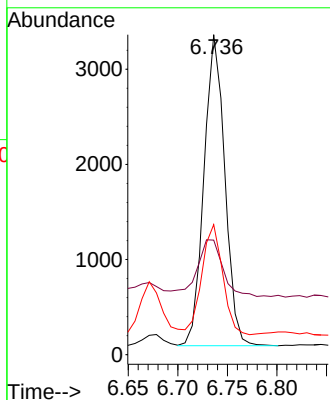
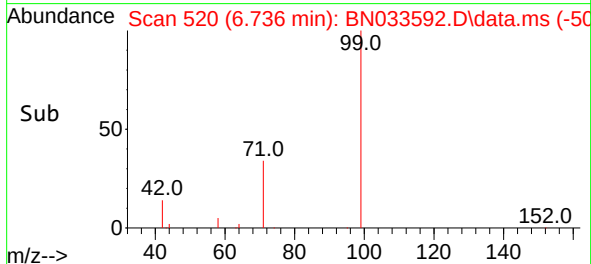
Instrument :
BNA_N
ClientSampleId :
S-911-K1-SO-0.5-1-081924



Tgt Ion: 99 Resp: 4789
Ion Ratio Lower Upper
99 100
42 22.2 16.6 24.8
71 35.3 26.2 39.4

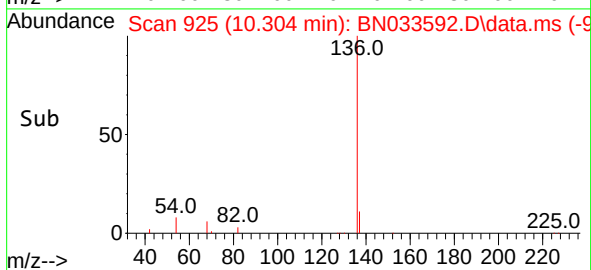
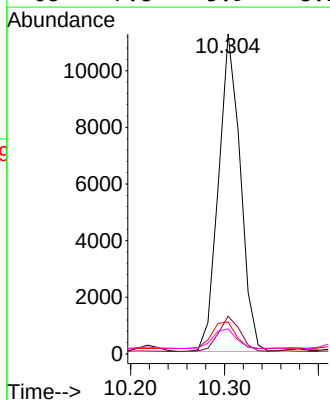
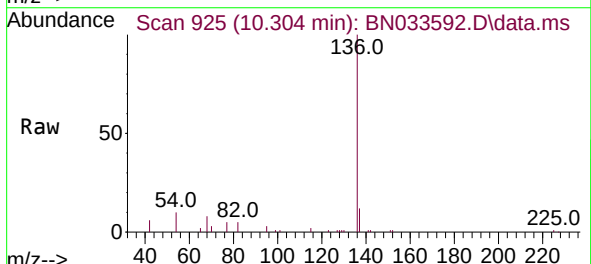
Manual Integrations
APPROVED

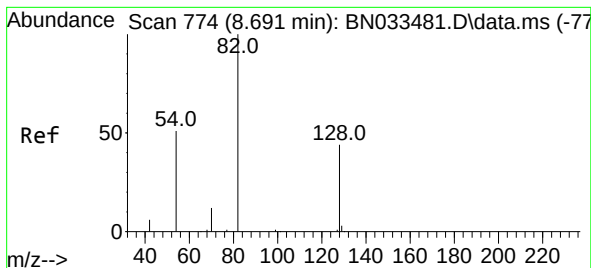
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

Tgt Ion:136 Resp: 18127
Ion Ratio Lower Upper
136 100
137 11.8 9.0 13.6
54 10.0 8.3 12.5
68 7.8 5.9 8.9





#8

Nitrobenzene-d5

Concen: 0.249 ng

RT: 8.681 min Scan# 71

Delta R.T. 0.000 min

Lab File: BN033592.D

Acq: 23 Aug 2024 16:35

Instrument :

BNA_N

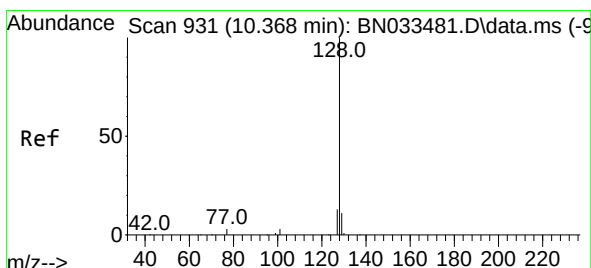
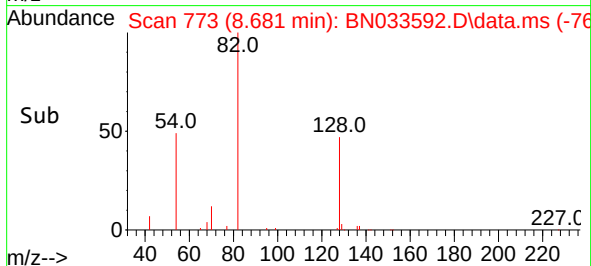
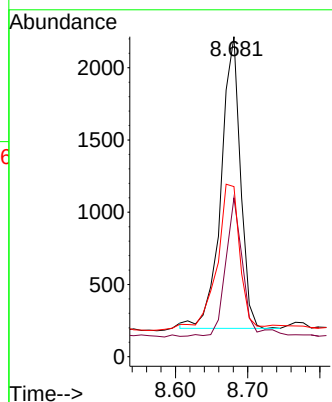
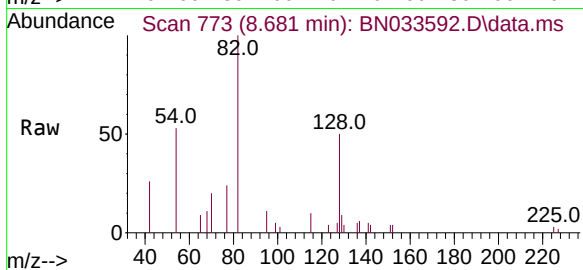
ClientSampleId :

S-911-K1-SO-0.5-1-081924

Tgt Ion:	82	Resp:	3749
Ion	Ratio	Lower	Upper
82	100		
128	49.7	36.0	54.0
54	53.1	42.0	63.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#9

Naphthalene

Concen: 0.141 ng

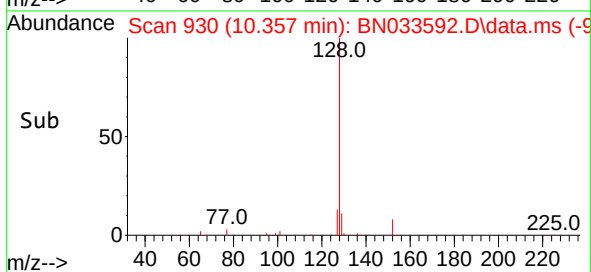
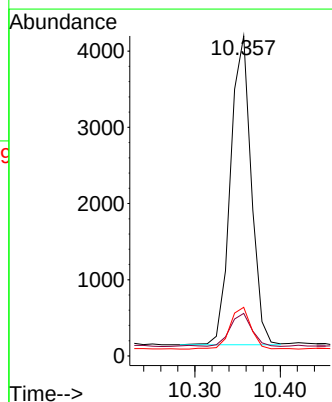
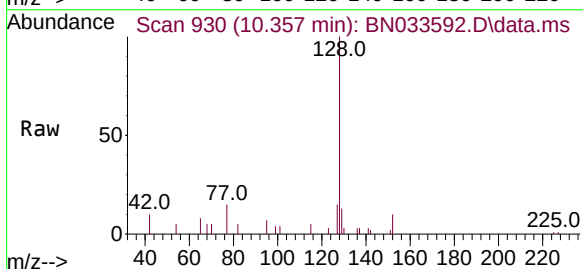
RT: 10.357 min Scan# 930

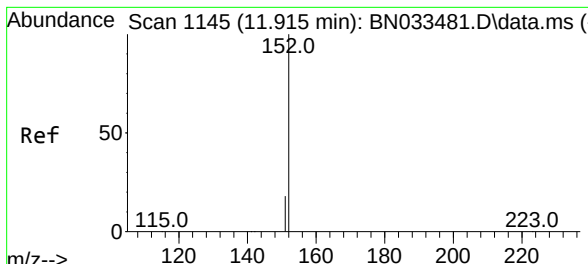
Delta R.T. 0.000 min

Lab File: BN033592.D

Acq: 23 Aug 2024 16:35

Tgt Ion:	128	Resp:	6814
Ion	Ratio	Lower	Upper
128	100		
129	13.3	9.1	13.7
127	15.2	10.7	16.1





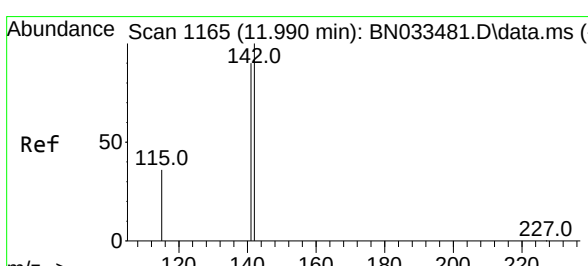
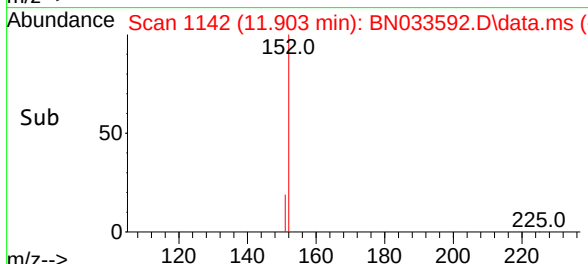
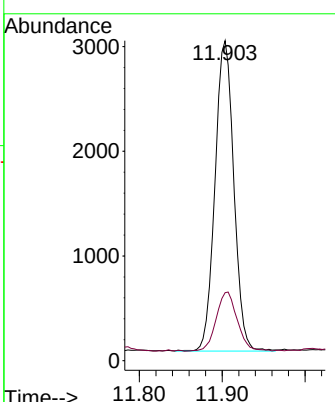
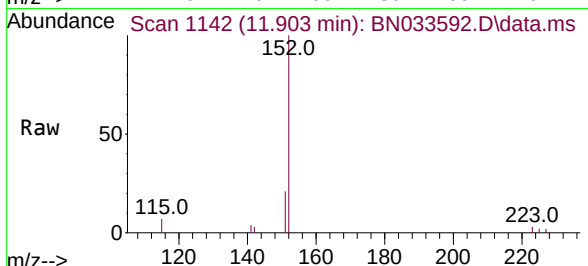
#11
 2-Methylnaphthalene-d10
 Concen: 0.180 ng
 RT: 11.903 min Scan# 1142
 Delta R.T. 0.000 min
 Lab File: BN033592.D
 Acq: 23 Aug 2024 16:35

Instrument : BNA_N
 ClientSampleId : S-911-K1-SO-0.5-1-081924

Tgt Ion:152 Resp: 4670

Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0

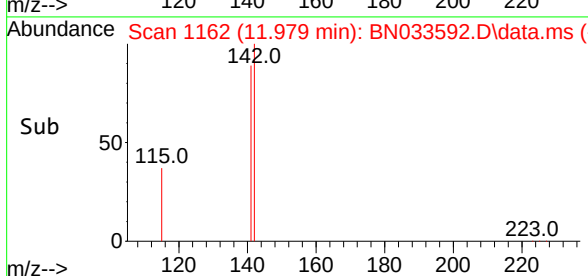
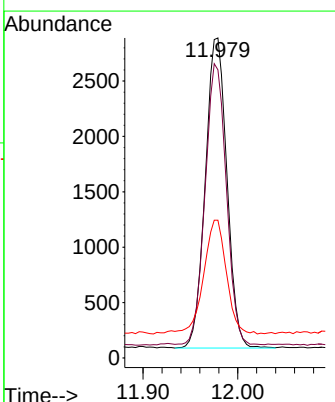
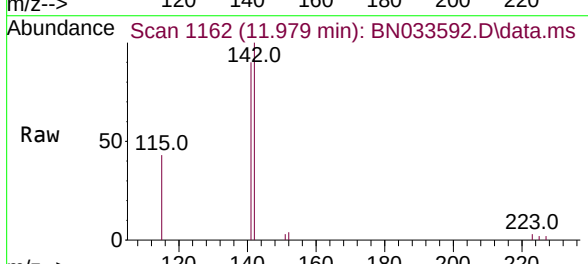
Manual Integrations
APPROVED
 Reviewed By :Yogesh Patel 08/24/2024
 Supervised By :mohammad ahmed 08/29/2024

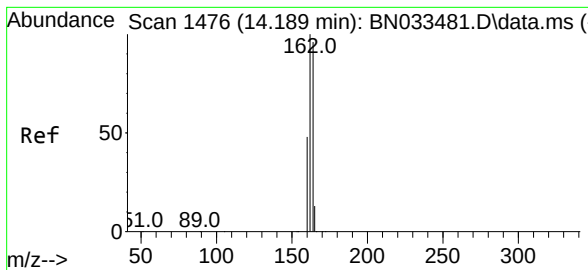


#12
 2-Methylnaphthalene
 Concen: 0.144 ng
 RT: 11.979 min Scan# 1162
 Delta R.T. 0.000 min
 Lab File: BN033592.D
 Acq: 23 Aug 2024 16:35

Tgt Ion:142 Resp: 4430

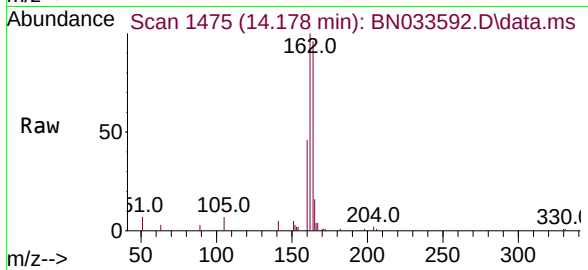
Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.7	107.5
115	43.1	29.4	44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

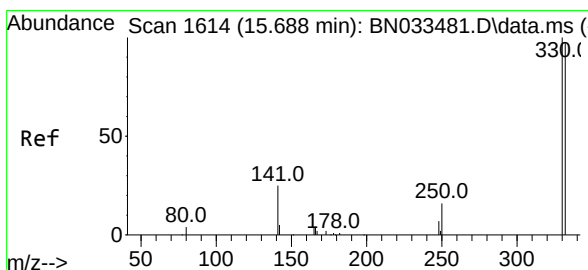
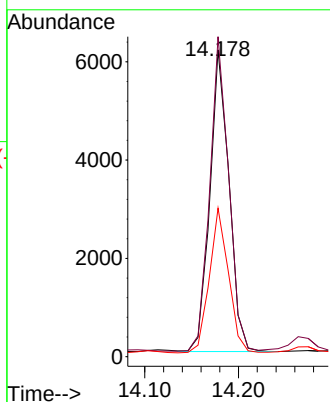
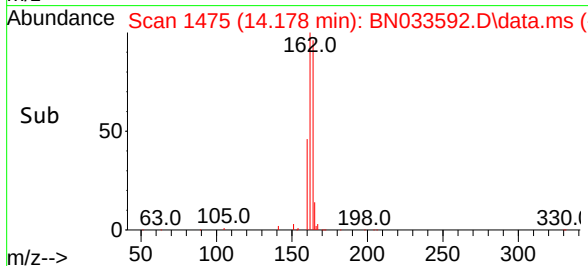
Instrument :
BNA_N
ClientSampleId :
S-911-K1-SO-0.5-1-081924



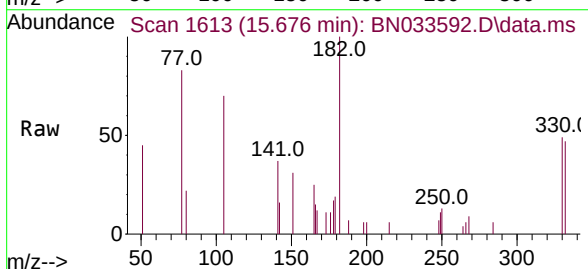
Tgt Ion:164 Resp: 870
Ion Ratio Lower Upper
164 100
162 104.3 83.5 125.3
160 48.4 40.2 60.4

Manual Integrations
APPROVED

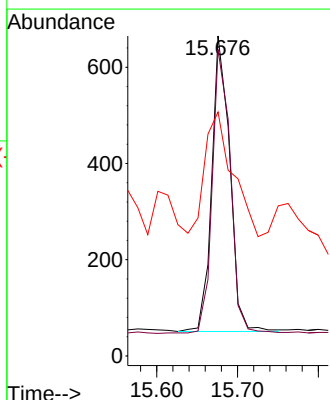
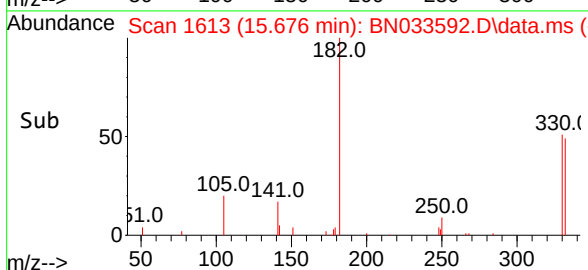
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

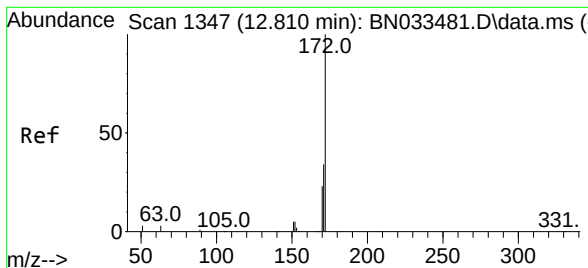


#14
2,4,6-Tribromophenol
Concen: 0.202 ng
RT: 15.676 min Scan# 1613
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35



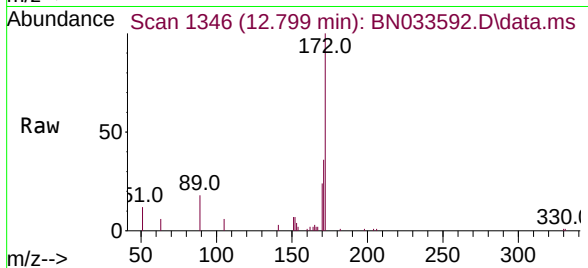
Tgt Ion:330 Resp: 945
Ion Ratio Lower Upper
330 100
332 97.4 77.5 116.3
141 65.1 33.9 50.9#





#15
2-Fluorobiphenyl
Concen: 0.172 ng
RT: 12.799 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

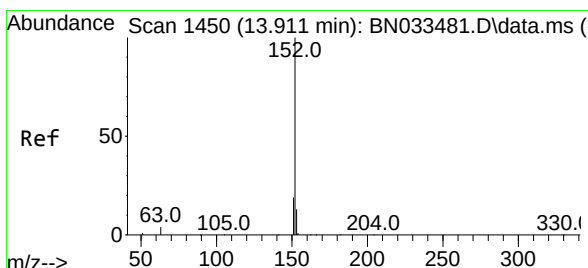
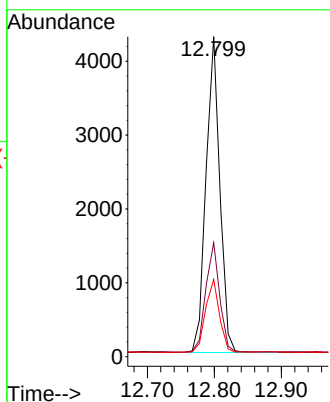
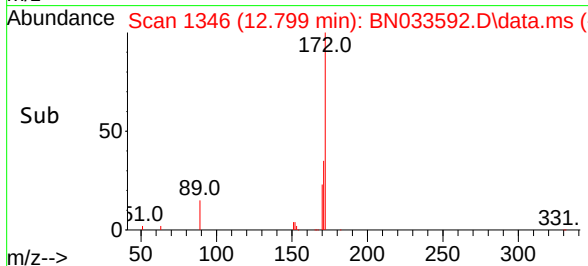
Instrument :
BNA_N
ClientSampleId :
S-911-K1-SO-0.5-1-081924



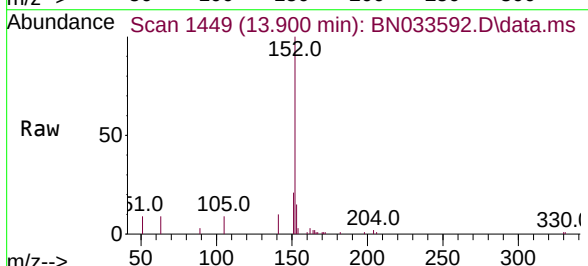
Tgt Ion:172 Resp: 6114
Ion Ratio Lower Upper
172 100
171 35.7 27.7 41.5
170 24.1 18.3 27.5

Manual Integrations
APPROVED

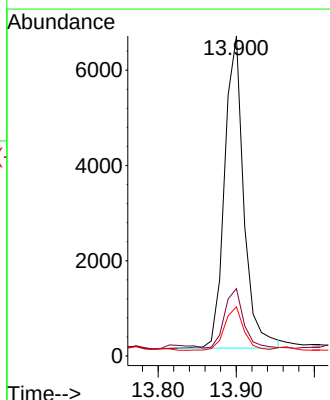
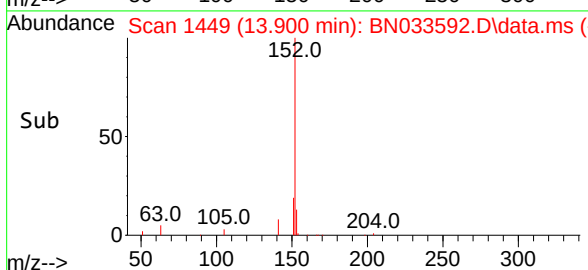
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

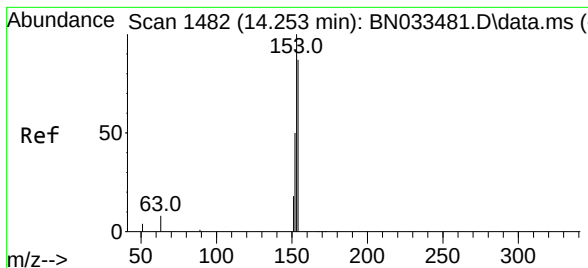


#16
Acenaphthylene
Concen: 0.293 ng
RT: 13.900 min Scan# 1449
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35



Tgt Ion:152 Resp: 11201
Ion Ratio Lower Upper
152 100
151 18.8 15.7 23.5
153 14.1 10.3 15.5





#17

Acenaphthene

Concen: 0.113 ng

RT: 14.242 min Scan# 1481

Delta R.T. 0.000 min

Lab File: BN033592.D

Acq: 23 Aug 2024 16:35

Instrument :

BNA_N

ClientSampleId :

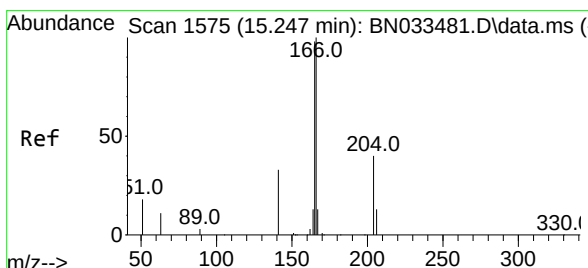
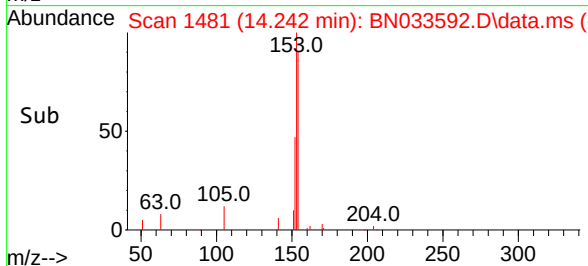
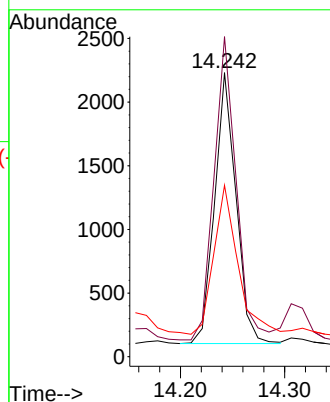
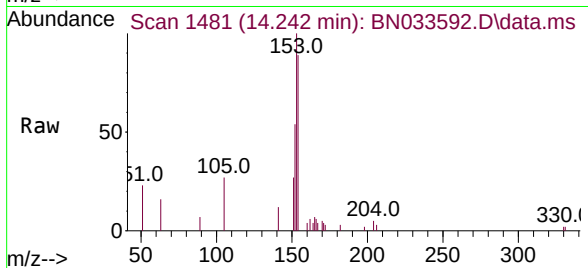
S-911-K1-SO-0.5-1-081924

Tgt Ion:	154	Resp:	304
Ion Ratio	Lower	Upper	
154	100		
153	115.1	89.0	133.6
152	61.5	45.2	67.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#18

Fluorene

Concen: 0.129 ng

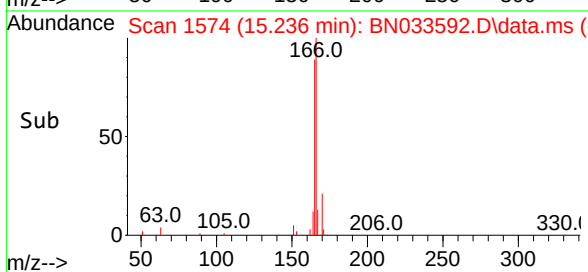
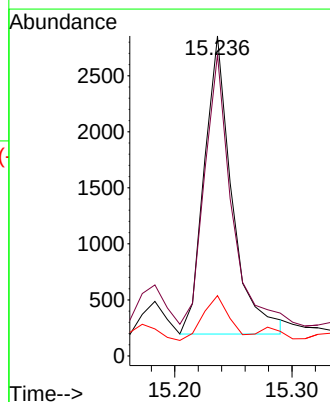
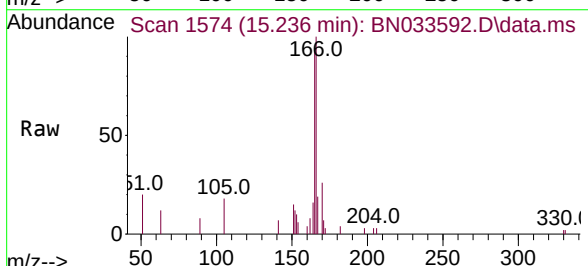
RT: 15.236 min Scan# 1574

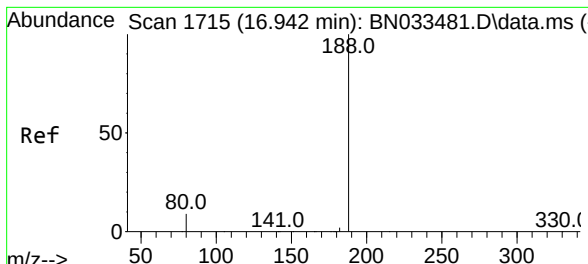
Delta R.T. 0.000 min

Lab File: BN033592.D

Acq: 23 Aug 2024 16:35

Tgt Ion:	166	Resp:	4381
Ion Ratio	Lower	Upper	
166	100		
165	86.0	78.2	117.4
167	15.1	10.6	16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

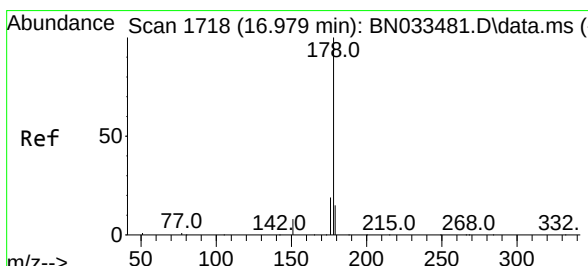
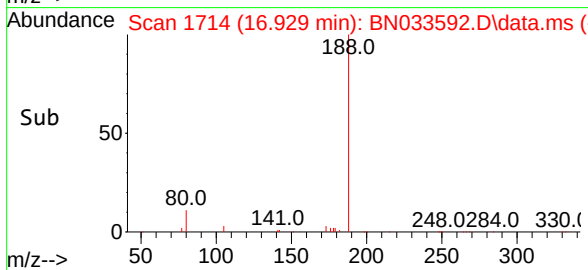
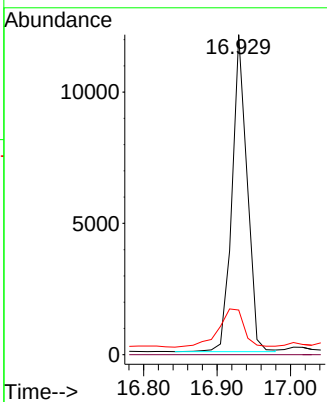
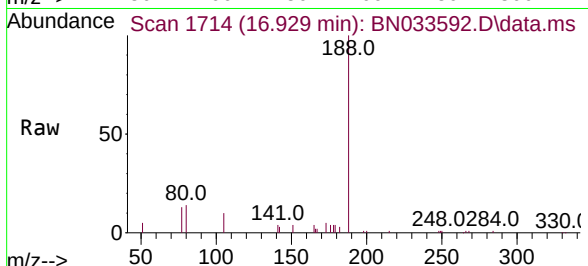
Instrument : BNA_N
ClientSampleId : S-911-K1-SO-0.5-1-081924

Tgt Ion:188 Resp: 17170

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.0	7.8	11.8

Manual Integrations
APPROVED

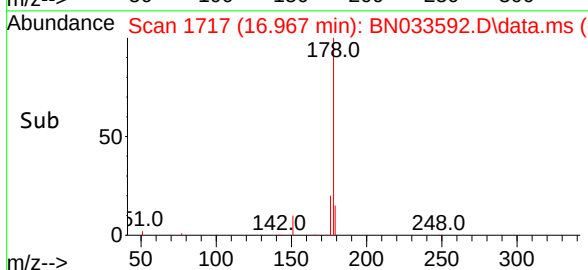
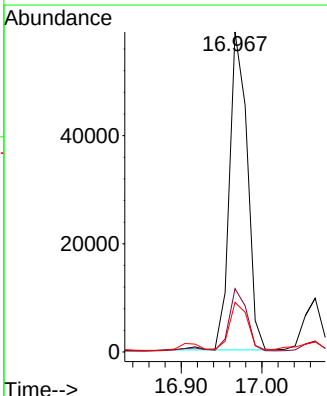
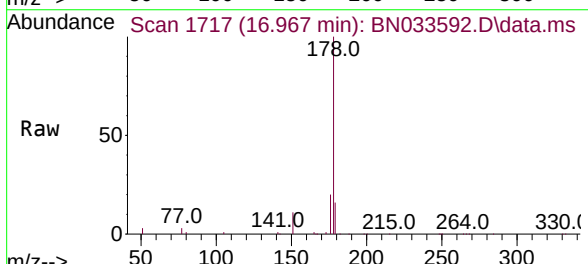
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

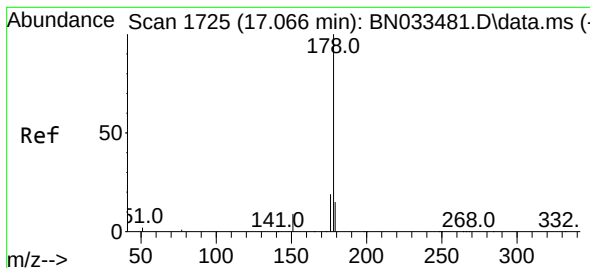


#25
Phenanthrene
Concen: 1.887 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

Tgt Ion:178 Resp: 90177

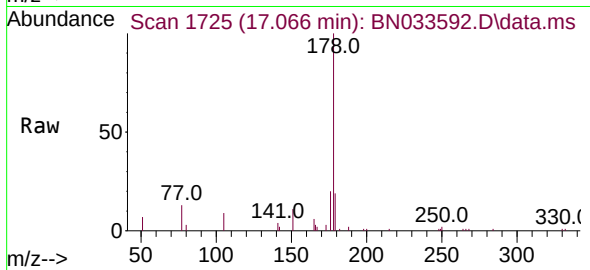
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.0	12.3	18.5





#26
 Anthracene
 Concen: 0.337 ng
 RT: 17.066 min Scan# 1725
 Delta R.T. 0.000 min
 Lab File: BN033592.D
 Acq: 23 Aug 2024 16:35

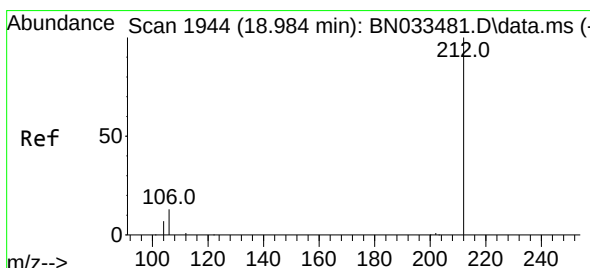
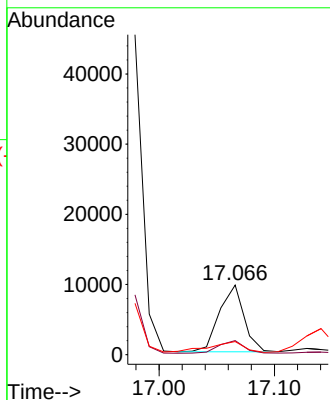
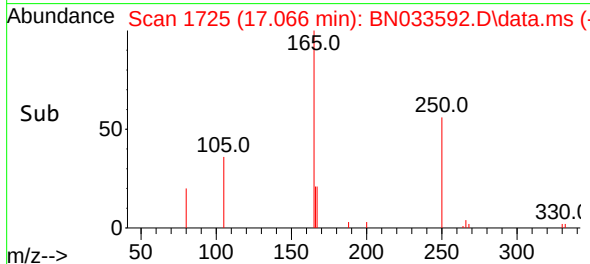
Instrument :
 BNA_N
 ClientSampleId :
 S-911-K1-SO-0.5-1-081924



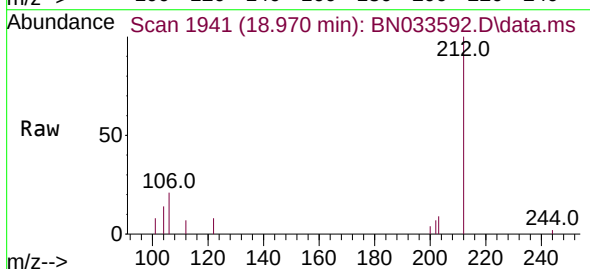
Tgt Ion:178 Resp: 1424
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.0 22.6
 179 21.2 12.4 18.6

Manual Integrations
 APPROVED

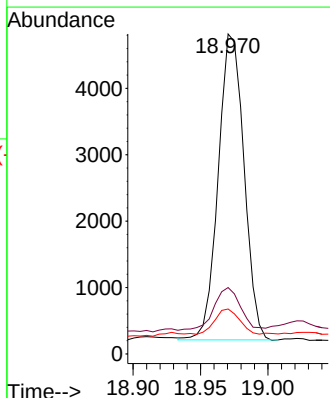
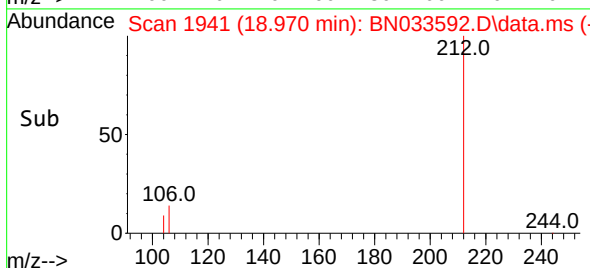
Reviewed By :Yogesh Patel 08/24/2024
 Supervised By :mohammad ahmed 08/29/2024

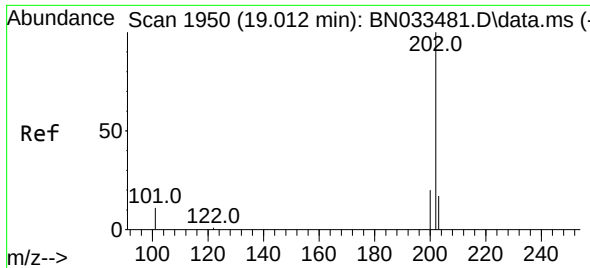


#27
 Fluoranthene-d10
 Concen: 0.148 ng
 RT: 18.970 min Scan# 1941
 Delta R.T. 0.000 min
 Lab File: BN033592.D
 Acq: 23 Aug 2024 16:35



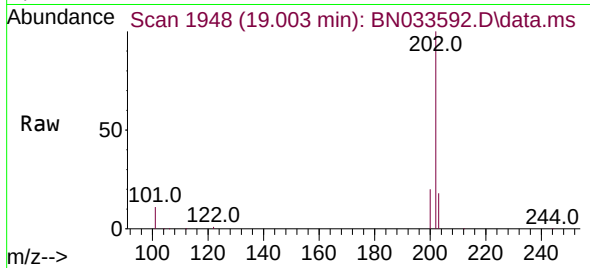
Tgt Ion:212 Resp: 6117
 Ion Ratio Lower Upper
 212 100
 106 14.6 12.3 18.5
 104 8.4 7.0 10.4





#28
Fluoranthene
Concen: 4.282 ng
RT: 19.003 min Scan# 1950
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

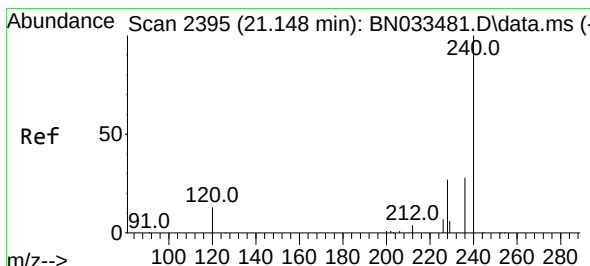
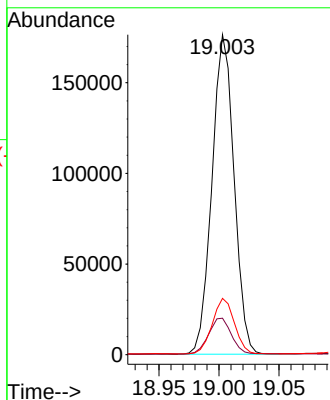
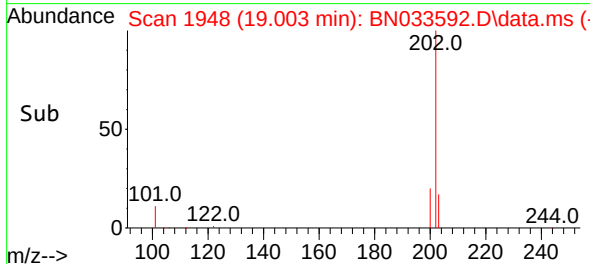
Instrument :
BNA_N
ClientSampleId :
S-911-K1-SO-0.5-1-081924



Tgt Ion:202 Resp: 22612
Ion Ratio Lower Upper
202 100
101 11.7 9.5 14.3
203 17.3 13.8 20.6

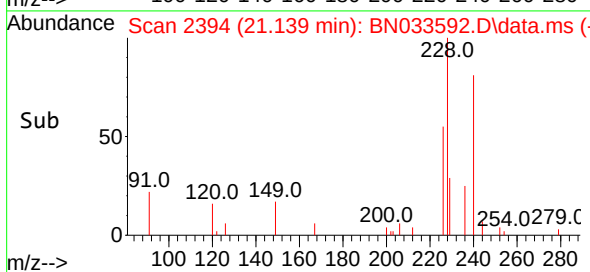
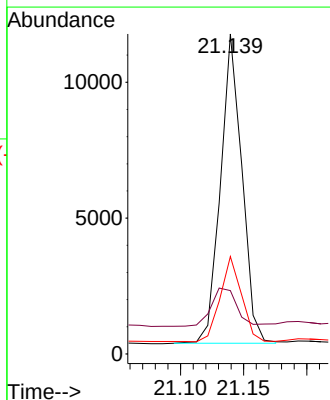
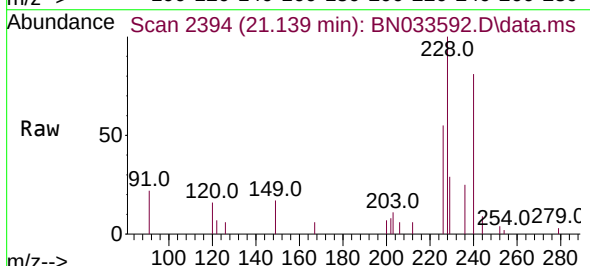
Manual Integrations
APPROVED

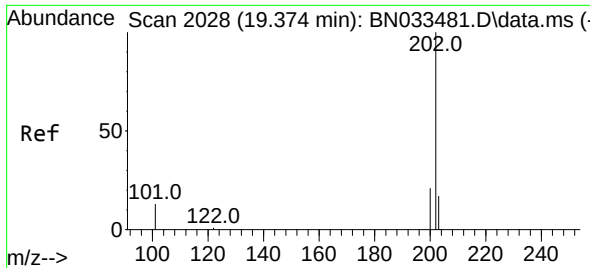
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#29
Chrysene-d12
Concen: 0.400 ng m
RT: 21.139 min Scan# 2394
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

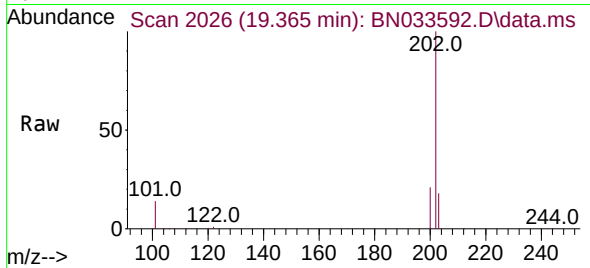
Tgt Ion:240 Resp: 13469
Ion Ratio Lower Upper
240 100
120 19.8 12.4 18.6#
236 30.4 23.0 34.6





#30
 Pyrene
 Concen: 3.273 ng
 RT: 19.365 min Scan# 2026
 Delta R.T. 0.000 min
 Lab File: BN033592.D
 Acq: 23 Aug 2024 16:35

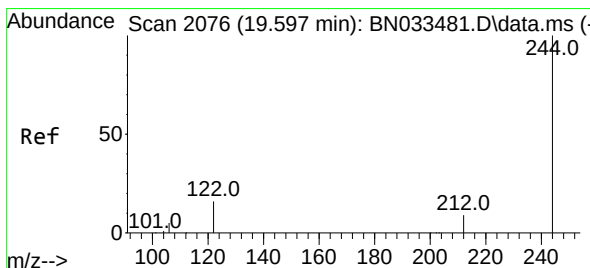
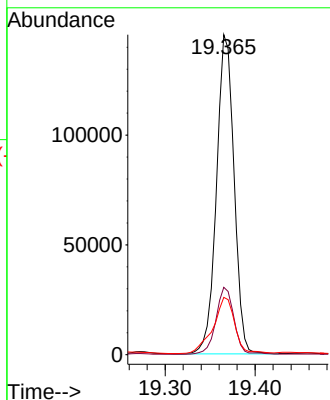
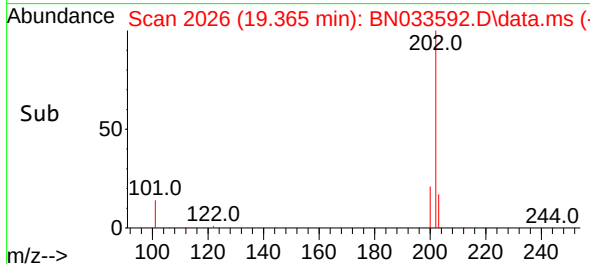
Instrument :
 BNA_N
 ClientSampleId :
 S-911-K1-SO-0.5-1-081924



Tgt Ion:202 Resp: 196785
 Ion Ratio Lower Upper
 202 100
 200 21.4 16.6 24.8
 203 21.6 14.2 21.4

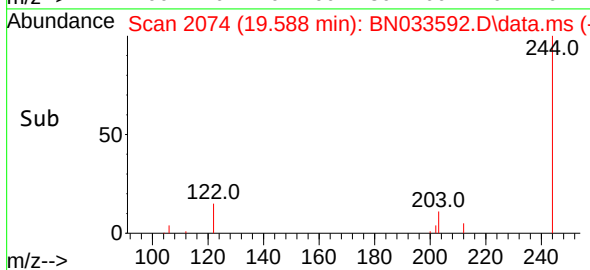
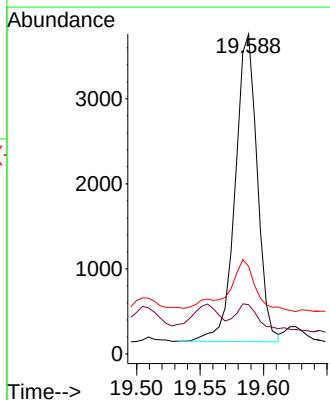
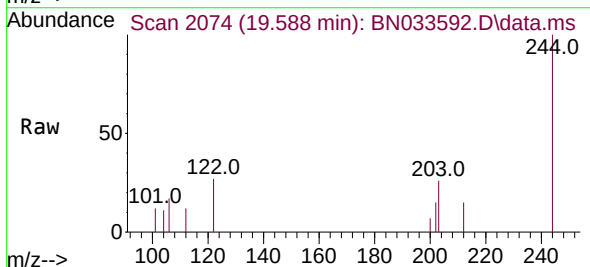
Manual Integrations
 APPROVED

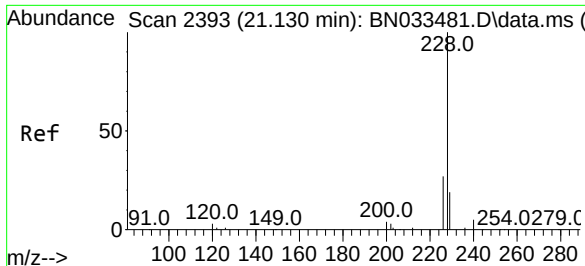
Reviewed By :Yogesh Patel 08/24/2024
 Supervised By :mohammad ahmed 08/29/2024



#31
 Terphenyl-d14
 Concen: 0.143 ng
 RT: 19.588 min Scan# 2074
 Delta R.T. 0.005 min
 Lab File: BN033592.D
 Acq: 23 Aug 2024 16:35

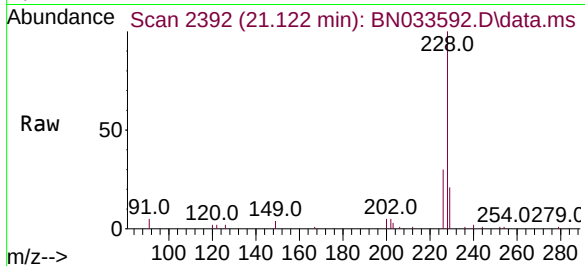
Tgt Ion:244 Resp: 4375
 Ion Ratio Lower Upper
 244 100
 212 15.4 7.8 11.6#
 122 27.4 13.3 19.9#





#32
Benzo(a)anthracene
Concen: 1.932 ng
RT: 21.122 min Scan# 21122
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

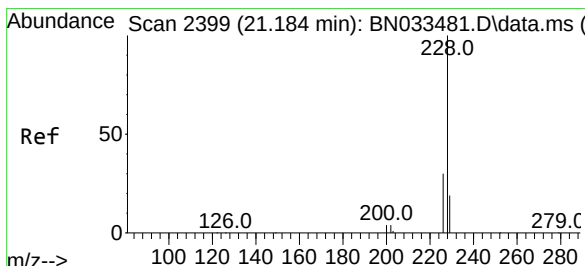
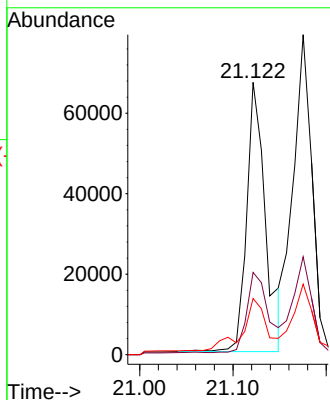
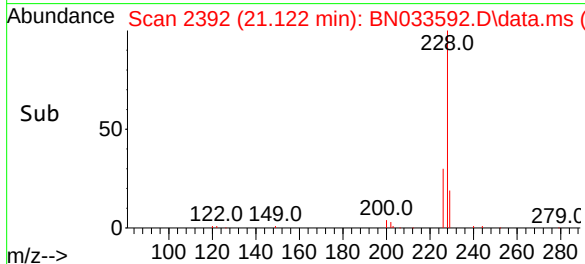
Instrument :
BNA_N
ClientSampleId :
S-911-K1-SO-0.5-1-081924



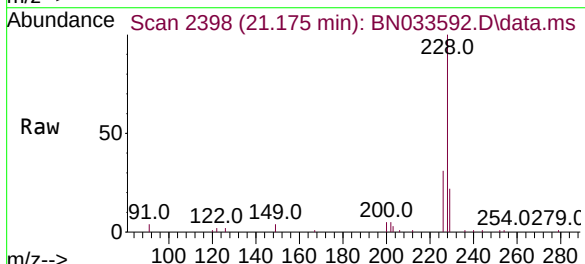
Tgt Ion:228 Resp: 9406
Ion Ratio Lower Upper
228 100
226 30.2 21.8 32.6
229 20.6 15.8 23.6

Manual Integrations
APPROVED

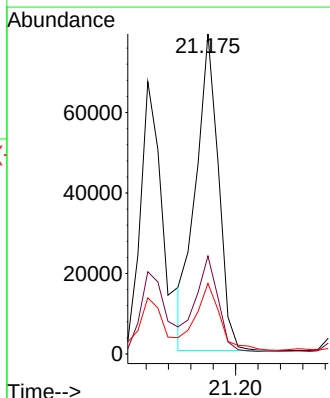
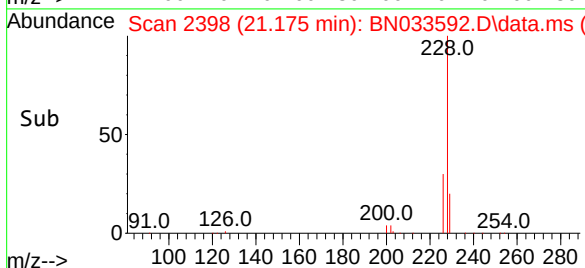
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

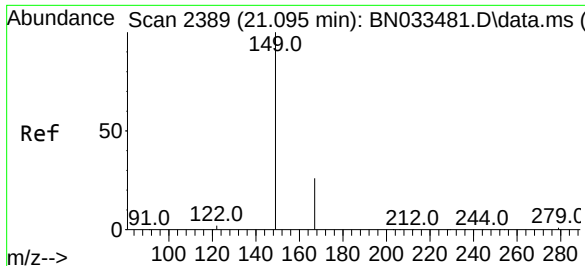


#33
Chrysene
Concen: 2.289 ng
RT: 21.175 min Scan# 2398
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35



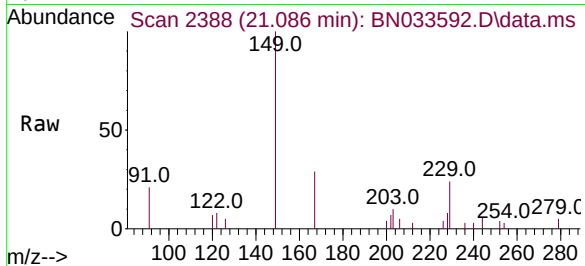
Tgt Ion:228 Resp: 110803
Ion Ratio Lower Upper
228 100
226 30.6 23.8 35.8
229 22.1 15.6 23.4





#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.438 ng m
 RT: 21.086 min Scan# 2108
 Delta R.T. 0.000 min
 Lab File: BN033592.D
 Acq: 23 Aug 2024 16:35

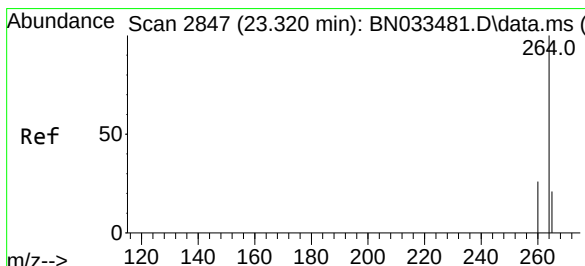
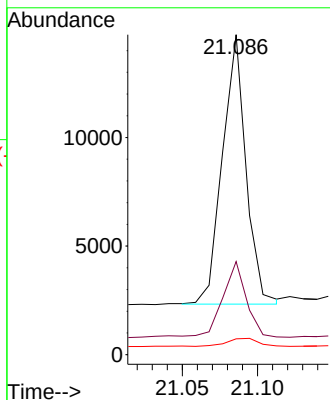
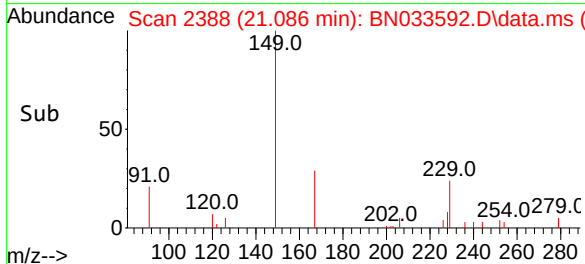
Instrument :
 BNA_N
 ClientSampleId :
 S-911-K1-SO-0.5-1-081924



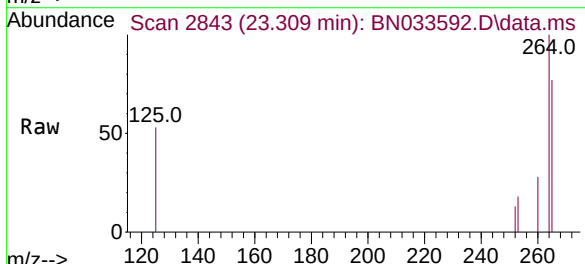
Tgt Ion:149 Resp: 1351
 Ion Ratio Lower Upper
 149 100
 167 70.5 21.5 32.3
 279 24.3 2.2 3.2

Manual Integrations
 APPROVED

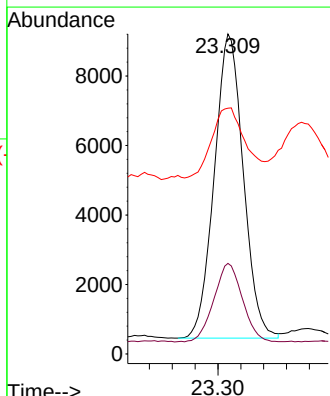
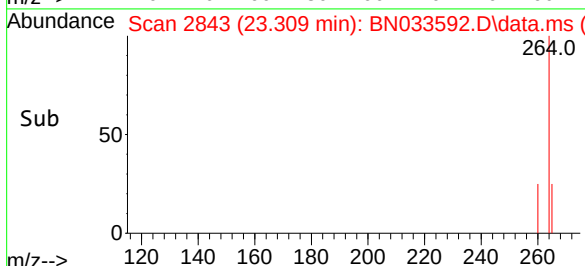
Reviewed By :Yogesh Patel 08/24/2024
 Supervised By :mohammad ahmed 08/29/2024

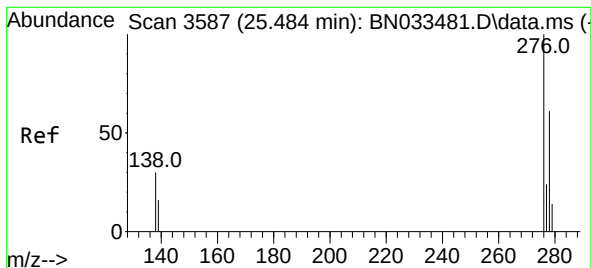


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.309 min Scan# 2843
 Delta R.T. 0.006 min
 Lab File: BN033592.D
 Acq: 23 Aug 2024 16:35



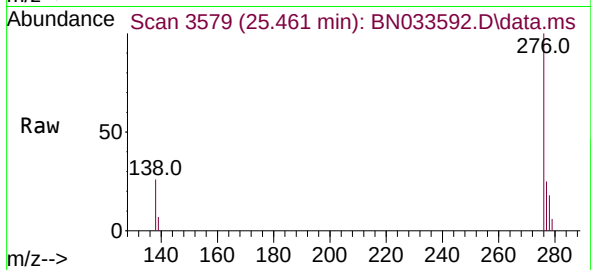
Tgt Ion:264 Resp: 15412
 Ion Ratio Lower Upper
 264 100
 260 28.3 20.8 31.2
 265 76.8 52.2 78.2





#36
Indeno(1,2,3-cd)pyrene
Concen: 1.355 ng
RT: 25.461 min Scan# 3579
Delta R.T. 0.012 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

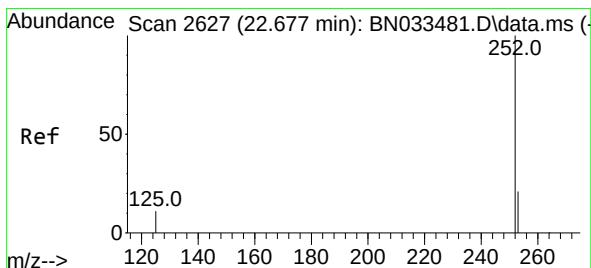
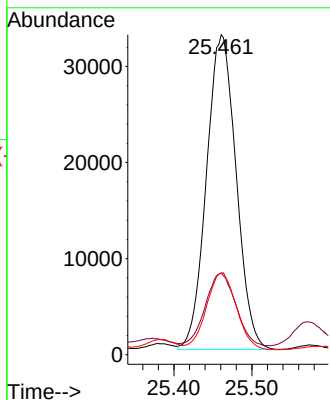
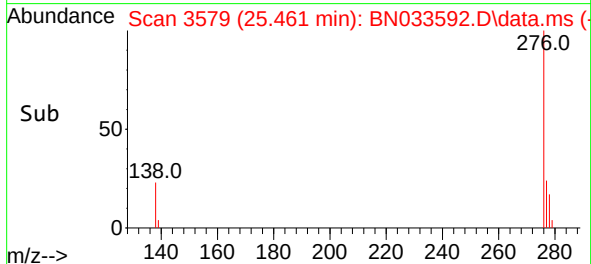
Instrument :
BNA_N
ClientSampleId :
S-911-K1-SO-0.5-1-081924



Tgt Ion:276 Resp: 8671
Ion Ratio Lower Upper
276 100
138 23.4 24.4 36.6
277 24.7 19.8 29.6

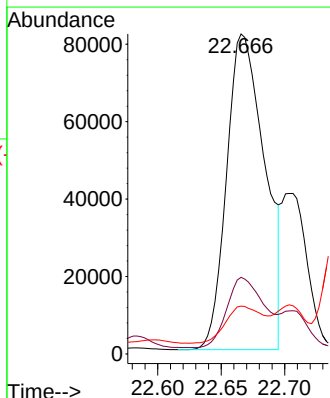
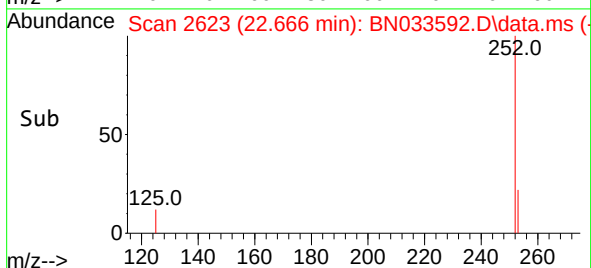
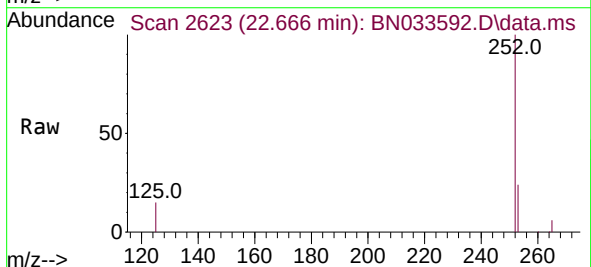
Manual Integrations
APPROVED

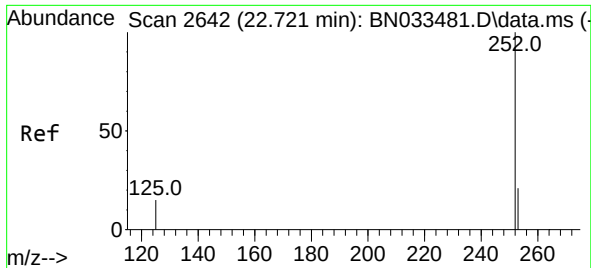
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#37
Benzo(b)fluoranthene
Concen: 2.957 ng
RT: 22.666 min Scan# 2623
Delta R.T. 0.006 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

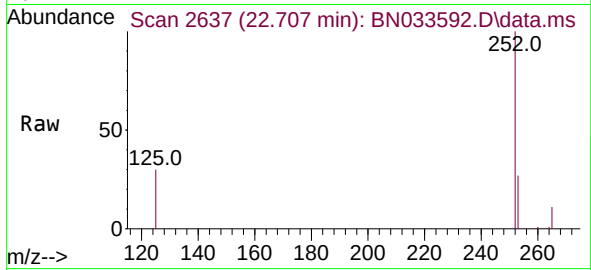
Tgt Ion:252 Resp: 170173
Ion Ratio Lower Upper
252 100
253 23.9 19.8 29.8
125 14.9 13.9 20.9





#38
Benzo(k)fluoranthene
Concen: 1.021 ng m
RT: 22.707 min Scan# 2637
Delta R.T. 0.003 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

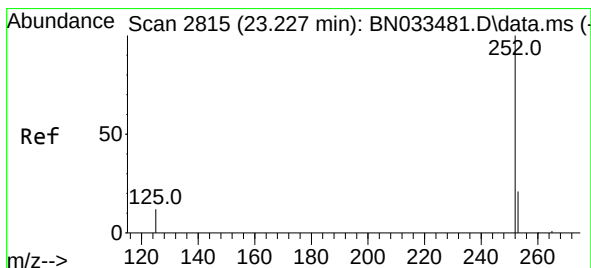
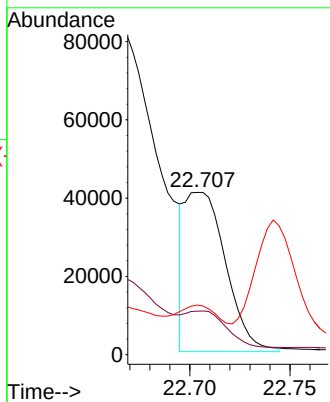
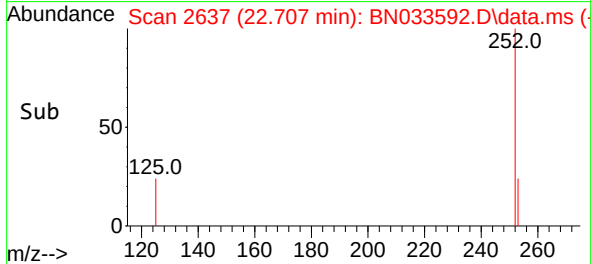
Instrument :
BNA_N
ClientSampleId :
S-911-K1-SO-0.5-1-081924



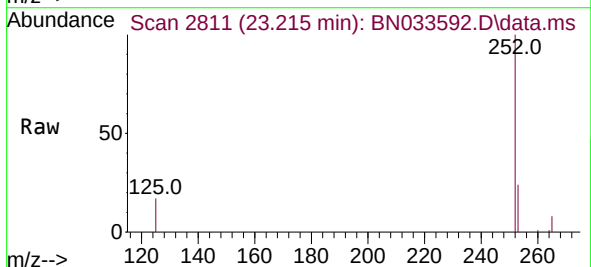
Tgt Ion:252 Resp: 57860
Ion Ratio Lower Upper
252 100
253 26.9 19.8 29.8
125 30.0 15.8 23.8

Manual Integrations
APPROVED

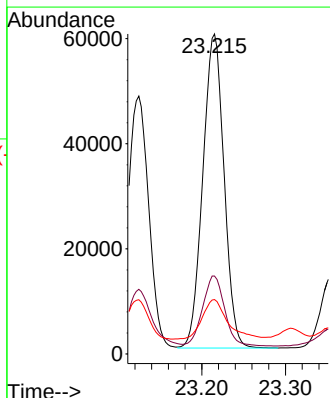
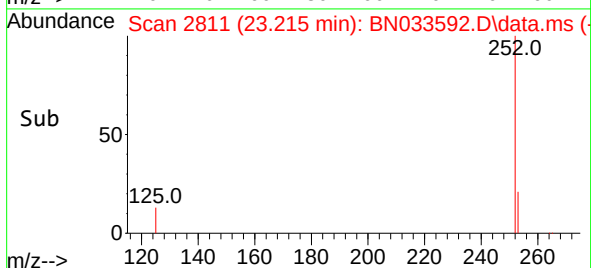
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

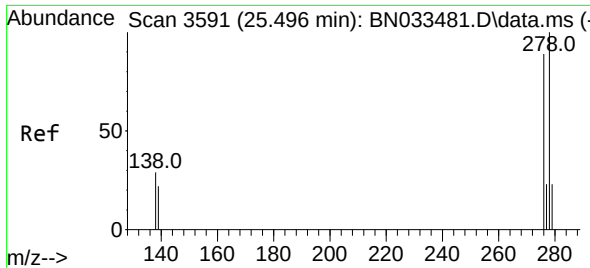


#39
Benzo(a)pyrene
Concen: 2.211 ng
RT: 23.215 min Scan# 2811
Delta R.T. 0.006 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35



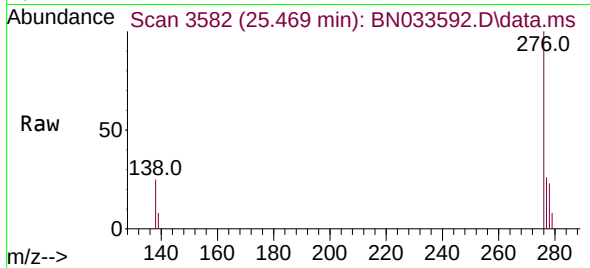
Tgt Ion:252 Resp: 105296
Ion Ratio Lower Upper
252 100
253 24.4 21.5 32.3
125 17.0 17.0 25.4





#40
Dibenzo(a,h)anthracene
Concen: 0.385 ng
RT: 25.469 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

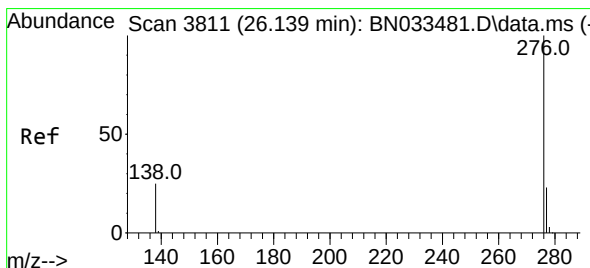
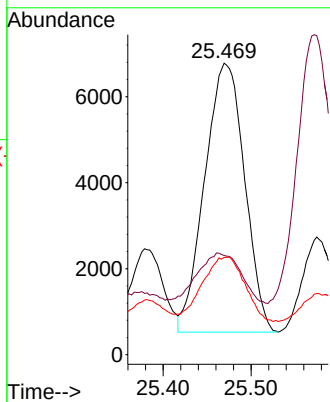
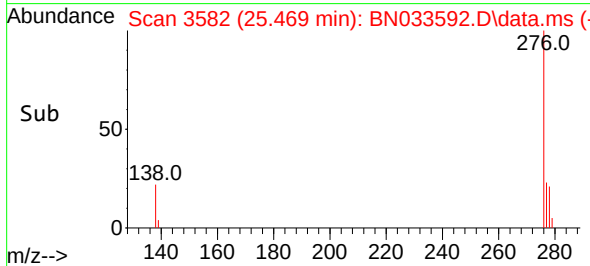
Instrument :
BNA_N
ClientSampleId :
S-911-K1-SO-0.5-1-081924



Tgt Ion:278 Resp: 1971
Ion Ratio Lower Upper
278 100
139 34.0 19.1 28.7
279 33.4 21.0 31.4

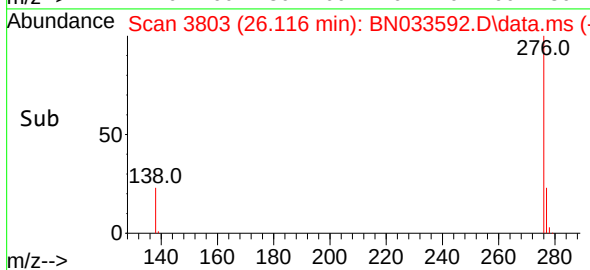
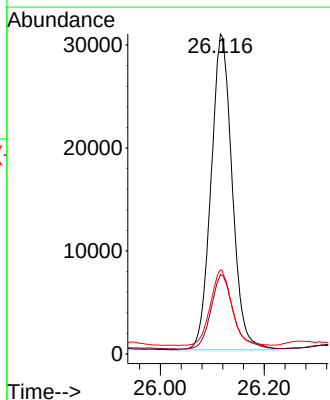
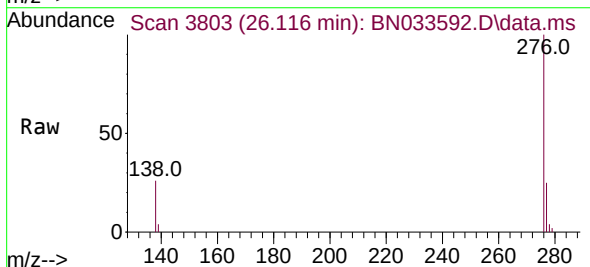
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#41
Benzo(g,h,i)perylene
Concen: 1.581 ng
RT: 26.116 min Scan# 3803
Delta R.T. 0.012 min
Lab File: BN033592.D
Acq: 23 Aug 2024 16:35

Tgt Ion:276 Resp: 86506
Ion Ratio Lower Upper
276 100
277 24.8 19.7 29.5
138 26.2 21.8 32.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-05	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	35
Sample Wt/Vol:	30.05 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033591.D	1	08/21/24 09:38	08/23/24 15:59	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	16.4		2.00	9.40	ug/Kg
91-57-6	2-Methylnaphthalene	19.5		2.30	9.40	ug/Kg
208-96-8	Acenaphthylene	32.7		1.80	9.40	ug/Kg
83-32-9	Acenaphthene	10.7		1.60	9.40	ug/Kg
86-73-7	Fluorene	14.2		1.70	9.40	ug/Kg
85-01-8	Phenanthrene	190		1.80	9.40	ug/Kg
120-12-7	Anthracene	34.3		2.30	9.40	ug/Kg
206-44-0	Fluoranthene	440		1.90	9.40	ug/Kg
129-00-0	Pyrene	320		2.70	9.40	ug/Kg
56-55-3	Benzo(a)anthracene	190		2.20	9.40	ug/Kg
218-01-9	Chrysene	230		2.50	9.40	ug/Kg
205-99-2	Benzo(b)fluoranthene	290		3.40	9.40	ug/Kg
207-08-9	Benzo(k)fluoranthene	100		2.80	9.40	ug/Kg
50-32-8	Benzo(a)pyrene	220		4.70	9.40	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	130		3.60	9.40	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	38.3		3.30	9.40	ug/Kg
191-24-2	Benzo(g,h,i)perylene	160		3.30	9.40	ug/Kg
123-91-1	1,4-Dioxane	6.30	U	6.30	18.8	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.41		30 (17) - 150 (161)	103%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 (23) - 150 (138)	98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.47		30 (33) - 130 (121)	116%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		30 (32) - 130 (121)	93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		30 (21) - 130 (130)	90%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6470		7.545		
1146-65-2	Naphthalene-d8	18300		10.304		
15067-26-2	Acenaphthene-d10	9780		14.178		
1517-22-2	Phenanthrene-d10	20600		16.929		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-05	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	35
Sample Wt/Vol:	30.05 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033591.D	1	08/21/24 09:38	08/23/24 15:59	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	16800	21.139			
1520-96-3	Perylene-d12	18800	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\BN082324\
Data File : BN033591.D
Acq On : 23 Aug 2024 15:59
Operator : MA/JU
Sample : P3671-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD

Quant Time: Aug 23 16:53:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	6471	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	18310	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	9783	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	20641	0.400	ng	# 0.00
29) Chrysene-d12	21.139	240	16828	0.400	ng	# 0.00
35) Perylene-d12	23.309	264	18757	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	7252	0.353	ng	0.00
5) Phenol-d6	6.736	99	9414	0.385	ng	0.00
8) Nitrobenzene-d5	8.681	82	7067	0.465	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	10856	0.414	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	2643	0.503	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	14785	0.370	ng	0.00
27) Fluoranthene-d10	18.975	212	19419	0.391	ng	0.00
31) Terphenyl-d14	19.584	244	13742	0.359	ng	0.00
Target Compounds						
9) Naphthalene	10.357	128	8486	0.173	ng	Qvalue 96
12) 2-Methylnaphthalene	11.975	142	6355	0.205	ng	98
16) Acenaphthylene	13.900	152	14776	0.344	ng	97
17) Acenaphthene	14.242	154	3411	0.113	ng	95
18) Fluorene	15.236	166	5677	0.149	ng	# 87
25) Phenanthrene	16.967	178	114072	1.987	ng	99
26) Anthracene	17.066	178	18335	0.361	ng	# 93
28) Fluoranthene	19.003	202	293678	4.628	ng	100
30) Pyrene	19.365	202	255373	3.400	ng	# 96
32) Benzo(a)anthracene	21.121	228	119594	1.966	ng	95
33) Chrysene	21.175	228	143608	2.375	ng	97
34) Bis(2-ethylhexyl)phtha...	21.086	149	15136m	0.393	ng	
36) Indeno(1,2,3-cd)pyrene	25.461	276	110265	1.416	ng	# 93
37) Benzo(b)fluoranthene	22.668	252	214874	3.068	ng	96
38) Benzo(k)fluoranthene	22.706	252	72890m	1.057	ng	
39) Benzo(a)pyrene	23.212	252	134904m	2.328	ng	
40) Dibenzo(a,h)anthracene	25.475	278	25089	0.403	ng	# 86
41) Benzo(g,h,i)perylene	26.118	276	110193	1.655	ng	99

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

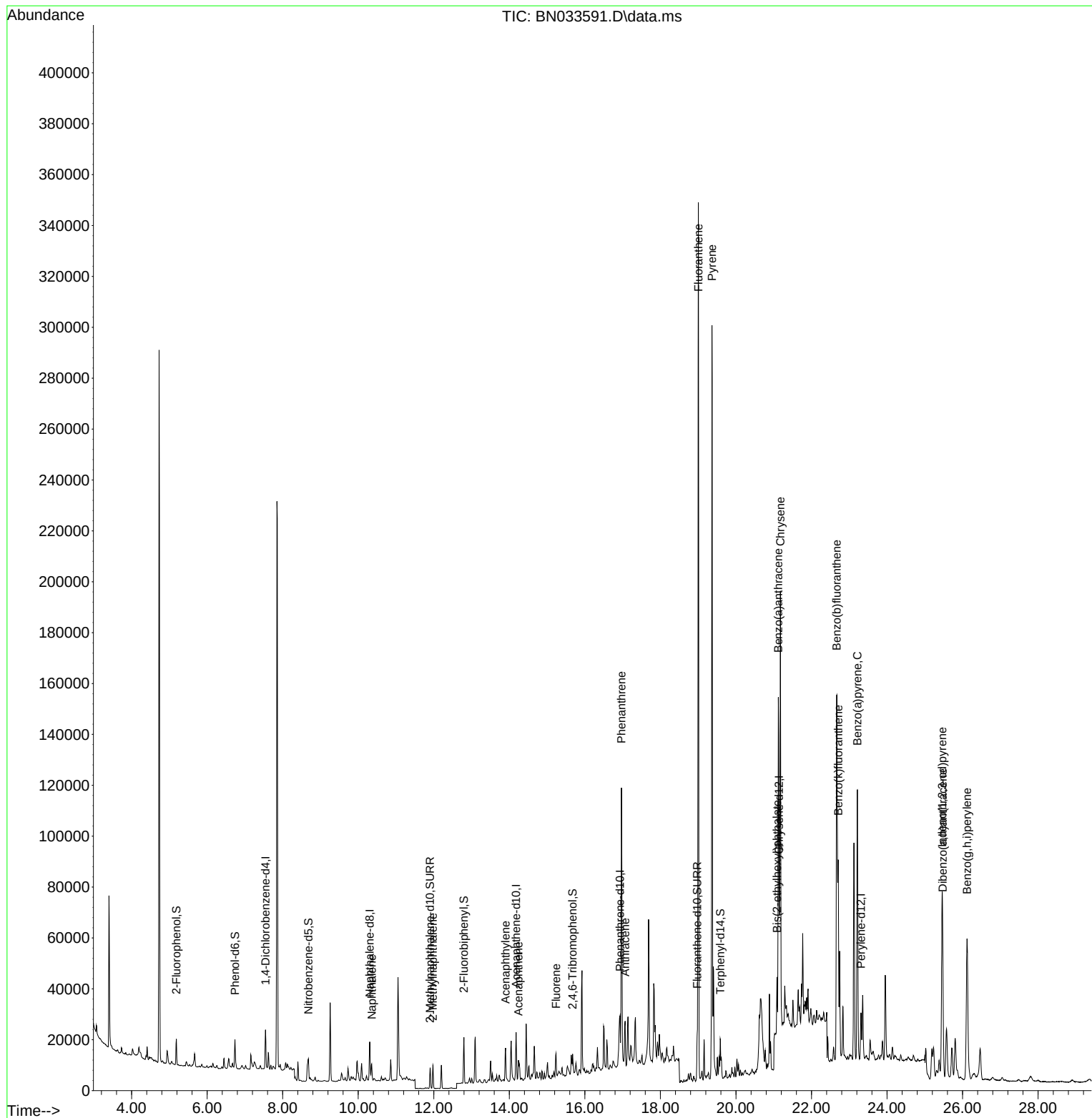
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033591.D
Acq On : 23 Aug 2024 15:59
Operator : MA/JU
Sample : P3671-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

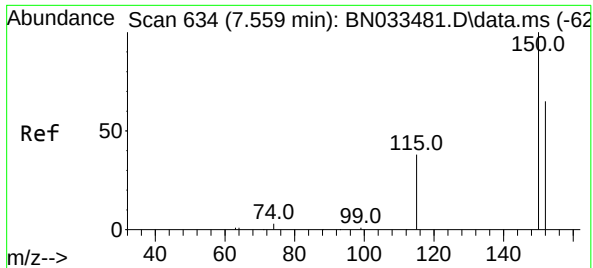
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD

Quant Time: Aug 23 16:53:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

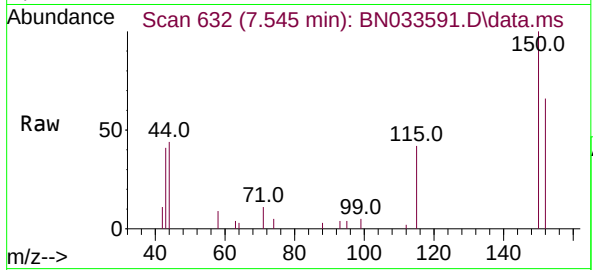
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

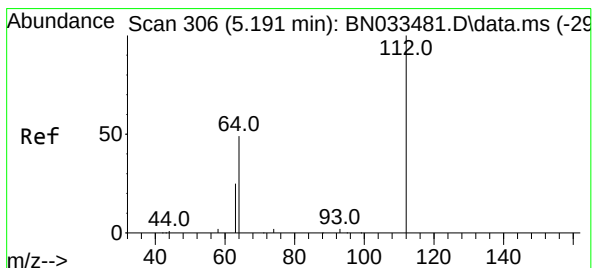
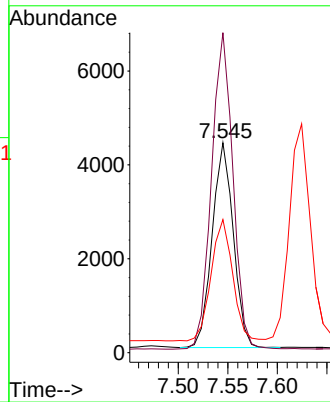
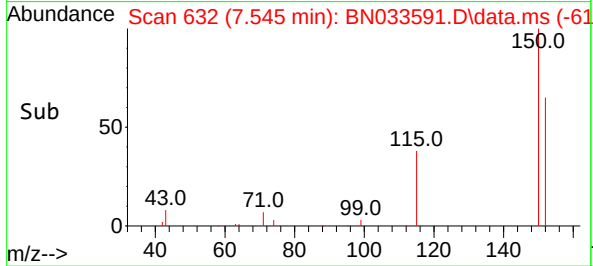
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD



Tgt Ion:152 Resp: 647
Ion Ratio Lower Upper
152 100
150 152.5 122.2 183.2
115 63.4 47.2 70.8

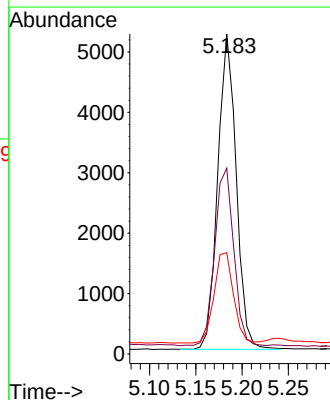
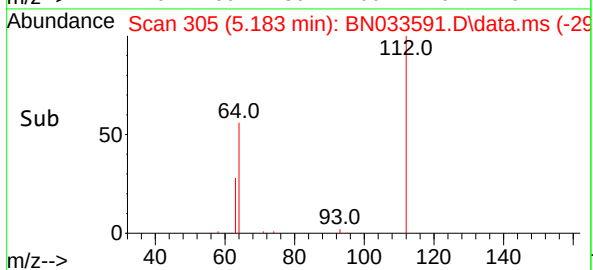
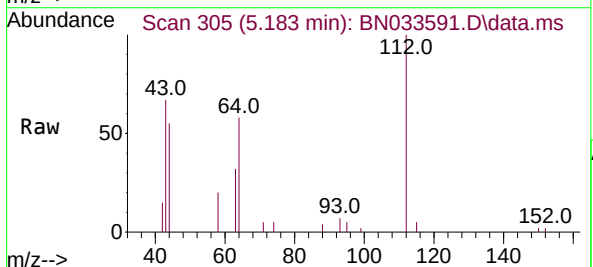
Manual Integrations
APPROVED

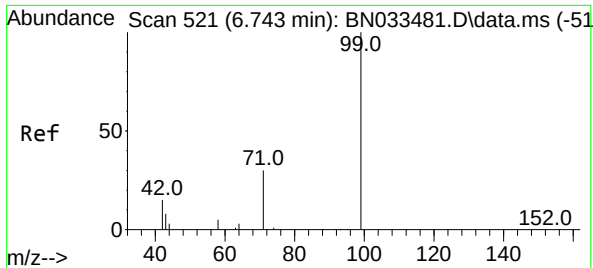
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#4
2-Fluorophenol
Concen: 0.353 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

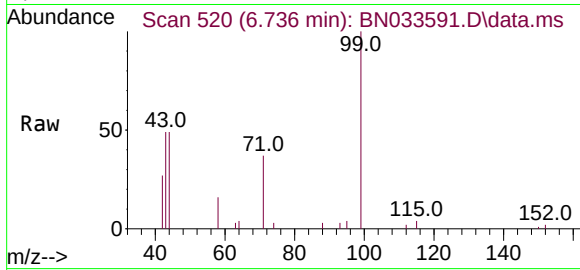
Tgt Ion:112 Resp: 7252
Ion Ratio Lower Upper
112 100
64 57.8 47.1 70.7
63 30.0 24.9 37.3





#5
Phenol-d6
Concen: 0.385 ng
RT: 6.736 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

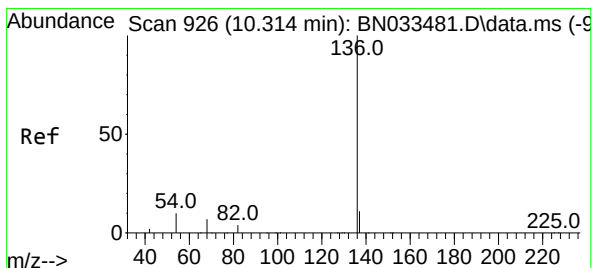
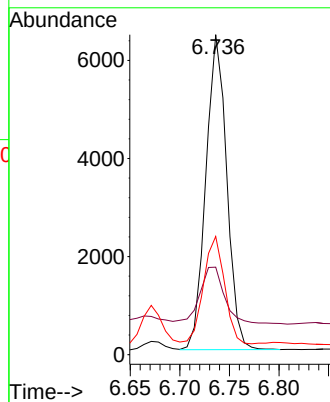
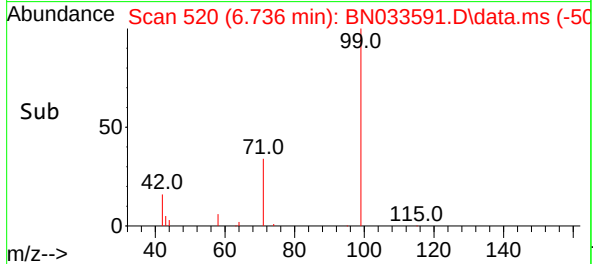
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD



Tgt Ion: 99 Resp: 9414
Ion Ratio Lower Upper
99 100
42 20.9 16.6 24.8
71 34.3 26.2 39.4

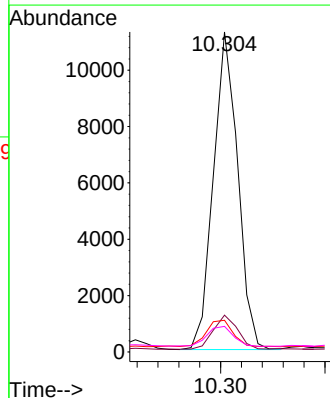
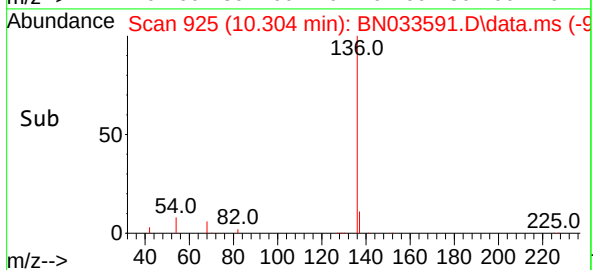
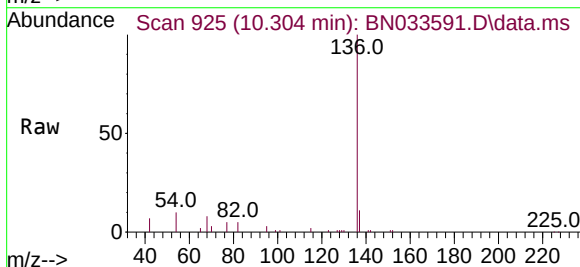
Manual Integrations
APPROVED

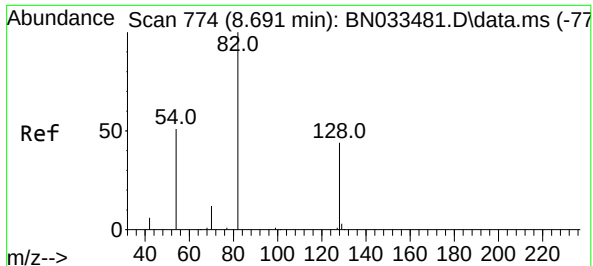
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

Tgt Ion:136 Resp: 18310
Ion Ratio Lower Upper
136 100
137 11.5 9.0 13.6
54 9.9 8.3 12.5
68 8.0 5.9 8.9





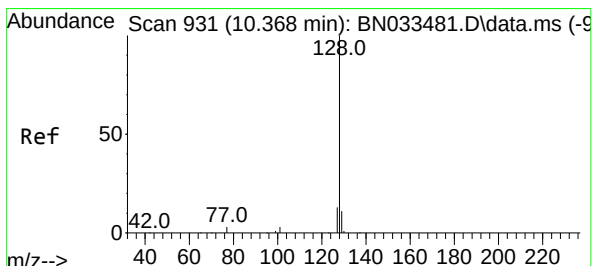
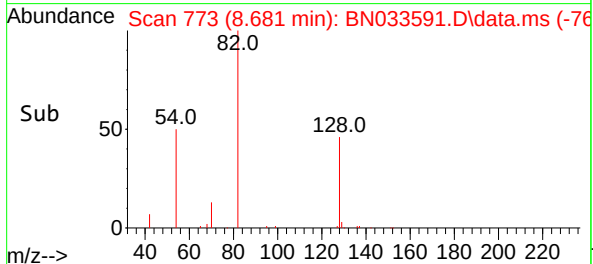
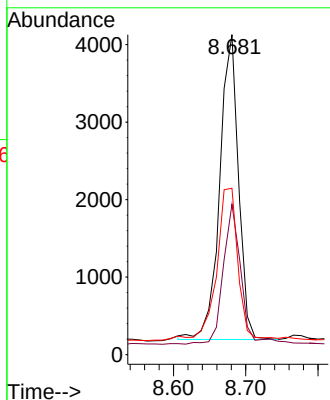
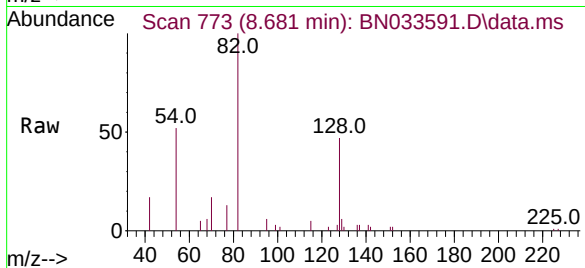
#8
Nitrobenzene-d5
Concen: 0.465 ng
RT: 8.681 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD

Tgt Ion: 82 Resp: 706
Ion Ratio Lower Upper
82 100
128 47.0 36.0 54.0
54 52.0 42.0 63.0

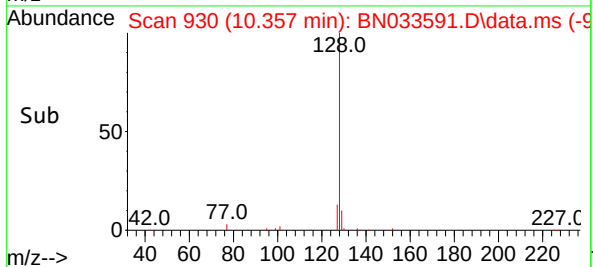
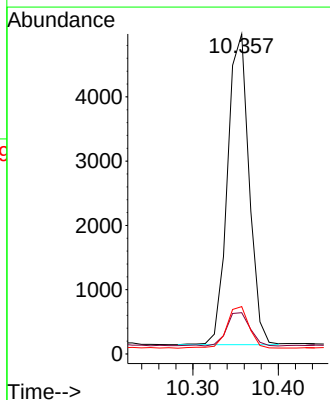
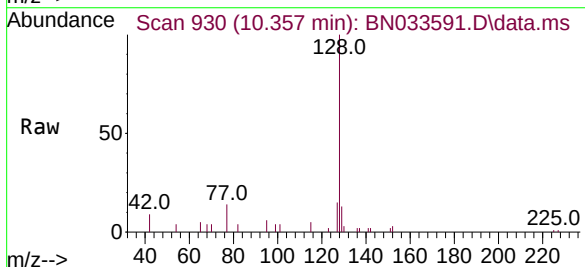
Manual Integrations
APPROVED

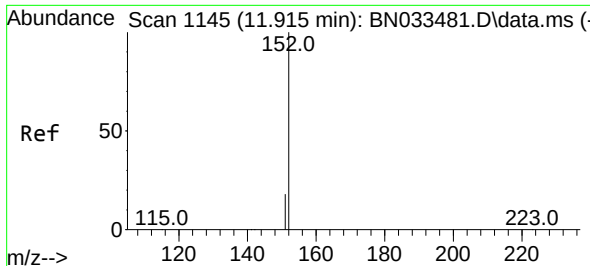
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#9
Naphthalene
Concen: 0.173 ng
RT: 10.357 min Scan# 930
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

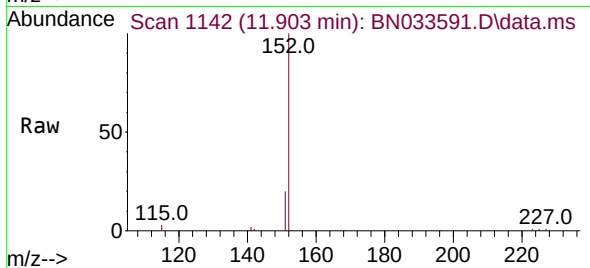
Tgt Ion:128 Resp: 8486
Ion Ratio Lower Upper
128 100
129 12.9 9.1 13.7
127 14.8 10.7 16.1





#11
2-Methylnaphthalene-d10
Concen: 0.414 ng
RT: 11.903 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

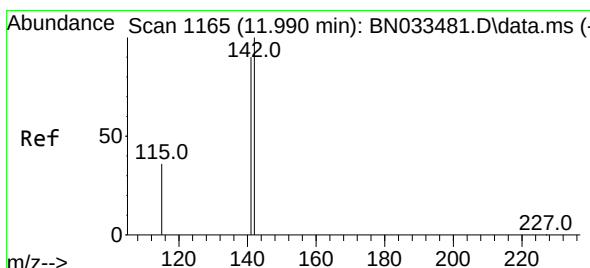
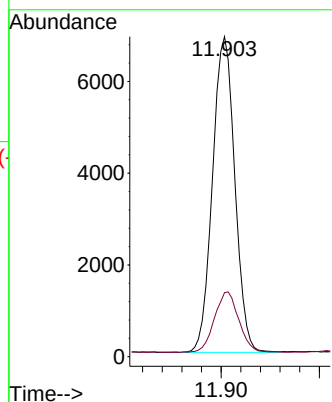
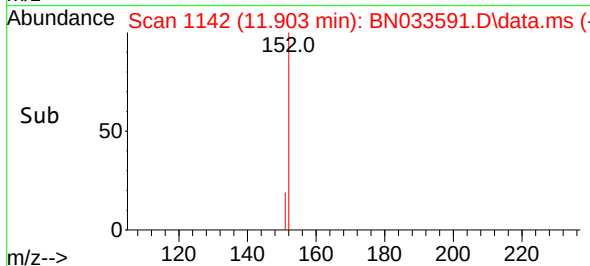
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD



Tgt Ion:152 Resp: 10850
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0

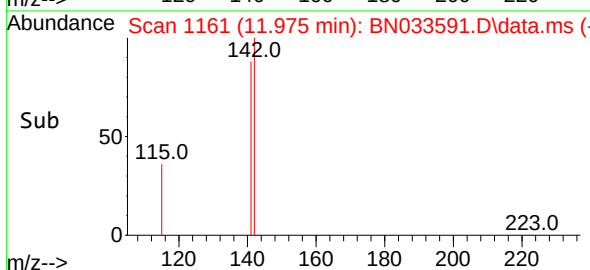
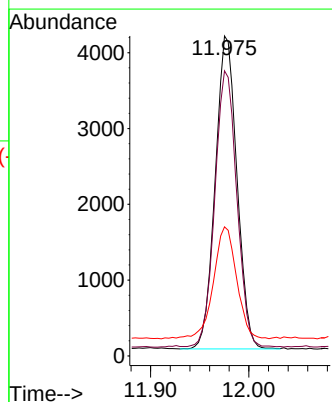
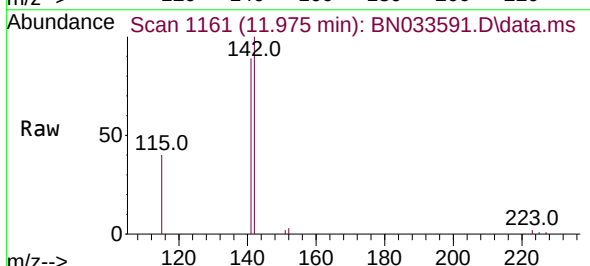
Manual Integrations
APPROVED

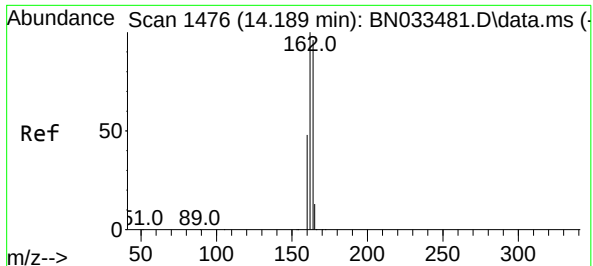
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#12
2-Methylnaphthalene
Concen: 0.205 ng
RT: 11.975 min Scan# 1161
Delta R.T. -0.004 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

Tgt Ion:142 Resp: 6355
Ion Ratio Lower Upper
142 100
141 89.1 71.7 107.5
115 40.3 29.4 44.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.178 min Scan# 14

Delta R.T. -0.000 min

Lab File: BN033591.D

Acq: 23 Aug 2024 15:59

Instrument :

BNA_N

ClientSampleId :

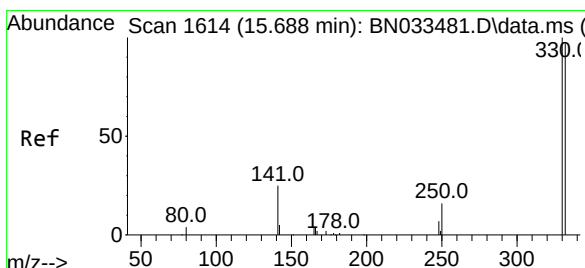
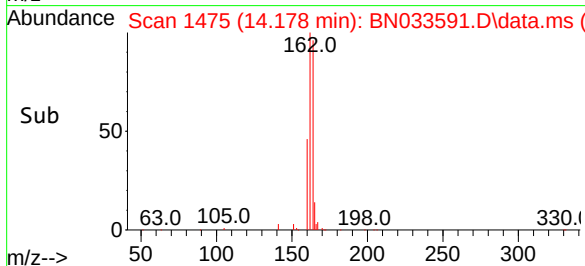
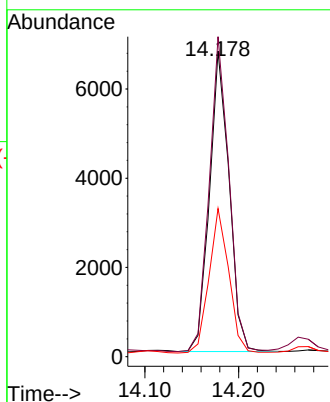
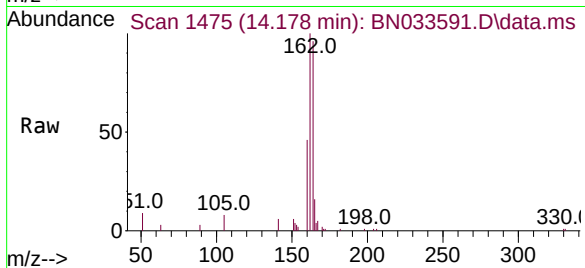
S-911-KI-SO-0-0.5-081924-FD

Tgt Ion:	164	Resp:	978
Ion Ratio	Lower	Upper	
164	100		
162	104.7	83.5	125.3
160	48.5	40.2	60.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#14

2,4,6-Tribromophenol

Concen: 0.503 ng

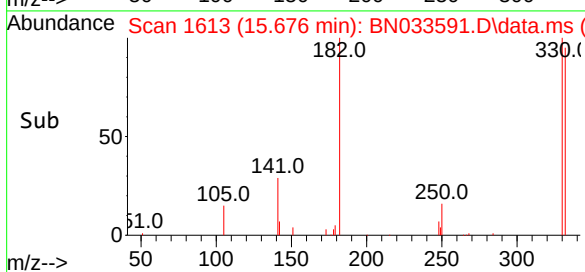
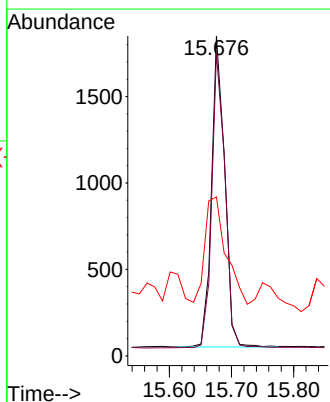
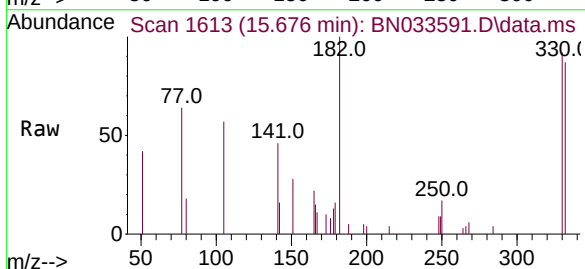
RT: 15.676 min Scan# 1613

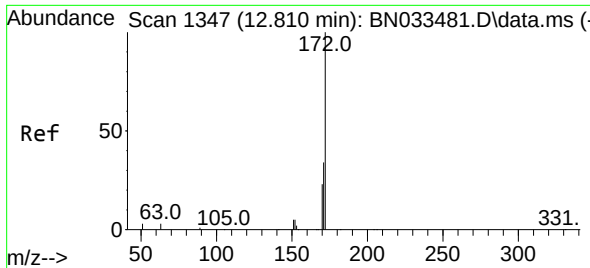
Delta R.T. -0.000 min

Lab File: BN033591.D

Acq: 23 Aug 2024 15:59

Tgt Ion:	330	Resp:	2643
Ion Ratio	Lower	Upper	
330	100		
332	95.6	77.5	116.3
141	55.1	33.9	50.9





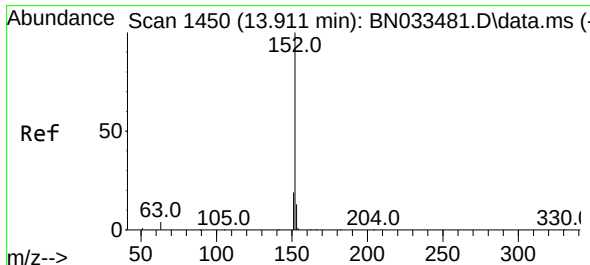
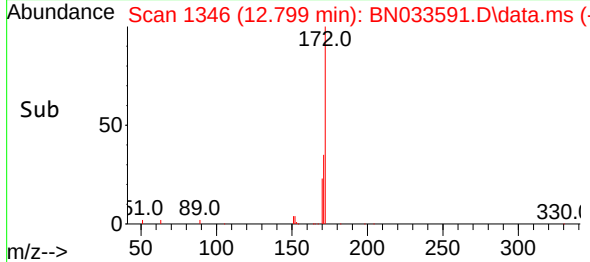
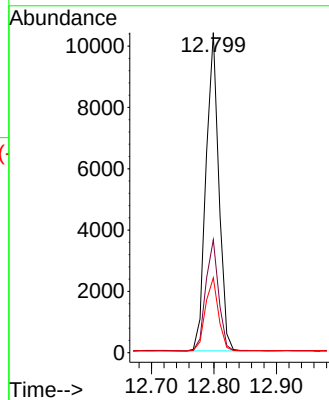
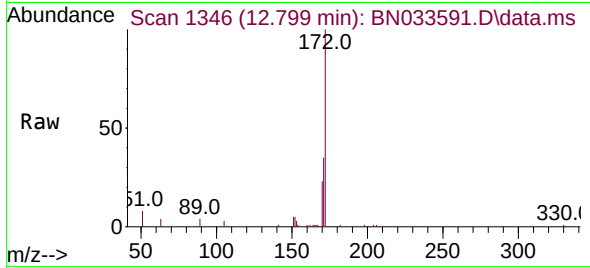
#15
2-Fluorobiphenyl
Concen: 0.370 ng
RT: 12.799 min Scan# 1478
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD

Tgt Ion:172 Resp: 1478
Ion Ratio Lower Upper
172 100
171 35.3 27.7 41.5
170 23.4 18.3 27.5

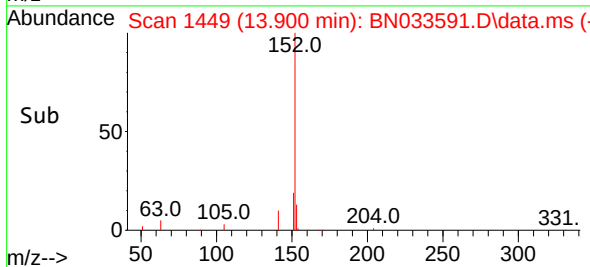
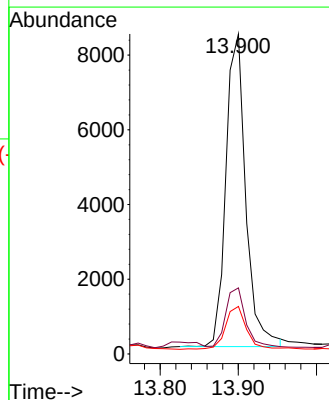
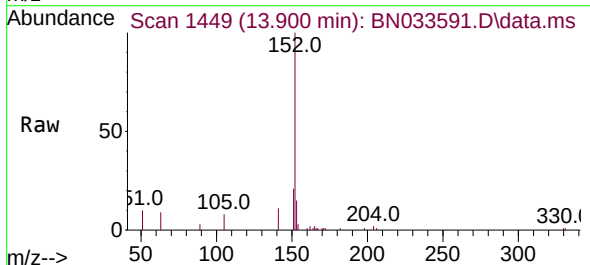
Manual Integrations
APPROVED

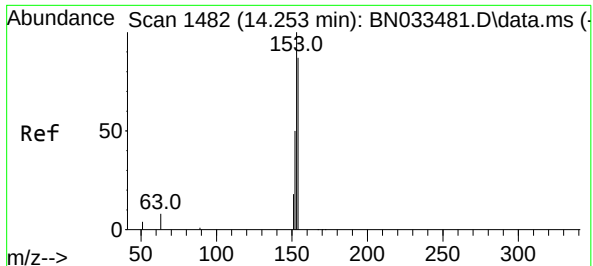
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#16
Acenaphthylene
Concen: 0.344 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

Tgt Ion:152 Resp: 14776
Ion Ratio Lower Upper
152 100
151 18.3 15.7 23.5
153 14.6 10.3 15.5





#17

Acenaphthene

Concen: 0.113 ng

RT: 14.242 min Scan# 1481

Delta R.T. -0.000 min

Lab File: BN033591.D

Acq: 23 Aug 2024 15:59

Instrument :

BNA_N

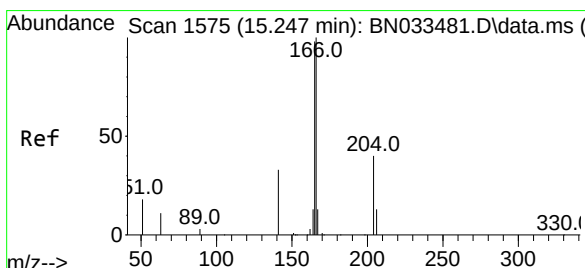
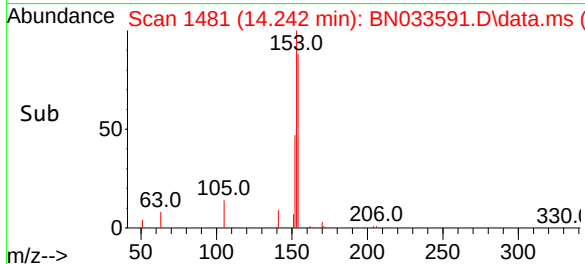
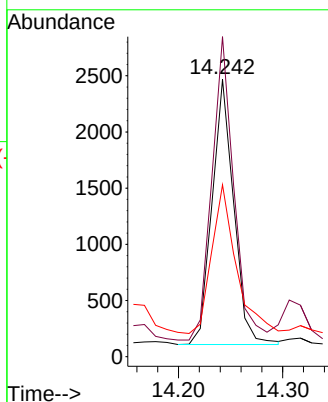
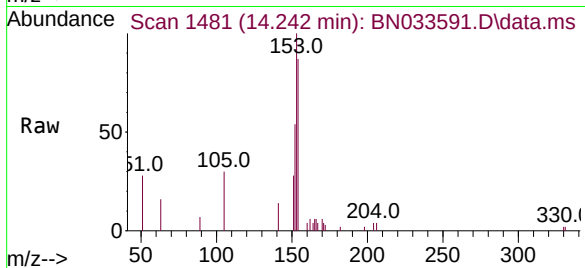
ClientSampleId :

S-911-KI-SO-0-0.5-081924-FD

Tgt Ion:	154	Resp:	341
Ion Ratio	Lower	Upper	
154	100		
153	115.1	89.0	133.6
152	63.3	45.2	67.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#18

Fluorene

Concen: 0.149 ng

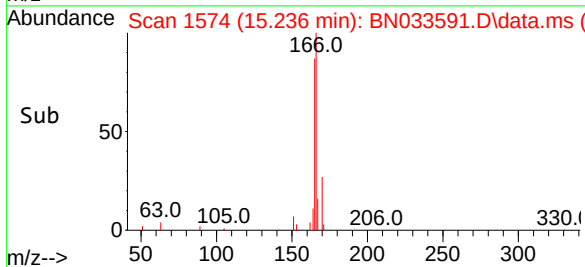
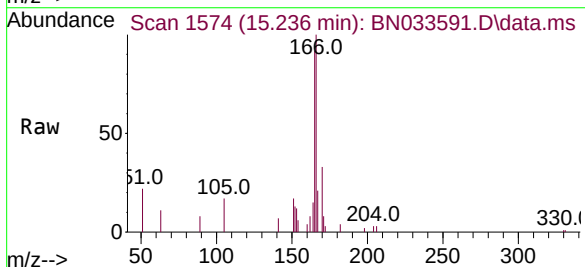
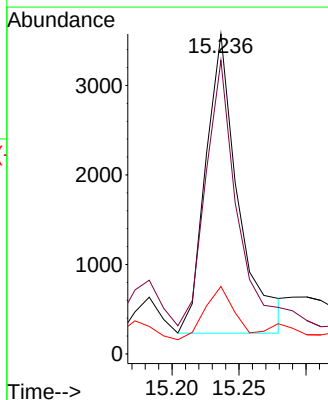
RT: 15.236 min Scan# 1574

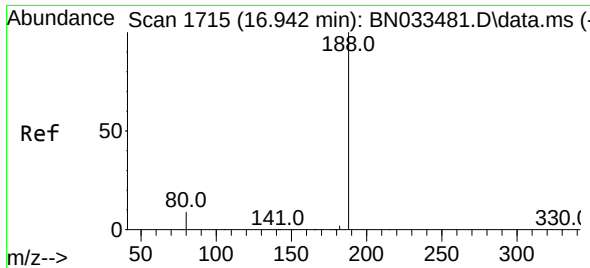
Delta R.T. -0.000 min

Lab File: BN033591.D

Acq: 23 Aug 2024 15:59

Tgt Ion:	166	Resp:	5677
Ion Ratio	Lower	Upper	
166	100		
165	84.4	78.2	117.4
167	17.2	10.6	16.0#





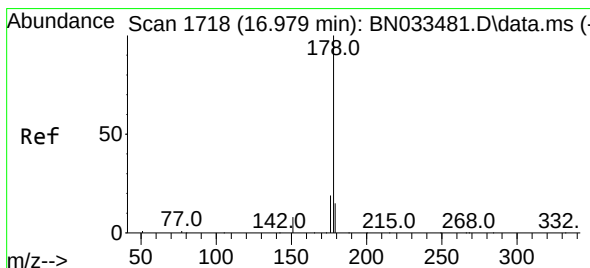
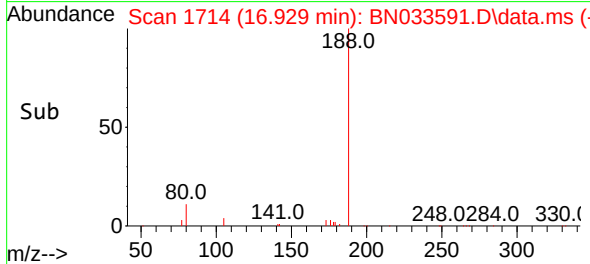
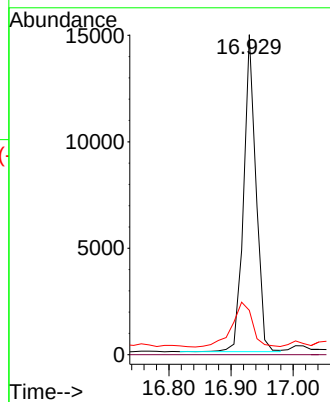
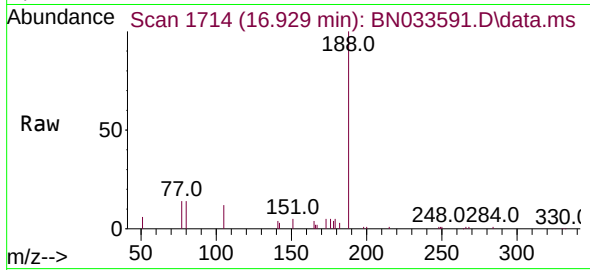
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD

Tgt Ion:188 Resp: 2064
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.8 7.8 11.8

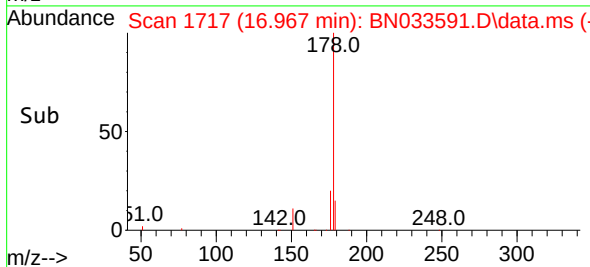
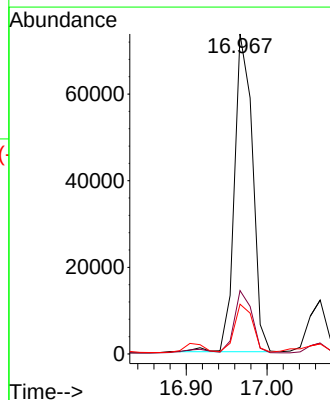
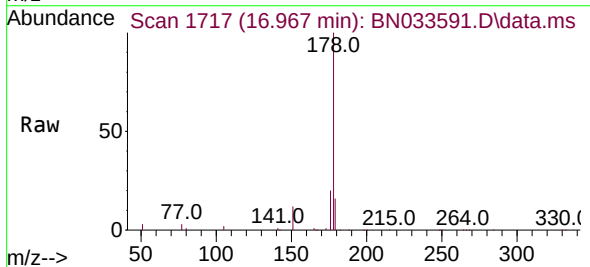
Manual Integrations
APPROVED

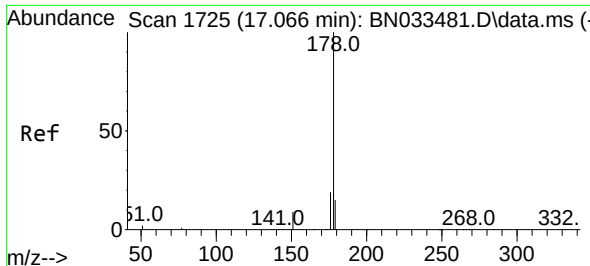
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#25
Phenanthrene
Concen: 1.987 ng
RT: 16.967 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

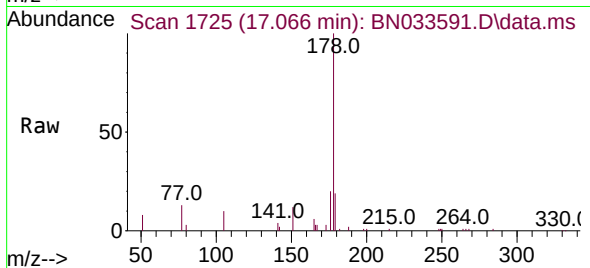
Tgt Ion:178 Resp: 114072
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 14.9 12.3 18.5





#26
Anthracene
Concen: 0.361 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

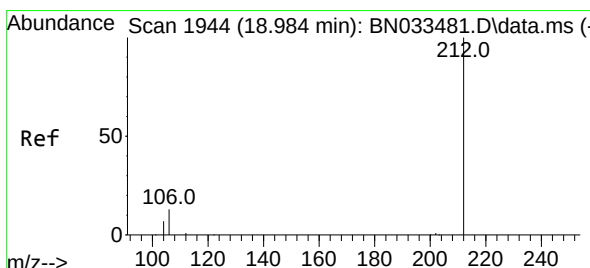
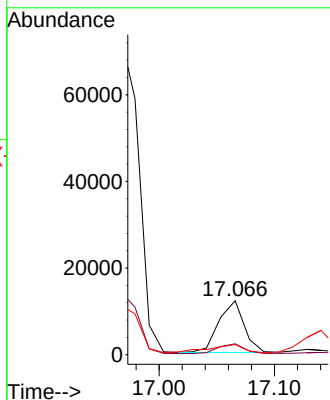
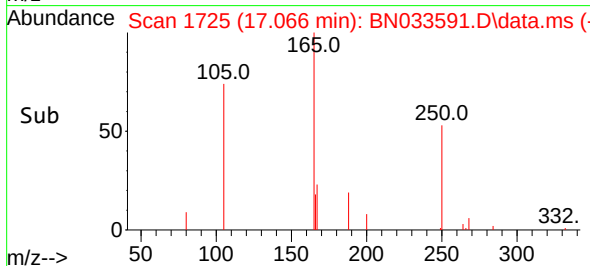
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD



Tgt Ion:178 Resp: 18335
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 21.4 12.4 18.6

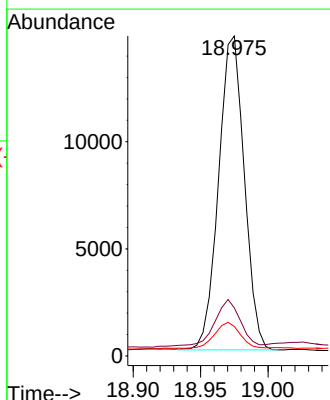
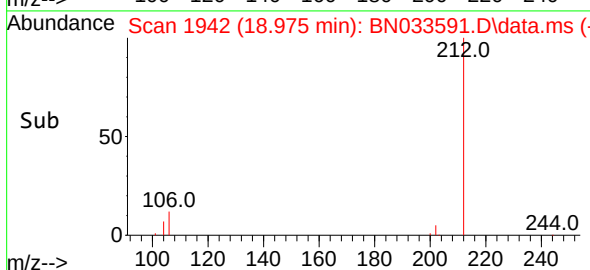
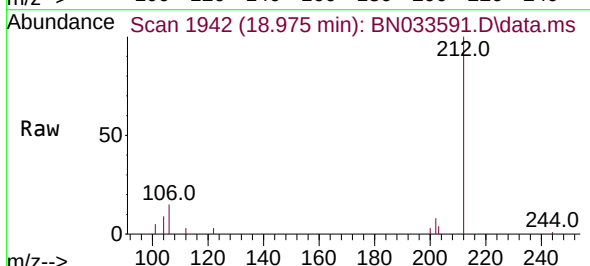
Manual Integrations
APPROVED

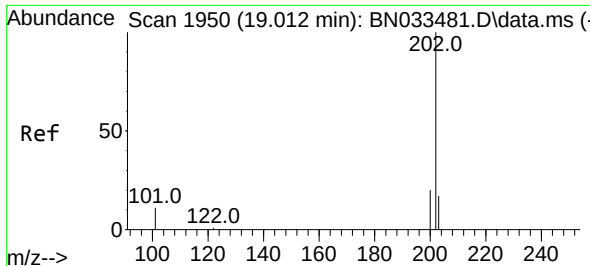
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 18.975 min Scan# 1942
Delta R.T. 0.005 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

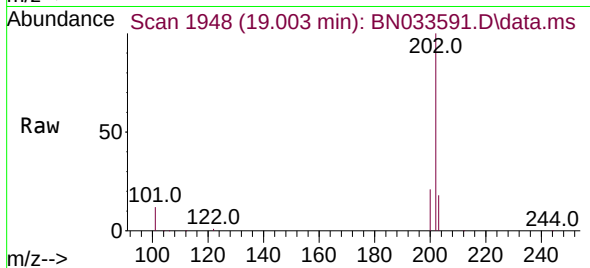
Tgt Ion:212 Resp: 19419
Ion Ratio Lower Upper
212 100
106 15.8 12.3 18.5
104 9.1 7.0 10.4





#28
Fluoranthene
Concen: 4.628 ng
RT: 19.003 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

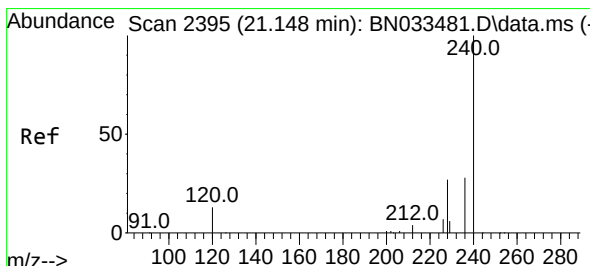
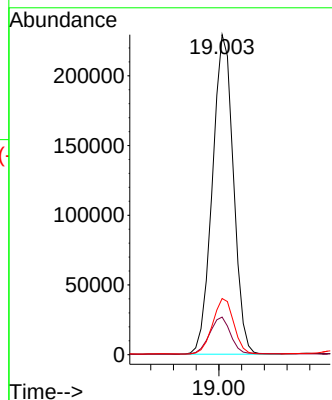
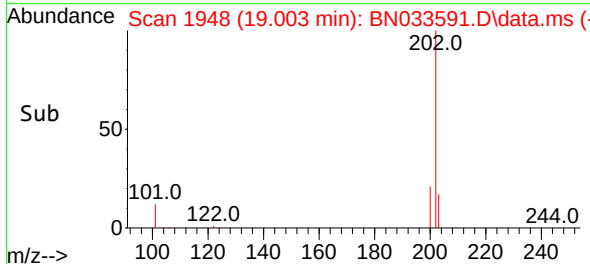
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD



Tgt Ion:202 Resp: 293678
Ion Ratio Lower Upper
202 100
101 11.8 9.5 14.3
203 17.4 13.8 20.6

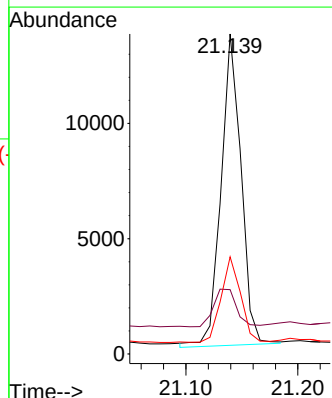
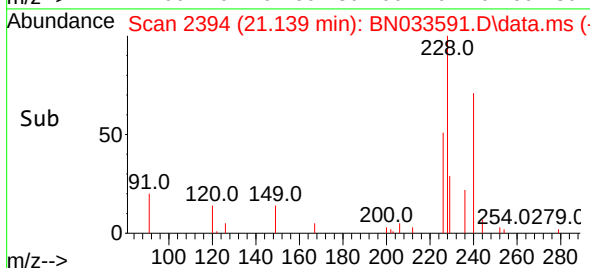
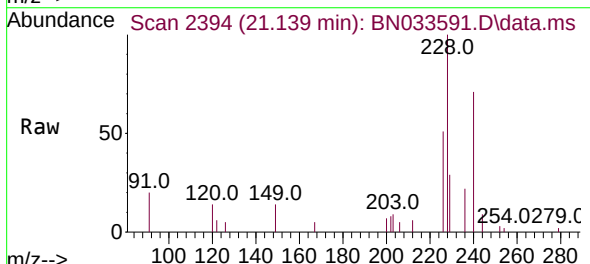
Manual Integrations
APPROVED

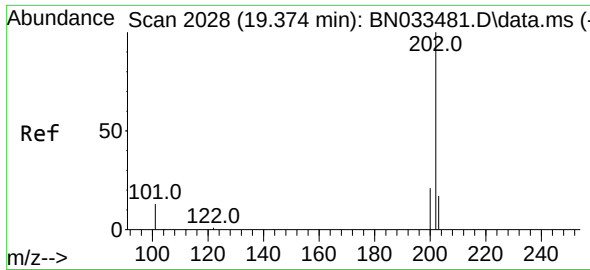
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

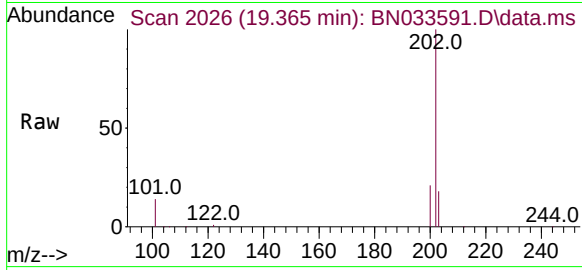
Tgt Ion:240 Resp: 16828
Ion Ratio Lower Upper
240 100
120 20.1 12.4 18.6#
236 30.4 23.0 34.6





#30
Pyrene
Concen: 3.400 ng
RT: 19.365 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

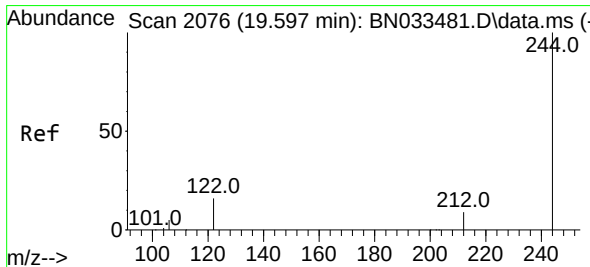
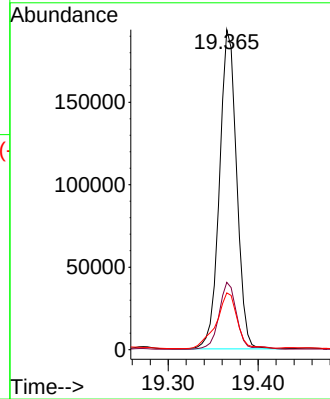
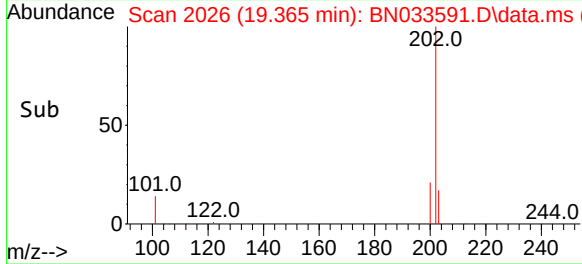
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD



Tgt Ion:202 Resp: 25537
Ion Ratio Lower Upper
202 100
200 21.1 16.6 24.8
203 21.4 14.2 21.4

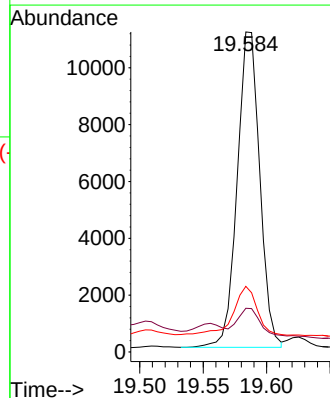
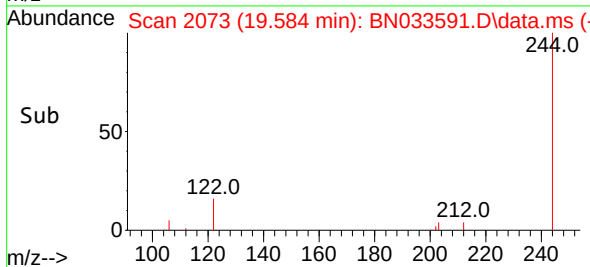
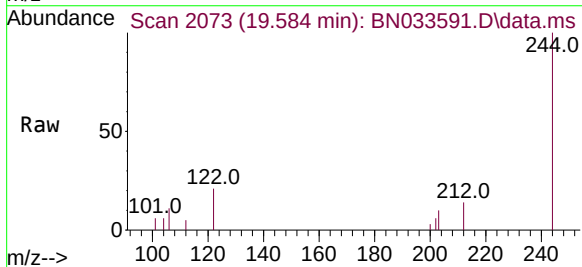
Manual Integrations
APPROVED

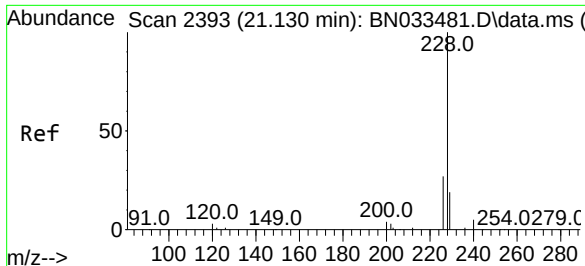
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#31
Terphenyl-d14
Concen: 0.359 ng
RT: 19.584 min Scan# 2073
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

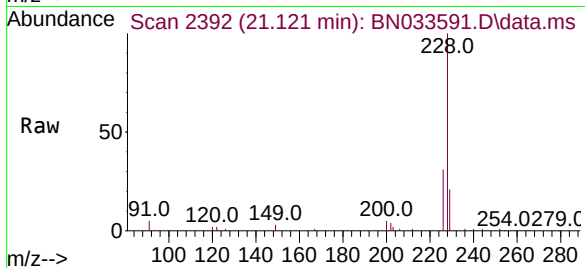
Tgt Ion:244 Resp: 13742
Ion Ratio Lower Upper
244 100
212 13.7 7.8 11.6#
122 20.5 13.3 19.9#





#32
Benzo(a)anthracene
Concen: 1.966 ng
RT: 21.121 min Scan# 211959
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

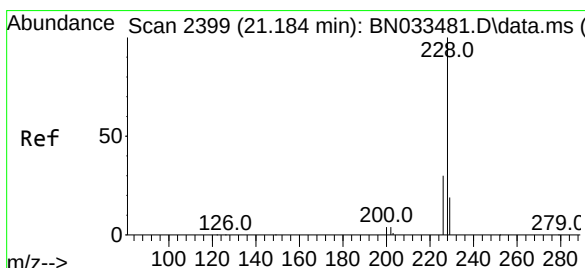
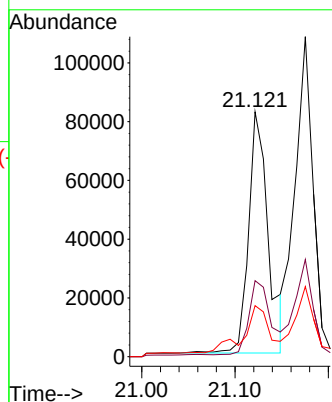
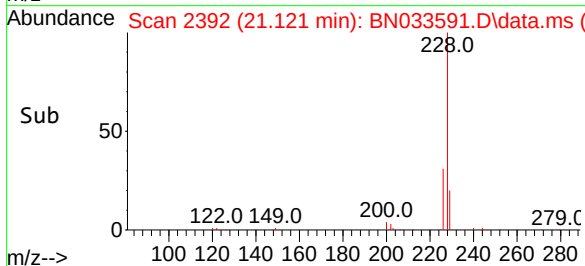
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD



Tgt Ion:228 Resp: 119594
Ion Ratio Lower Upper
228 100
226 31.0 21.8 32.6
229 20.8 15.8 23.6

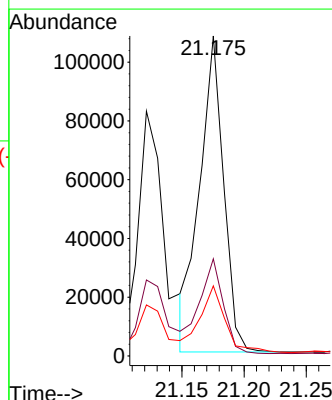
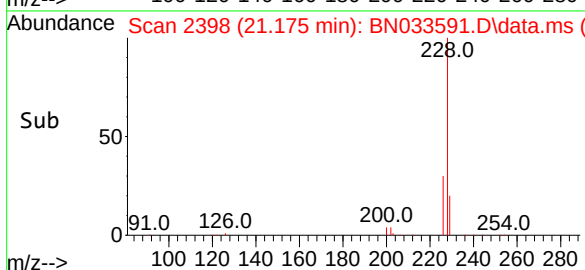
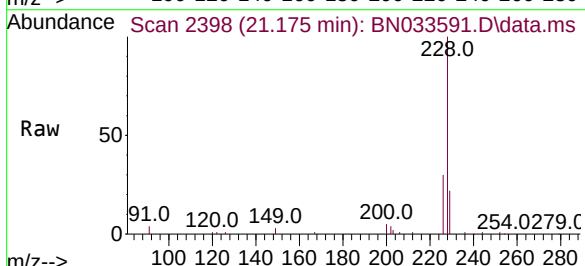
Manual Integrations
APPROVED

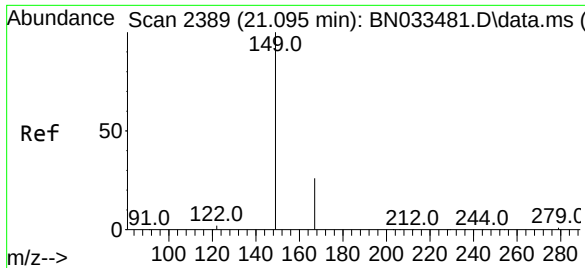
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#33
Chrysene
Concen: 2.375 ng
RT: 21.175 min Scan# 2398
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

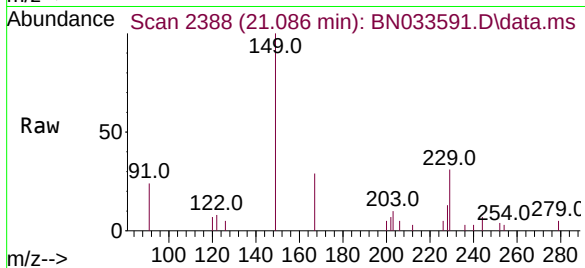
Tgt Ion:228 Resp: 143608
Ion Ratio Lower Upper
228 100
226 30.3 23.8 35.8
229 21.9 15.6 23.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.393 ng m
RT: 21.086 min Scan# 2108
Delta R.T. -0.000 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

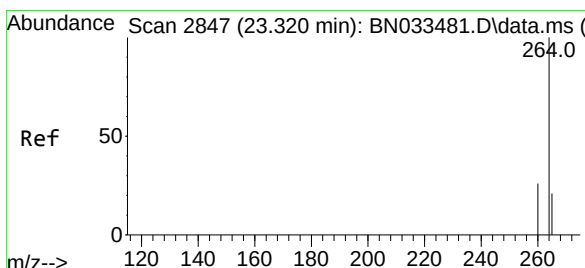
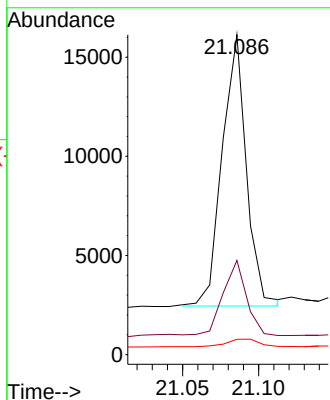
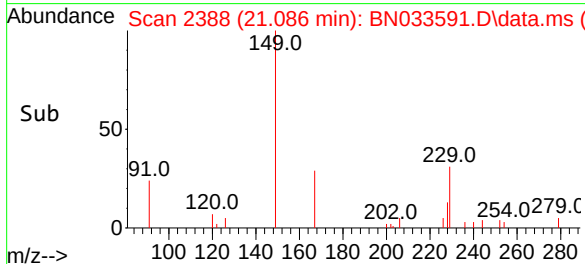
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD



Tgt Ion:149 Resp: 15130
Ion Ratio Lower Upper
149 100
167 72.4 21.5 32.3
279 24.2 2.2 3.2

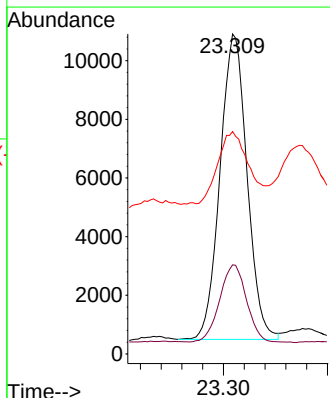
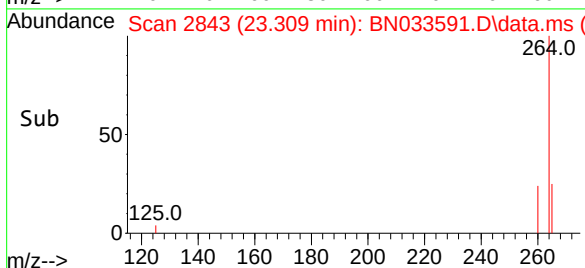
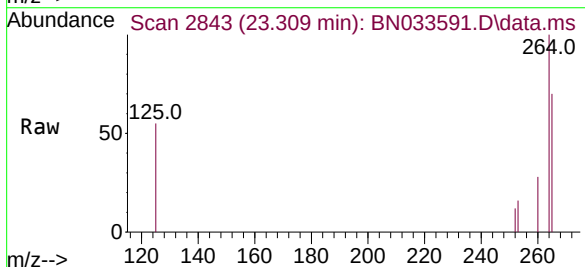
Manual Integrations
APPROVED

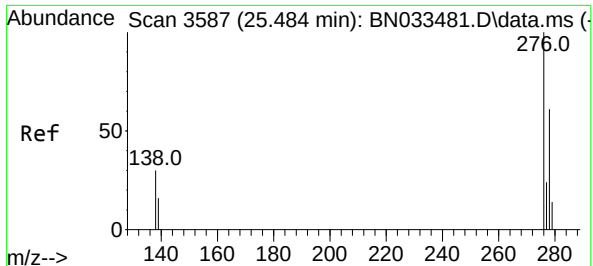
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.309 min Scan# 2843
Delta R.T. 0.006 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

Tgt Ion:264 Resp: 18757
Ion Ratio Lower Upper
264 100
260 27.8 20.8 31.2
265 69.5 52.2 78.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 1.416 ng

RT: 25.461 min Scan# 3579

Delta R.T. 0.012 min

Lab File: BN033591.D

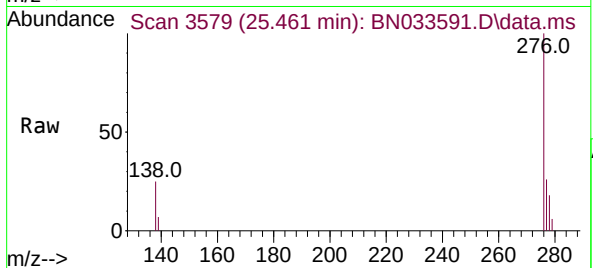
Acq: 23 Aug 2024 15:59

Instrument :

BNA_N

ClientSampleId :

S-911-KI-SO-0-0.5-081924-FD



Tgt Ion:276 Resp: 11026

Ion Ratio Lower Upper

276 100

138 23.6 24.4 36.6

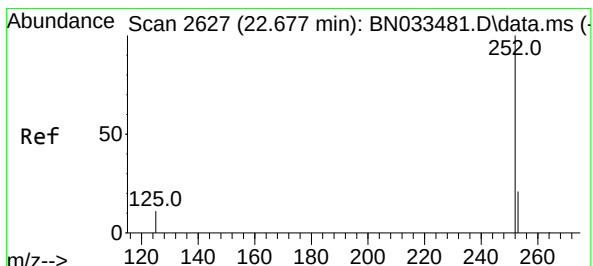
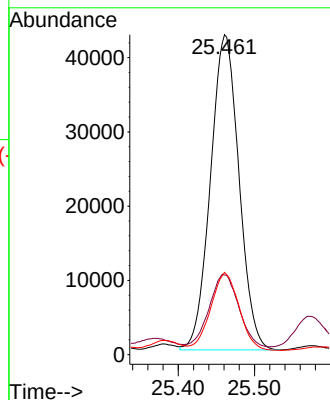
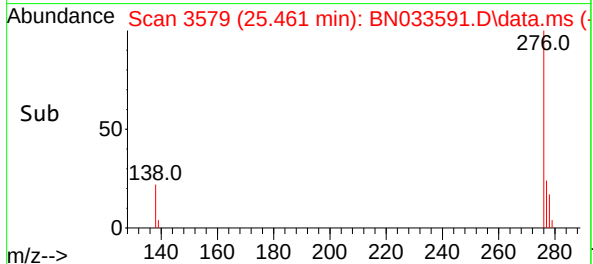
277 24.6 19.8 29.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#37

Benzo(b)fluoranthene

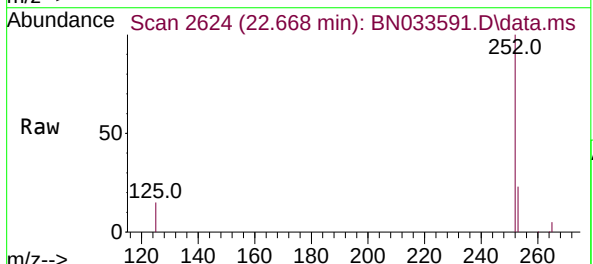
Concen: 3.068 ng

RT: 22.668 min Scan# 2624

Delta R.T. 0.009 min

Lab File: BN033591.D

Acq: 23 Aug 2024 15:59



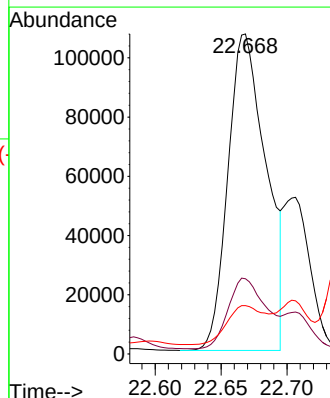
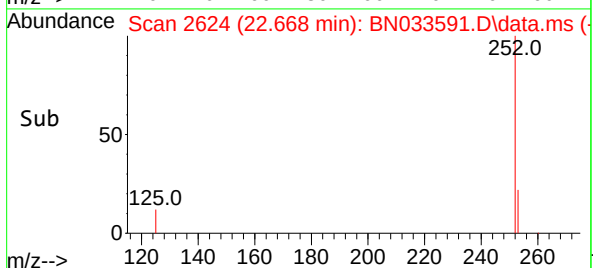
Tgt Ion:252 Resp: 214874

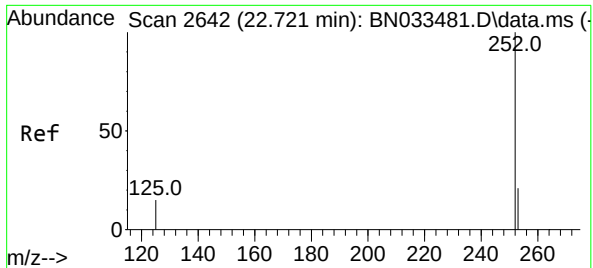
Ion Ratio Lower Upper

252 100

253 23.5 19.8 29.8

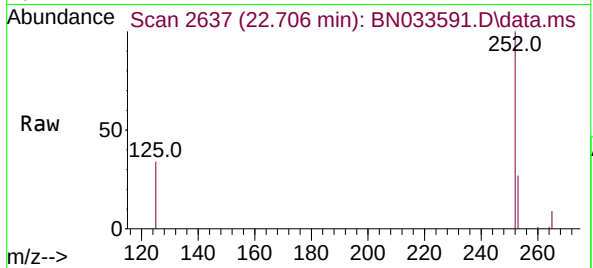
125 15.1 13.9 20.9





#38
Benzo(k)fluoranthene
Concen: 1.057 ng m
RT: 22.706 min Scan# 20
Delta R.T. 0.003 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

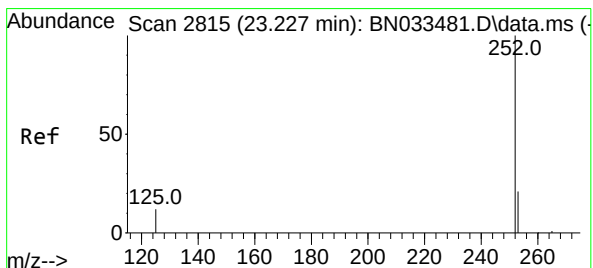
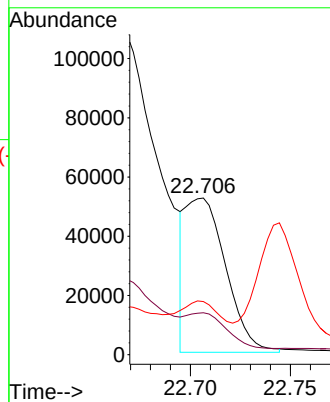
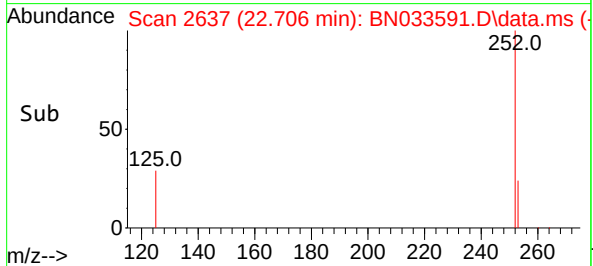
Instrument :
BNA_N
ClientSampleId :
S-911-KI-SO-0-0.5-081924-FD



Tgt Ion:252 Resp: 72890
Ion Ratio Lower Upper
252 100
253 26.8 19.8 29.8
125 33.9 15.8 23.8

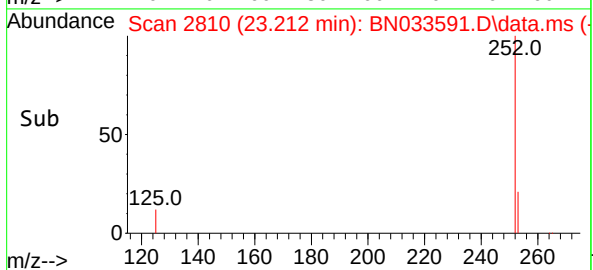
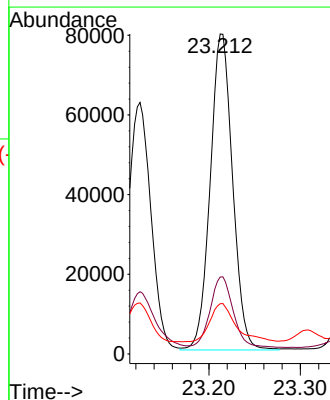
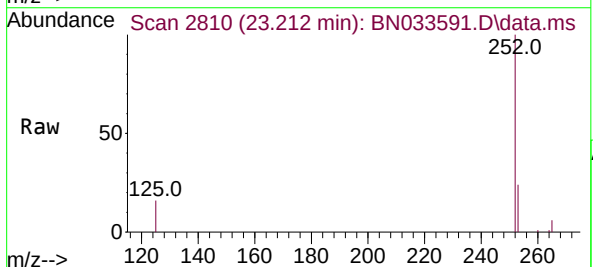
Manual Integrations
APPROVED

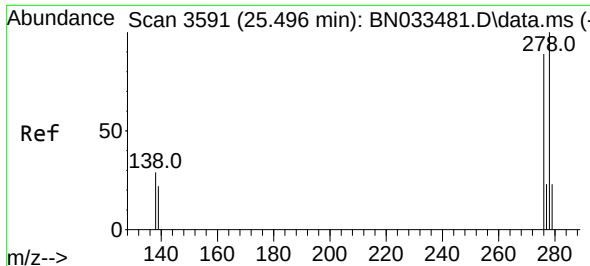
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#39
Benzo(a)pyrene
Concen: 2.328 ng m
RT: 23.212 min Scan# 2810
Delta R.T. 0.003 min
Lab File: BN033591.D
Acq: 23 Aug 2024 15:59

Tgt Ion:252 Resp: 134904
Ion Ratio Lower Upper
252 100
253 24.0 21.5 32.3
125 15.7 17.0 25.4





#40

Dibenzo(a,h)anthracene

Concen: 0.403 ng

RT: 25.475 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN033591.D

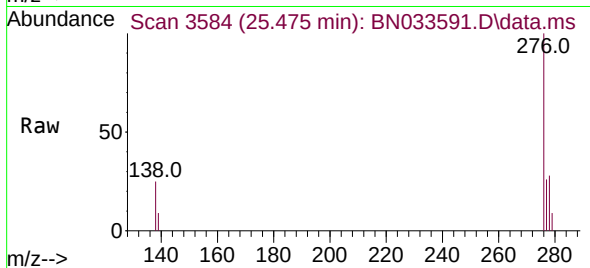
Acq: 23 Aug 2024 15:59

Instrument :

BNA_N

ClientSampleId :

S-911-KI-SO-0-0.5-081924-FD



Tgt Ion:278 Resp: 25089

Ion Ratio Lower Upper

278 100

139 32.0 19.1 28.7

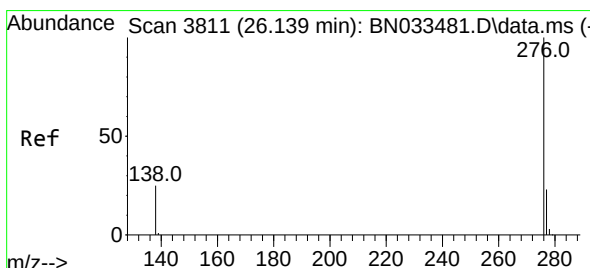
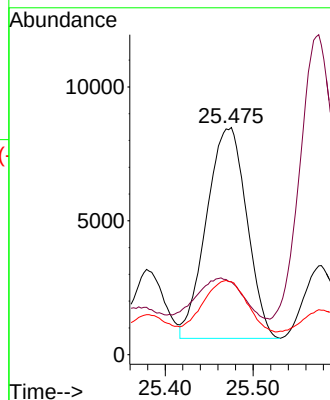
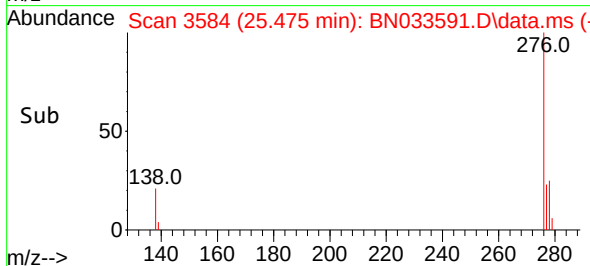
279 32.1 21.0 31.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#41

Benzo(g,h,i)perylene

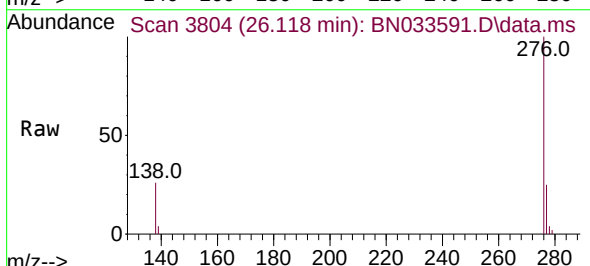
Concen: 1.655 ng

RT: 26.118 min Scan# 3804

Delta R.T. 0.015 min

Lab File: BN033591.D

Acq: 23 Aug 2024 15:59



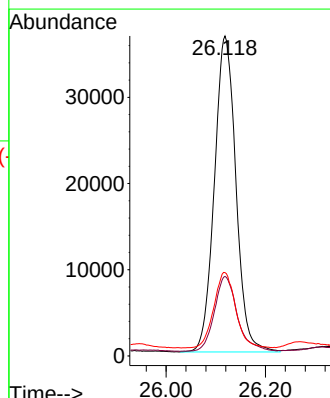
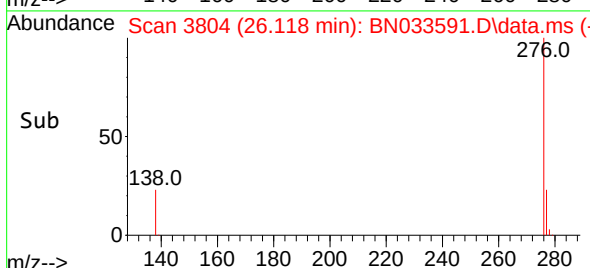
Tgt Ion:276 Resp: 110193

Ion Ratio Lower Upper

276 100

277 24.8 19.7 29.5

138 26.0 21.8 32.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-06	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	78.2
Sample Wt/Vol:	30.07 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033568.D	1	08/21/24 09:38	08/23/24 01:05	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	2.00	J	0.88	4.20	ug/Kg
91-57-6	2-Methylnaphthalene	1.60	J	1.00	4.20	ug/Kg
208-96-8	Acenaphthylene	2.40	J	0.80	4.20	ug/Kg
83-32-9	Acenaphthene	18.0		0.70	4.20	ug/Kg
86-73-7	Fluorene	15.5		0.77	4.20	ug/Kg
85-01-8	Phenanthrene	210		0.80	4.20	ug/Kg
120-12-7	Anthracene	45.8		1.00	4.20	ug/Kg
206-44-0	Fluoranthene	380	E	0.85	4.20	ug/Kg
129-00-0	Pyrene	270	E	1.20	4.20	ug/Kg
56-55-3	Benzo(a)anthracene	190		0.97	4.20	ug/Kg
218-01-9	Chrysene	190		1.10	4.20	ug/Kg
205-99-2	Benzo(b)fluoranthene	250	E	1.50	4.20	ug/Kg
207-08-9	Benzo(k)fluoranthene	91.7		1.30	4.20	ug/Kg
50-32-8	Benzo(a)pyrene	210		2.10	4.20	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110		1.60	4.20	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.5		1.50	4.20	ug/Kg
191-24-2	Benzo(g,h,i)perylene	120		1.50	4.20	ug/Kg
123-91-1	1,4-Dioxane	2.80	U	2.80	8.40	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.16		30 (17) - 150 (161)	40%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.11	*	30 (23) - 150 (138)	28%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.19		30 (33) - 130 (121)	47%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.15		30 (32) - 130 (121)	38%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.089	*	30 (21) - 130 (130)	22%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7740		7.545		
1146-65-2	Naphthalene-d8	20500		10.304		
15067-26-2	Acenaphthene-d10	9840		14.178		
1517-22-2	Phenanthrene-d10	18400		16.929		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-06	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	78.2
Sample Wt/Vol:	30.07 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033568.D	1	08/21/24 09:38	08/23/24 01:05	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	15400	21.139			
1520-96-3	Perylene-d12	16700	23.303			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033568.D
Acq On : 23 Aug 2024 01:05
Operator : MA/JU
Sample : P3671-06
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924

Quant Time: Aug 23 01:36:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	7735	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	20459	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	9843	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	18367	0.400	ng	0.00
29) Chrysene-d12	21.139	240	15413	0.400	ng	0.00
35) Perylene-d12	23.303	264	16704	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	3935	0.160	ng	0.00
5) Phenol-d6	6.729	99	4875	0.167	ng	0.00
8) Nitrobenzene-d5	8.681	82	3190	0.188	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	4662	0.159	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	780	0.147	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	6144	0.153	ng	0.00
27) Fluoranthene-d10	18.970	212	5035	0.114	ng	0.00
31) Terphenyl-d14	19.583	244	3133	0.089	ng	0.00
Target Compounds						
9) Naphthalene	10.357	128	2589	0.047	ng	Qvalue # 90
12) 2-Methylnaphthalene	11.979	142	1314	0.038	ng	# 92
16) Acenaphthylene	13.900	152	2481	0.057	ng	97
17) Acenaphthene	14.242	154	12835	0.423	ng	98
18) Fluorene	15.236	166	13939	0.364	ng	98
25) Phenanthrene	16.967	178	255438	4.999	ng	100
26) Anthracene	17.066	178	48729	1.078	ng	# 96
28) Fluoranthene	19.003	202	508617	9.008	ng	100
30) Pyrene	19.365	202	439507	6.389	ng	# 95
32) Benzo(a)anthracene	21.121	228	253086	4.542	ng	99
33) Chrysene	21.175	228	245143	4.426	ng	97
34) Bis(2-ethylhexyl)phtha...	21.086	149	60608	1.718	ng	97
36) Indeno(1,2,3-cd)pyrene	25.452	276	172583	2.489	ng	95
37) Benzo(b)fluoranthene	22.660	252	362431	5.810	ng	# 94
38) Benzo(k)fluoranthene	22.701	252	132444m	2.157	ng	
39) Benzo(a)pyrene	23.209	252	256698m	4.973	ng	
40) Dibenzo(a,h)anthracene	25.460	278	41081	0.741	ng	97
41) Benzo(g,h,i)perylene	26.104	276	169795	2.863	ng	98

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

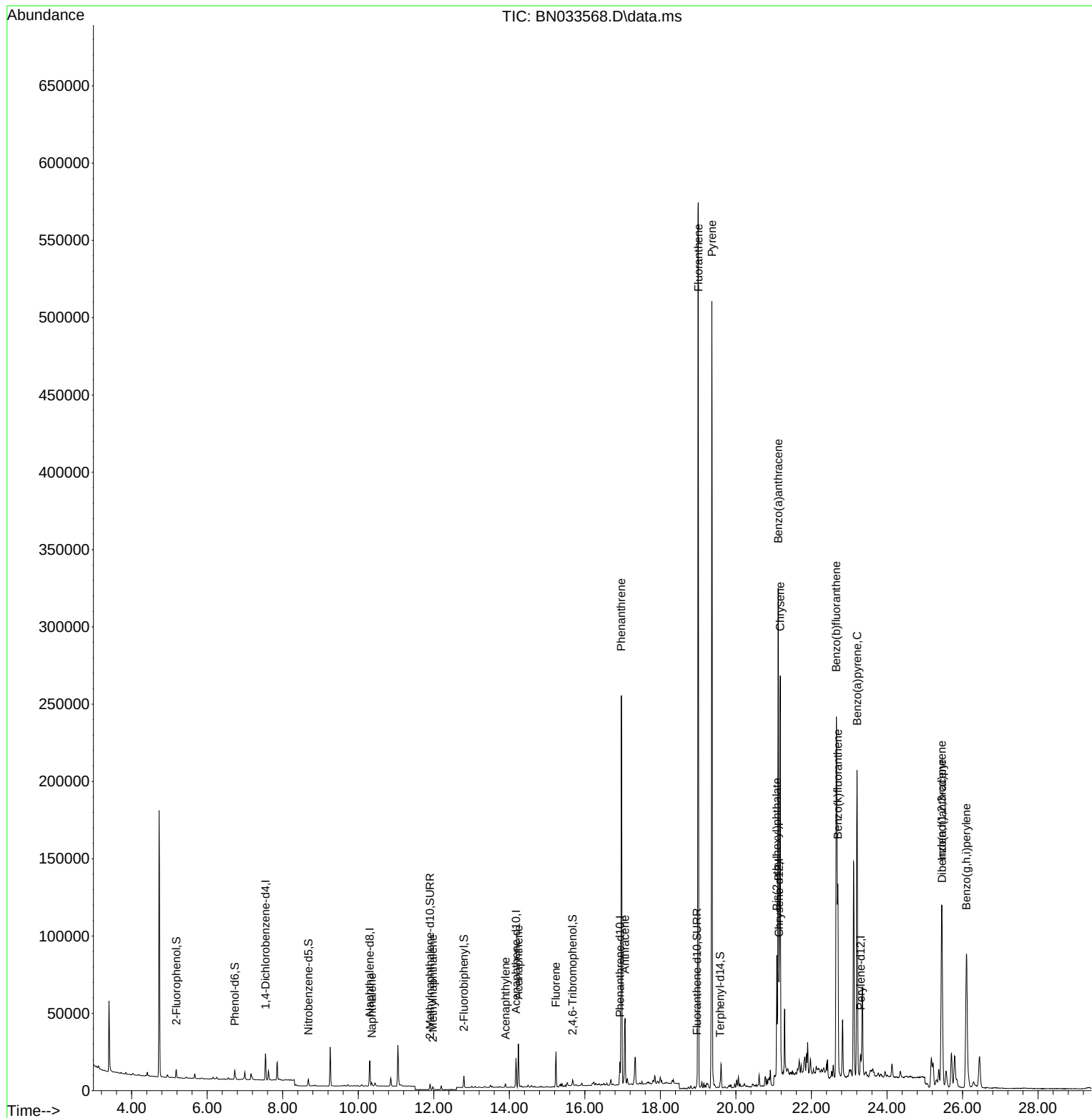
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033568.D
Acq On : 23 Aug 2024 01:05
Operator : MA/JU
Sample : P3671-06
Misc :
ALS Vial : 25 Sample Multiplier: 1

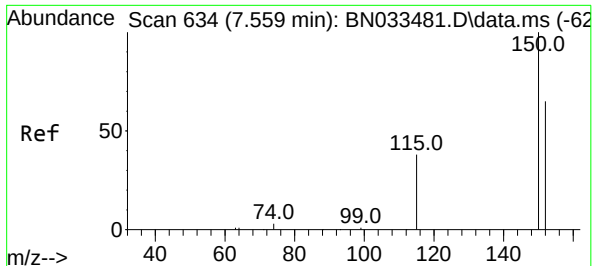
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924

Quant Time: Aug 23 01:36:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

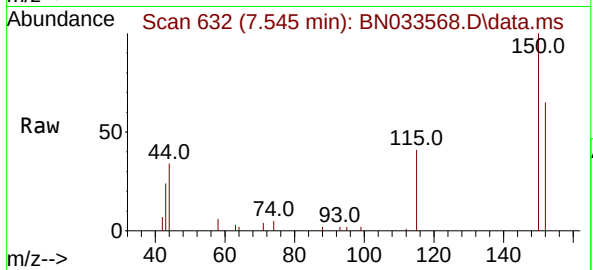
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

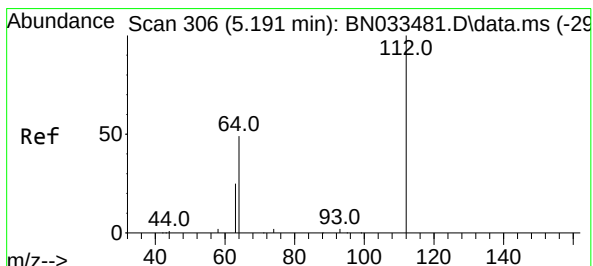
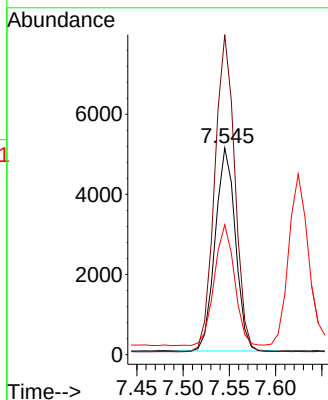
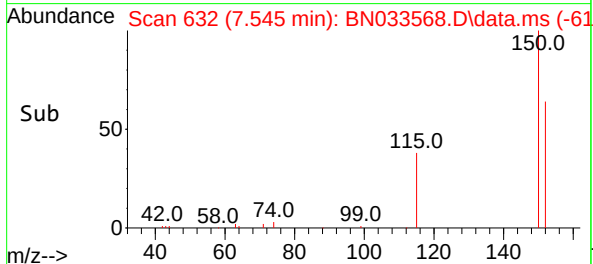
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion:152 Resp: 773
Ion Ratio Lower Upper
152 100
150 154.8 122.2 183.2
115 62.9 47.2 70.8

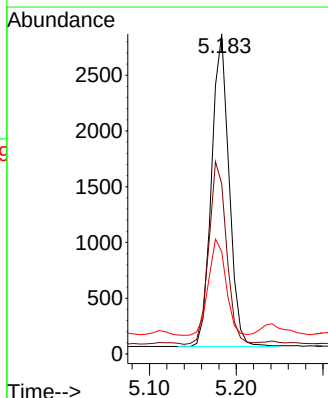
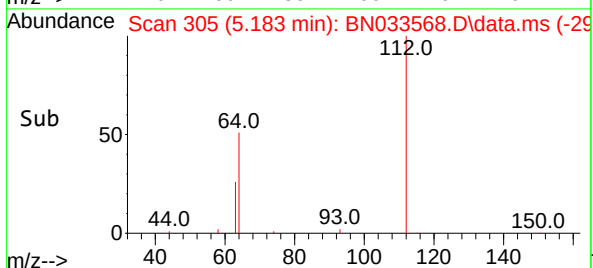
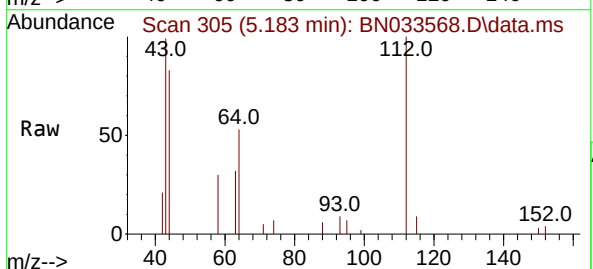
Manual Integrations
APPROVED

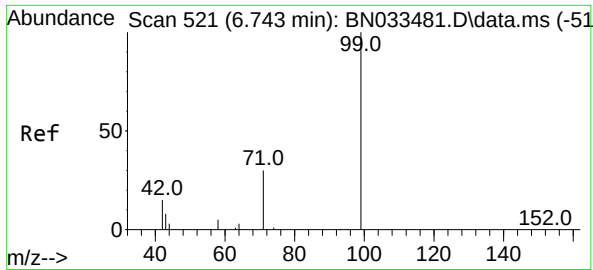
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.160 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

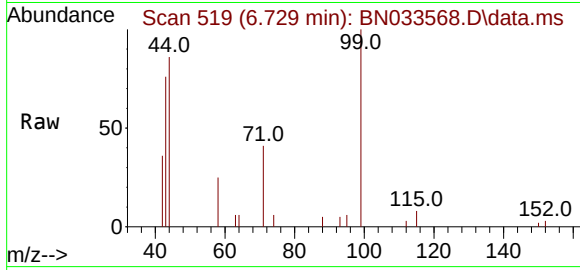
Tgt Ion:112 Resp: 3935
Ion Ratio Lower Upper
112 100
64 59.2 47.1 70.7
63 30.6 24.9 37.3





#5
Phenol-d6
Concen: 0.167 ng
RT: 6.729 min Scan# 519
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

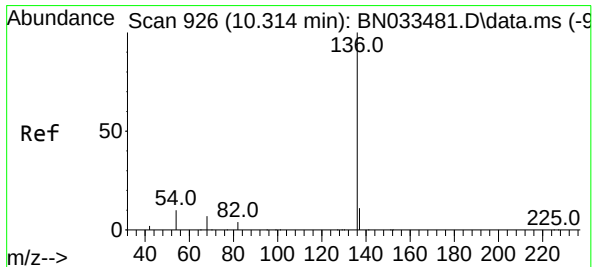
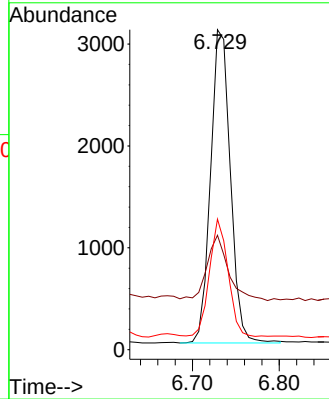
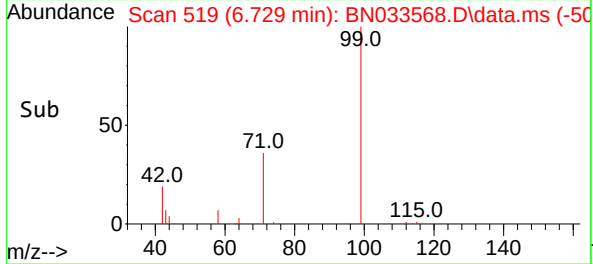
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion: 99 Resp: 4875
Ion Ratio Lower Upper
99 100
42 22.7 16.6 24.8
71 35.2 26.2 39.4

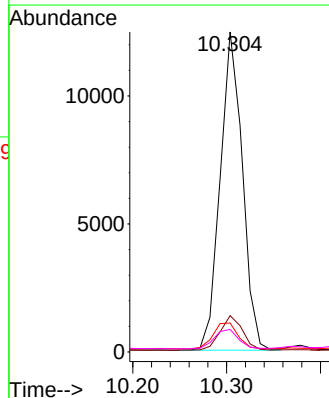
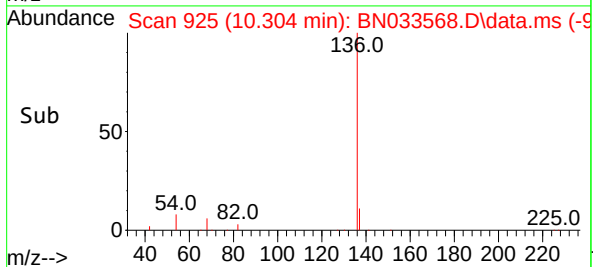
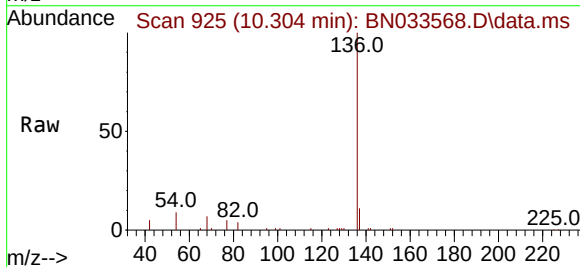
Manual Integrations
APPROVED

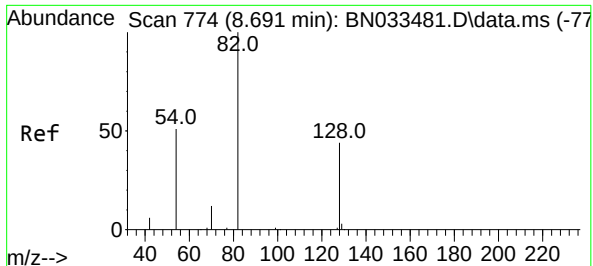
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

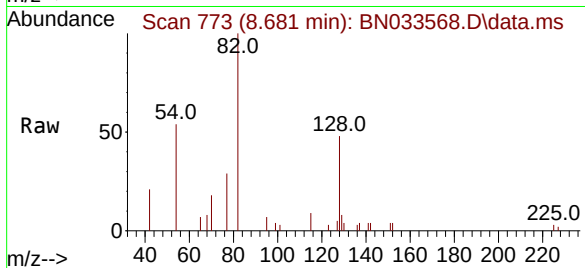
Tgt Ion:136 Resp: 20459
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 9.1 8.3 12.5
68 7.1 5.9 8.9





#8
Nitrobenzene-d5
Concen: 0.188 ng
RT: 8.681 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

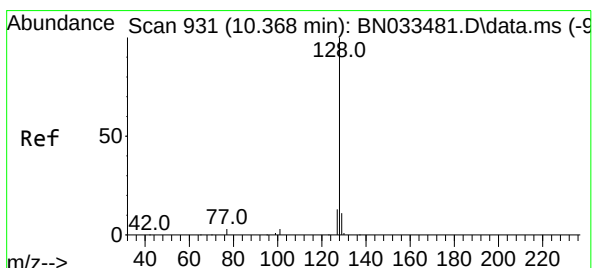
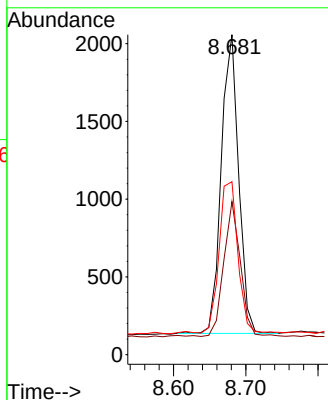
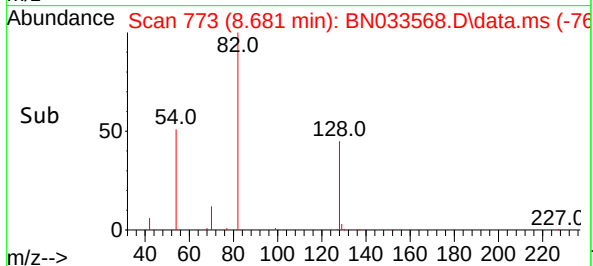
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion: 82 Resp: 3190
Ion Ratio Lower Upper
82 100
128 47.9 36.0 54.0
54 54.0 42.0 63.0

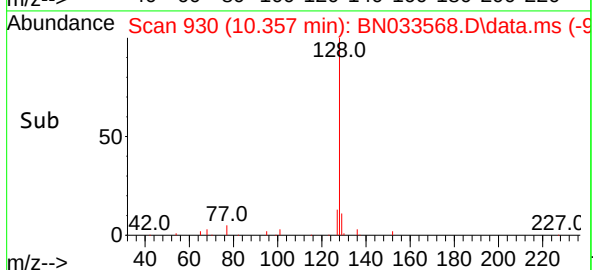
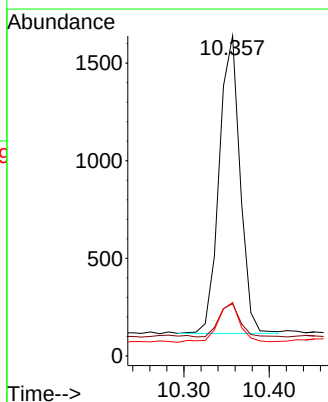
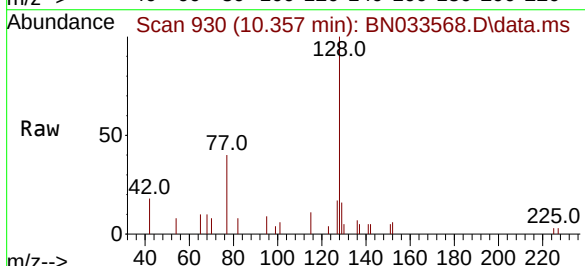
Manual Integrations
APPROVED

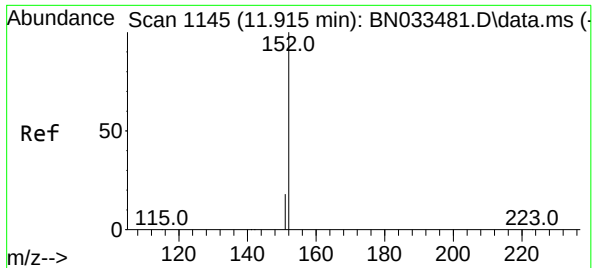
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#9
Naphthalene
Concen: 0.047 ng
RT: 10.357 min Scan# 930
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

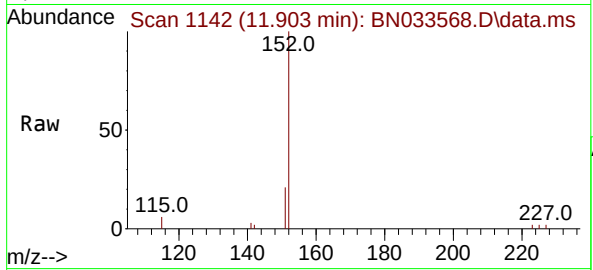
Tgt Ion:128 Resp: 2589
Ion Ratio Lower Upper
128 100
129 16.4 9.1 13.7#
127 16.7 10.7 16.1#





#11
2-Methylnaphthalene-d10
Concen: 0.159 ng
RT: 11.903 min Scan# 1142
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

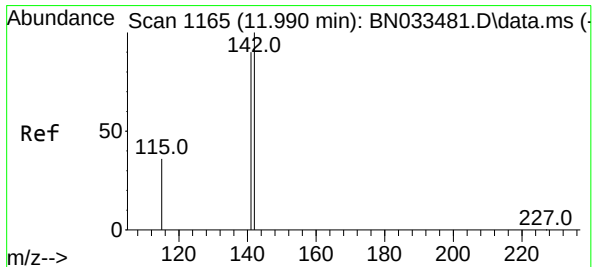
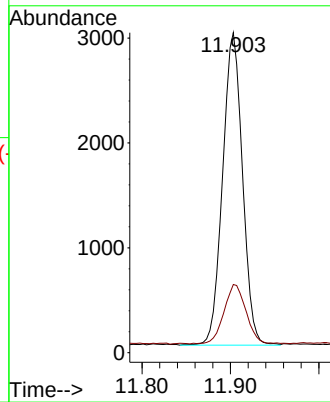
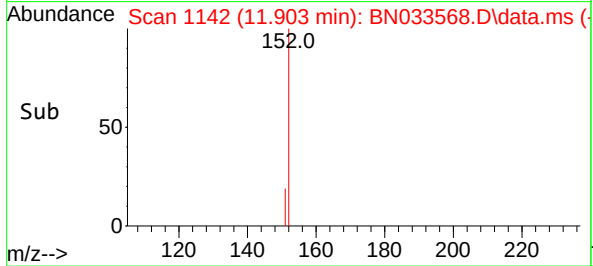
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion:152 Resp: 466
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0

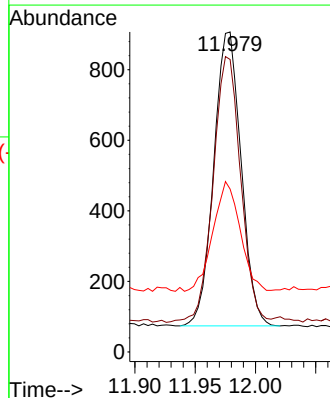
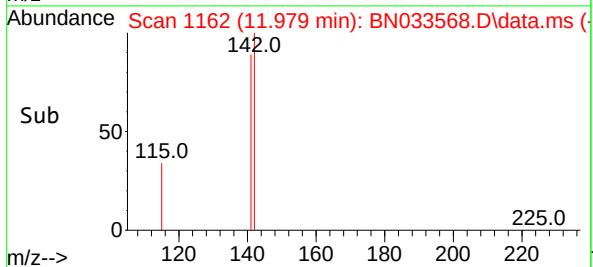
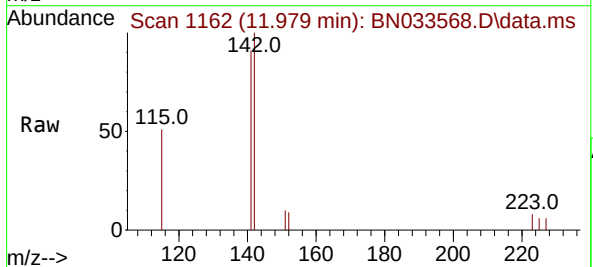
Manual Integrations
APPROVED

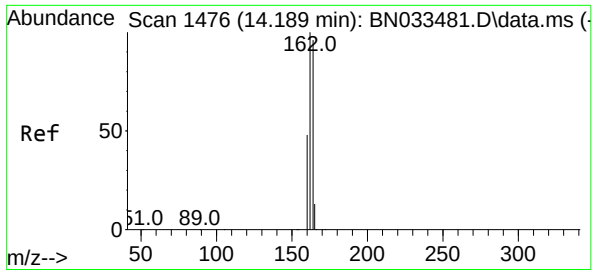
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#12
2-Methylnaphthalene
Concen: 0.038 ng
RT: 11.979 min Scan# 1162
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

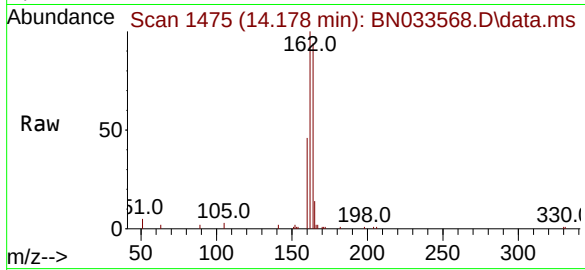
Tgt Ion:142 Resp: 1314
Ion Ratio Lower Upper
142 100
141 91.4 71.7 107.5
115 50.9 29.4 44.2#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1475
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

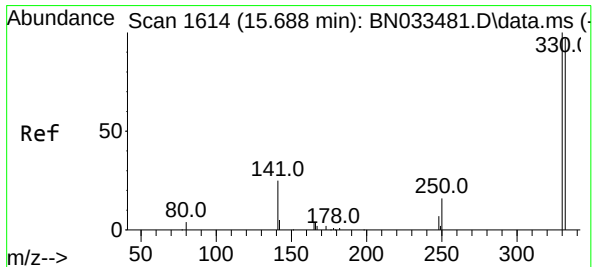
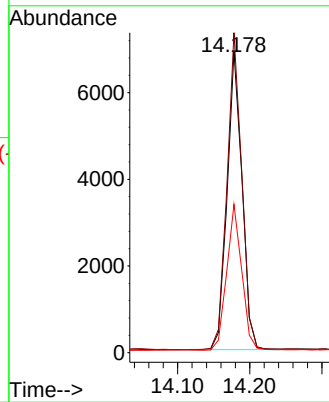
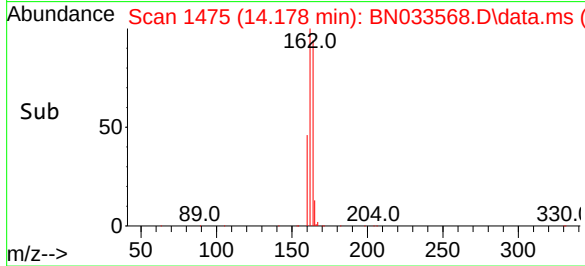
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion:164 Resp: 984
Ion Ratio Lower Upper
164 100
162 106.3 83.5 125.3
160 49.3 40.2 60.4

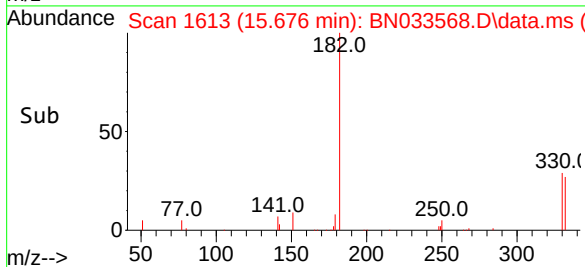
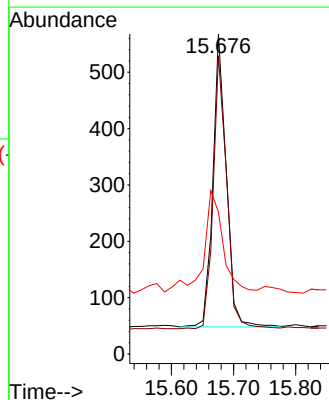
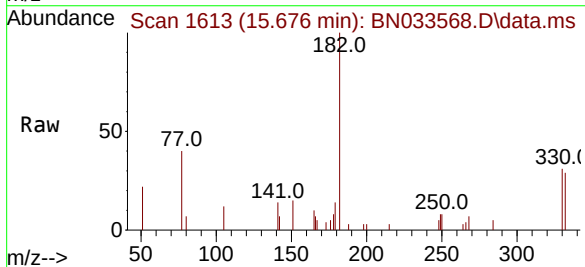
Manual Integrations
APPROVED

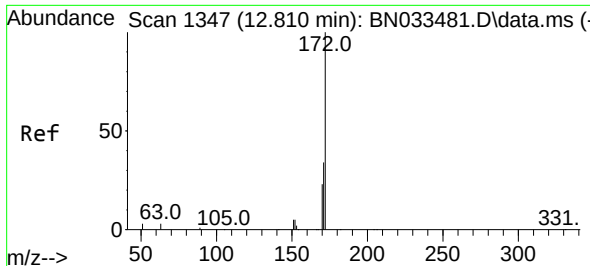
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#14
2,4,6-Tribromophenol
Concen: 0.147 ng
RT: 15.676 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

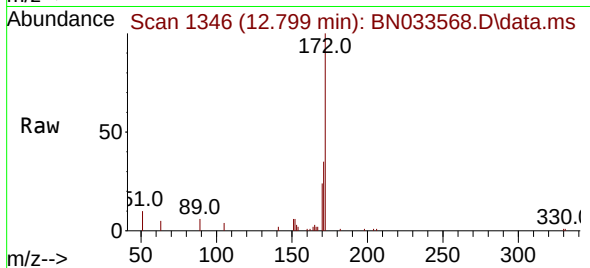
Tgt Ion:330 Resp: 780
Ion Ratio Lower Upper
330 100
332 93.6 77.5 116.3
141 44.9 33.9 50.9





#15
2-Fluorobiphenyl
Concen: 0.153 ng
RT: 12.799 min Scan# 1149
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

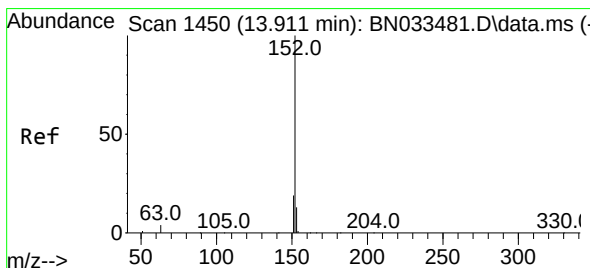
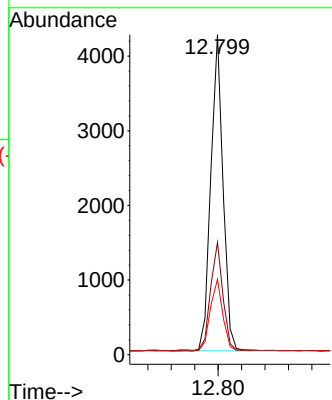
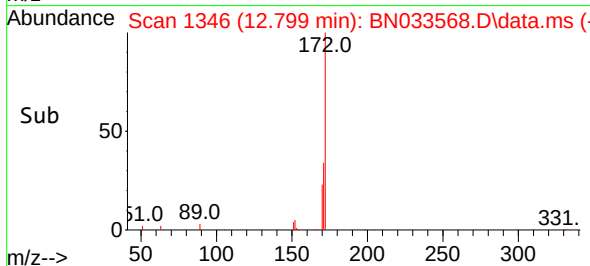
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion:172 Resp: 6144
Ion Ratio Lower Upper
172 100
171 35.1 27.7 41.5
170 23.5 18.3 27.5

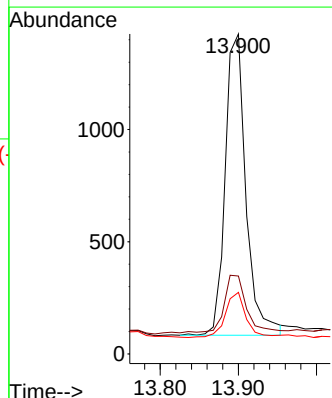
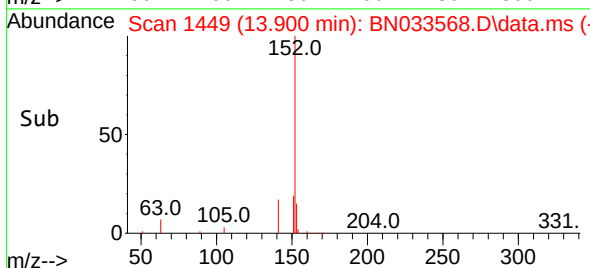
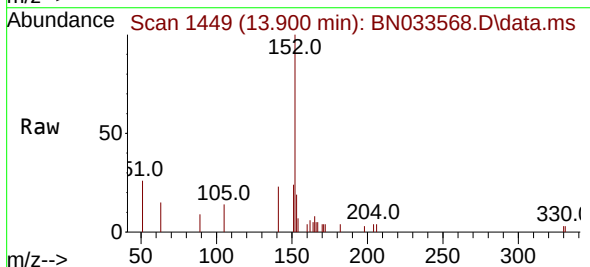
Manual Integrations
APPROVED

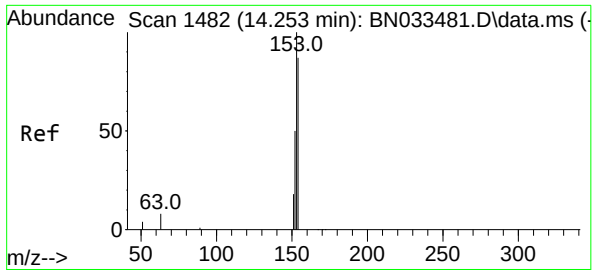
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#16
Acenaphthylene
Concen: 0.057 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

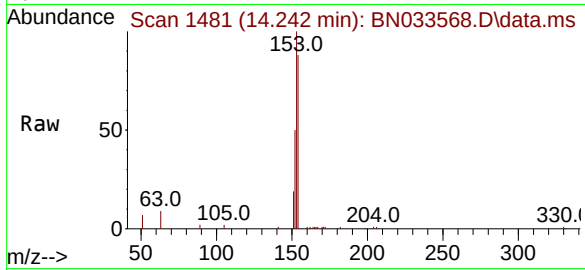
Tgt Ion:152 Resp: 2481
Ion Ratio Lower Upper
152 100
151 20.4 15.7 23.5
153 14.9 10.3 15.5





#17
Acenaphthene
Concen: 0.423 ng
RT: 14.242 min Scan# 1481
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

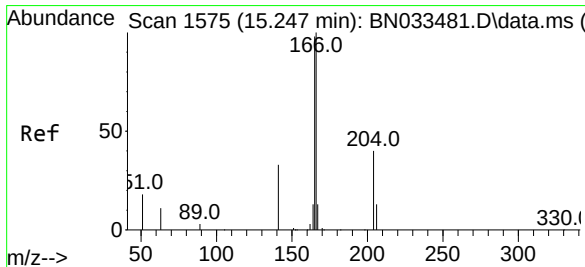
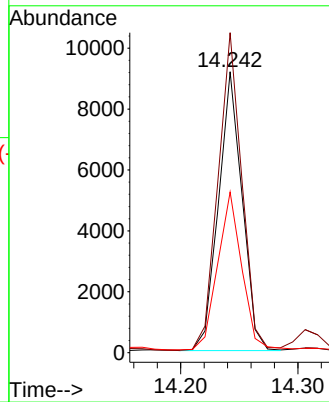
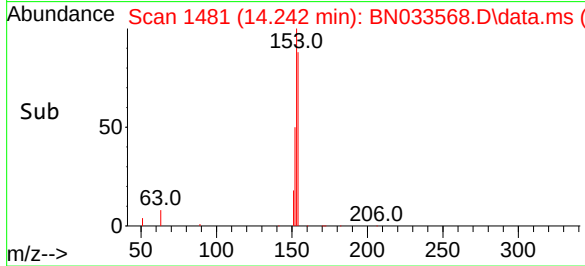
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion:154 Resp: 12835
Ion Ratio Lower Upper
154 100
153 114.3 89.0 133.6
152 57.6 45.2 67.8

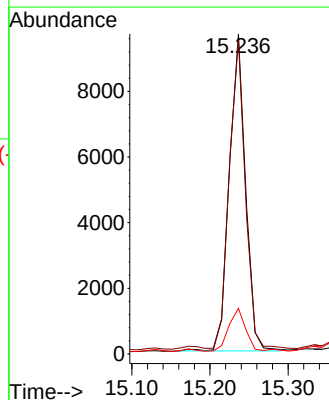
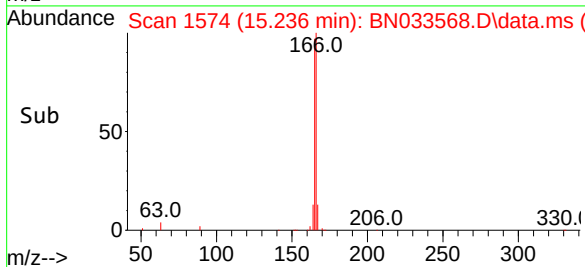
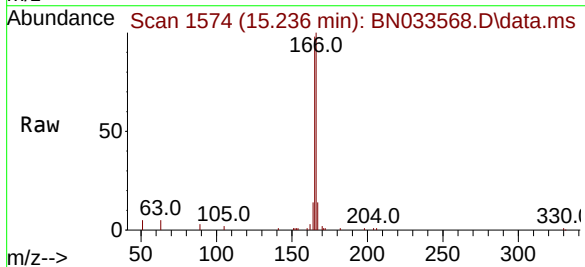
Manual Integrations
APPROVED

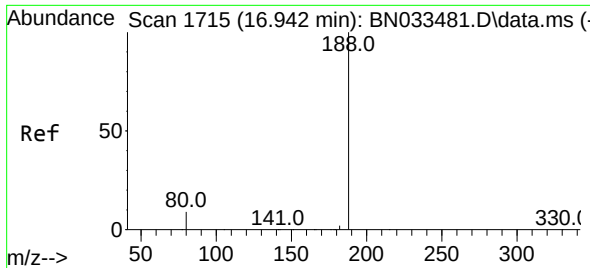
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#18
Fluorene
Concen: 0.364 ng
RT: 15.236 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

Tgt Ion:166 Resp: 13939
Ion Ratio Lower Upper
166 100
165 95.8 78.2 117.4
167 14.4 10.6 16.0





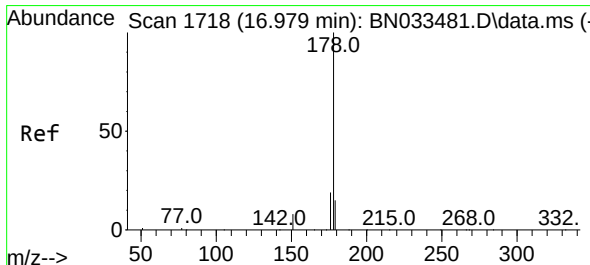
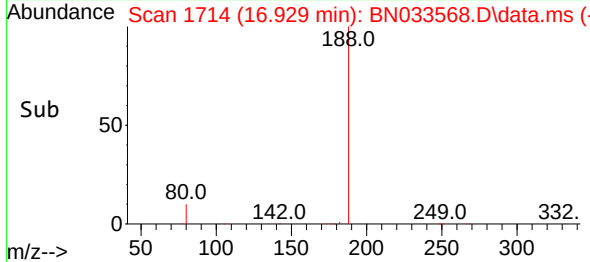
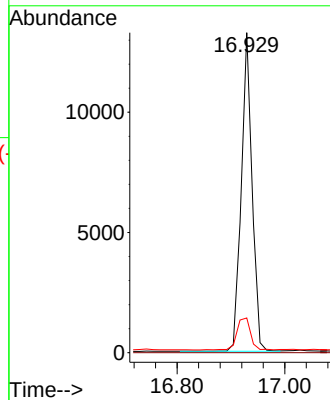
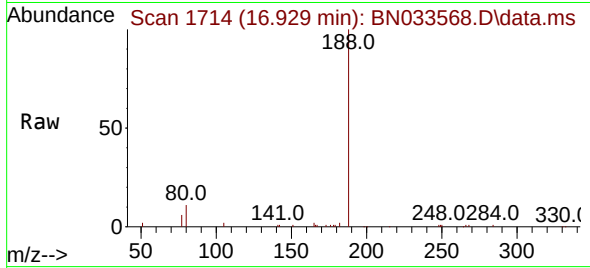
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1715
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924

Tgt Ion:188 Resp: 1836
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.8 7.8 11.8

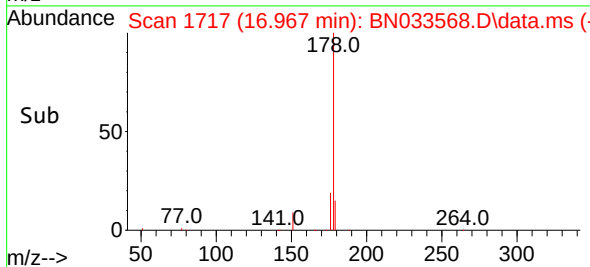
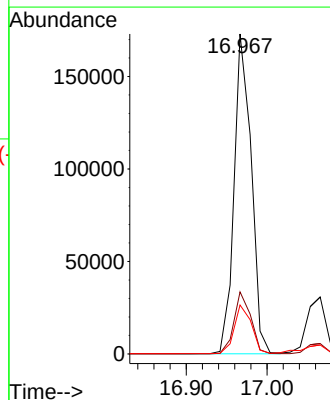
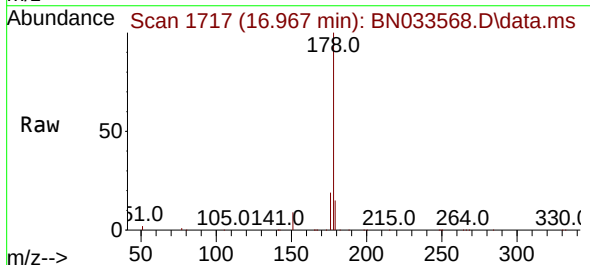
Manual Integrations
APPROVED

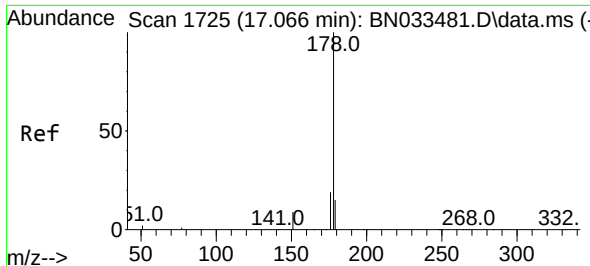
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#25
Phenanthrene
Concen: 4.999 ng
RT: 16.967 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

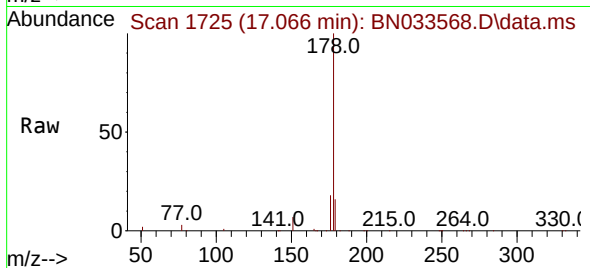
Tgt Ion:178 Resp: 255438
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.3 12.3 18.5





#26
Anthracene
Concen: 1.078 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

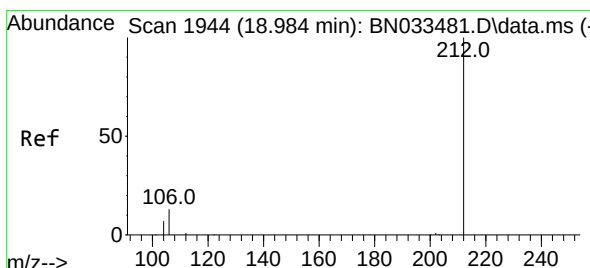
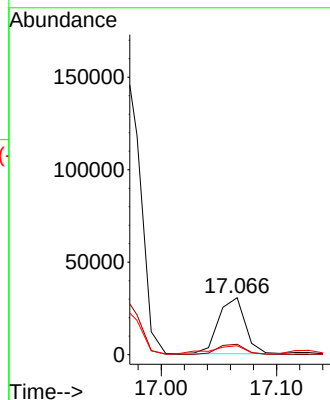
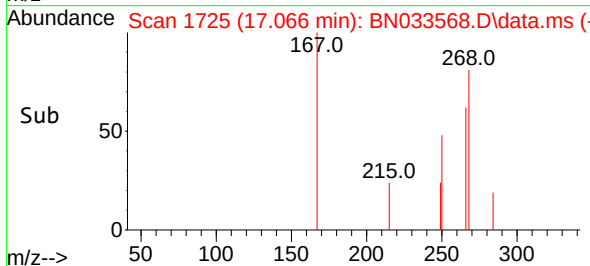
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion:178 Resp: 48729
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 19.5 12.4 18.6

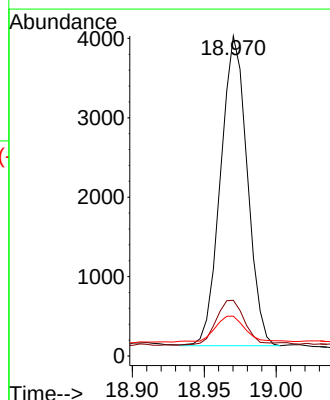
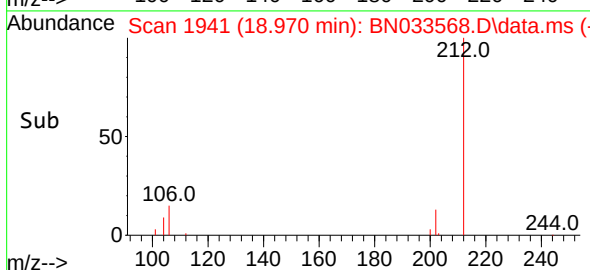
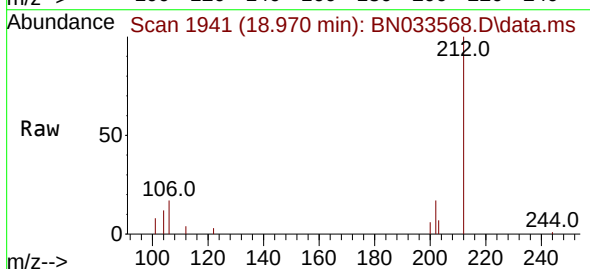
Manual Integrations
APPROVED

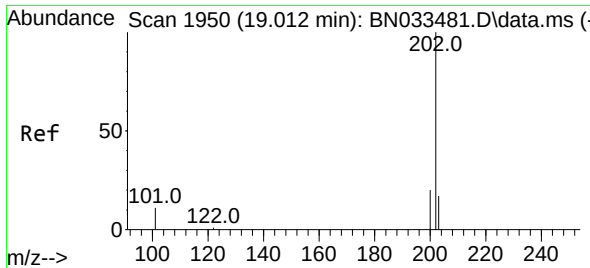
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#27
Fluoranthene-d10
Concen: 0.114 ng
RT: 18.970 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

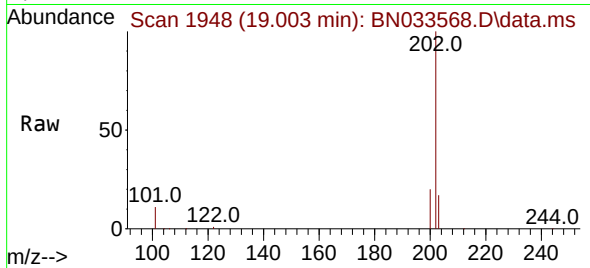
Tgt Ion:212 Resp: 5035
Ion Ratio Lower Upper
212 100
106 16.0 12.3 18.5
104 10.8 7.0 10.4





#28
Fluoranthene
Concen: 9.008 ng
RT: 19.003 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

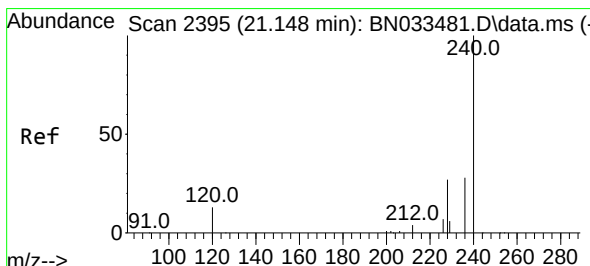
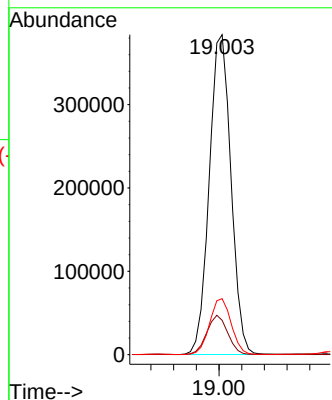
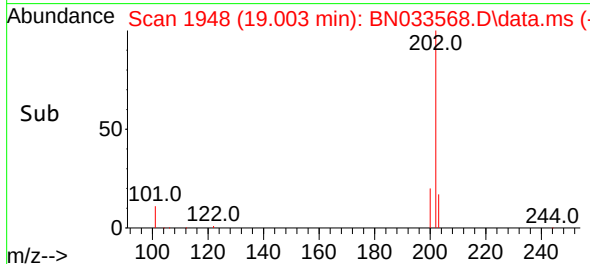
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion:202 Resp: 50861
Ion Ratio Lower Upper
202 100
101 11.8 9.5 14.3
203 17.3 13.8 20.6

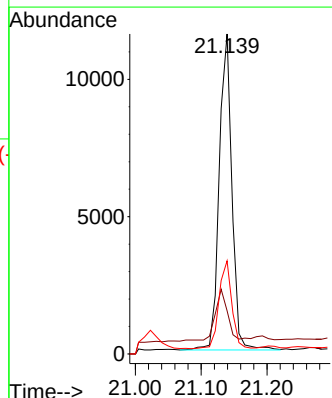
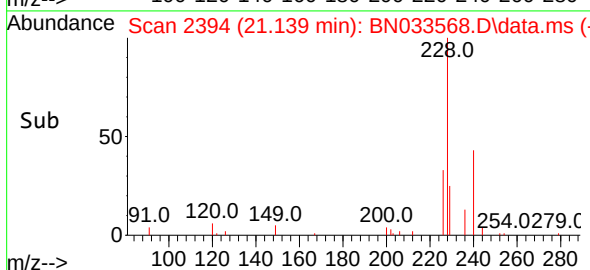
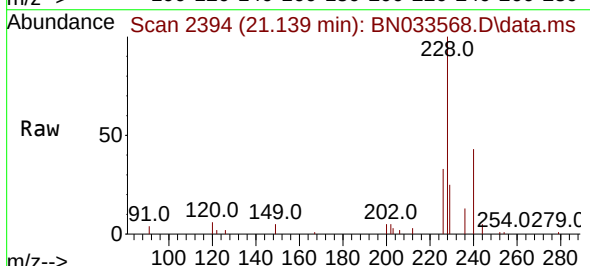
Manual Integrations
APPROVED

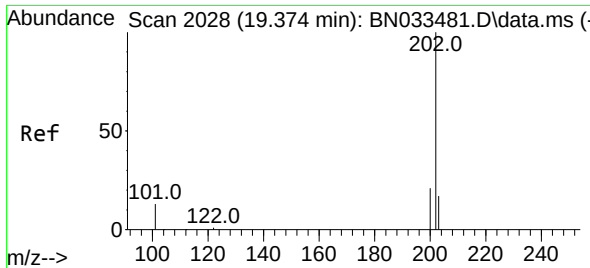
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

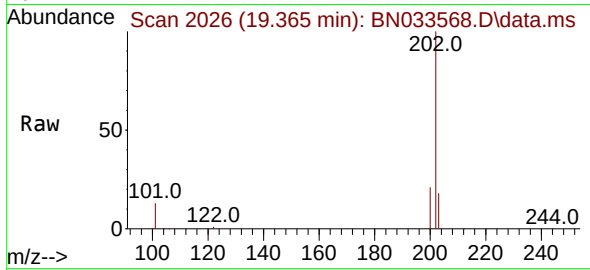
Tgt Ion:240 Resp: 15413
Ion Ratio Lower Upper
240 100
120 13.5 12.4 18.6
236 29.1 23.0 34.6





#30
Pyrene
Concen: 6.389 ng
RT: 19.365 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

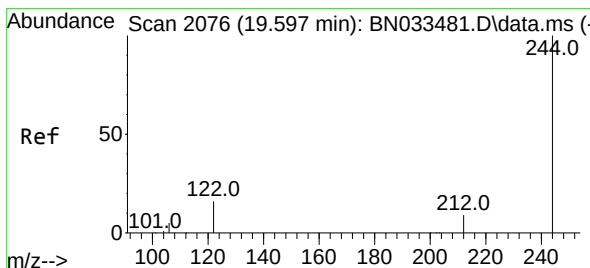
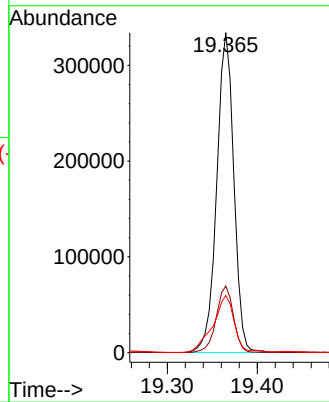
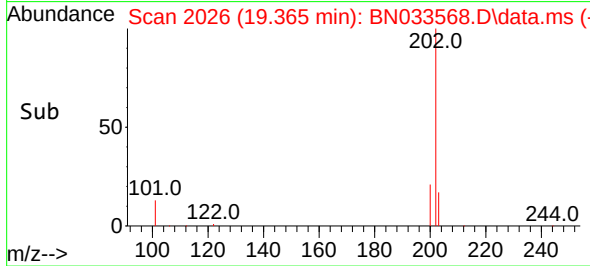
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion:202 Resp: 43950
Ion Ratio Lower Upper
202 100
200 21.1 16.6 24.8
203 22.3 14.2 21.4

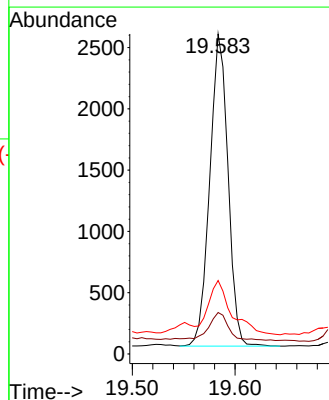
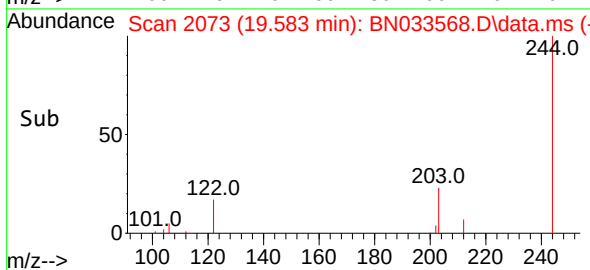
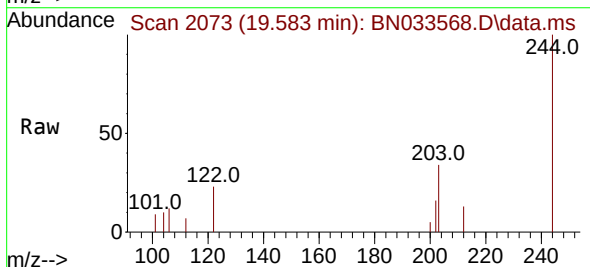
Manual Integrations
APPROVED

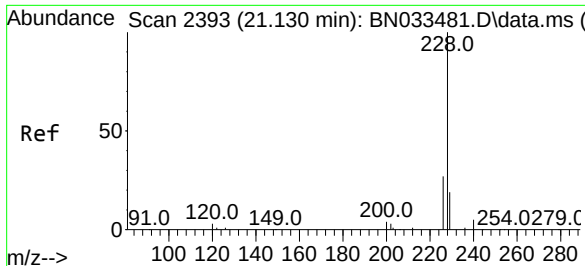
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#31
Terphenyl-d14
Concen: 0.089 ng
RT: 19.583 min Scan# 2073
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

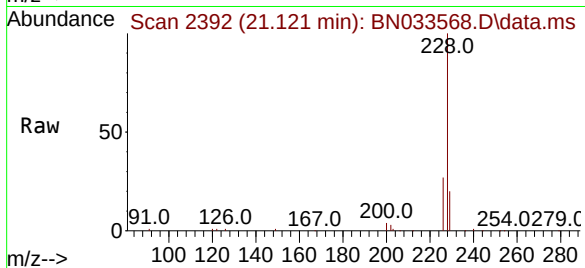
Tgt Ion:244 Resp: 3133
Ion Ratio Lower Upper
244 100
212 12.9 7.8 11.6#
122 23.0 13.3 19.9#





#32
Benzo(a)anthracene
Concen: 4.542 ng
RT: 21.121 min Scan# 21121
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

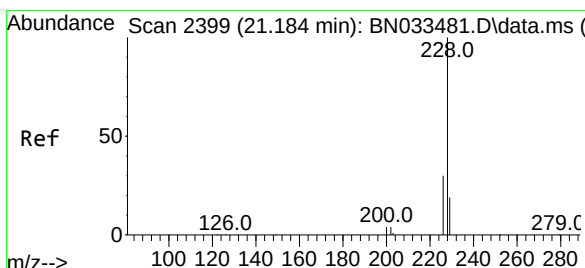
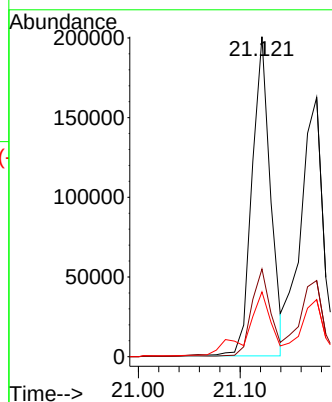
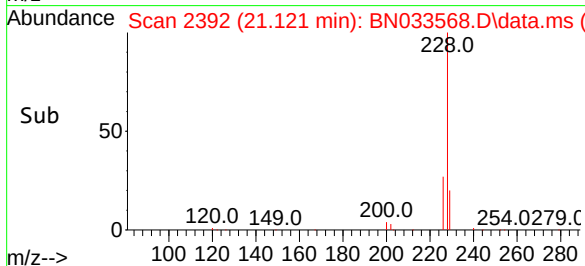
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion:228 Resp: 253080
Ion Ratio Lower Upper
228 100
226 27.4 21.8 32.6
229 20.2 15.8 23.6

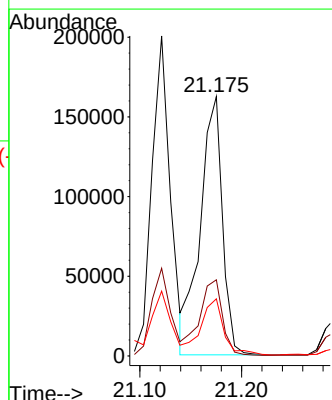
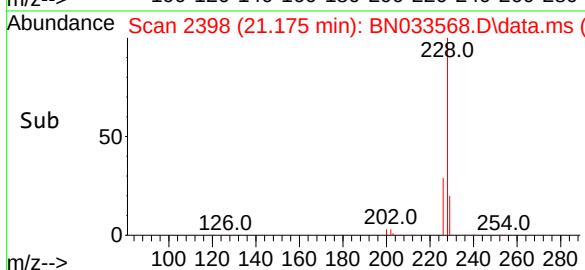
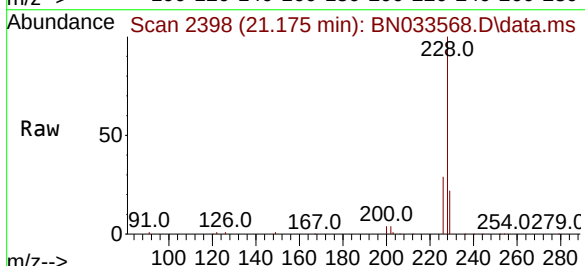
Manual Integrations
APPROVED

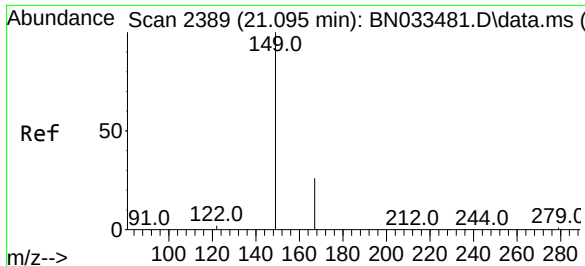
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#33
Chrysene
Concen: 4.426 ng
RT: 21.175 min Scan# 2398
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

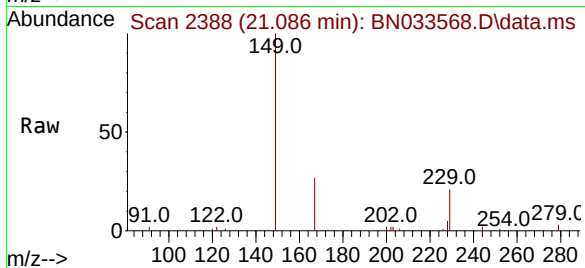
Tgt Ion:228 Resp: 245143
Ion Ratio Lower Upper
228 100
226 29.4 23.8 35.8
229 22.0 15.6 23.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 1.718 ng
RT: 21.086 min Scan# 2108
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

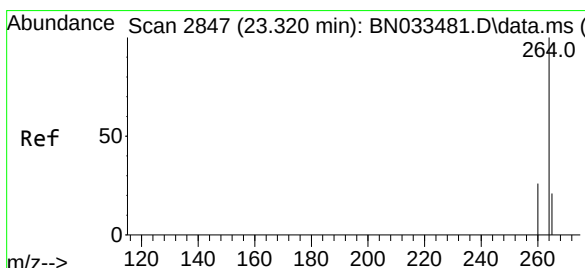
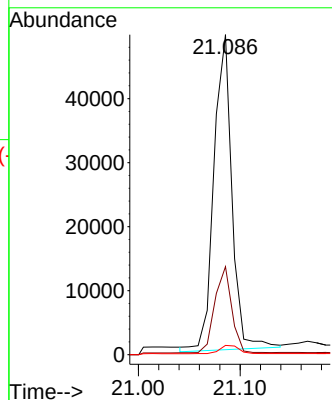
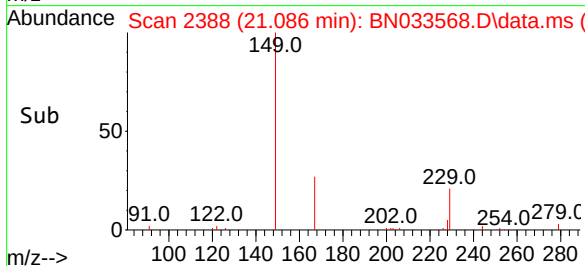
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924



Tgt Ion:149 Resp: 60608
Ion Ratio Lower Upper
149 100
167 28.3 21.5 32.3
279 3.1 2.2 3.2

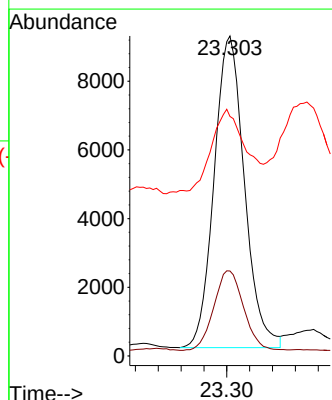
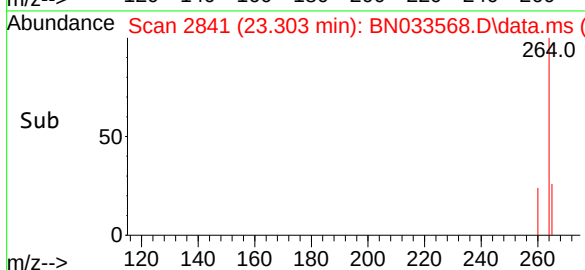
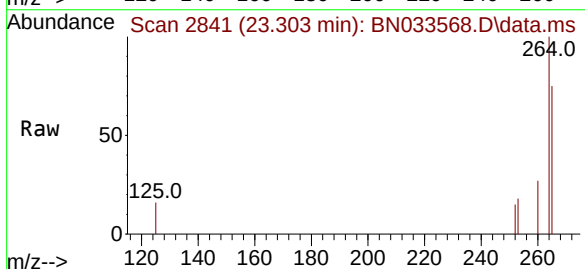
Manual Integrations
APPROVED

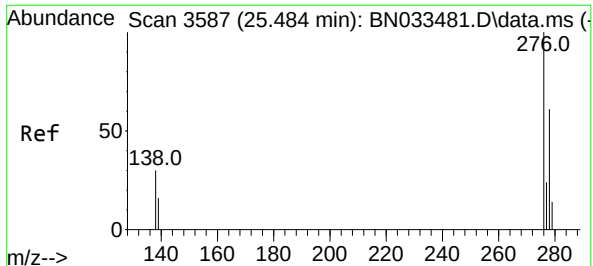
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2841
Delta R.T. -0.000 min
Lab File: BN033568.D
Acq: 23 Aug 2024 01:05

Tgt Ion:264 Resp: 16704
Ion Ratio Lower Upper
264 100
260 26.6 20.8 31.2
265 74.8 52.2 78.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 2.489 ng

RT: 25.452 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN033568.D

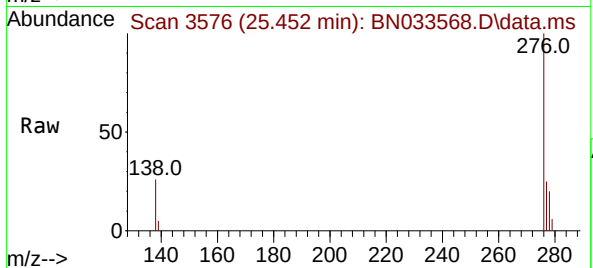
Acq: 23 Aug 2024 01:05

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924



Tgt Ion:276 Resp: 17258

Ion Ratio Lower Upper

276 100

138 25.7 24.4 36.6

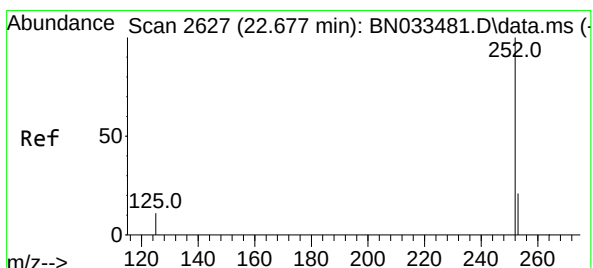
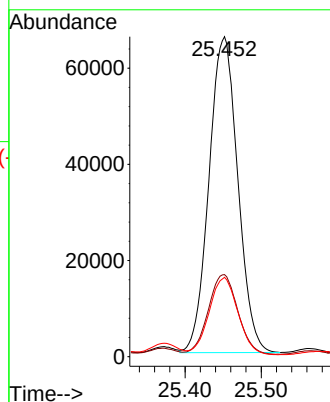
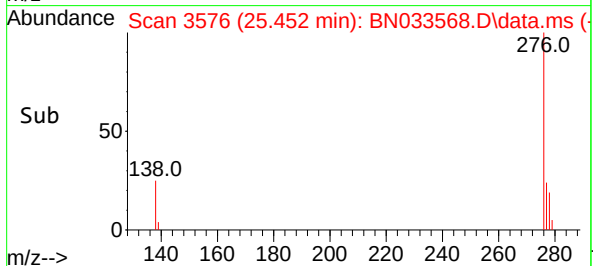
277 24.5 19.8 29.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#37

Benzo(b)fluoranthene

Concen: 5.810 ng

RT: 22.660 min Scan# 2621

Delta R.T. -0.000 min

Lab File: BN033568.D

Acq: 23 Aug 2024 01:05

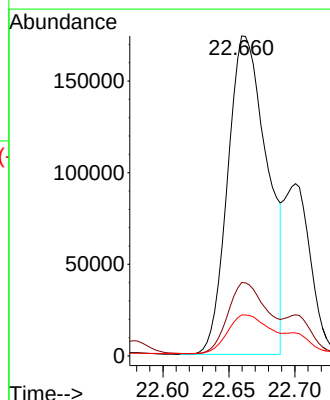
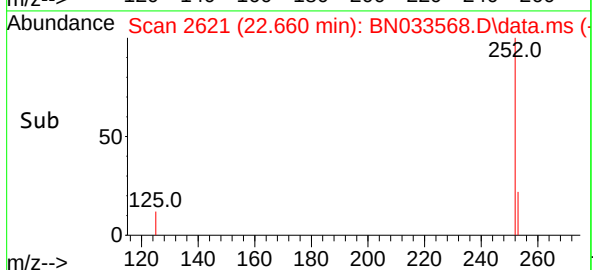
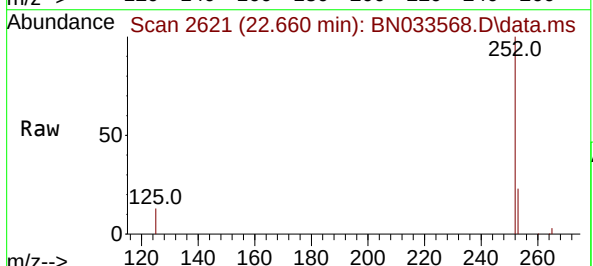
Tgt Ion:252 Resp: 362431

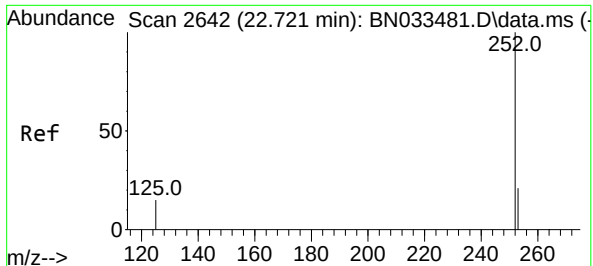
Ion Ratio Lower Upper

252 100

253 23.0 19.8 29.8

125 12.8 13.9 20.9#





#38

Benzo(k)fluoranthene

Concen: 2.157 ng m

RT: 22.701 min Scan# 20

Delta R.T. -0.003 min

Lab File: BN033568.D

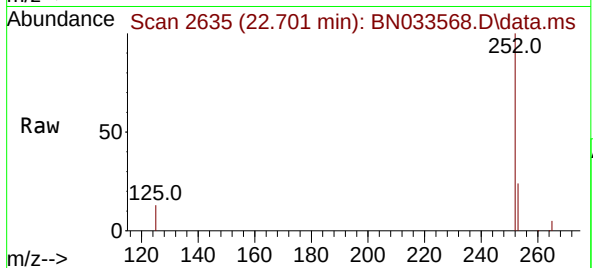
Acq: 23 Aug 2024 01:05

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924



Tgt Ion:252 Resp: 132444

Ion Ratio Lower Upper

252 100

253 23.8 19.8 29.8

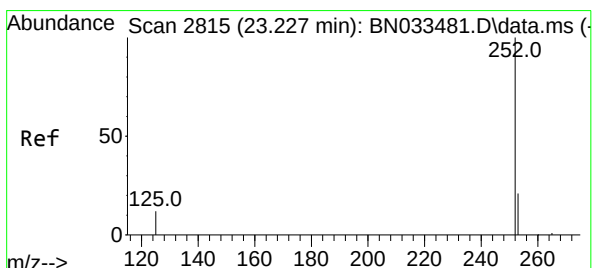
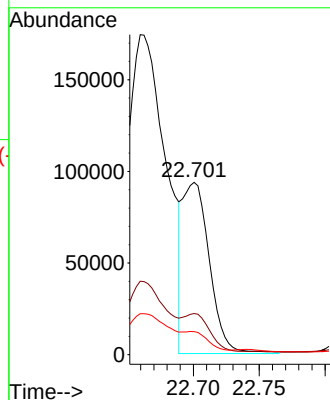
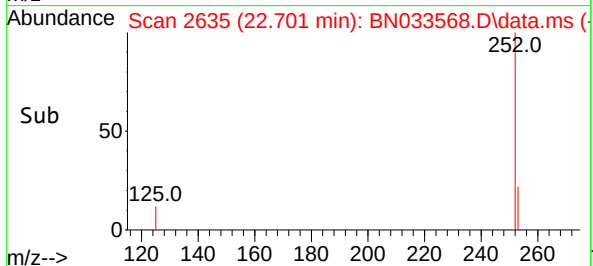
125 13.4 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#39

Benzo(a)pyrene

Concen: 4.973 ng m

RT: 23.209 min Scan# 2809

Delta R.T. -0.000 min

Lab File: BN033568.D

Acq: 23 Aug 2024 01:05

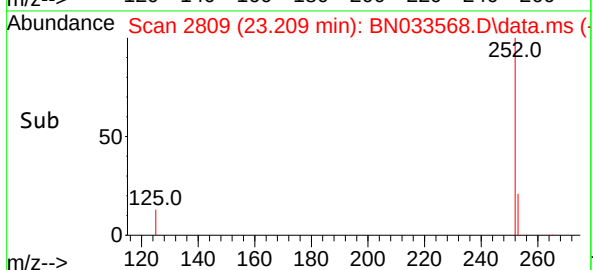
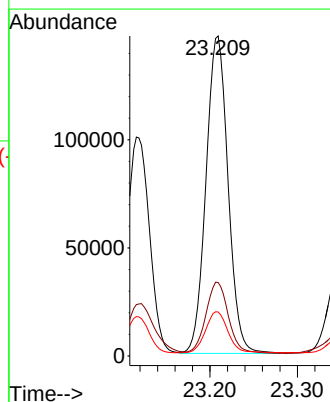
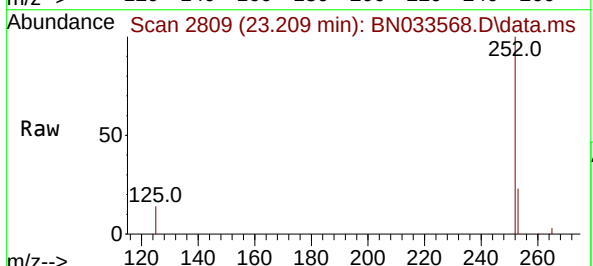
Tgt Ion:252 Resp: 256698

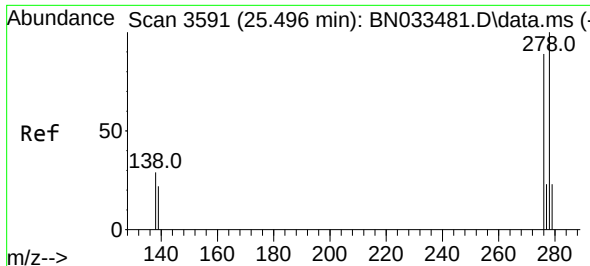
Ion Ratio Lower Upper

252 100

253 22.9 21.5 32.3

125 13.7 17.0 25.4#





#40

Dibenzo(a,h)anthracene

Concen: 0.741 ng

RT: 25.460 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN033568.D

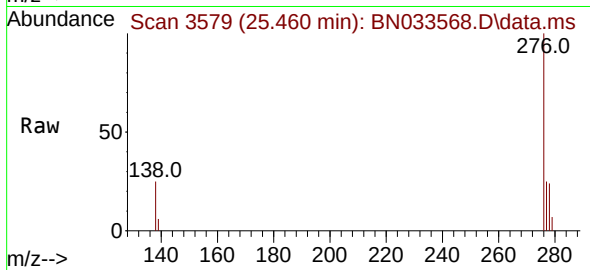
Acq: 23 Aug 2024 01:05

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924



Tgt Ion:278 Resp: 4108

Ion Ratio Lower Upper

278 100

139 22.5 19.1 28.7

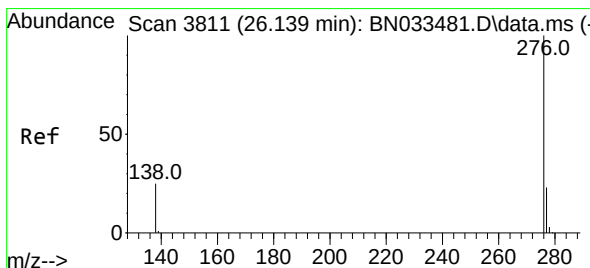
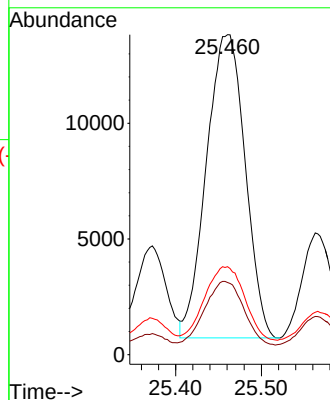
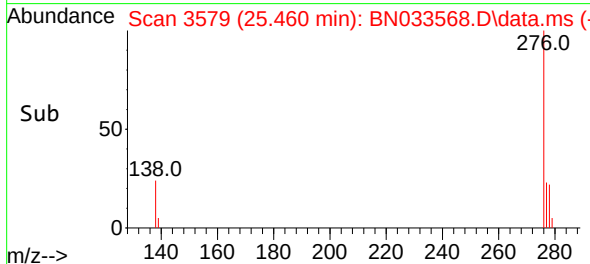
279 27.5 21.0 31.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#41

Benzo(g,h,i)perylene

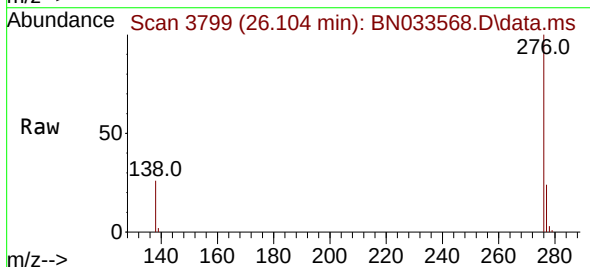
Concen: 2.863 ng

RT: 26.104 min Scan# 3799

Delta R.T. -0.000 min

Lab File: BN033568.D

Acq: 23 Aug 2024 01:05



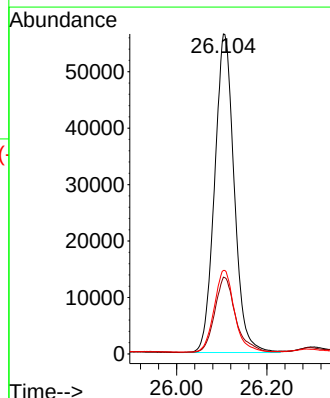
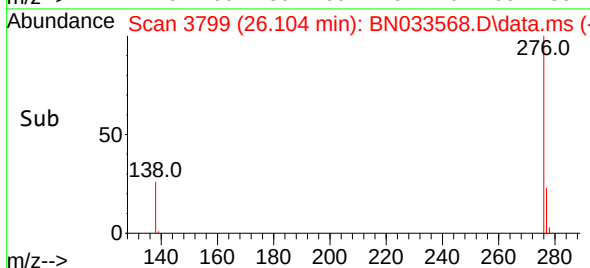
Tgt Ion:276 Resp: 169795

Ion Ratio Lower Upper

276 100

277 24.0 19.7 29.5

138 26.1 21.8 32.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924DL	SDG No.:	P3671
Lab Sample ID:	P3671-06DL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	78.2
Sample Wt/Vol:	30.07 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033595.D	5	08/21/24 09:38	08/23/24 18:23	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	4.40	UD	4.40	21.1	ug/Kg
91-57-6	2-Methylnaphthalene	5.10	UD	5.10	21.1	ug/Kg
208-96-8	Acenaphthylene	4.00	UD	4.00	21.1	ug/Kg
83-32-9	Acenaphthene	15.9	JD	3.50	21.1	ug/Kg
86-73-7	Fluorene	13.6	JD	3.80	21.1	ug/Kg
85-01-8	Phenanthrene	180	D	4.00	21.1	ug/Kg
120-12-7	Anthracene	38.9	D	5.00	21.1	ug/Kg
206-44-0	Fluoranthene	340	D	4.30	21.1	ug/Kg
129-00-0	Pyrene	240	D	6.10	21.1	ug/Kg
56-55-3	Benzo(a)anthracene	180	D	4.80	21.1	ug/Kg
218-01-9	Chrysene	160	D	5.50	21.1	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	D	7.60	21.1	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.1	D	6.30	21.1	ug/Kg
50-32-8	Benzo(a)pyrene	180	D	10.6	21.1	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	93.1	D	8.00	21.1	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	28.1	D	7.50	21.1	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	D	7.30	21.1	ug/Kg
123-91-1	1,4-Dioxane	14.2	UD	14.2	42.1	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.14		30 (17) - 150 (161)	35%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.11	*	30 (23) - 150 (138)	26%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.18		30 (33) - 130 (121)	45%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.14		30 (32) - 130 (121)	34%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.090	*	30 (21) - 130 (130)	23%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8740	7.545			
1146-65-2	Naphthalene-d8	22800	10.304			
15067-26-2	Acenaphthene-d10	10800	14.178			
1517-22-2	Phenanthrene-d10	20600	16.929			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924DL	SDG No.:	P3671
Lab Sample ID:	P3671-06DL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	78.2
Sample Wt/Vol:	30.07 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033595.D	5	08/21/24 09:38	08/23/24 18:23	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	17200	21.139			
1520-96-3	Perylene-d12	19100	23.306			

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\BN082324\
Data File : BN033595.D
Acq On : 23 Aug 2024 18:23
Operator : MA/JU
Sample : P3671-06DL 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL

Quant Time: Aug 24 02:18:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	8740	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	22823	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	10830	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	20585	0.400	ng	0.00
29) Chrysene-d12	21.139	240	17216	0.400	ng	0.00
35) Perylene-d12	23.306	264	19106	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	804	0.029	ng	0.00
5) Phenol-d6	6.736	99	958	0.029	ng	0.00
8) Nitrobenzene-d5	8.681	82	673	0.036	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	920	0.028	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	191	0.033	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	1201	0.027	ng	0.00
27) Fluoranthene-d10	18.975	212	1056	0.021	ng	0.00
31) Terphenyl-d14	19.584	244	698	0.018	ng	0.00
Target Compounds						
17) Acenaphthene	14.242	154	2510	0.075	ng	98
18) Fluorene	15.236	166	2709	0.064	ng	98
25) Phenanthrene	16.967	178	48921	0.854	ng	100
26) Anthracene	17.066	178	9296	0.183	ng	# 95
28) Fluoranthene	19.003	202	101100	1.598	ng	99
30) Pyrene	19.365	202	86720	1.129	ng	# 95
32) Benzo(a)anthracene	21.122	228	53076	0.853	ng	98
33) Chrysene	21.175	228	45494	0.735	ng	97
34) Bis(2-ethylhexyl)phtha...	21.086	149	15195m	0.386	ng	
36) Indeno(1,2,3-cd)pyrene	25.455	276	34740	0.438	ng	# 93
37) Benzo(b)fluoranthene	22.666	252	71247	0.999	ng	98
38) Benzo(k)fluoranthene	22.704	252	27080m	0.386	ng	
39) Benzo(a)pyrene	23.212	252	50880	0.862	ng	95
40) Dibenzo(a,h)anthracene	25.464	278	8366	0.132	ng	# 72
41) Benzo(g,h,i)perylene	26.113	276	33549	0.495	ng	99

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

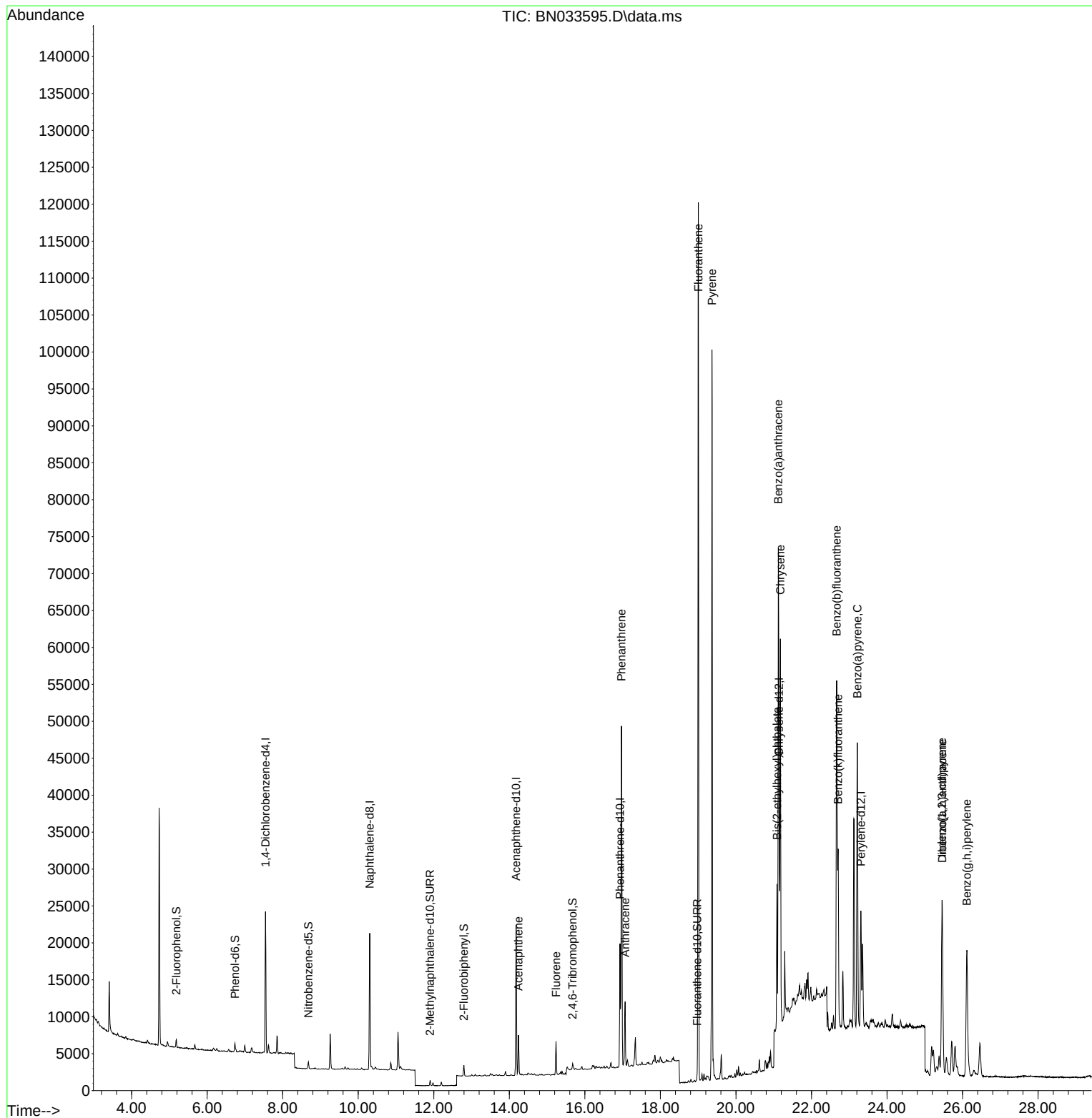
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033595.D
Acq On : 23 Aug 2024 18:23
Operator : MA/JU
Sample : P3671-06DL 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

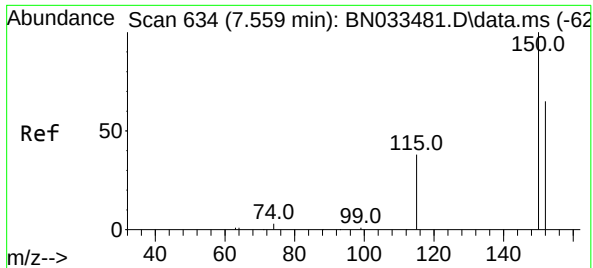
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL

Quant Time: Aug 24 02:18:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

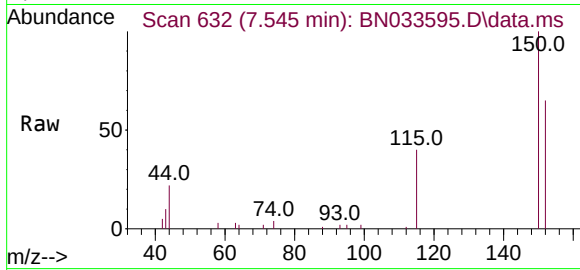
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

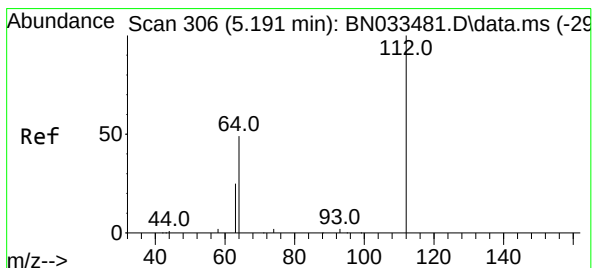
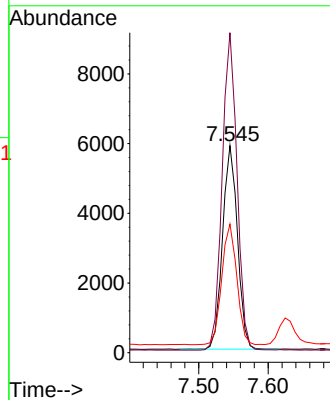
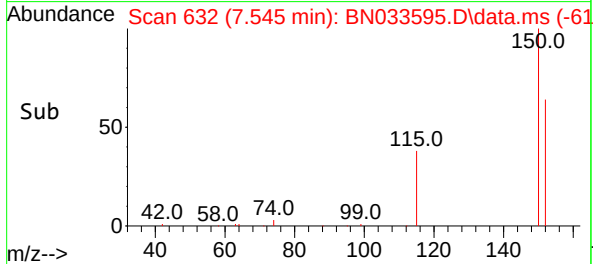
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



Tgt Ion:152 Resp: 8740
Ion Ratio Lower Upper
152 100
150 154.6 122.2 183.2
115 62.1 47.2 70.8

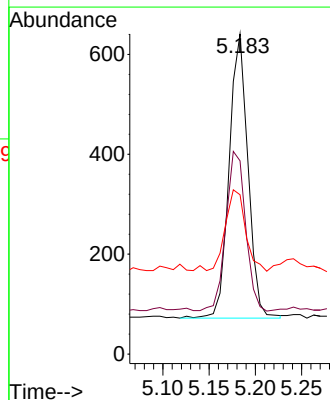
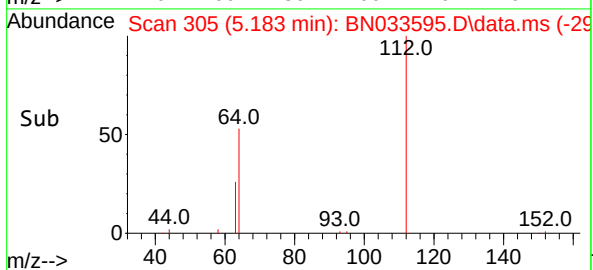
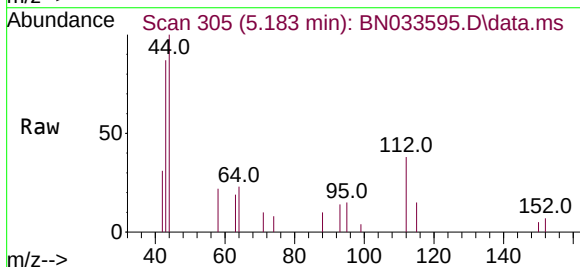
Manual Integrations
APPROVED

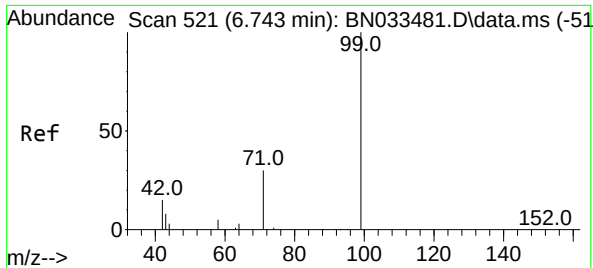
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#4
2-Fluorophenol
Concen: 0.029 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

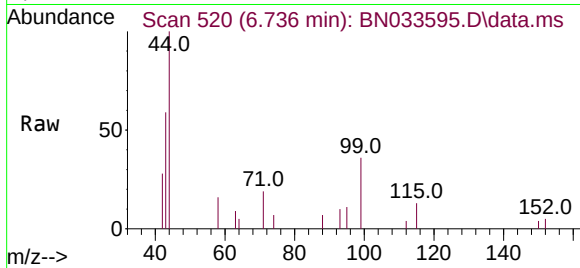
Tgt Ion:112 Resp: 804
Ion Ratio Lower Upper
112 100
64 58.3 47.1 70.7
63 31.0 24.9 37.3





#5
Phenol-d6
Concen: 0.029 ng
RT: 6.736 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

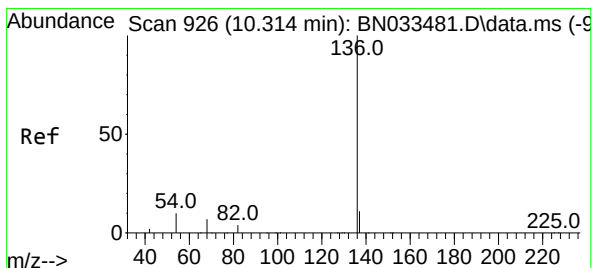
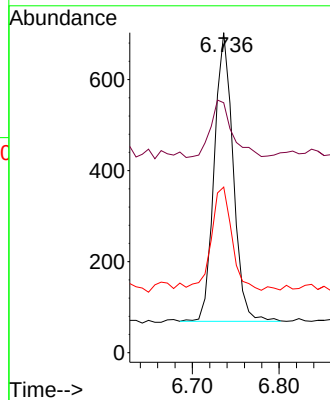
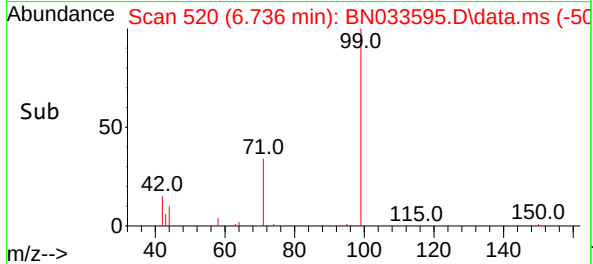
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



Tgt Ion: 99 Resp: 95
Ion Ratio Lower Upper
99 100
42 23.4 16.6 24.8
71 39.9 26.2 39.4

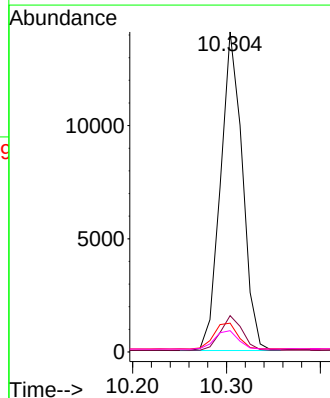
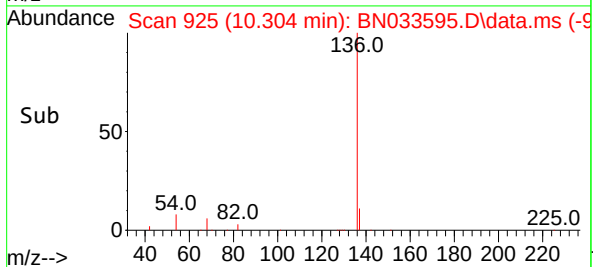
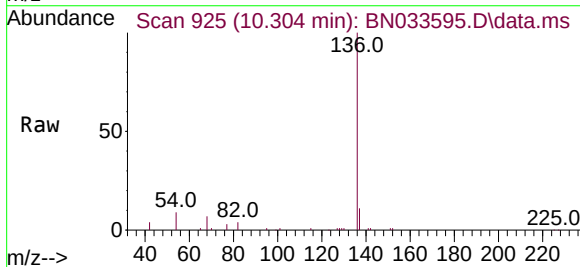
Manual Integrations
APPROVED

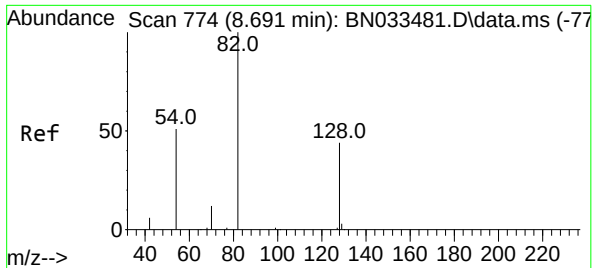
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

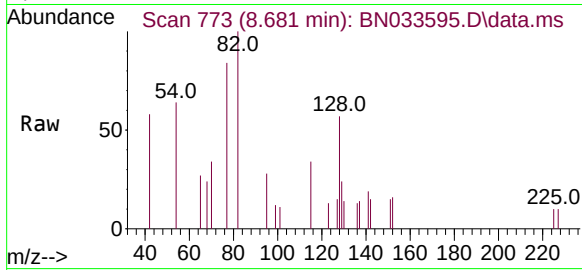
Tgt Ion:136 Resp: 22823
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 9.0 8.3 12.5
68 6.7 5.9 8.9





#8
Nitrobenzene-d5
Concen: 0.036 ng
RT: 8.681 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

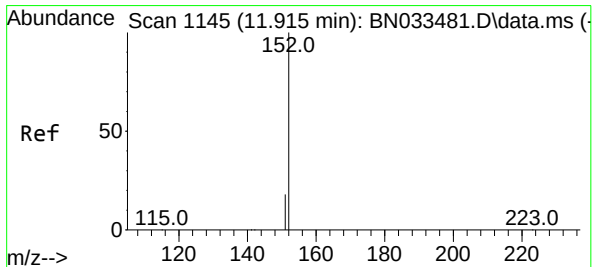
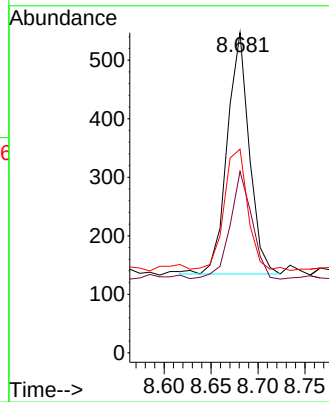
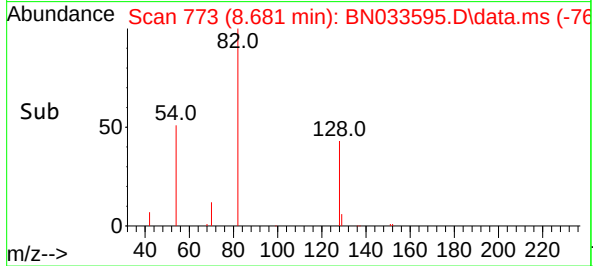
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



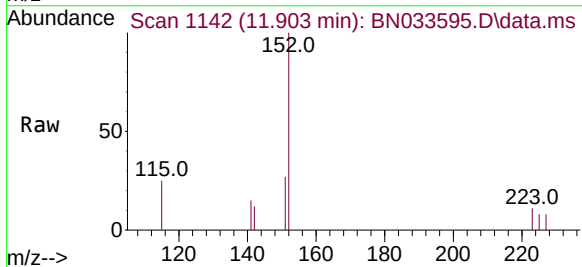
Tgt Ion: 82 Resp: 67
Ion Ratio Lower Upper
82 100
128 56.7 36.0 54.0
54 63.6 42.0 63.0

Manual Integrations
APPROVED

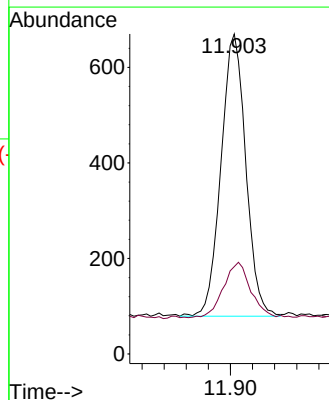
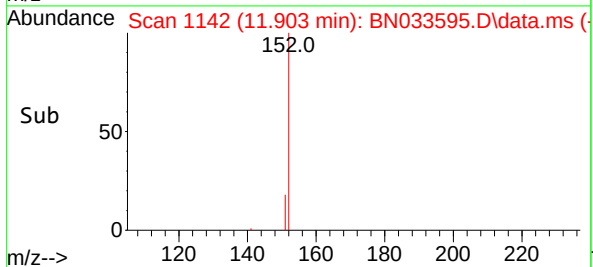
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

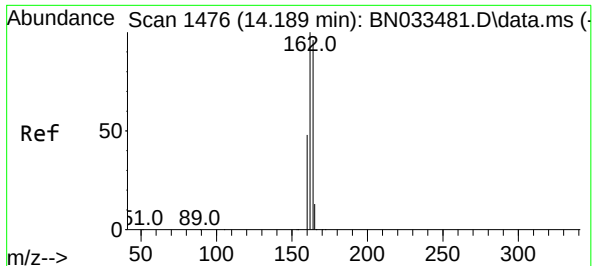


#11
2-Methylnaphthalene-d10
Concen: 0.028 ng
RT: 11.903 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23



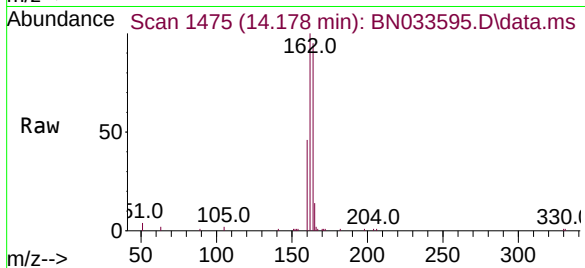
Tgt Ion:152 Resp: 920
Ion Ratio Lower Upper
152 100
151 22.1 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

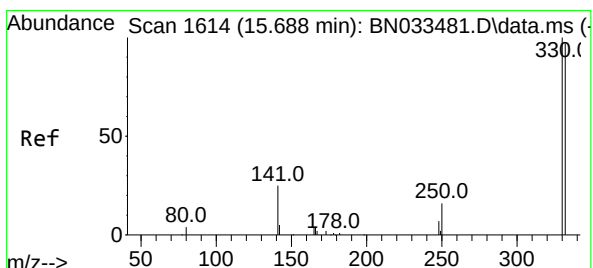
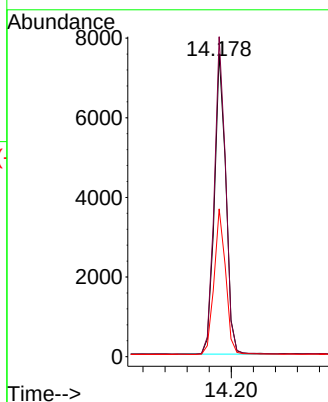
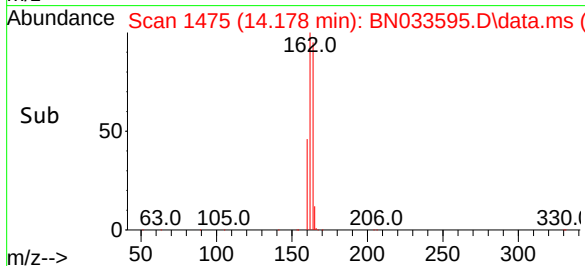
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



Tgt Ion:164 Resp: 10830
Ion Ratio Lower Upper
164 100
162 105.6 83.5 125.3
160 48.8 40.2 60.4

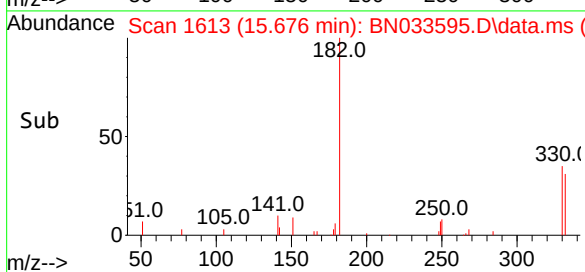
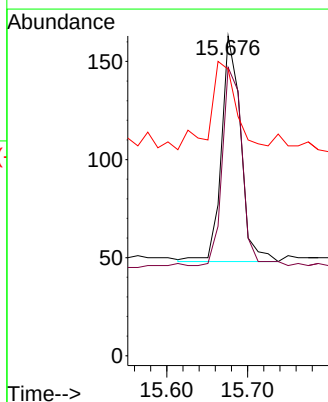
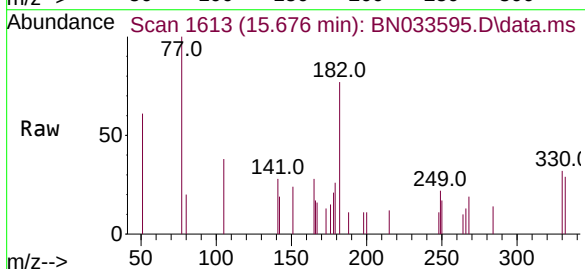
Manual Integrations
APPROVED

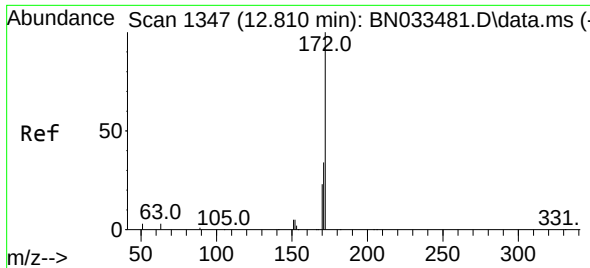
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#14
2,4,6-Tribromophenol
Concen: 0.033 ng
RT: 15.676 min Scan# 1613
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

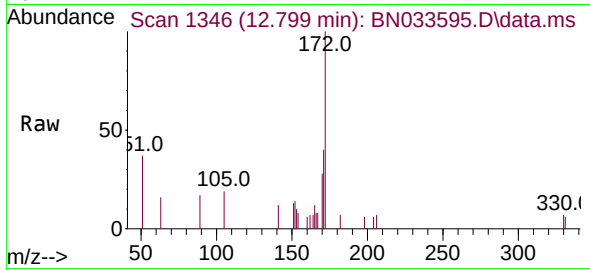
Tgt Ion:330 Resp: 191
Ion Ratio Lower Upper
330 100
332 90.6 77.5 116.3
141 52.4 33.9 50.9#





#15
2-Fluorobiphenyl
Concen: 0.027 ng
RT: 12.799 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

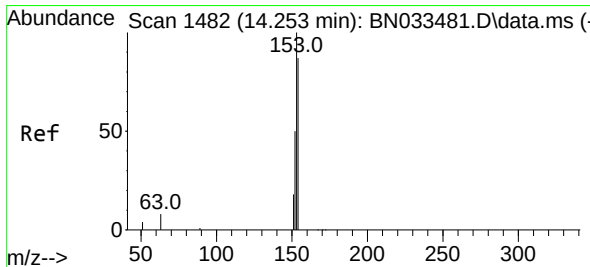
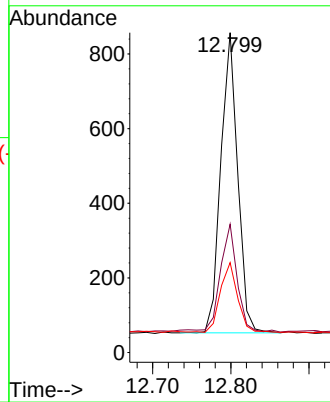
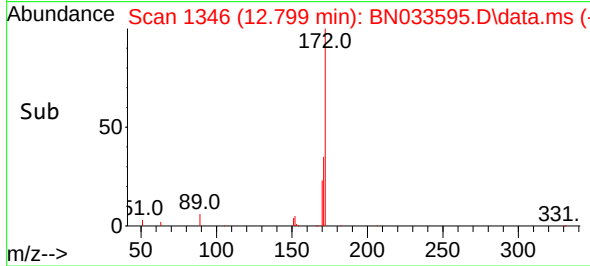
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



Tgt Ion:172 Resp: 120
Ion Ratio Lower Upper
172 100
171 40.1 27.7 41.5
170 28.1 18.3 27.5

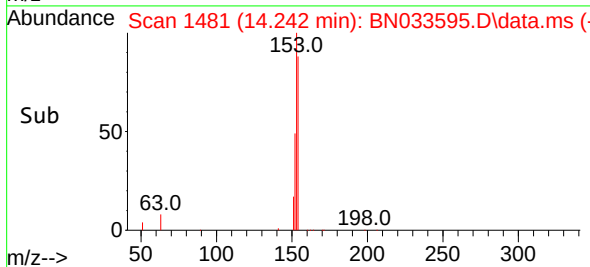
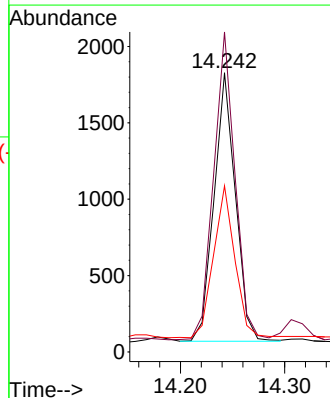
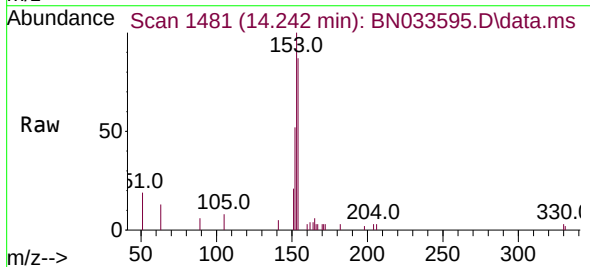
Manual Integrations
APPROVED

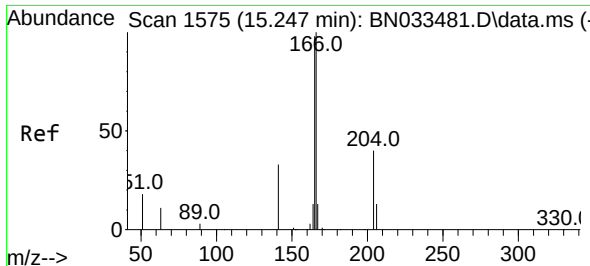
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#17
Acenaphthene
Concen: 0.075 ng
RT: 14.242 min Scan# 1481
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

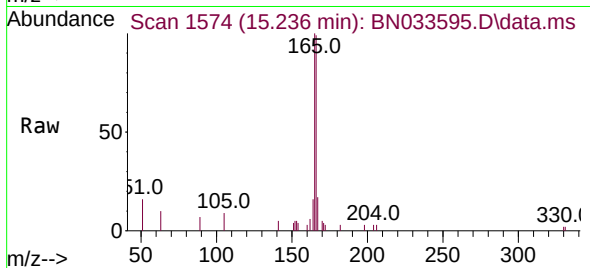
Tgt Ion:154 Resp: 2510
Ion Ratio Lower Upper
154 100
153 114.5 89.0 133.6
152 56.3 45.2 67.8





#18
Fluorene
Concen: 0.064 ng
RT: 15.236 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

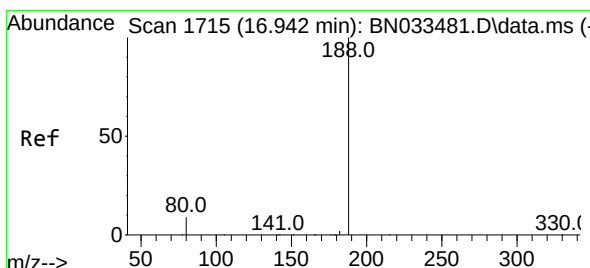
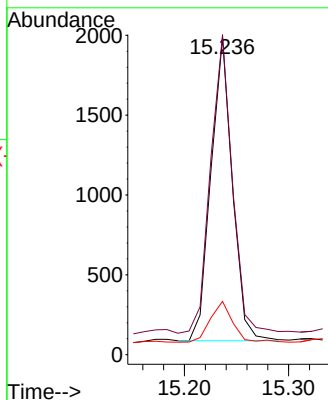
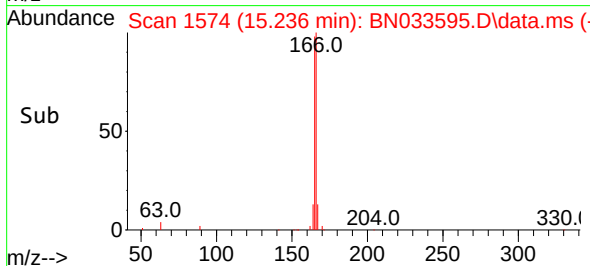
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



Tgt Ion:166 Resp: 2709
Ion Ratio Lower Upper
166 100
165 99.9 78.2 117.4
167 14.2 10.6 16.0

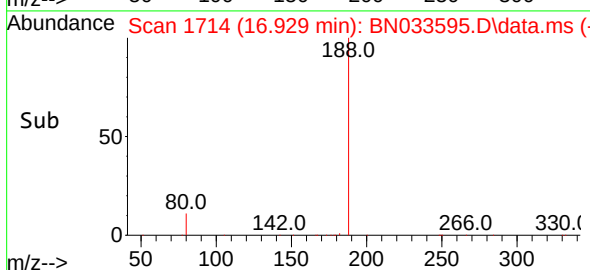
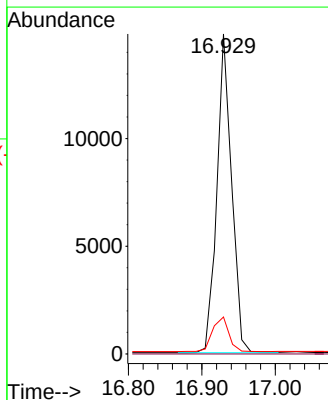
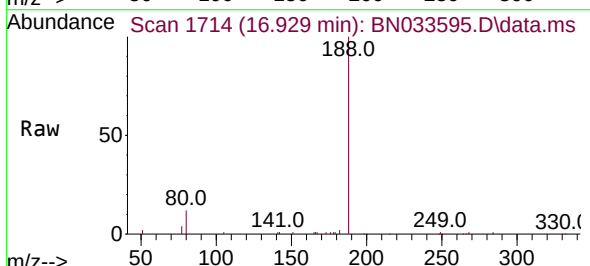
Manual Integrations
APPROVED

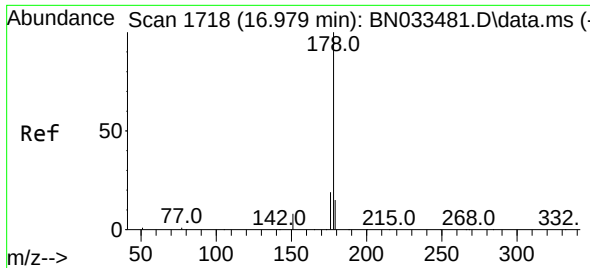
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

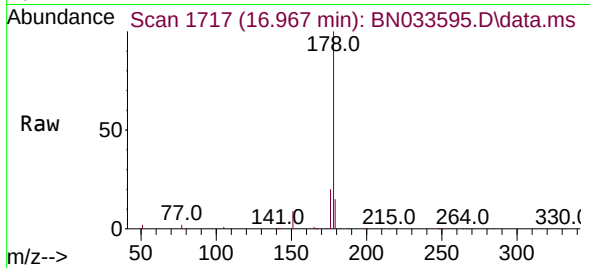
Tgt Ion:188 Resp: 20585
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.6 7.8 11.8





#25
Phenanthrene
Concen: 0.854 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

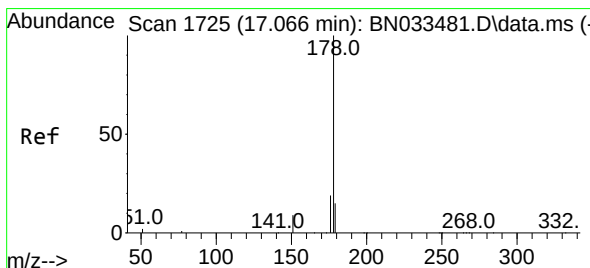
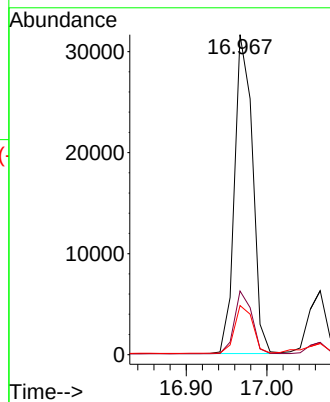
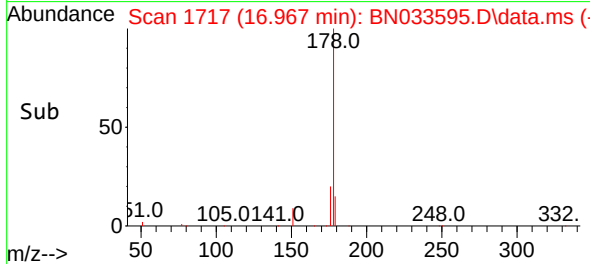
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



Tgt Ion:178 Resp: 4892
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.3 12.3 18.5

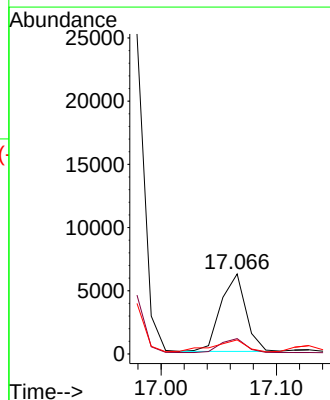
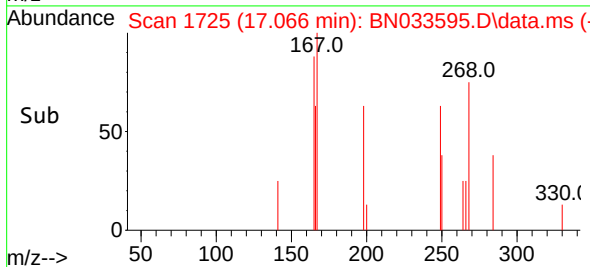
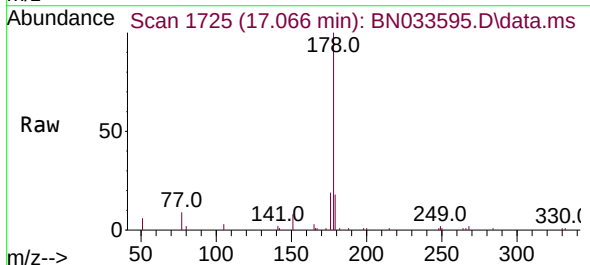
Manual Integrations
APPROVED

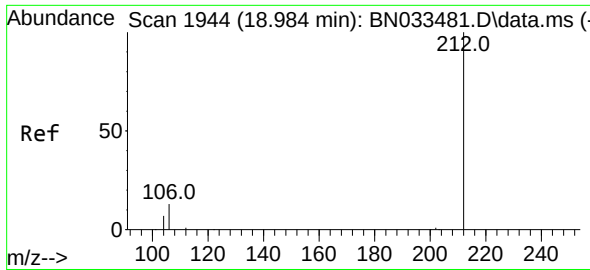
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#26
Anthracene
Concen: 0.183 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

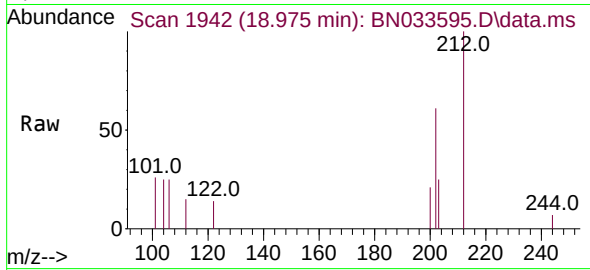
Tgt Ion:178 Resp: 9296
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 19.6 12.4 18.6#





#27
Fluoranthene-d10
Concen: 0.021 ng
RT: 18.975 min Scan# 1942
Delta R.T. 0.005 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

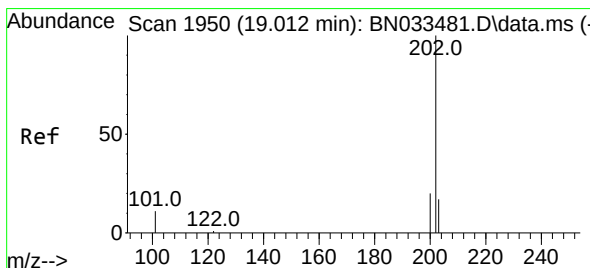
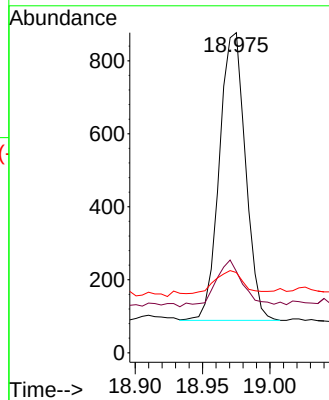
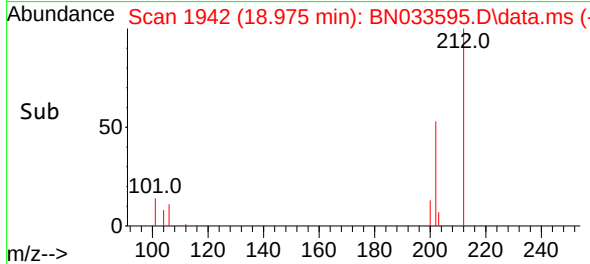
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



Tgt Ion:212 Resp: 1050
Ion Ratio Lower Upper
212 100
106 17.2 12.3 18.5
104 8.8 7.0 10.4

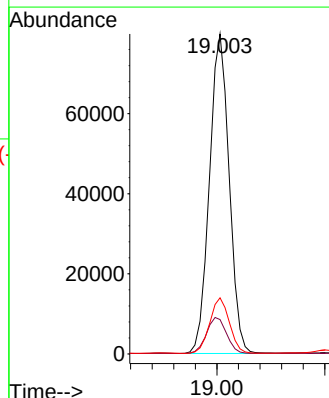
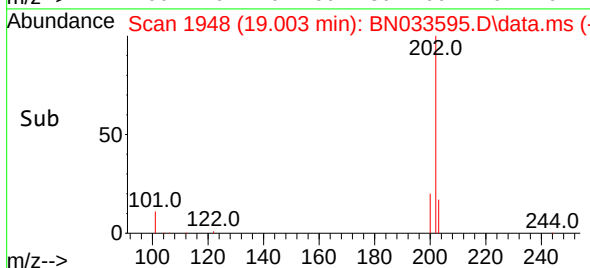
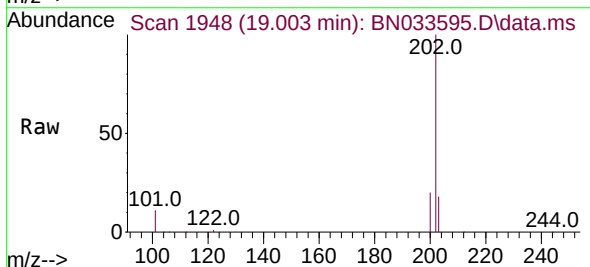
Manual Integrations
APPROVED

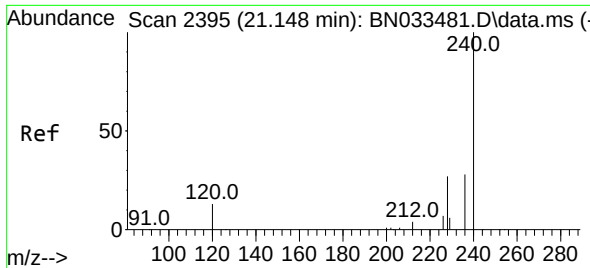
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#28
Fluoranthene
Concen: 1.598 ng
RT: 19.003 min Scan# 1948
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

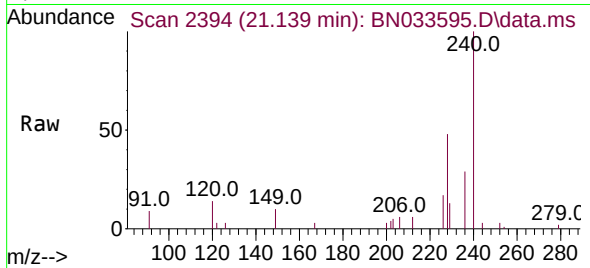
Tgt Ion:202 Resp: 101100
Ion Ratio Lower Upper
202 100
101 11.5 9.5 14.3
203 17.3 13.8 20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

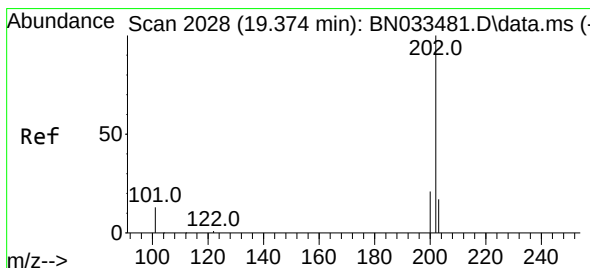
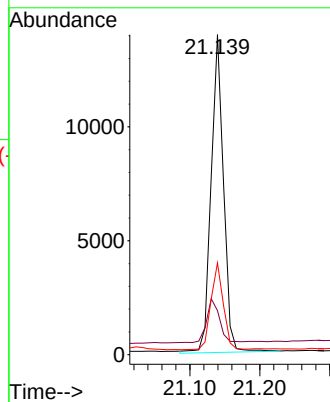
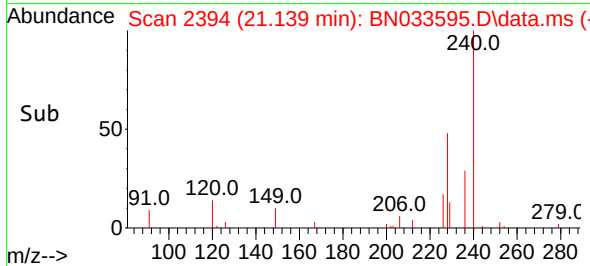
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



Tgt Ion:240 Resp: 17210
Ion Ratio Lower Upper
240 100
120 13.8 12.4 18.6
236 28.7 23.0 34.6

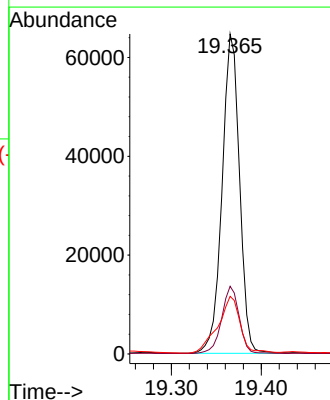
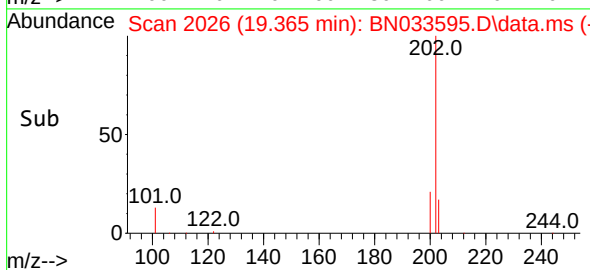
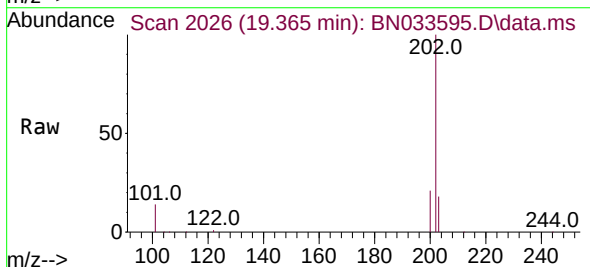
Manual Integrations
APPROVED

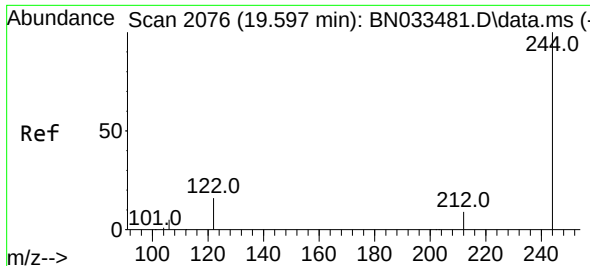
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#30
Pyrene
Concen: 1.129 ng
RT: 19.365 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

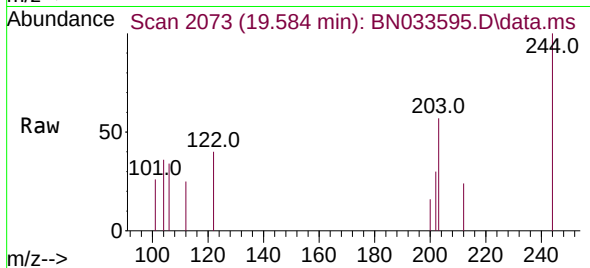
Tgt Ion:202 Resp: 86720
Ion Ratio Lower Upper
202 100
200 21.2 16.6 24.8
203 22.5 14.2 21.4#





#31
Terphenyl-d14
Concen: 0.018 ng
RT: 19.584 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

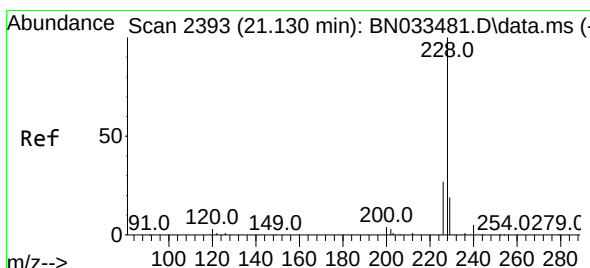
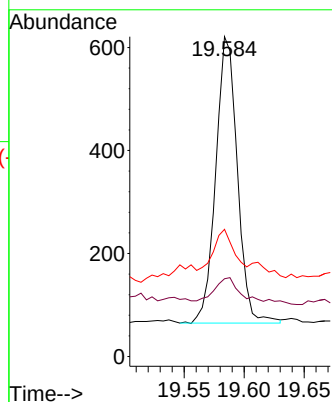
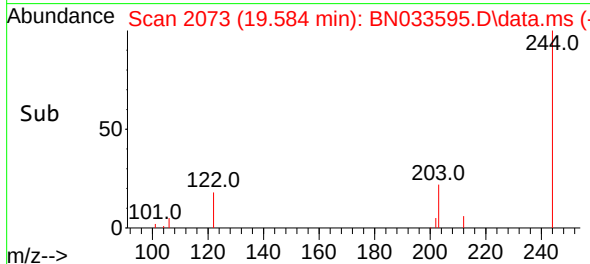
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



Tgt Ion:244 Resp: 698
Ion Ratio Lower Upper
244 100
212 24.3 7.8 11.6
122 39.8 13.3 19.9

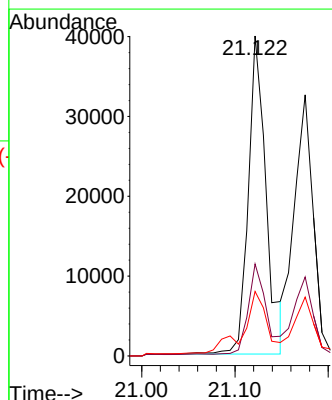
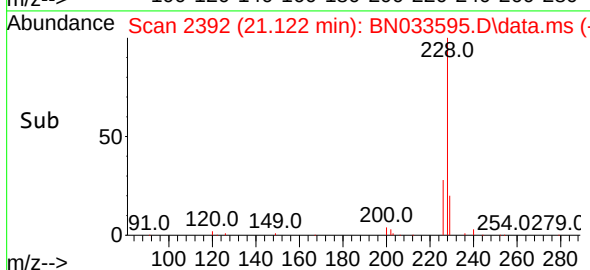
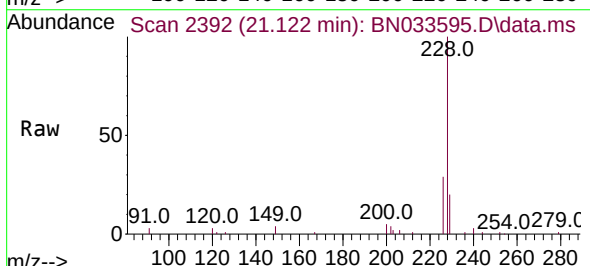
Manual Integrations
APPROVED

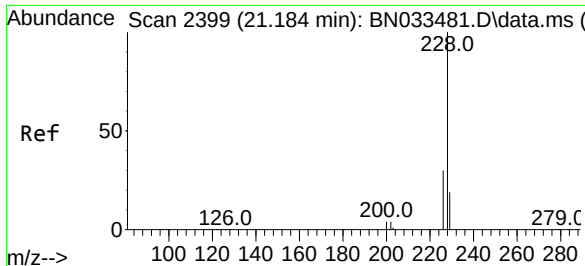
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#32
Benzo(a)anthracene
Concen: 0.853 ng
RT: 21.122 min Scan# 2392
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

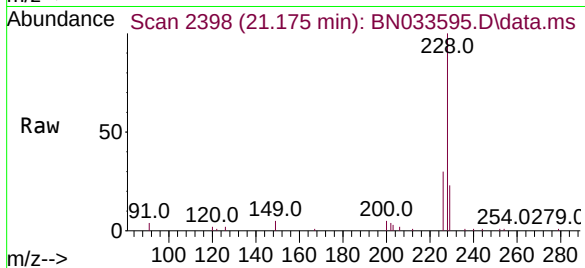
Tgt Ion:228 Resp: 53076
Ion Ratio Lower Upper
228 100
226 28.7 21.8 32.6
229 20.2 15.8 23.6





#33
Chrysene
Concen: 0.735 ng
RT: 21.175 min Scan# 2117
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

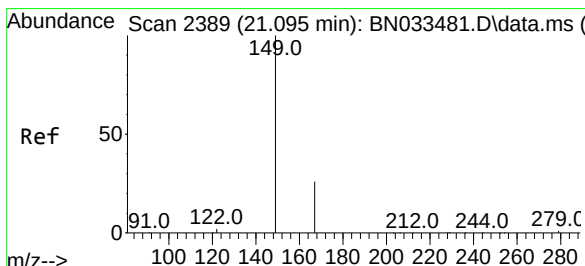
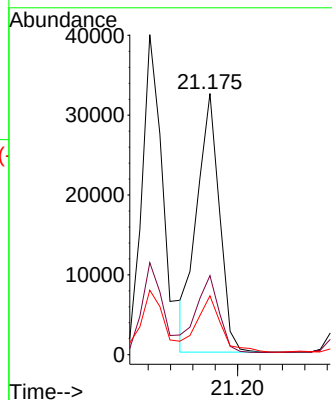
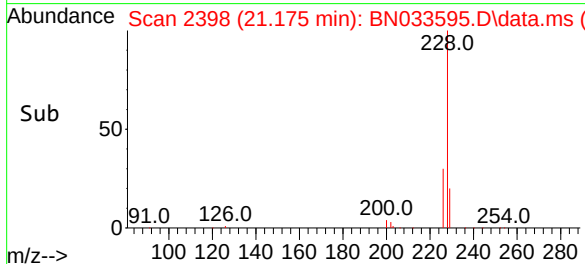
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



Tgt Ion:228 Resp: 45494
Ion Ratio Lower Upper
228 100
226 30.3 23.8 35.8
229 22.5 15.6 23.4

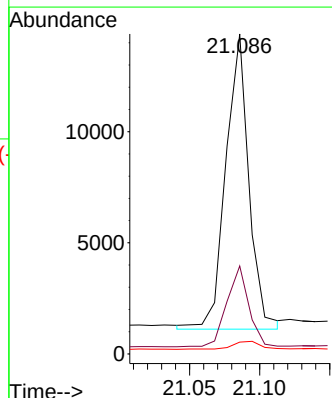
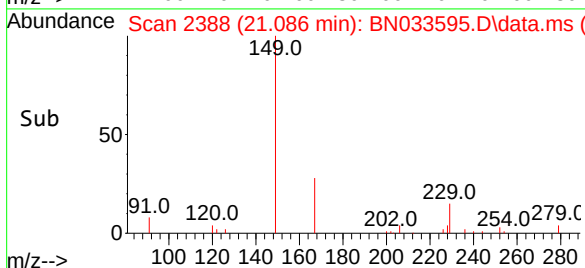
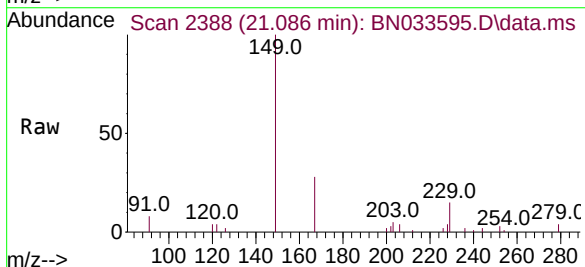
Manual Integrations
APPROVED

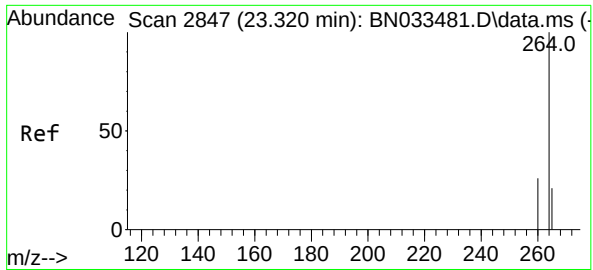
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.386 ng m
RT: 21.086 min Scan# 2388
Delta R.T. 0.000 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

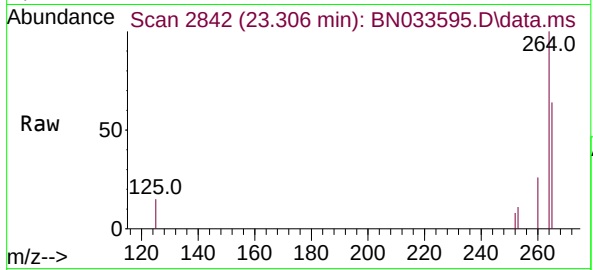
Tgt Ion:149 Resp: 15195
Ion Ratio Lower Upper
149 100
167 29.2 21.5 32.3
279 4.3 2.2 3.2#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.306 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

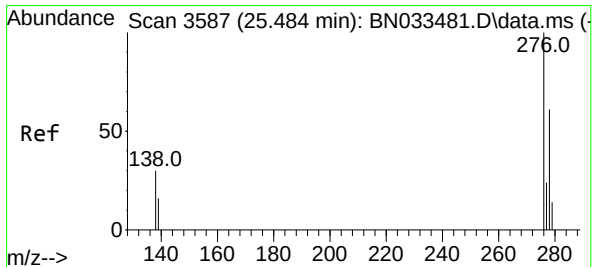
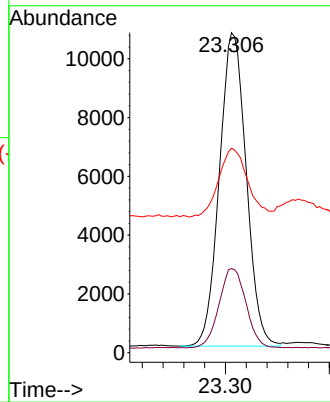
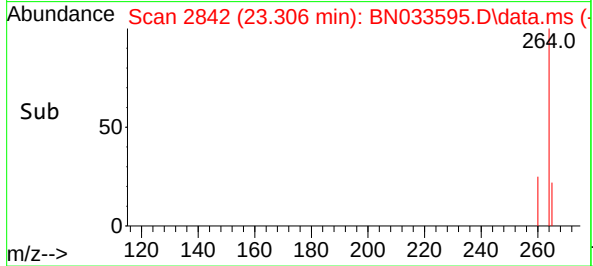
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924DL



Tgt Ion:264 Resp: 19100
Ion Ratio Lower Upper
264 100
260 26.3 20.8 31.2
265 63.9 52.2 78.2

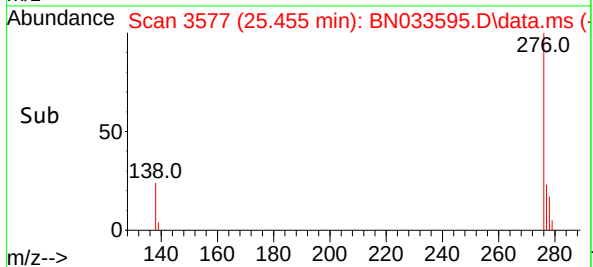
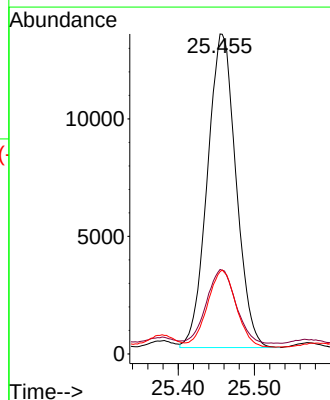
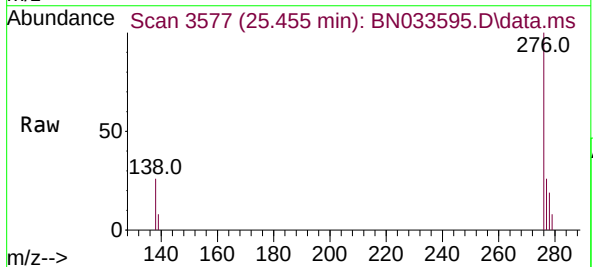
Manual Integrations
APPROVED

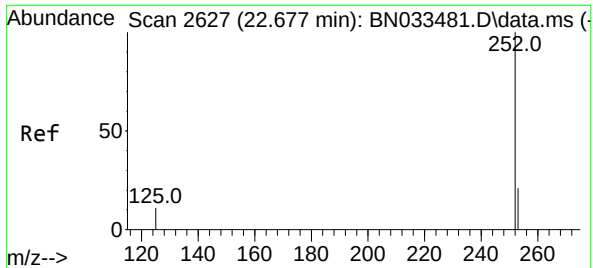
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.438 ng
RT: 25.455 min Scan# 3577
Delta R.T. 0.006 min
Lab File: BN033595.D
Acq: 23 Aug 2024 18:23

Tgt Ion:276 Resp: 34740
Ion Ratio Lower Upper
276 100
138 23.9 24.4 36.6#
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.999 ng

RT: 22.666 min Scan# 2623

Delta R.T. 0.006 min

Lab File: BN033595.D

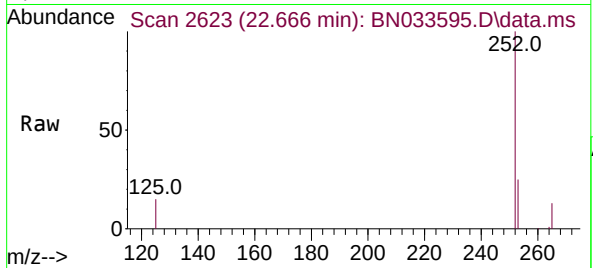
Acq: 23 Aug 2024 18:23

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924DL

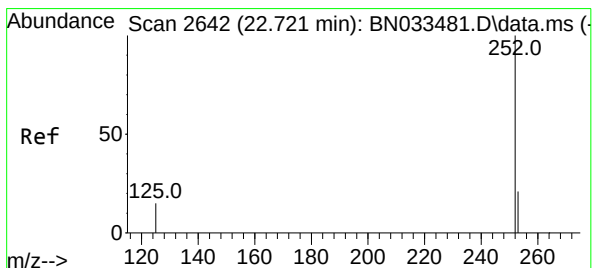
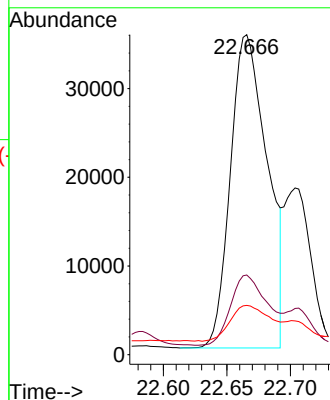
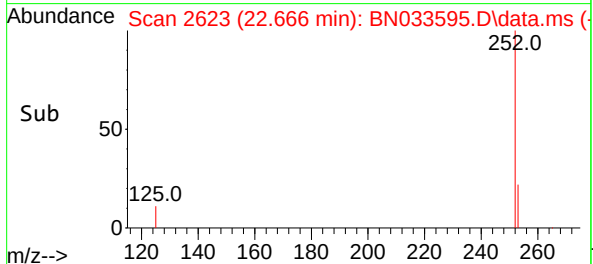


Tgt Ion:	252	Resp:	7124
Ion Ratio	Lower	Upper	
252	100		
253	24.9	19.8	29.8
125	15.4	13.9	20.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#38

Benzo(k)fluoranthene

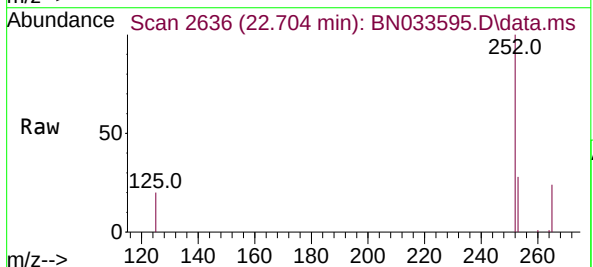
Concen: 0.386 ng m

RT: 22.704 min Scan# 2636

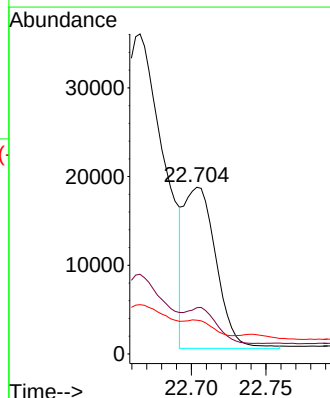
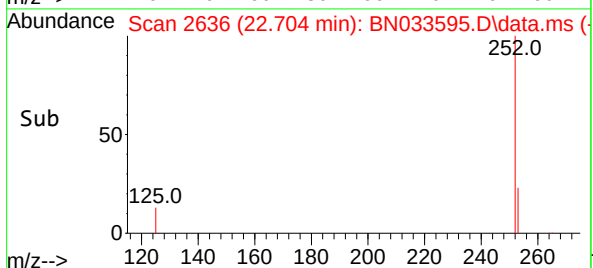
Delta R.T. 0.000 min

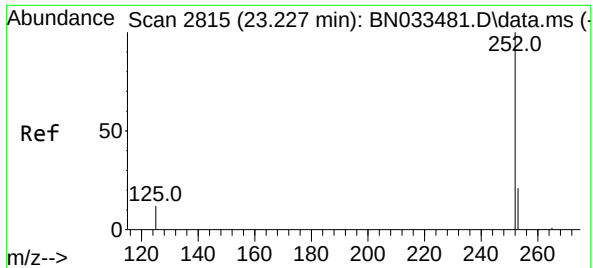
Lab File: BN033595.D

Acq: 23 Aug 2024 18:23



Tgt Ion:	252	Resp:	27080
Ion Ratio	Lower	Upper	
252	100		
253	27.8	19.8	29.8
125	20.2	15.8	23.8





#39

Benzo(a)pyrene

Concen: 0.862 ng

RT: 23.212 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN033595.D

Acq: 23 Aug 2024 18:23

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924DL

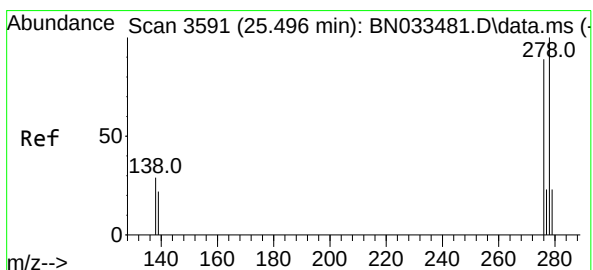
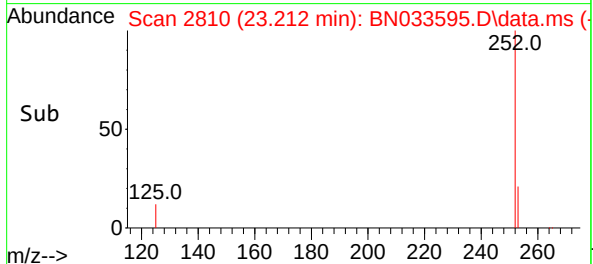
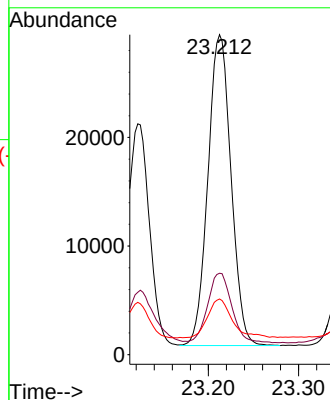
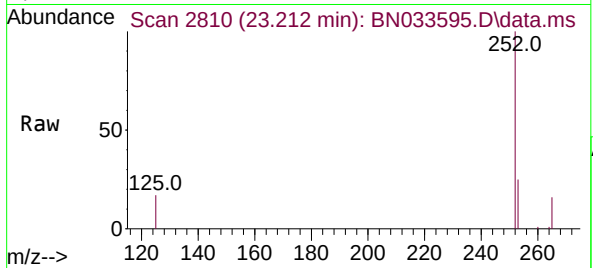
Tgt Ion:	252	Resp:	50880
Ion Ratio	Lower	Upper	
252	100		
253	25.4	21.5	32.3
125	17.4	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.132 ng

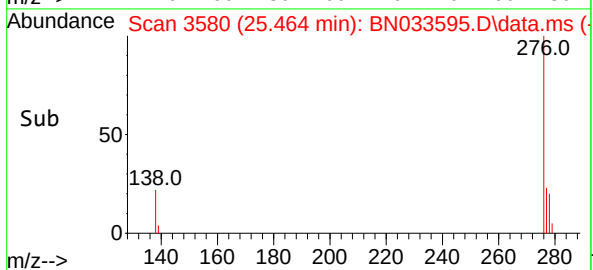
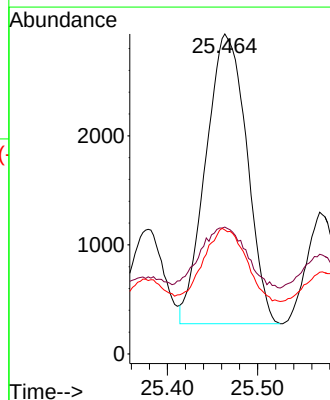
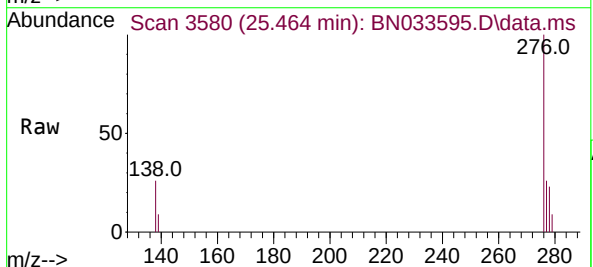
RT: 25.464 min Scan# 3580

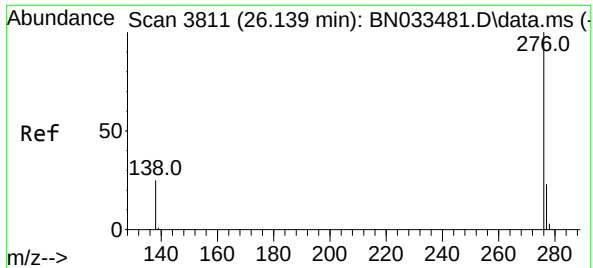
Delta R.T. -0.006 min

Lab File: BN033595.D

Acq: 23 Aug 2024 18:23

Tgt Ion:	278	Resp:	8366
Ion Ratio	Lower	Upper	
278	100		
139	39.6	19.1	28.7#
279	38.8	21.0	31.4#





#41

Benzo(g,h,i)perylene

Concen: 0.495 ng

RT: 26.113 min Scan# 3811

Delta R.T. 0.009 min

Lab File: BN033595.D

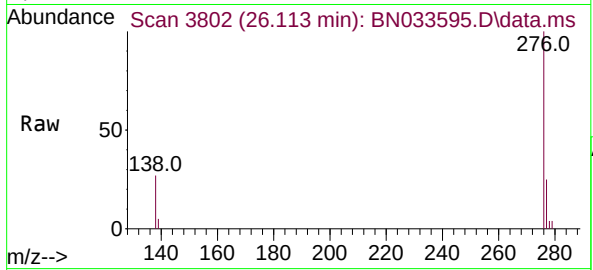
Acq: 23 Aug 2024 18:23

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924DL



Tgt Ion:276 Resp: 33549

Ion Ratio Lower Upper

276 100

277 25.4 19.7 29.5

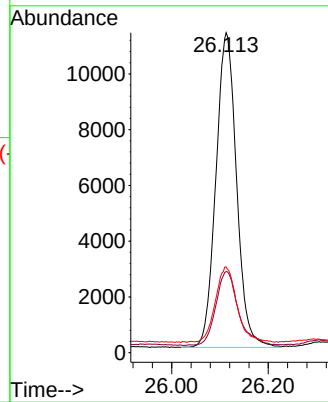
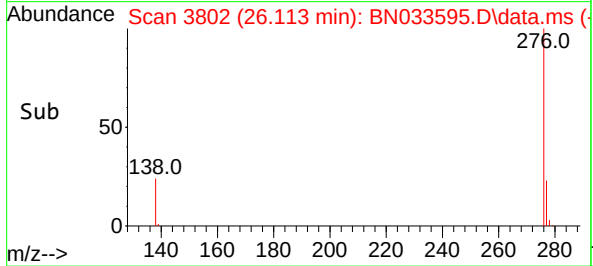
138 26.8 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-07	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	76.6
Sample Wt/Vol:	30.01 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033574.D	1	08/21/24 09:38	08/23/24 04:42	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	2.10	J	0.90	4.30	ug/Kg
91-57-6	2-Methylnaphthalene	1.50	J	1.00	4.30	ug/Kg
208-96-8	Acenaphthylene	3.20	J	0.82	4.30	ug/Kg
83-32-9	Acenaphthene	24.9		0.72	4.30	ug/Kg
86-73-7	Fluorene	22.4		0.78	4.30	ug/Kg
85-01-8	Phenanthrene	400	E	0.82	4.30	ug/Kg
120-12-7	Anthracene	130		1.00	4.30	ug/Kg
206-44-0	Fluoranthene	1300	E	0.87	4.30	ug/Kg
129-00-0	Pyrene	710	E	1.20	4.30	ug/Kg
56-55-3	Benzo(a)anthracene	710	E	0.99	4.30	ug/Kg
218-01-9	Chrysene	630	E	1.10	4.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	750	E	1.60	4.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	280	E	1.30	4.30	ug/Kg
50-32-8	Benzo(a)pyrene	650	E	2.20	4.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	280	E	1.60	4.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	90.5		1.50	4.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	290	E	1.50	4.30	ug/Kg
123-91-1	1,4-Dioxane	2.90	U	2.90	8.60	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.17		30 (17) - 150 (161)	43%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.14		30 (23) - 150 (138)	34%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.24		30 (33) - 130 (121)	60%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.16		30 (32) - 130 (121)	41%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.096	*	30 (21) - 130 (130)	24%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8060		7.545		
1146-65-2	Naphthalene-d8	20800		10.304		
15067-26-2	Acenaphthene-d10	10000		14.178		
1517-22-2	Phenanthrene-d10	20000		16.929		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-07	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	76.6
Sample Wt/Vol:	30.01 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033574.D	1	08/21/24 09:38	08/23/24 04:42	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	22000	21.139			
1520-96-3	Perylene-d12	22900	23.303			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033574.D
Acq On : 23 Aug 2024 04:42
Operator : MA/JU
Sample : P3671-07
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD

Quant Time: Aug 23 05:11:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	8063	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	20827	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	10022	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	20045	0.400	ng	0.00
29) Chrysene-d12	21.139	240	22012	0.400	ng	0.00
35) Perylene-d12	23.303	264	22949	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	6327	0.247	ng	0.00
5) Phenol-d6	6.729	99	7016	0.230	ng	0.00
8) Nitrobenzene-d5	8.681	82	4180	0.242	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	5182	0.174	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	1087	0.202	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	6614	0.162	ng	0.00
27) Fluoranthene-d10	18.970	212	6634	0.138	ng	0.00
31) Terphenyl-d14	19.583	244	4810	0.096	ng	0.00
Target Compounds						
9) Naphthalene	10.357	128	2666	0.048	ng	Qvalue # 90
12) 2-Methylnaphthalene	11.975	142	1226	0.035	ng	# 91
16) Acenaphthylene	13.900	152	3215	0.073	ng	98
17) Acenaphthene	14.242	154	17697	0.572	ng	98
18) Fluorene	15.236	166	20096	0.516	ng	99
25) Phenanthrene	16.966	178	518372	9.296	ng	100
26) Anthracene	17.066	178	151975	3.080	ng	98
28) Fluoranthene	19.003	202	1801050	29.226	ng	100
30) Pyrene	19.365	202	1607538	16.363	ng	# 93
32) Benzo(a)anthracene	21.121	228	1300011	16.336	ng	98
33) Chrysene	21.175	228	1136784m	14.371	ng	
34) Bis(2-ethylhexyl)phtha...	21.077	149	8993m	0.179	ng	
36) Indeno(1,2,3-cd)pyrene	25.446	276	602379	6.323	ng	95
37) Benzo(b)fluoranthene	22.662	252	1485702	17.336	ng	# 93
38) Benzo(k)fluoranthene	22.698	252	538286m	6.381	ng	
39) Benzo(a)pyrene	23.209	252	1065507m	15.026	ng	
40) Dibenzo(a,h)anthracene	25.460	278	158541	2.081	ng	97
41) Benzo(g,h,i)perylene	26.109	276	543217	6.668	ng	98

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

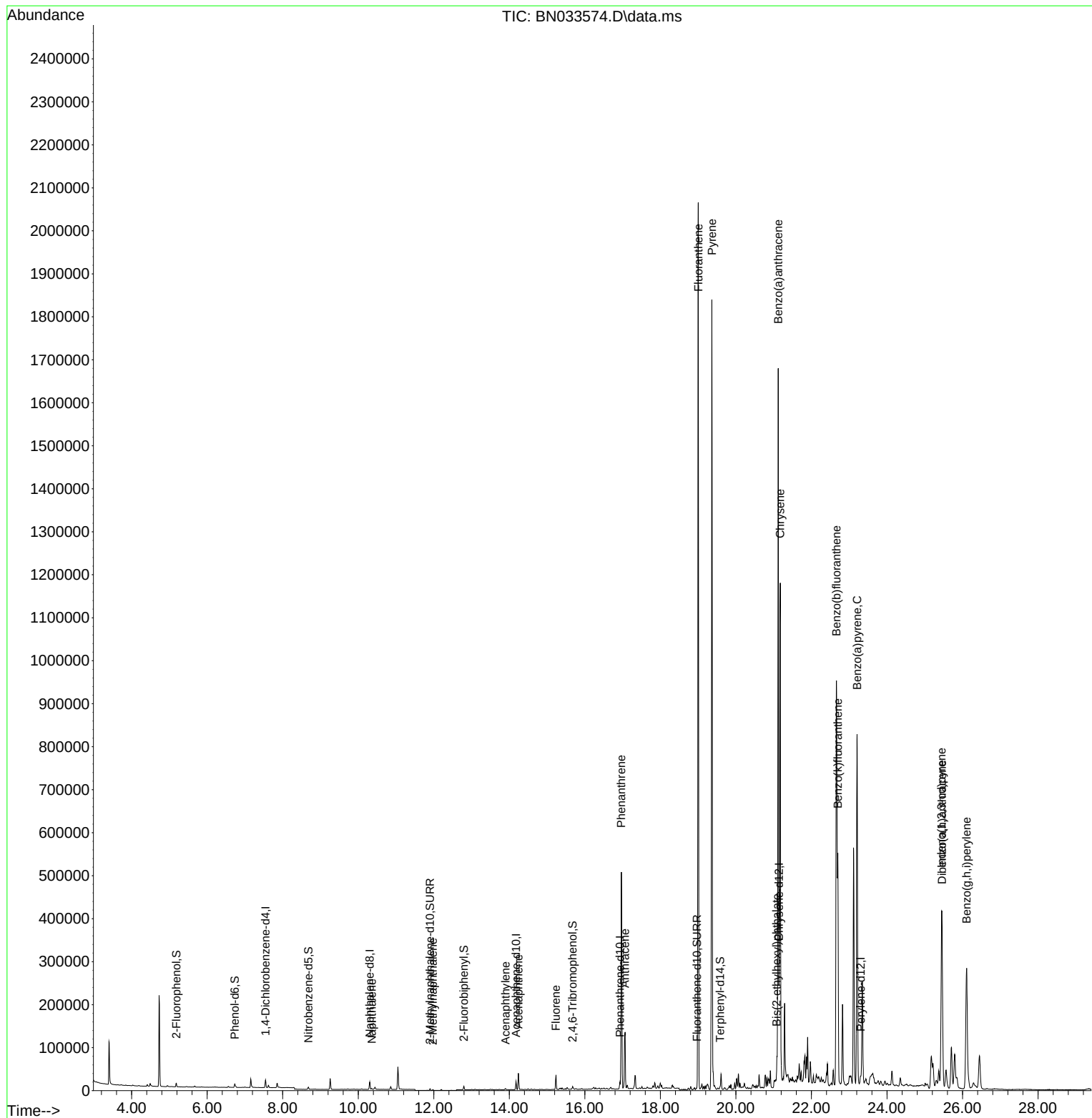
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033574.D
Acq On : 23 Aug 2024 04:42
Operator : MA/JU
Sample : P3671-07
Misc :
ALS Vial : 31 Sample Multiplier: 1

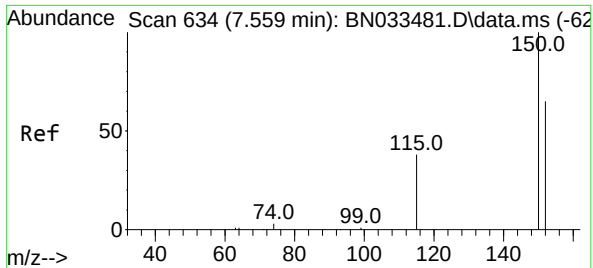
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD

Quant Time: Aug 23 05:11:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

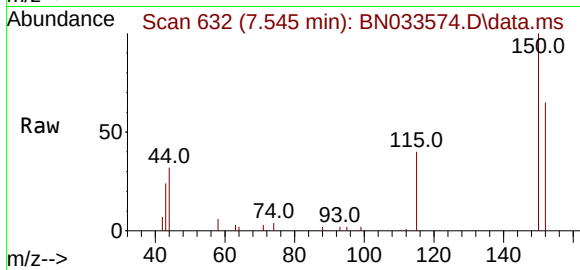
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

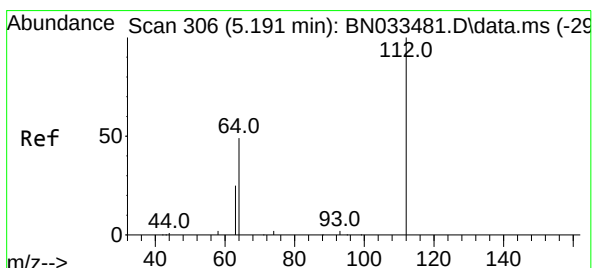
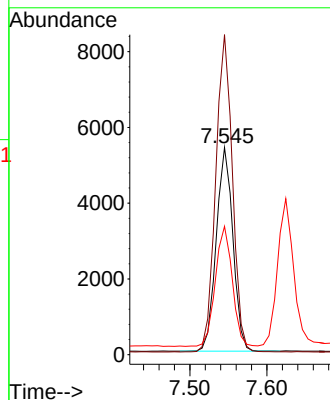
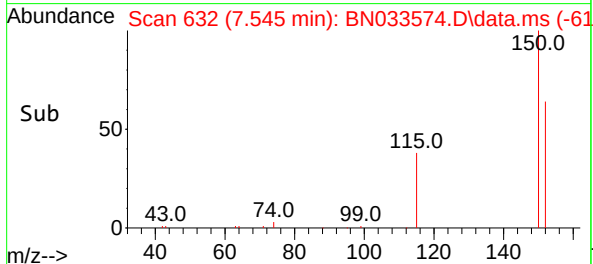
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion:152 Resp: 806
Ion Ratio Lower Upper
152 100
150 154.4 122.2 183.2
115 61.9 47.2 70.8

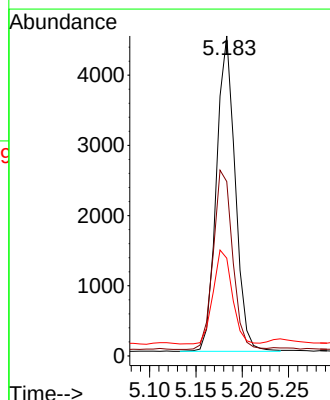
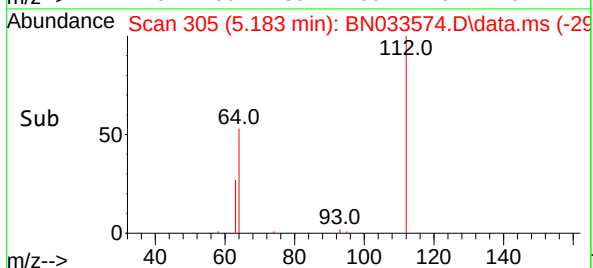
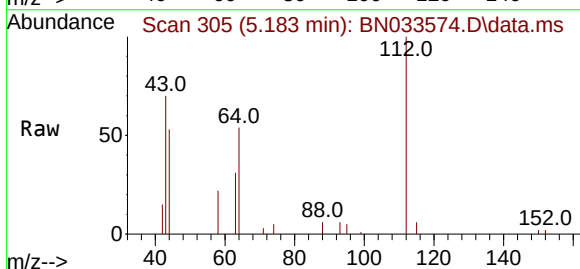
Manual Integrations
APPROVED

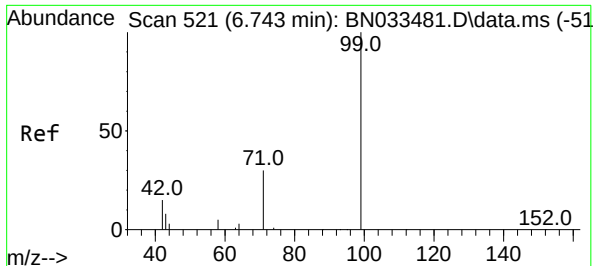
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.247 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

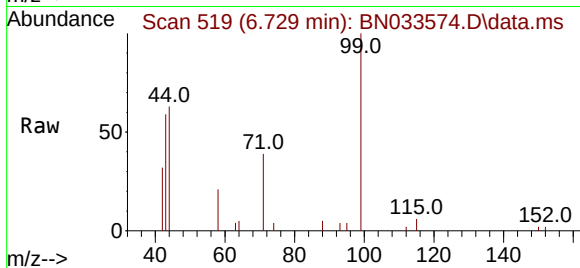
Tgt Ion:112 Resp: 6327
Ion Ratio Lower Upper
112 100
64 58.6 47.1 70.7
63 30.3 24.9 37.3





#5
Phenol-d6
Concen: 0.230 ng
RT: 6.729 min Scan# 519
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

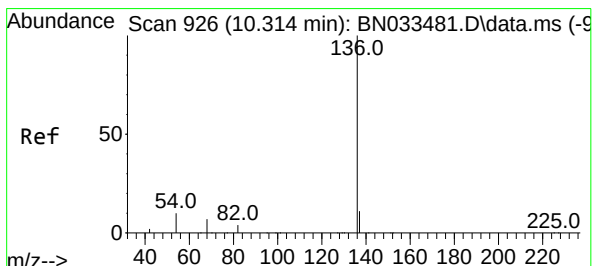
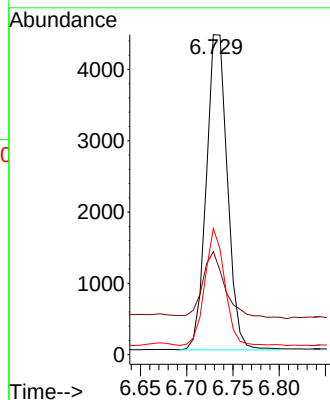
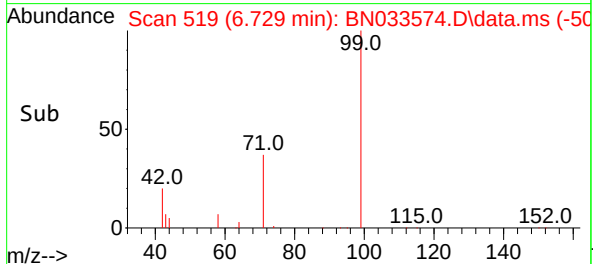
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion: 99 Resp: 7010
Ion Ratio Lower Upper
99 100
42 21.6 16.6 24.8
71 34.9 26.2 39.4

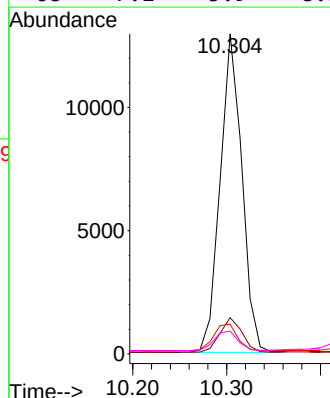
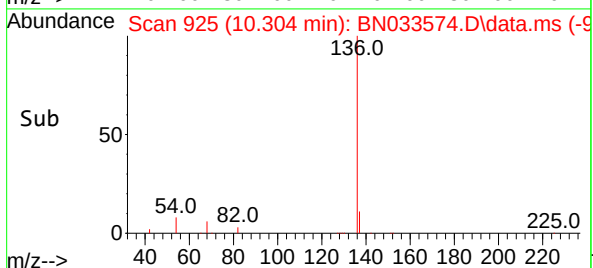
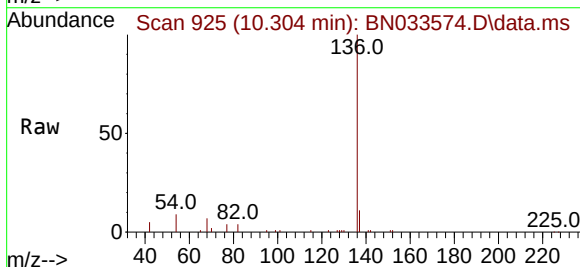
Manual Integrations
APPROVED

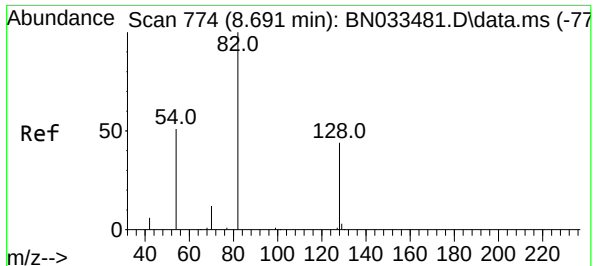
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

Tgt Ion:136 Resp: 20827
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 9.3 8.3 12.5
68 7.1 5.9 8.9





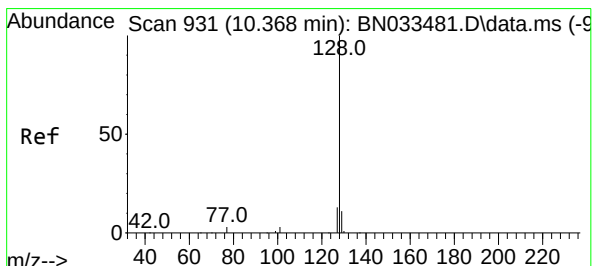
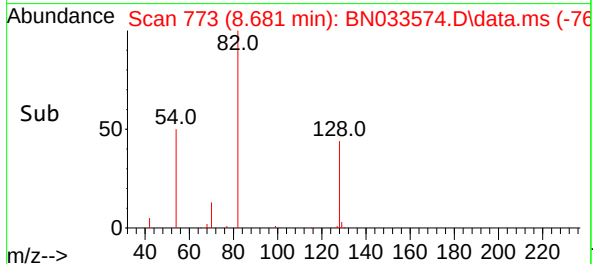
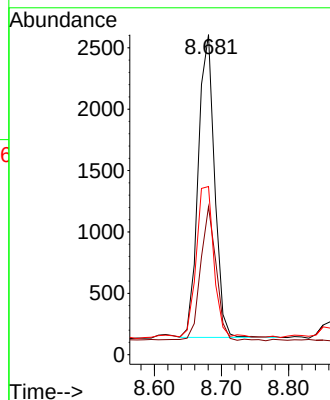
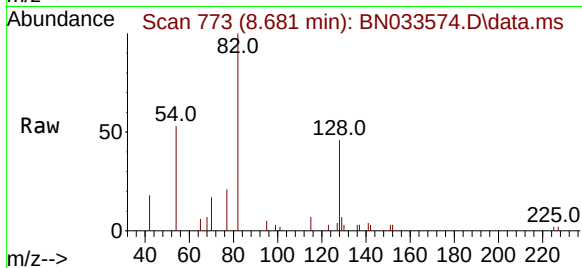
#8
Nitrobenzene-d5
Concen: 0.242 ng
RT: 8.681 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD

Tgt Ion: 82 Resp: 4180
Ion Ratio Lower Upper
82 100
128 46.3 36.0 54.0
54 52.6 42.0 63.0

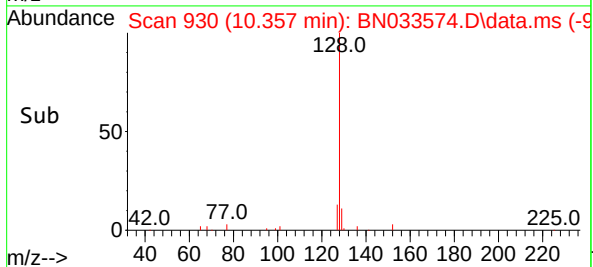
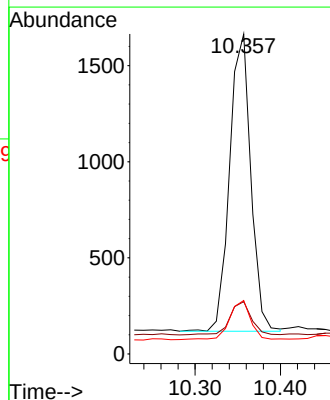
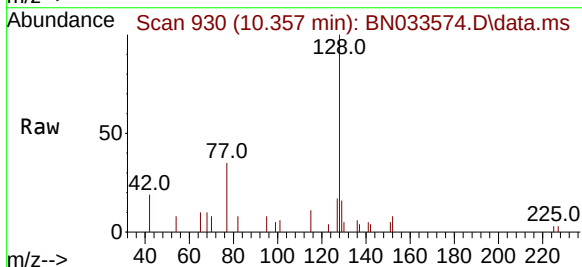
Manual Integrations
APPROVED

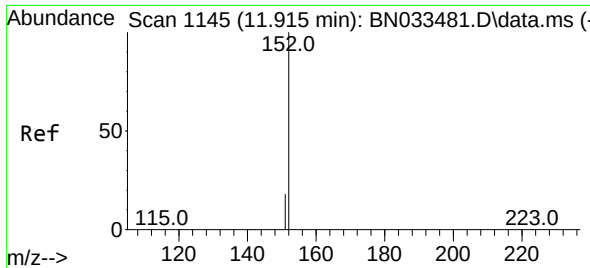
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#9
Naphthalene
Concen: 0.048 ng
RT: 10.357 min Scan# 930
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

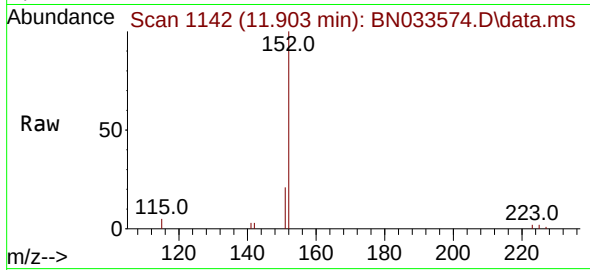
Tgt Ion:128 Resp: 2666
Ion Ratio Lower Upper
128 100
129 16.3 9.1 13.7#
127 16.7 10.7 16.1#





#11
2-Methylnaphthalene-d10
Concen: 0.174 ng
RT: 11.903 min Scan# 1142
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

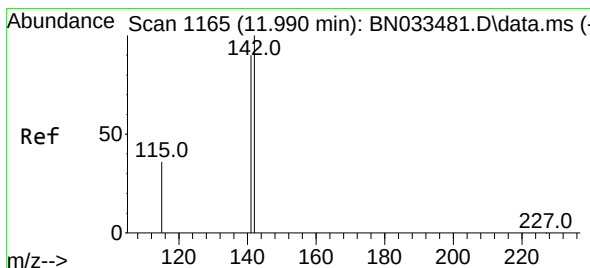
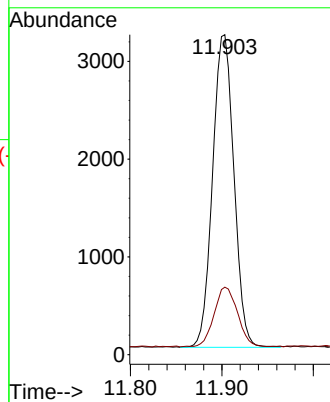
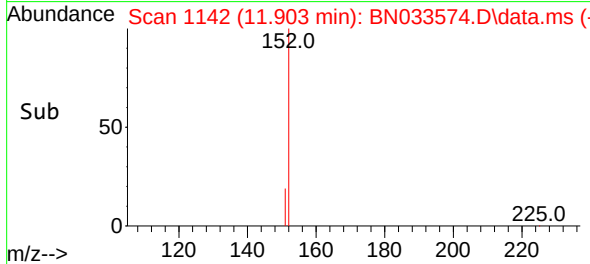
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion:152 Resp: 518
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0

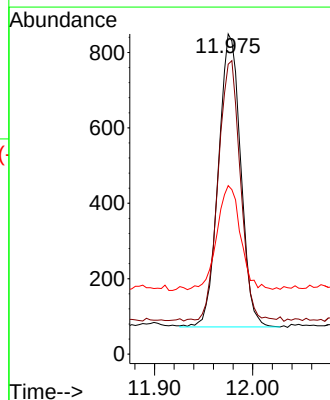
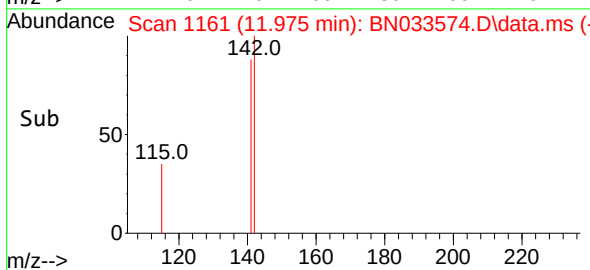
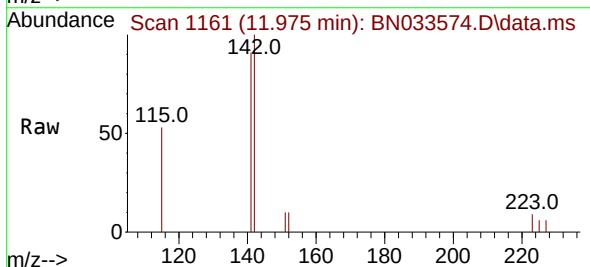
Manual Integrations
APPROVED

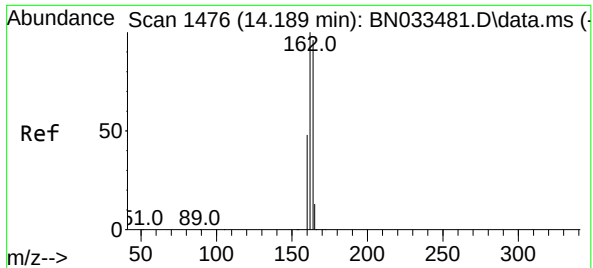
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#12
2-Methylnaphthalene
Concen: 0.035 ng
RT: 11.975 min Scan# 1161
Delta R.T. -0.004 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

Tgt Ion:142 Resp: 1226
Ion Ratio Lower Upper
142 100
141 90.6 71.7 107.5
115 52.7 29.4 44.2#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.178 min Scan# 14

Delta R.T. -0.000 min

Lab File: BN033574.D

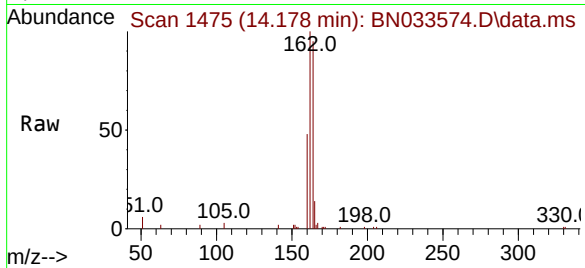
Acq: 23 Aug 2024 04:42

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion:164 Resp: 1002

Ion Ratio Lower Upper

164 100

162 104.9 83.5 125.3

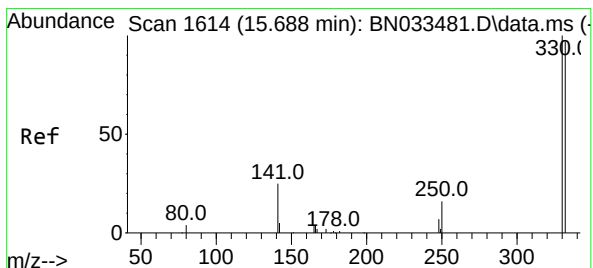
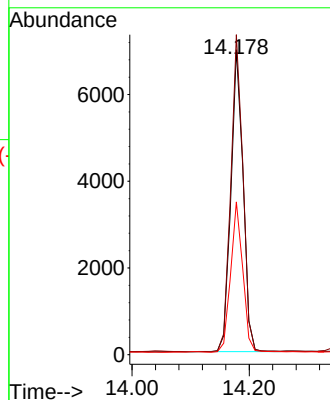
160 50.1 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#14

2,4,6-Tribromophenol

Concen: 0.202 ng

RT: 15.676 min Scan# 1613

Delta R.T. -0.000 min

Lab File: BN033574.D

Acq: 23 Aug 2024 04:42

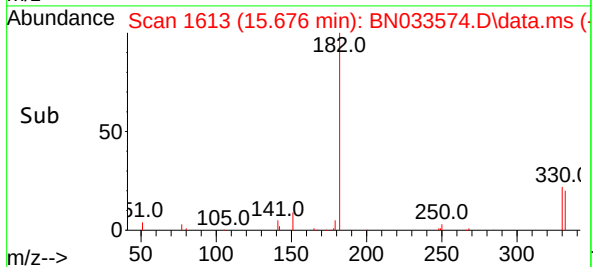
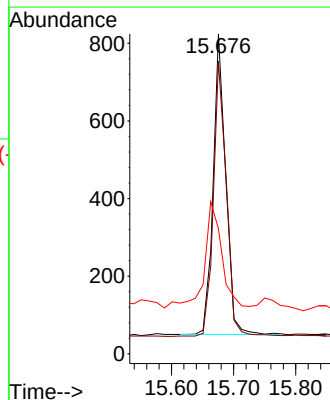
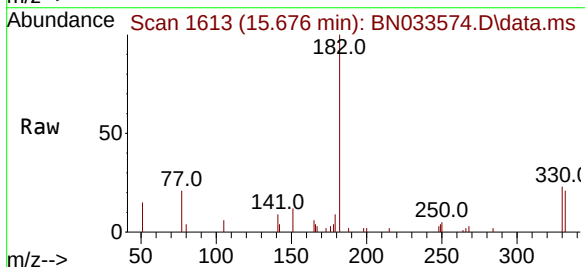
Tgt Ion:330 Resp: 1087

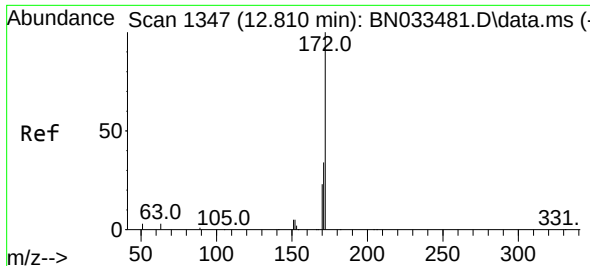
Ion Ratio Lower Upper

330 100

332 94.8 77.5 116.3

141 44.2 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 0.162 ng

RT: 12.799 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033574.D

Acq: 23 Aug 2024 04:42

Instrument :

BNA_N

ClientSampleId :

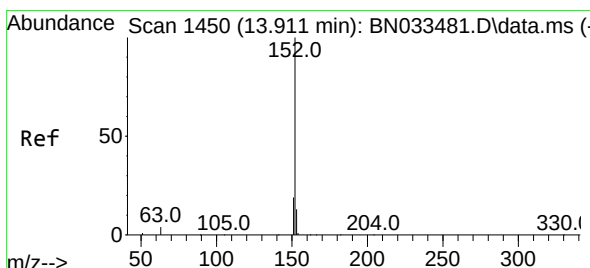
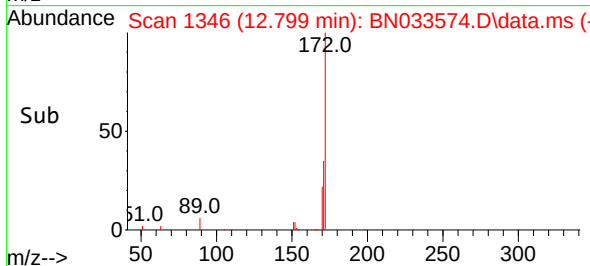
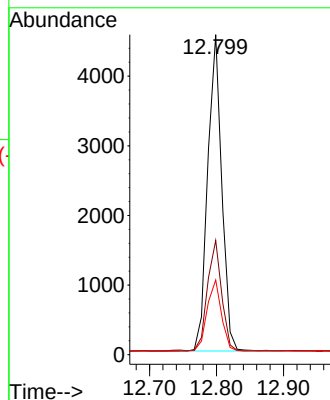
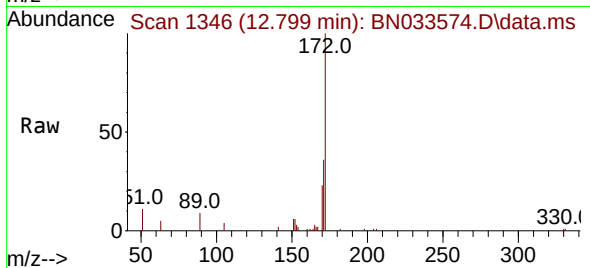
S-905-KJ-SO-0-0.5-081924-FD

Tgt Ion:172	Resp:	6614
Ion Ratio	Lower	Upper
172	100	
171	35.7	27.7 41.5
170	23.4	18.3 27.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#16

Acenaphthylene

Concen: 0.073 ng

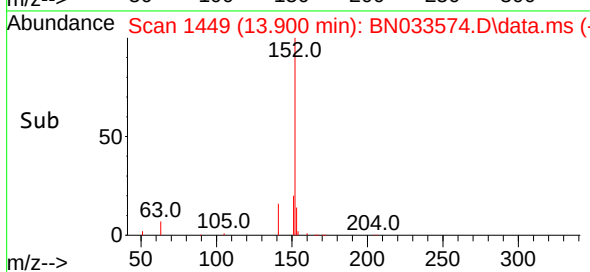
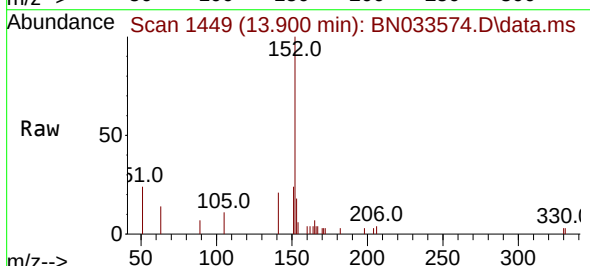
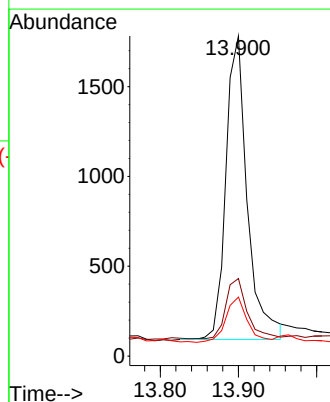
RT: 13.900 min Scan# 1449

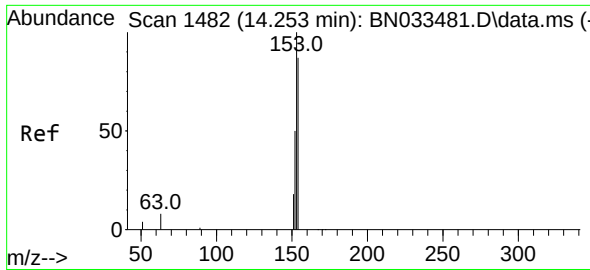
Delta R.T. -0.000 min

Lab File: BN033574.D

Acq: 23 Aug 2024 04:42

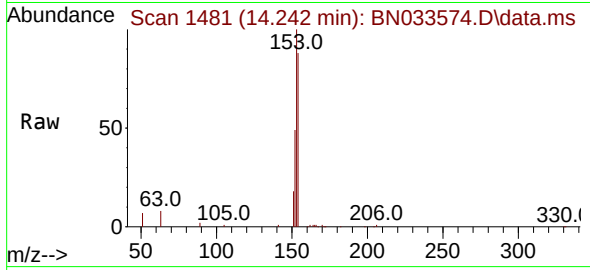
Tgt Ion:152	Resp:	3215
Ion Ratio	Lower	Upper
152	100	
151	19.7	15.7 23.5
153	15.1	10.3 15.5





#17
Acenaphthene
Concen: 0.572 ng
RT: 14.242 min Scan# 1481
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

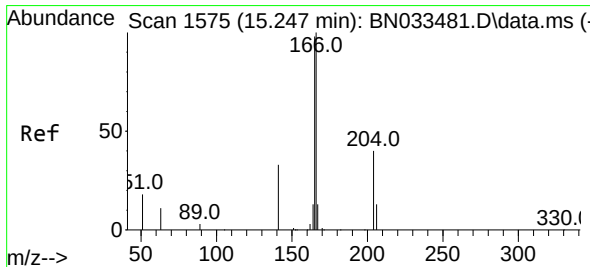
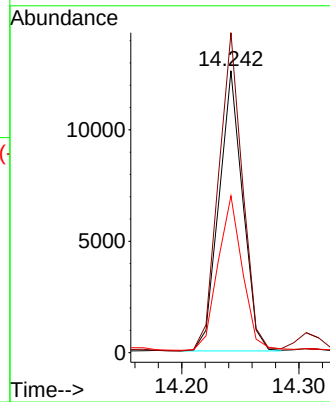
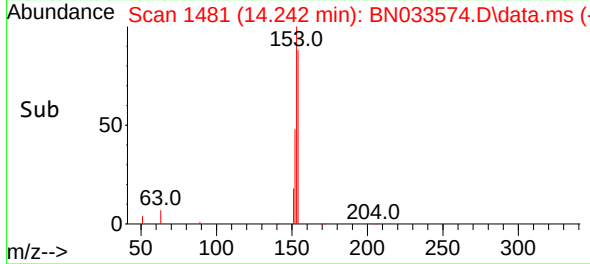
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD



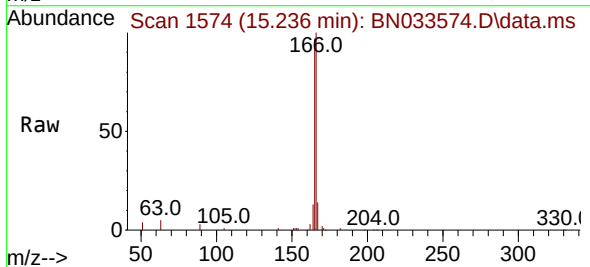
Tgt Ion:154 Resp: 1769
Ion Ratio Lower Upper
154 100
153 114.6 89.0 133.6
152 57.0 45.2 67.8

Manual Integrations
APPROVED

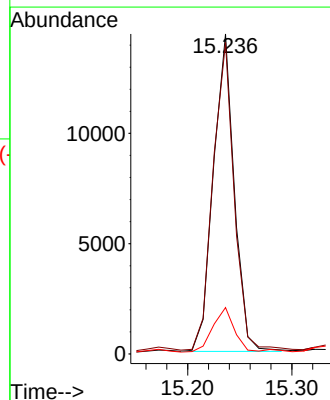
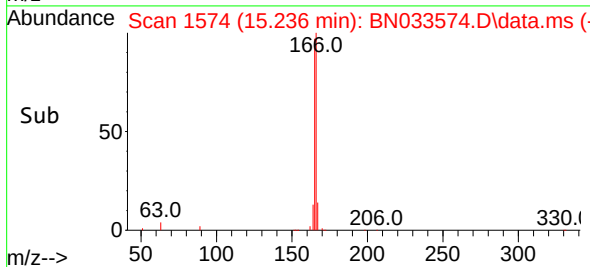
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

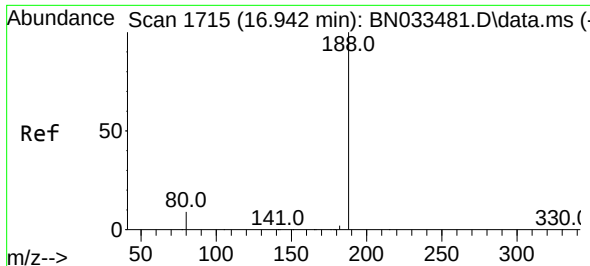


#18
Fluorene
Concen: 0.516 ng
RT: 15.236 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42



Tgt Ion:166 Resp: 20096
Ion Ratio Lower Upper
166 100
165 97.5 78.2 117.4
167 14.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.929 min Scan# 1715

Delta R.T. -0.000 min

Lab File: BN033574.D

Acq: 23 Aug 2024 04:42

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924-FD

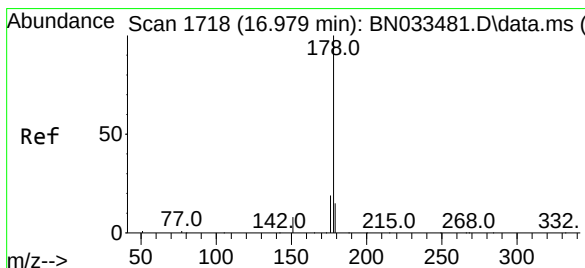
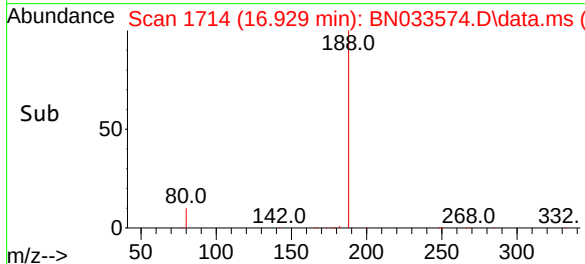
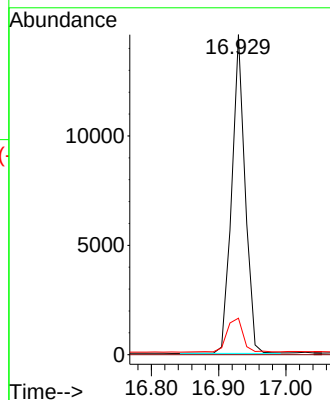
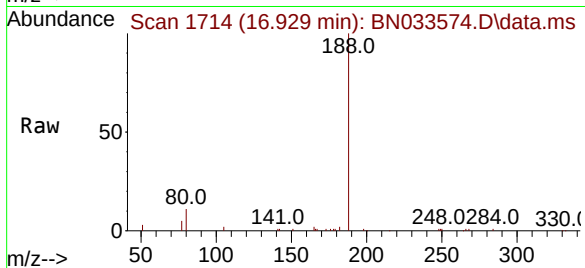
Tgt Ion:188	Resp:	2004
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	11.4	7.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#25

Phenanthrene

Concen: 9.296 ng

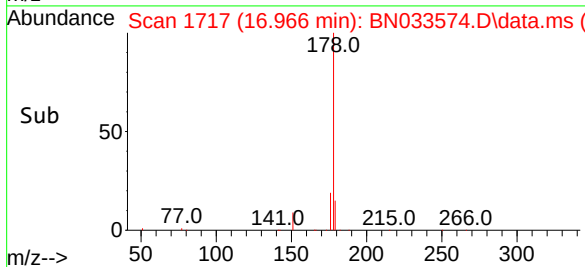
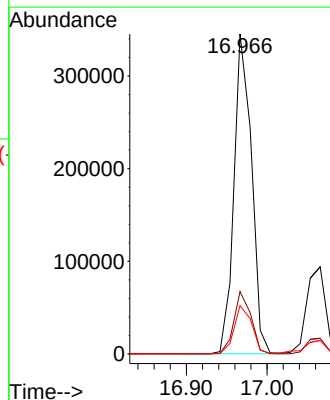
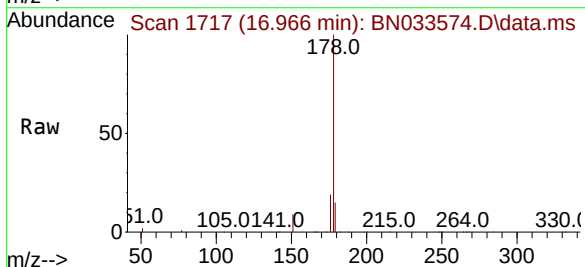
RT: 16.966 min Scan# 1717

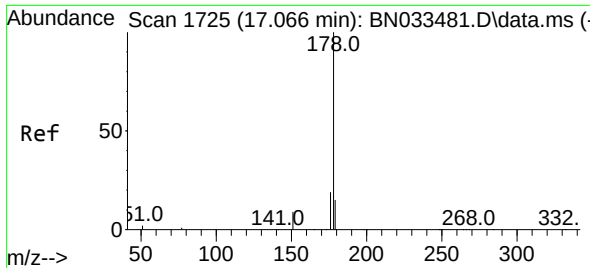
Delta R.T. -0.000 min

Lab File: BN033574.D

Acq: 23 Aug 2024 04:42

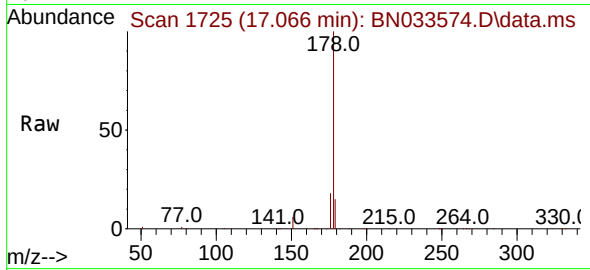
Tgt Ion:178	Resp:	518372
Ion Ratio	Lower	Upper
178	100	
176	19.1	15.3
179	15.2	12.3





#26
Anthracene
Concen: 3.080 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

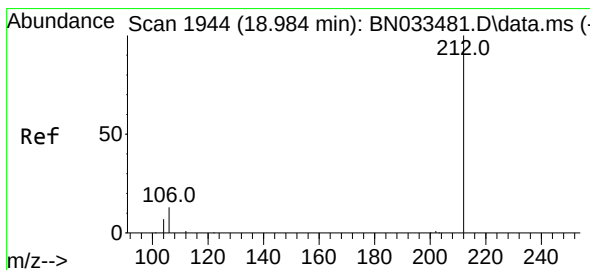
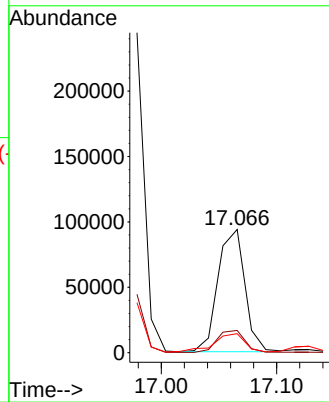
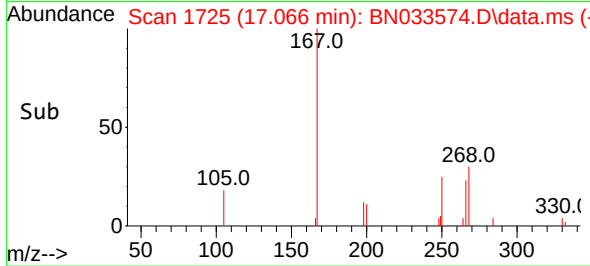
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion:178 Resp: 15197
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 17.3 12.4 18.6

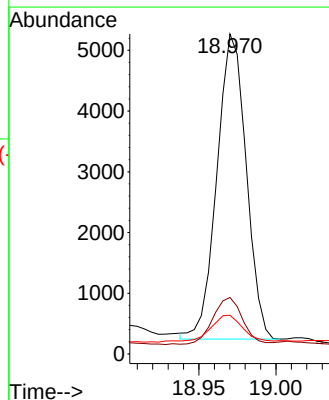
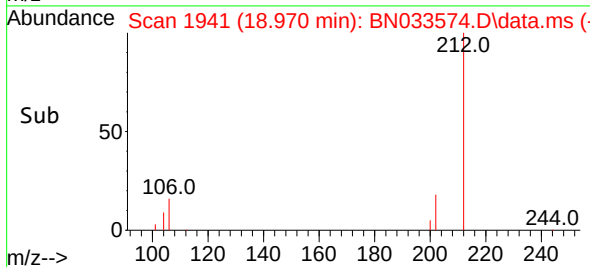
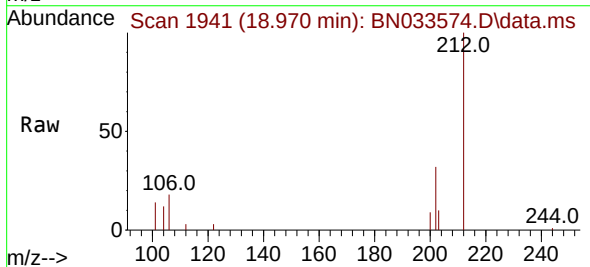
Manual Integrations
APPROVED

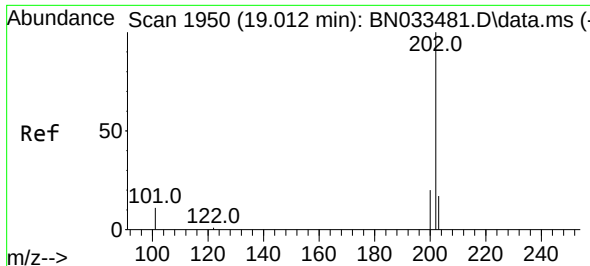
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#27
Fluoranthene-d10
Concen: 0.138 ng
RT: 18.970 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

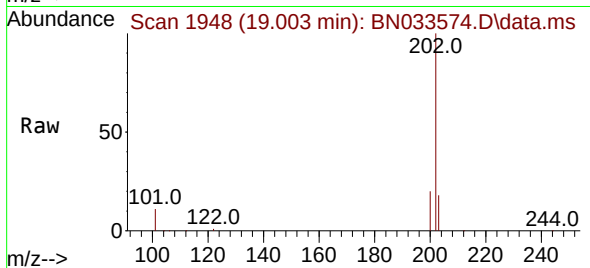
Tgt Ion:212 Resp: 6634
Ion Ratio Lower Upper
212 100
106 15.8 12.3 18.5
104 10.1 7.0 10.4





#28
Fluoranthene
Concen: 29.226 ng
RT: 19.003 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

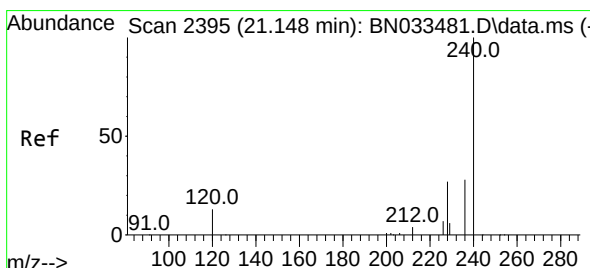
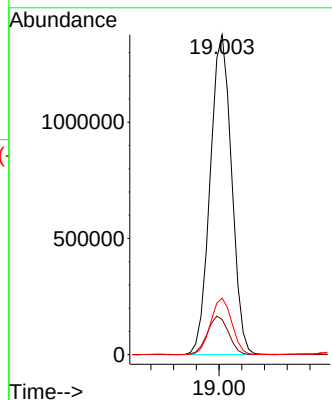
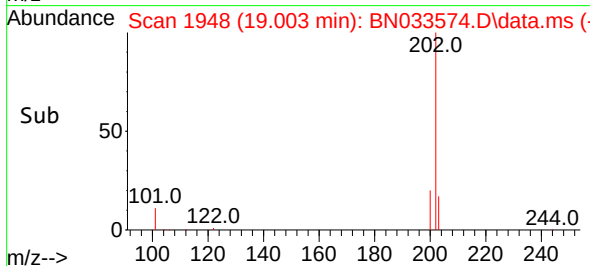
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion:202 Resp: 1801050
Ion Ratio Lower Upper
202 100
101 11.9 9.5 14.3
203 17.5 13.8 20.6

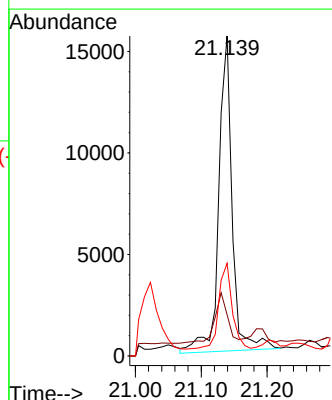
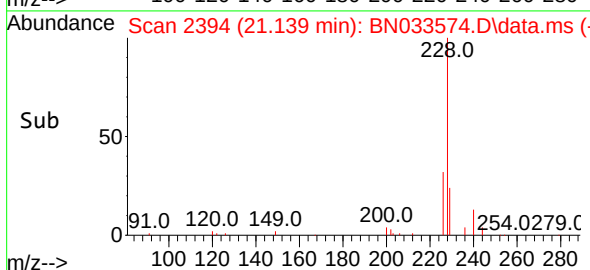
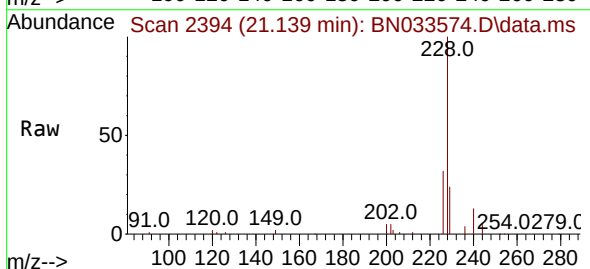
Manual Integrations
APPROVED

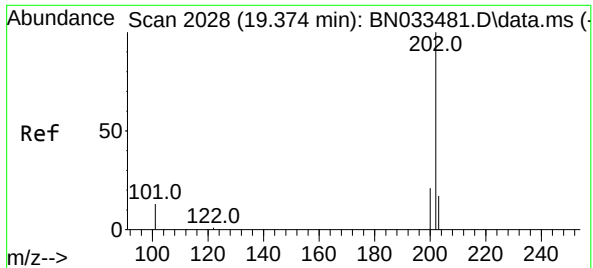
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

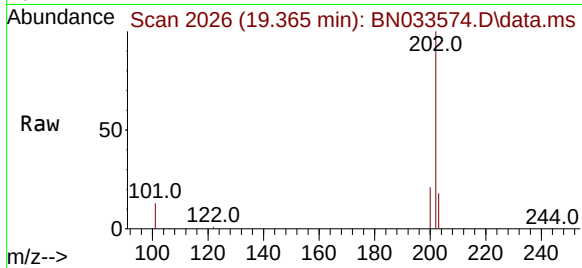
Tgt Ion:240 Resp: 22012
Ion Ratio Lower Upper
240 100
120 12.9 12.4 18.6
236 28.9 23.0 34.6





#30
Pyrene
Concen: 16.363 ng
RT: 19.365 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

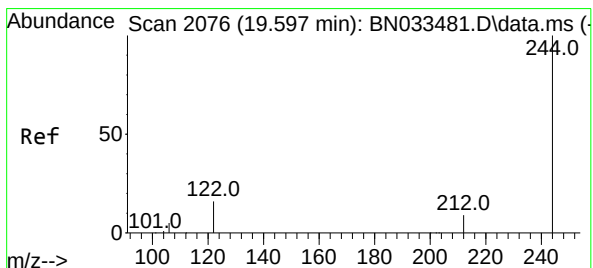
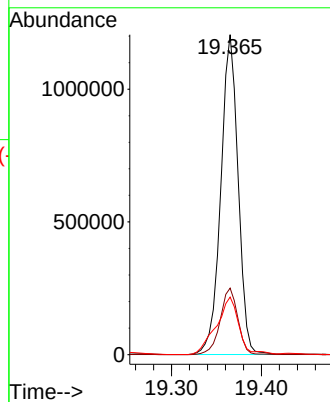
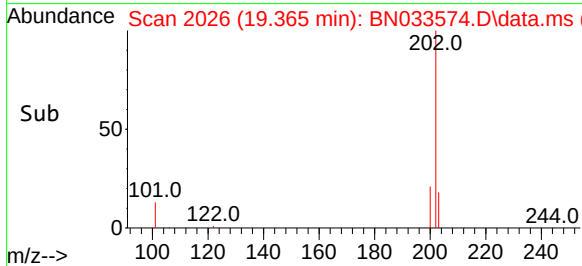
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion:202 Resp: 1607538
Ion Ratio Lower Upper
202 100
200 21.3 16.6 24.8
203 23.4 14.2 21.4

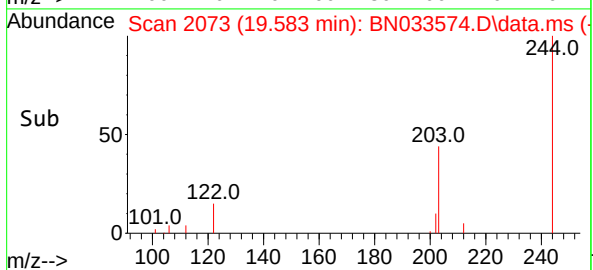
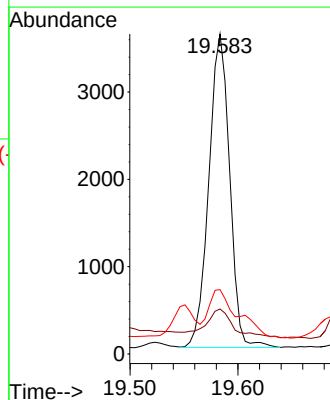
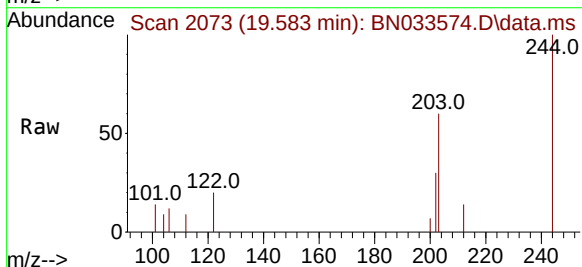
Manual Integrations
APPROVED

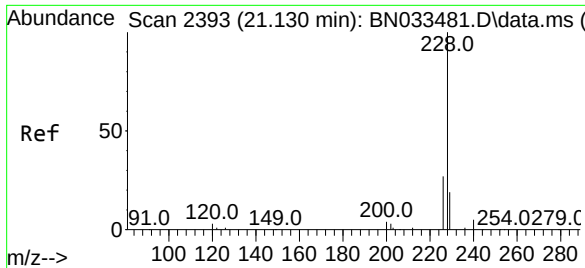
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#31
Terphenyl-d14
Concen: 0.096 ng
RT: 19.583 min Scan# 2073
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

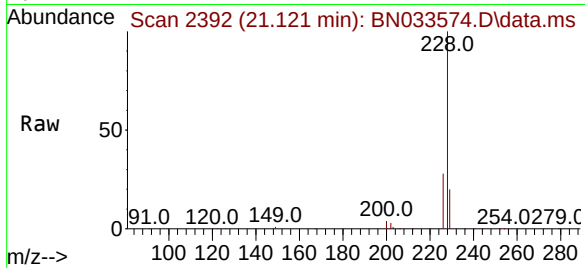
Tgt Ion:244 Resp: 4810
Ion Ratio Lower Upper
244 100
212 14.1 7.8 11.6#
122 20.1 13.3 19.9#





#32
Benzo(a)anthracene
Concen: 16.336 ng
RT: 21.121 min Scan# 21121
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

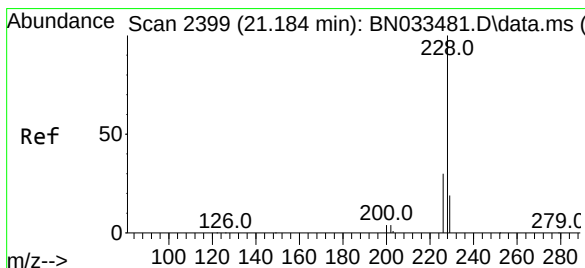
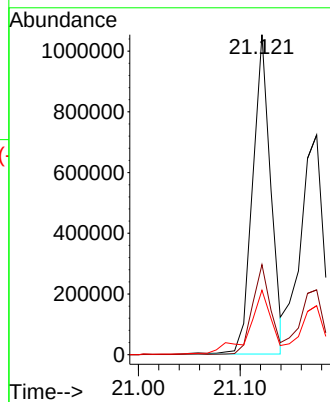
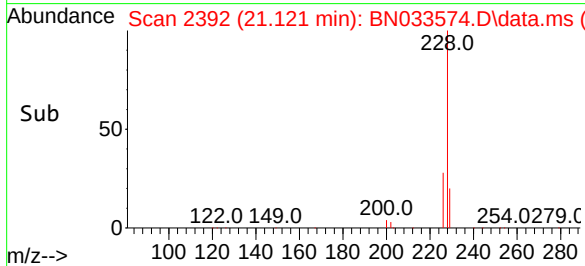
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion:228 Resp: 130001
Ion Ratio Lower Upper
228 100
226 28.2 21.8 32.6
229 20.2 15.8 23.6

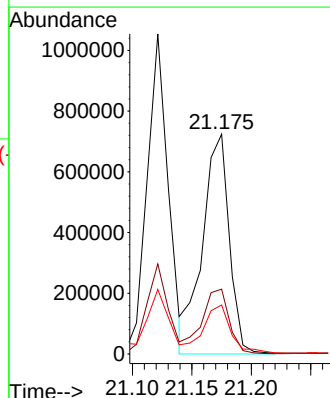
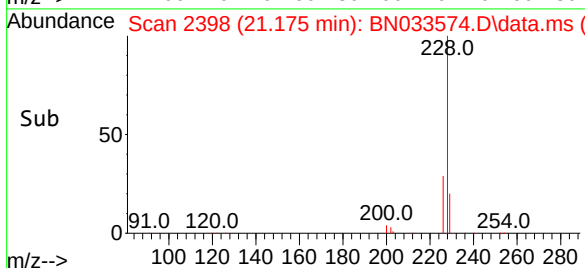
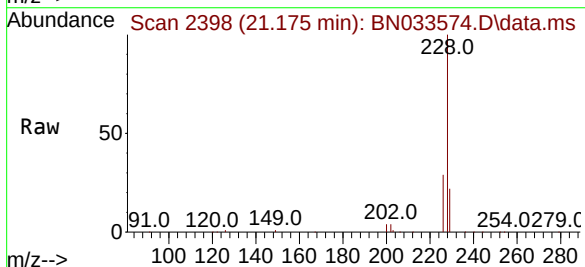
Manual Integrations
APPROVED

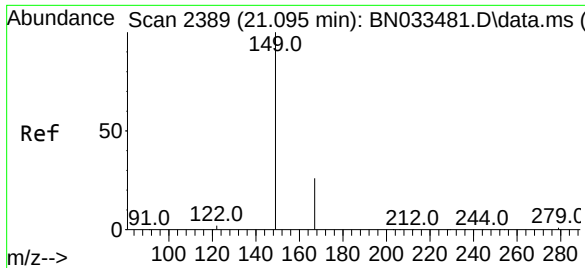
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#33
Chrysene
Concen: 14.371 ng m
RT: 21.175 min Scan# 2398
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

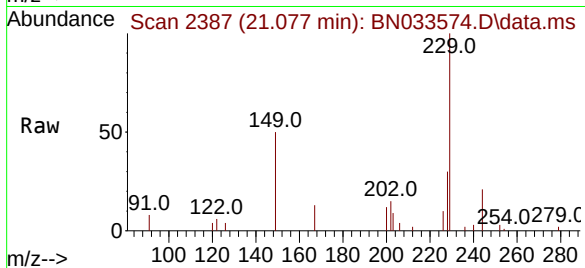
Tgt Ion:228 Resp: 1136784
Ion Ratio Lower Upper
228 100
226 29.5 23.8 35.8
229 22.3 15.6 23.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.179 ng m
RT: 21.077 min Scan# 2107
Delta R.T. -0.009 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

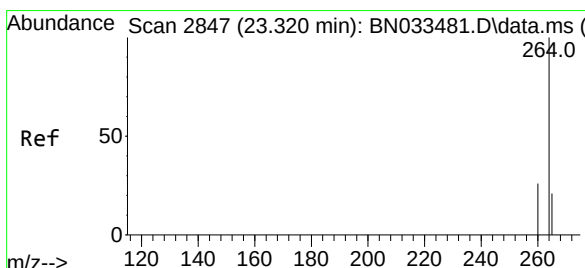
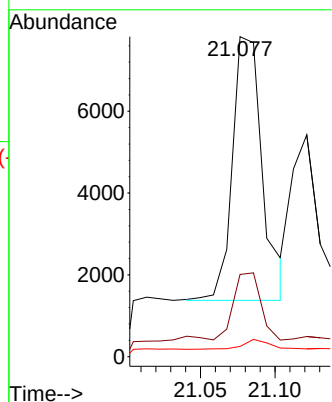
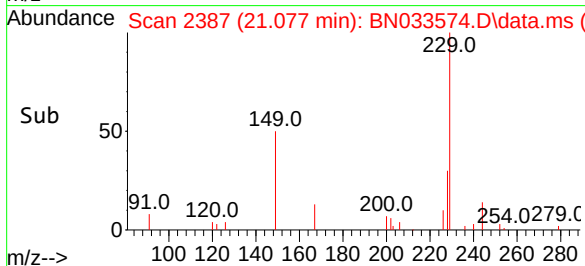
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion:149 Resp: 899
Ion Ratio Lower Upper
149 100
167 53.2 21.5 32.3
279 4.8 2.2 3.2

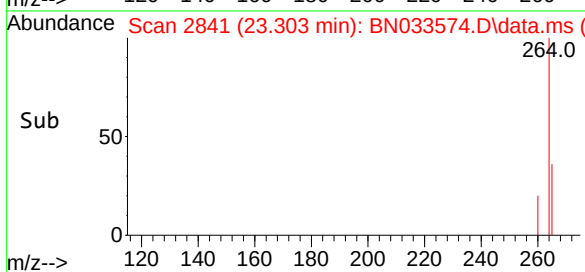
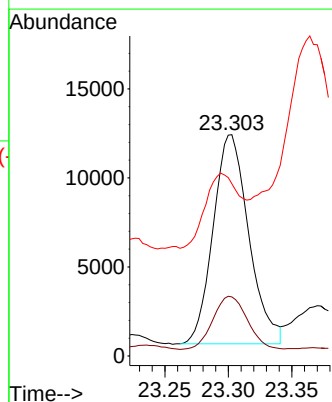
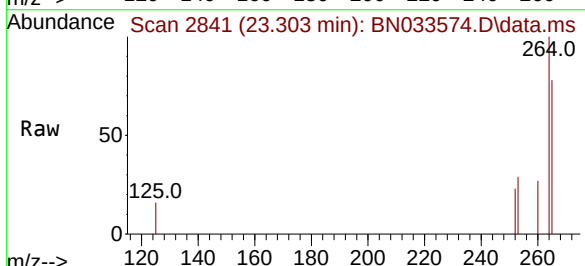
Manual Integrations
APPROVED

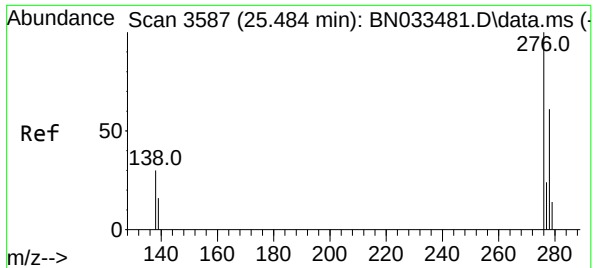
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2841
Delta R.T. -0.000 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

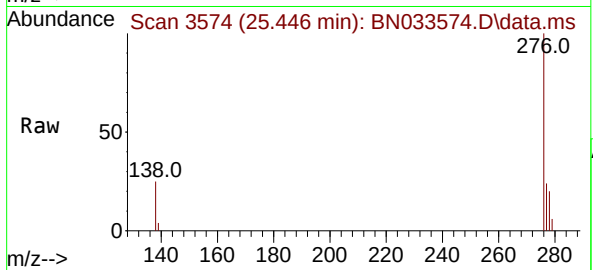
Tgt Ion:264 Resp: 22949
Ion Ratio Lower Upper
264 100
260 26.7 20.8 31.2
265 77.8 52.2 78.2





#36
Indeno(1,2,3-cd)pyrene
Concen: 6.323 ng
RT: 25.446 min Scan# 3587
Delta R.T. -0.003 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

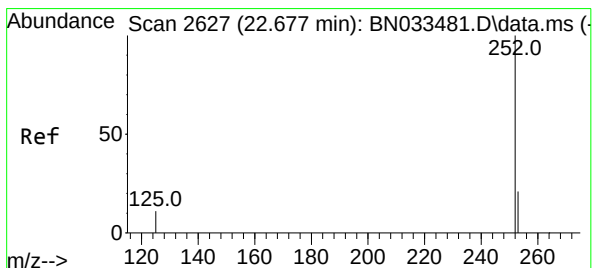
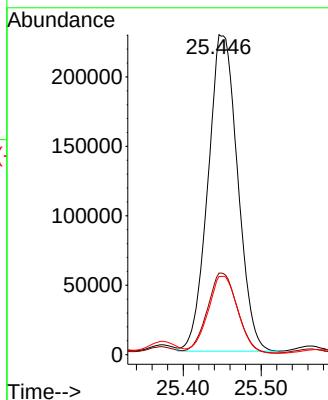
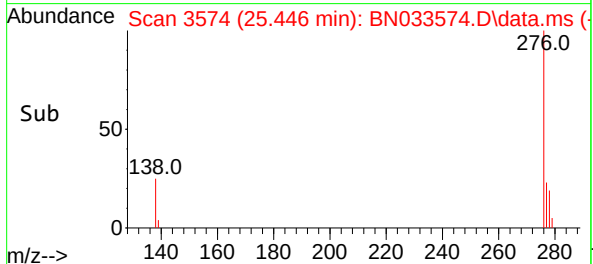
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion: 276 Resp: 602379
Ion Ratio Lower Upper
276 100
138 25.6 24.4 36.6
277 24.5 19.8 29.6

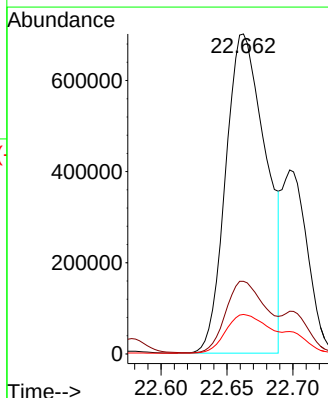
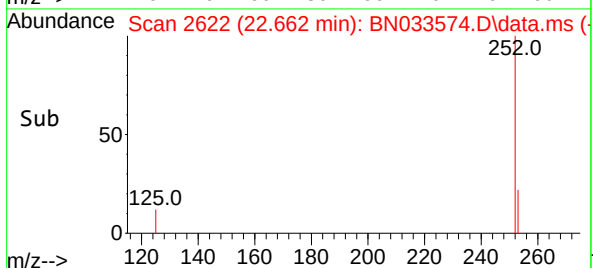
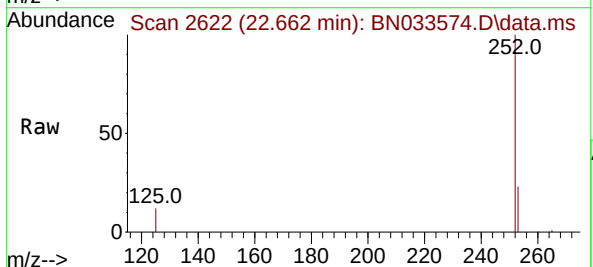
Manual Integrations
APPROVED

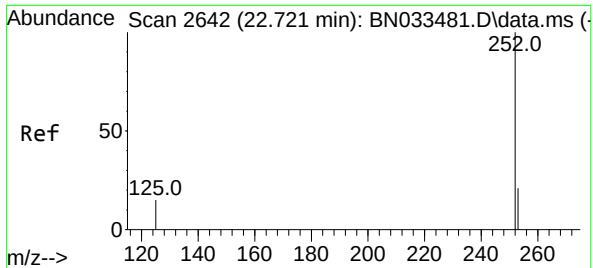
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#37
Benzo(b)fluoranthene
Concen: 17.336 ng
RT: 22.662 min Scan# 2622
Delta R.T. 0.003 min
Lab File: BN033574.D
Acq: 23 Aug 2024 04:42

Tgt Ion: 252 Resp: 1485702
Ion Ratio Lower Upper
252 100
253 22.7 19.8 29.8
125 12.4 13.9 20.9#





#38

Benzo(k)fluoranthene

Concen: 6.381 ng m

RT: 22.698 min Scan# 20

Delta R.T. -0.006 min

Lab File: BN033574.D

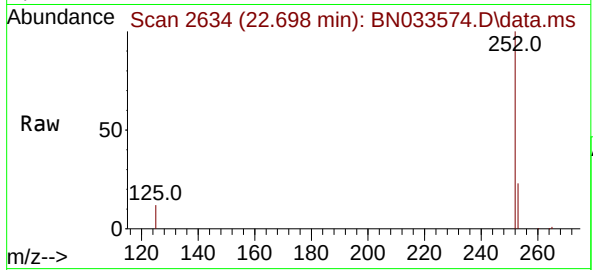
Acq: 23 Aug 2024 04:42

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion:252 Resp: 538280

Ion Ratio Lower Upper

252 100

253 23.2 19.8 29.8

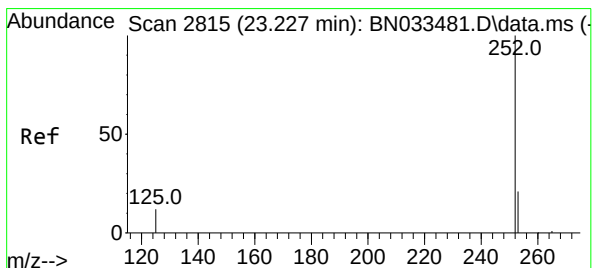
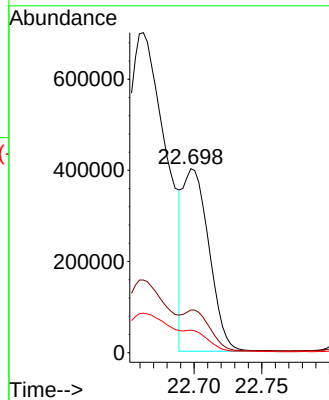
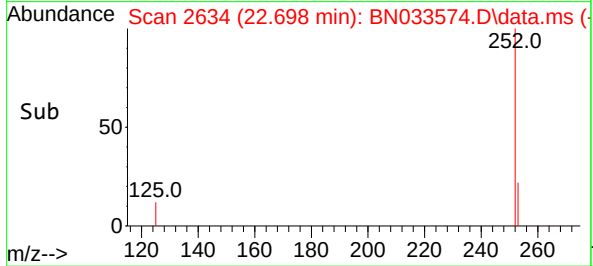
125 12.2 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#39

Benzo(a)pyrene

Concen: 15.026 ng m

RT: 23.209 min Scan# 2809

Delta R.T. -0.000 min

Lab File: BN033574.D

Acq: 23 Aug 2024 04:42

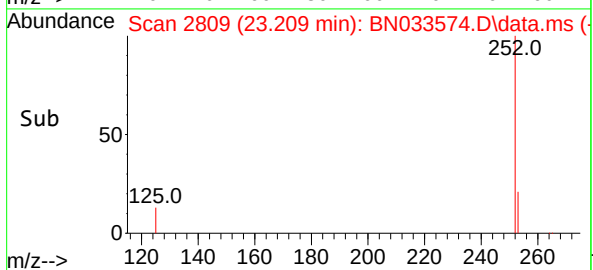
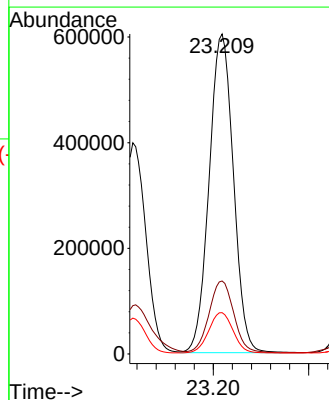
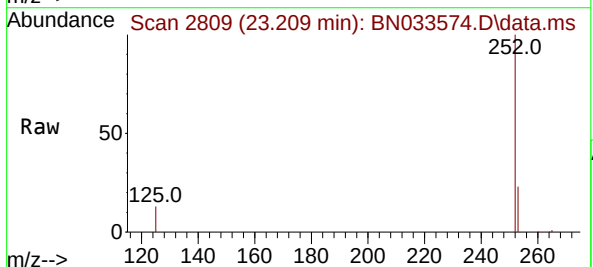
Tgt Ion:252 Resp: 1065507

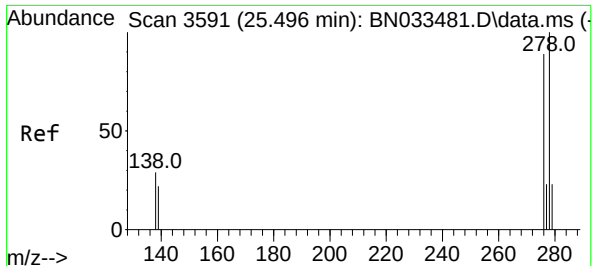
Ion Ratio Lower Upper

252 100

253 22.8 21.5 32.3

125 12.9 17.0 25.4





#40

Dibenzo(a,h)anthracene

Concen: 2.081 ng

RT: 25.460 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN033574.D

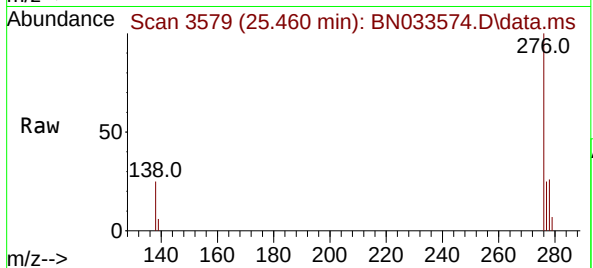
Acq: 23 Aug 2024 04:42

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924-FD



Tgt Ion:278 Resp: 15854

Ion Ratio Lower Upper

278 100

139 21.0 19.1 28.7

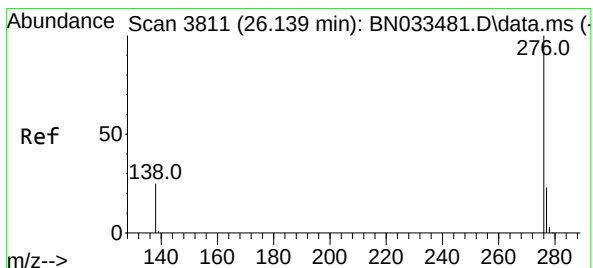
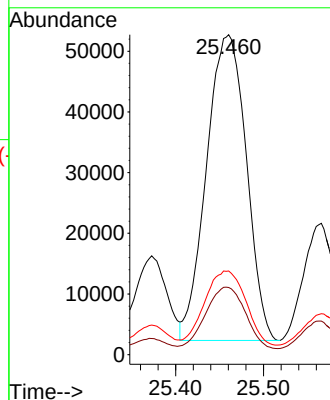
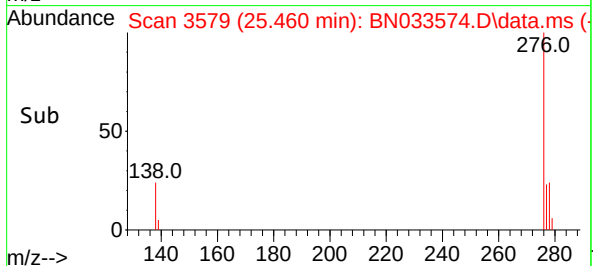
279 26.1 21.0 31.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#41

Benzo(g,h,i)perylene

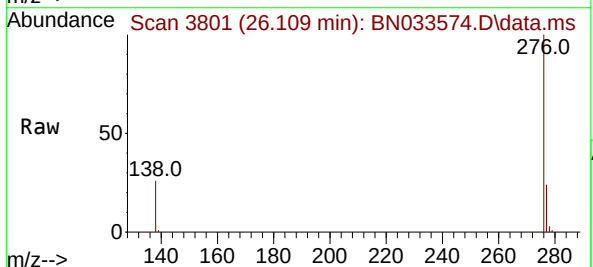
Concen: 6.668 ng

RT: 26.109 min Scan# 3801

Delta R.T. 0.006 min

Lab File: BN033574.D

Acq: 23 Aug 2024 04:42



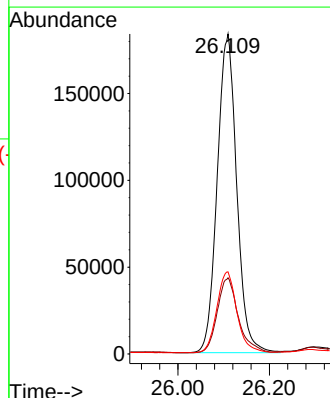
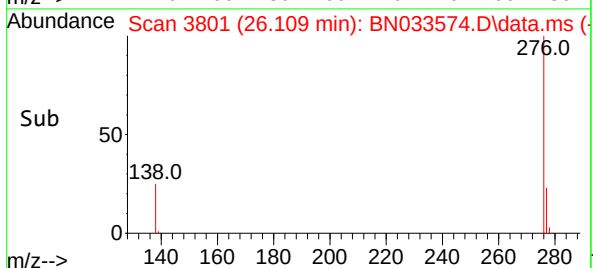
Tgt Ion:276 Resp: 543217

Ion Ratio Lower Upper

276 100

277 23.8 19.7 29.5

138 25.6 21.8 32.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924-FDDL	SDG No.:	P3671
Lab Sample ID:	P3671-07DL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	76.6
Sample Wt/Vol:	30.01 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033613.D	10	08/21/24 09:38	08/24/24 05:57	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	9.00	UD	9.00	43.1	ug/Kg
91-57-6	2-Methylnaphthalene	10.4	UD	10.4	43.1	ug/Kg
208-96-8	Acenaphthylene	8.20	UD	8.20	43.1	ug/Kg
83-32-9	Acenaphthene	23.5	JD	7.20	43.1	ug/Kg
86-73-7	Fluorene	20.9	JD	7.80	43.1	ug/Kg
85-01-8	Phenanthrene	370	D	8.20	43.1	ug/Kg
120-12-7	Anthracene	110	D	10.3	43.1	ug/Kg
206-44-0	Fluoranthene	1200	D	8.70	43.1	ug/Kg
129-00-0	Pyrene	810	D	12.4	43.1	ug/Kg
56-55-3	Benzo(a)anthracene	760	D	9.90	43.1	ug/Kg
218-01-9	Chrysene	650	D	11.2	43.1	ug/Kg
205-99-2	Benzo(b)fluoranthene	800	D	15.5	43.1	ug/Kg
207-08-9	Benzo(k)fluoranthene	270	D	12.8	43.1	ug/Kg
50-32-8	Benzo(a)pyrene	660	D	21.7	43.1	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	280	D	16.4	43.1	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	93.1	D	15.3	43.1	ug/Kg
191-24-2	Benzo(g,h,i)perylene	290	D	14.9	43.1	ug/Kg
123-91-1	1,4-Dioxane	29.0	UD	29.0	86.1	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.16		30 (17) - 150 (161)	40%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.12		30 (23) - 150 (138)	30%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		30 (33) - 130 (121)	63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.15		30 (32) - 130 (121)	38%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.11	*	30 (21) - 130 (130)	28%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	9370	7.545			
1146-65-2	Naphthalene-d8	22500	10.304			
15067-26-2	Acenaphthene-d10	10400	14.178			
1517-22-2	Phenanthrene-d10	19700	16.929			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924-FDDL	SDG No.:	P3671
Lab Sample ID:	P3671-07DL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	76.6
Sample Wt/Vol:	30.01 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033613.D	10	08/21/24 09:38	08/24/24 05:57	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	16900	21.13			
1520-96-3	Perylene-d12	18200	23.297			

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\BN082324\
 Data File : BN033613.D
 Acq On : 24 Aug 2024 05:57
 Operator : MA/JU
 Sample : P3671-07DL 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-905-KJ-SO-0-0.5-081924-FDDL

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 08/26/2024
 Supervised By :mohammad ahmed 08/29/2024

Quant Time: Aug 24 06:23:48 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 00:22:18 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	9368	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	22518	0.400	ng	# 0.00
13) Acenaphthene-d10	14.178	164	10375	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	19734	0.400	ng	0.00
29) Chrysene-d12	21.130	240	16882	0.400	ng	0.00
35) Perylene-d12	23.297	264	18150	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.176	112	621	0.021	ng	0.00
5) Phenol-d6	6.736	99	676	0.019	ng	0.00
8) Nitrobenzene-d5	8.670	82	461	0.025	ng	-0.01
11) 2-Methylnaphthalene-d10	11.900	152	518	0.016	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	110	0.020	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	654	0.015	ng	0.00
27) Fluoranthene-d10	18.970	212	588	0.012	ng	0.00
31) Terphenyl-d14	19.583	244	431	0.011	ng	0.00
Target Compounds						
17) Acenaphthene	14.242	154	1716	0.054	ng	Qvalue 97
18) Fluorene	15.236	166	1952	0.048	ng	99
25) Phenanthrene	16.967	178	46598	0.849	ng	100
26) Anthracene	17.053	178	12522	0.258	ng	97
28) Fluoranthene	18.998	202	161055	2.655	ng	99
30) Pyrene	19.360	202	140751	1.868	ng	# 94
32) Benzo(a)anthracene	21.121	228	106829	1.750	ng	99
33) Chrysene	21.166	228	91115	1.502	ng	97
34) Bis(2-ethylhexyl)phtha...	21.077	149	1317m	0.034	ng	
36) Indeno(1,2,3-cd)pyrene	25.443	276	48539	0.644	ng	# 94
37) Benzo(b)fluoranthene	22.657	252	125342	1.849	ng	# 96
38) Benzo(k)fluoranthene	22.695	252	41286m	0.619	ng	
39) Benzo(a)pyrene	23.203	252	85496m	1.524	ng	
40) Dibenzo(a,h)anthracene	25.452	278	12902	0.214	ng	# 90
41) Benzo(g,h,i)perylene	26.098	276	43198	0.670	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033613.D
Acq On : 24 Aug 2024 05:57
Operator : MA/JU
Sample : P3671-07DL 10X
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

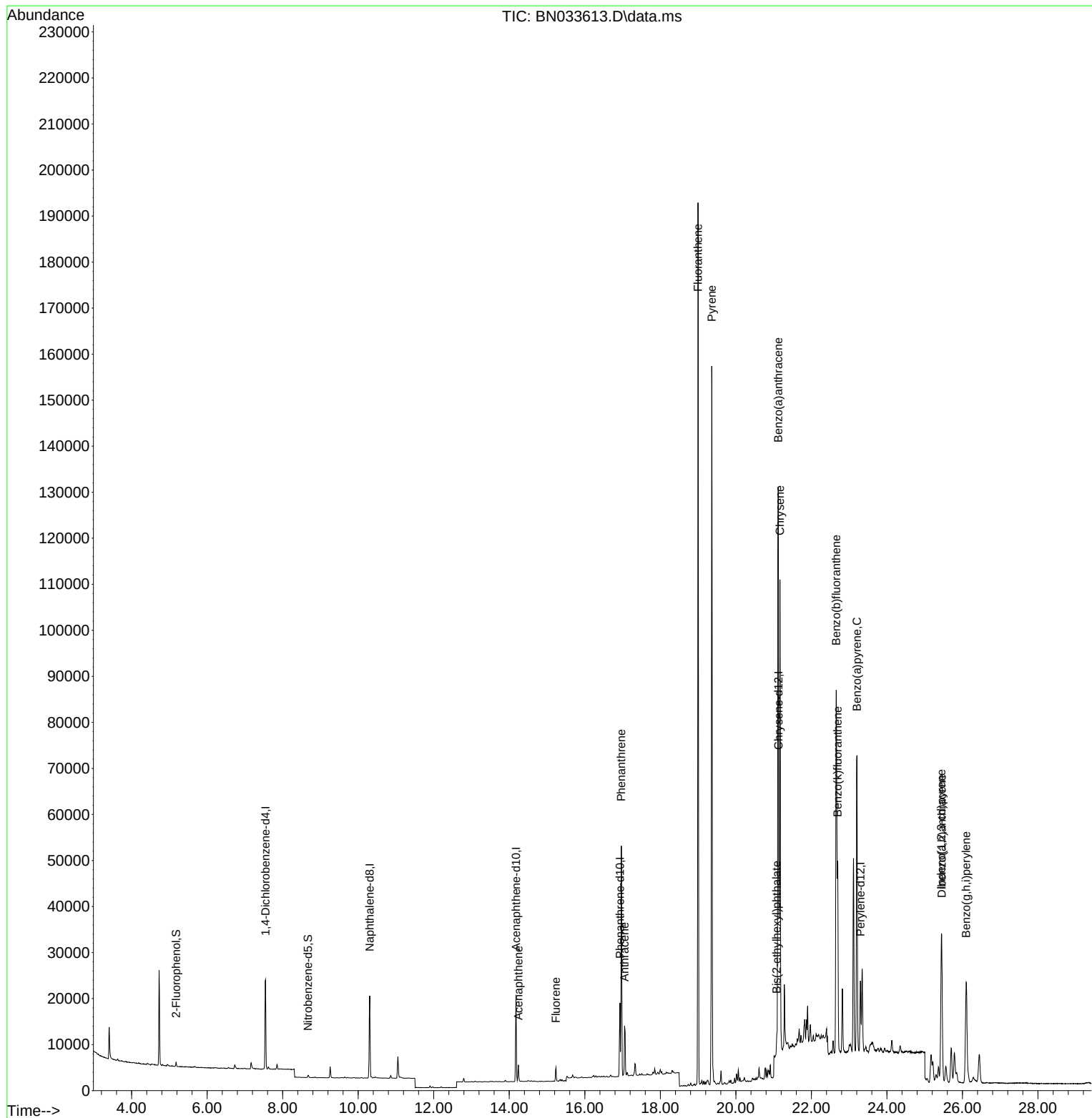
S-905-KJ-SO-0-0.5-081924-FDDL

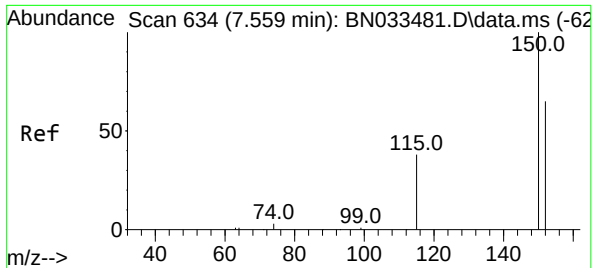
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024

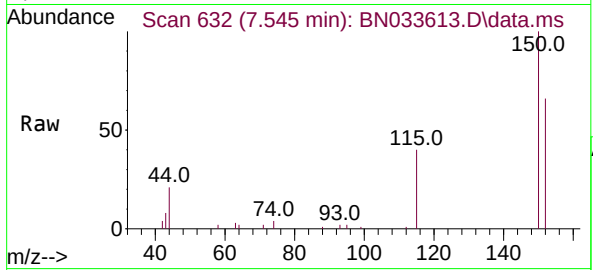
Quant Time: Aug 24 06:23:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

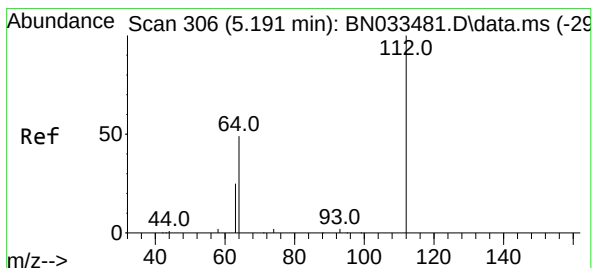
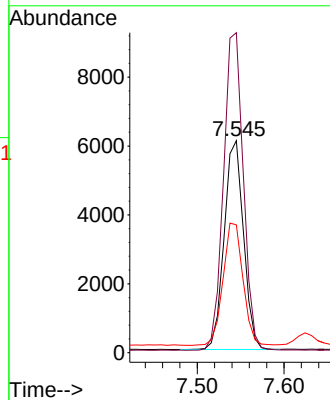
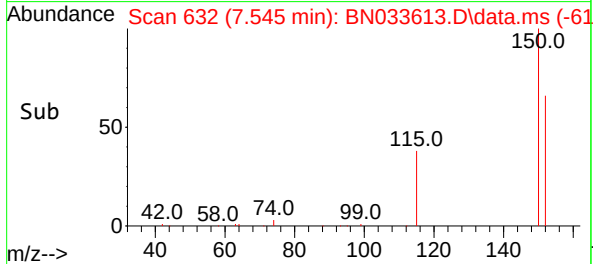
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FDDL



Tgt Ion:152 Resp: 936
Ion Ratio Lower Upper
152 100
150 150.9 122.2 183.2
115 60.3 47.2 70.8

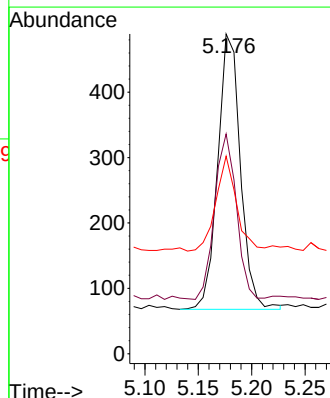
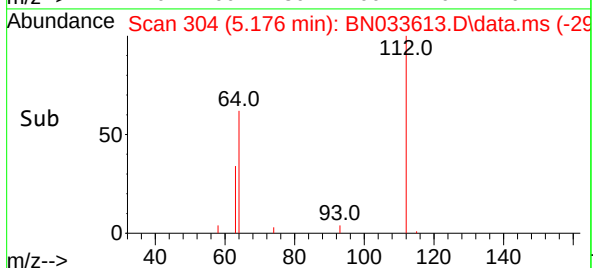
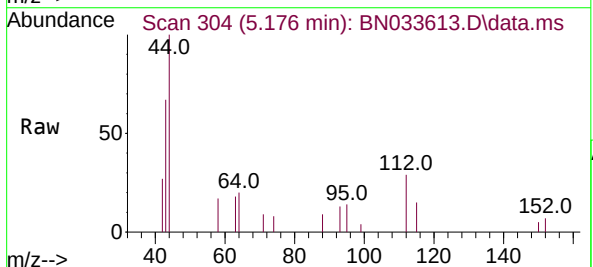
Manual Integrations
APPROVED

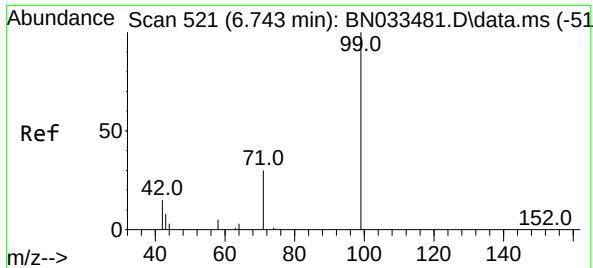
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#4
2-Fluorophenol
Concen: 0.021 ng
RT: 5.176 min Scan# 304
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

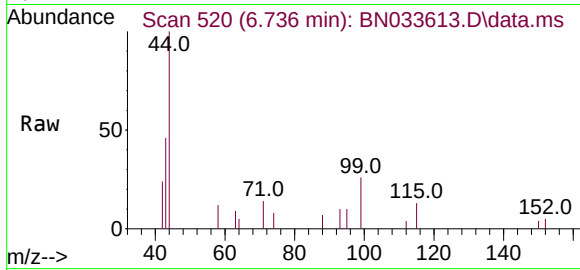
Tgt Ion:112 Resp: 621
Ion Ratio Lower Upper
112 100
64 57.0 47.1 70.7
63 31.2 24.9 37.3





#5
Phenol-d6
Concen: 0.019 ng
RT: 6.736 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

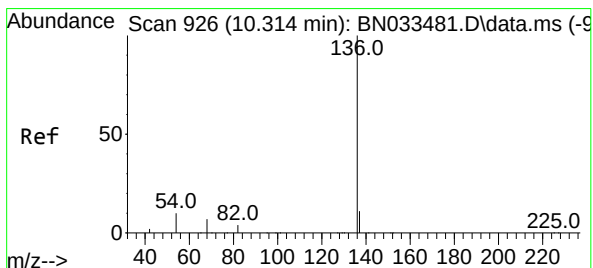
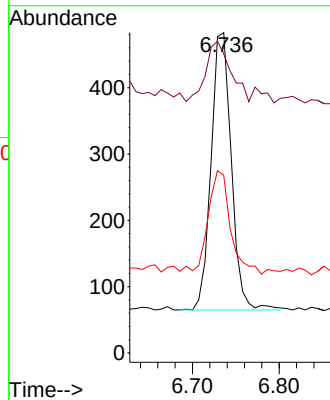
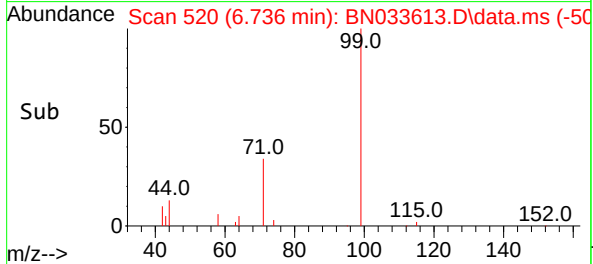
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FDDL



Tgt Ion: 99 Resp: 670
Ion Ratio Lower Upper
99 100
42 26.3 16.6 24.8
71 41.6 26.2 39.4

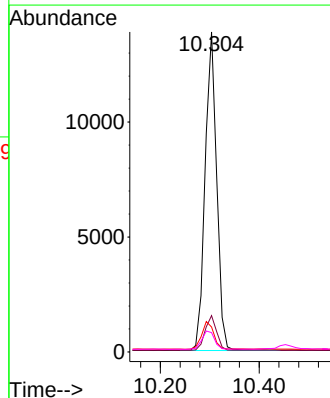
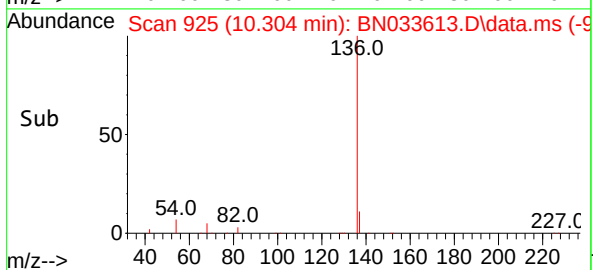
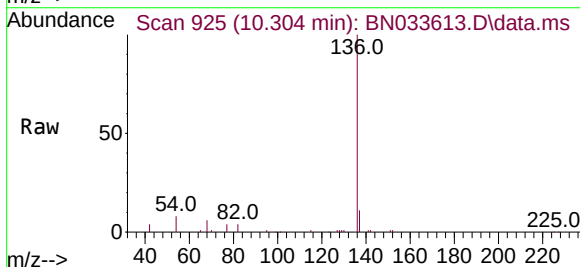
Manual Integrations
APPROVED

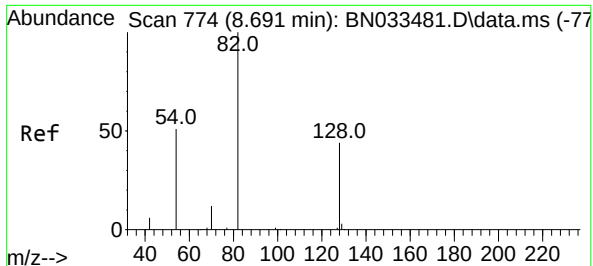
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

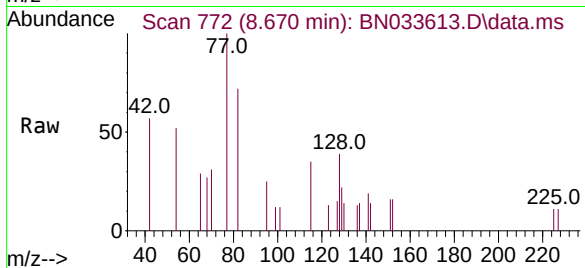
Tgt Ion:136 Resp: 22518
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 7.8 8.3 12.5
68 6.0 5.9 8.9





#8
Nitrobenzene-d5
Concen: 0.025 ng
RT: 8.670 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

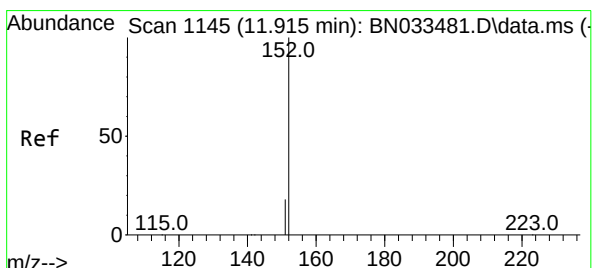
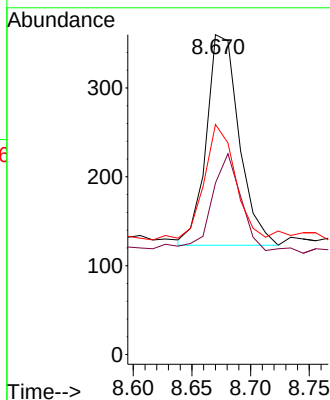
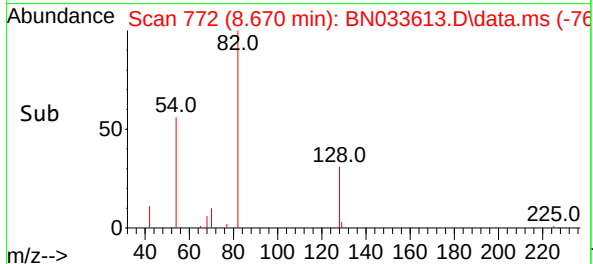
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FDDL



Tgt Ion: 82 Resp: 46
Ion Ratio Lower Upper
82 100
128 53.6 36.0 54.0
54 71.9 42.0 63.0

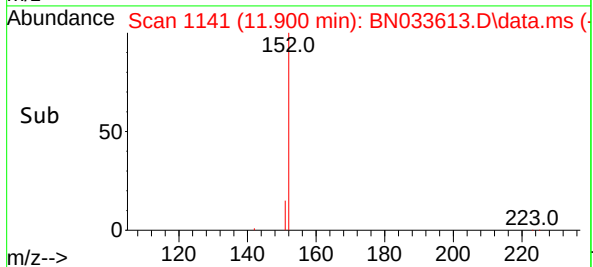
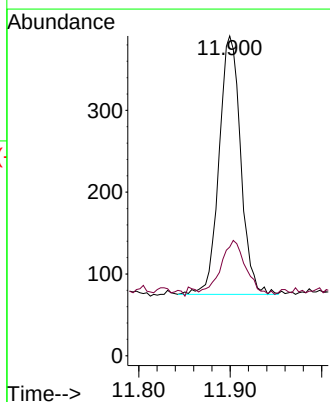
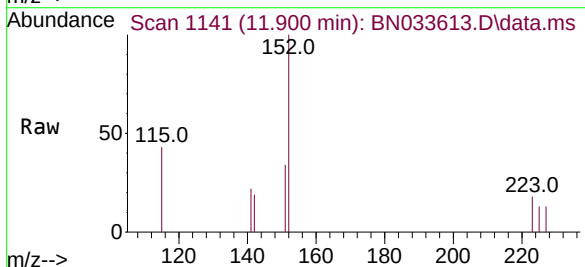
Manual Integrations
APPROVED

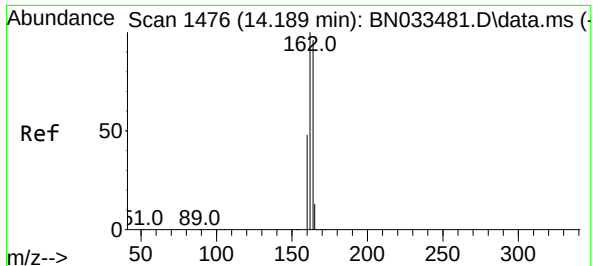
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#11
2-Methylnaphthalene-d10
Concen: 0.016 ng
RT: 11.900 min Scan# 1141
Delta R.T. -0.004 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

Tgt Ion:152 Resp: 518
Ion Ratio Lower Upper
152 100
151 23.9 16.6 25.0





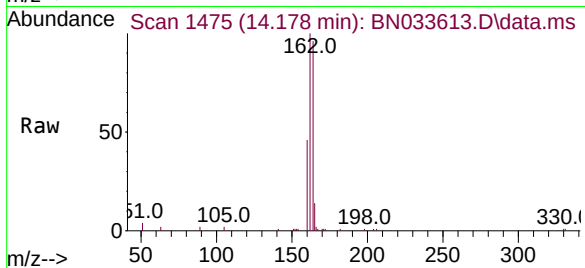
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924-FDDL

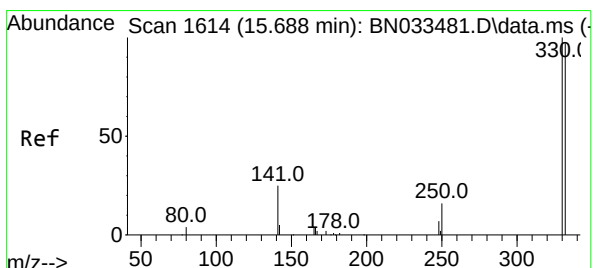
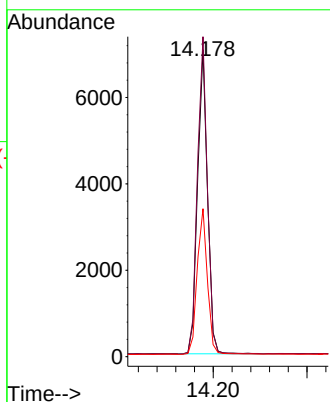
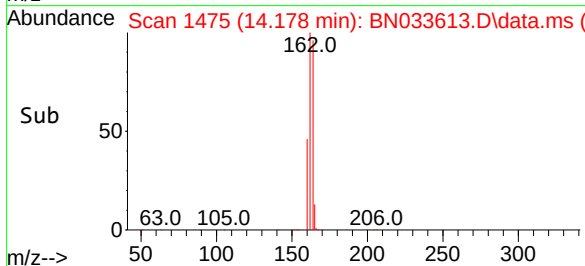


Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	83.5	125.3
160	48.2	40.2	60.4

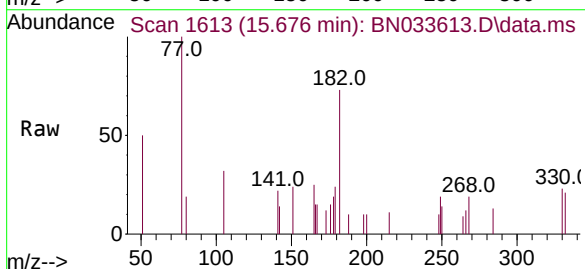
Manual Integrations

APPROVED

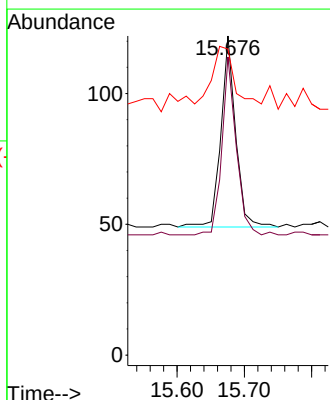
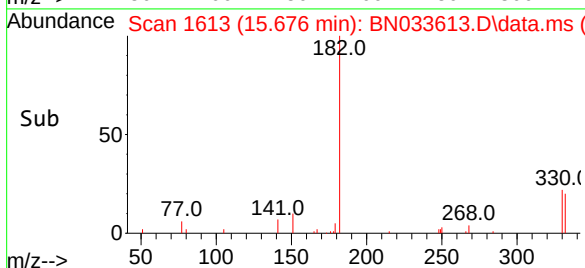
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024

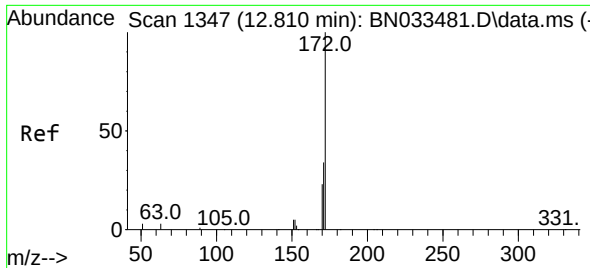


#14
2,4,6-Tribromophenol
Concen: 0.020 ng
RT: 15.676 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57



Tgt Ion	Ratio	Lower	Upper
330	100		
332	90.9	77.5	116.3
141	48.2	33.9	50.9





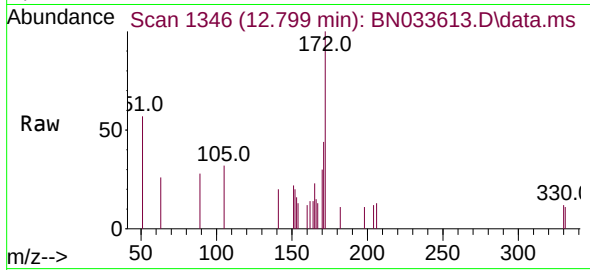
#15
2-Fluorobiphenyl
Concen: 0.015 ng
RT: 12.799 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924-FDDL

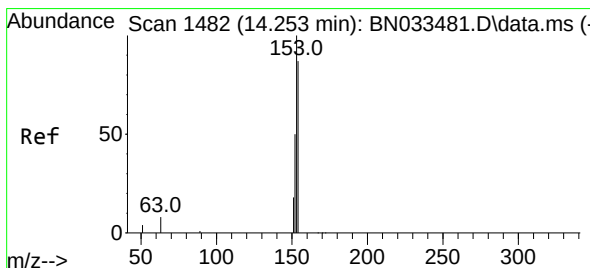
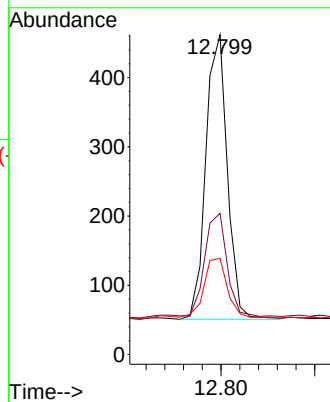
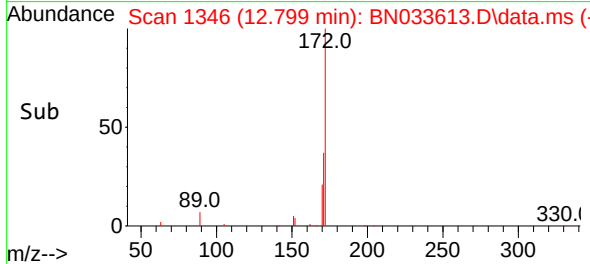


Tgt Ion	Ratio	Lower	Upper
172	100		
171	44.2	27.7	41.5
170	30.1	18.3	27.5

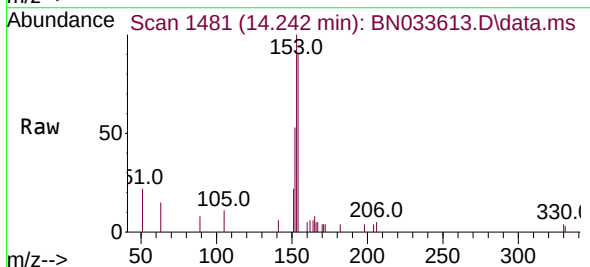
Manual Integrations

APPROVED

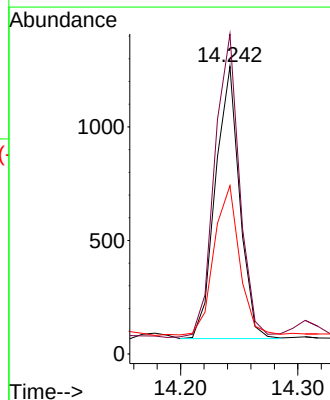
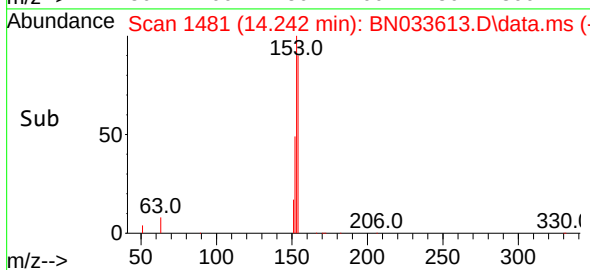
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024

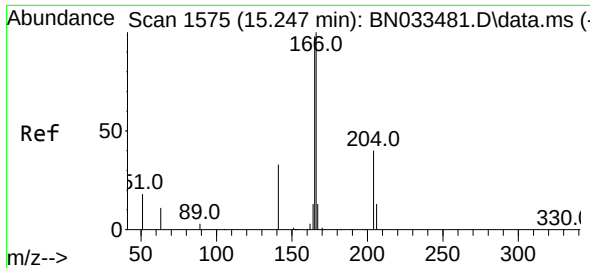


#17
Acenaphthene
Concen: 0.054 ng
RT: 14.242 min Scan# 1481
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57



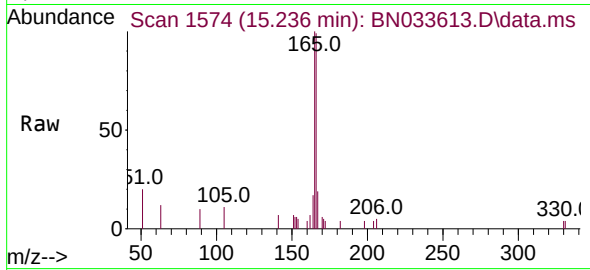
Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.5	89.0	133.6
152	58.3	45.2	67.8





#18
Fluorene
Concen: 0.048 ng
RT: 15.236 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

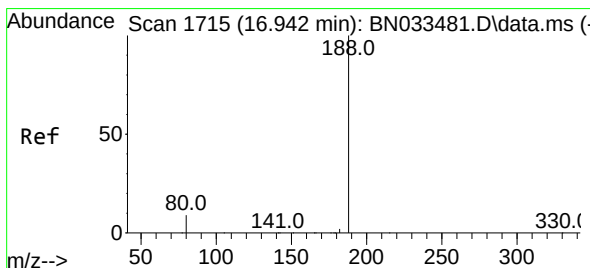
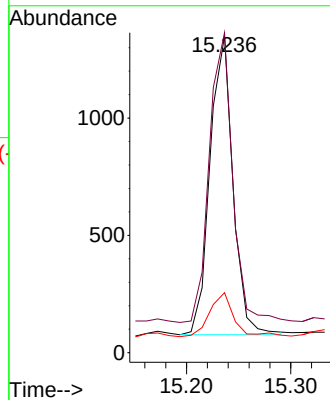
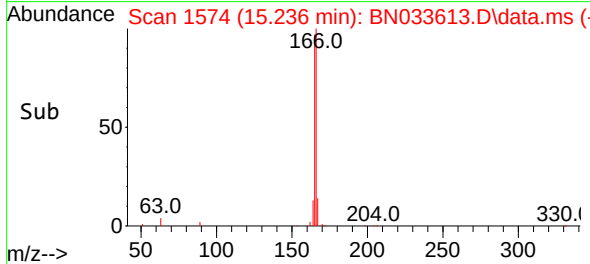
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FDDL



Tgt Ion:166 Resp: 1952
Ion Ratio Lower Upper
166 100
165 98.0 78.2 117.4
167 15.7 10.6 16.0

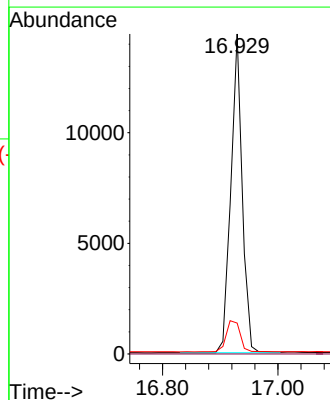
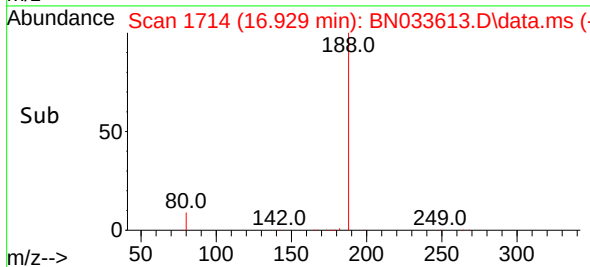
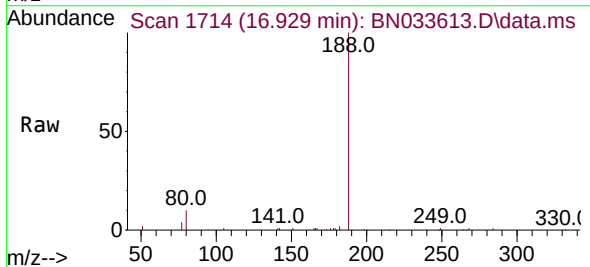
Manual Integrations
APPROVED

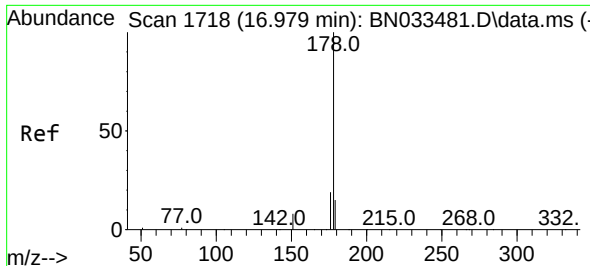
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

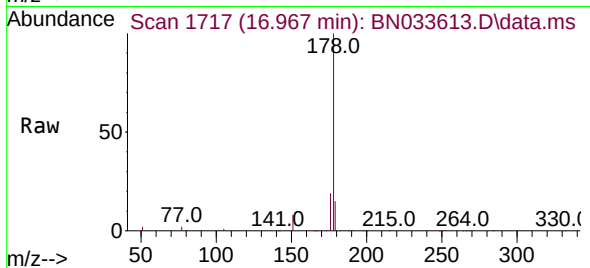
Tgt Ion:188 Resp: 19734
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.7 7.8 11.8





#25
Phenanthrene
Concen: 0.849 ng
RT: 16.967 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

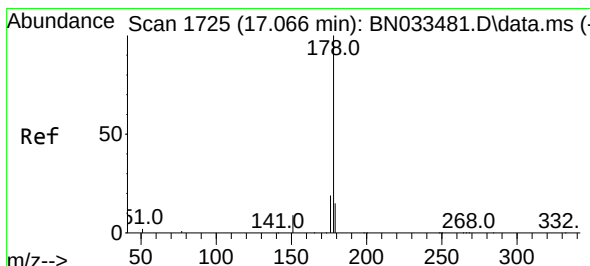
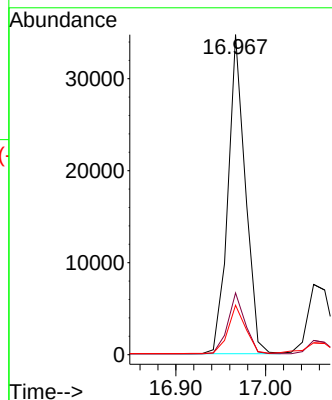
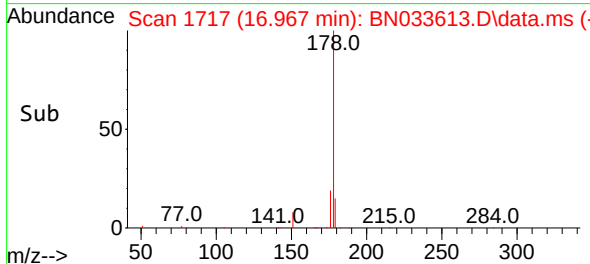
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FDDL



Tgt Ion:178 Resp: 46598
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.3 12.3 18.5

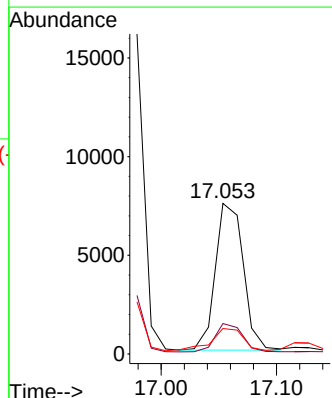
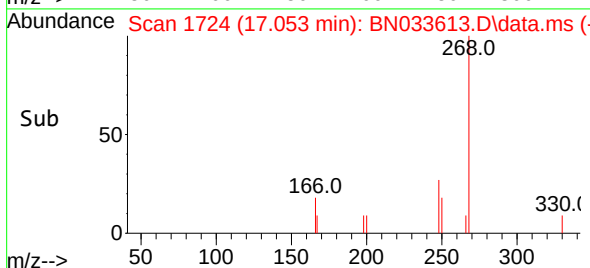
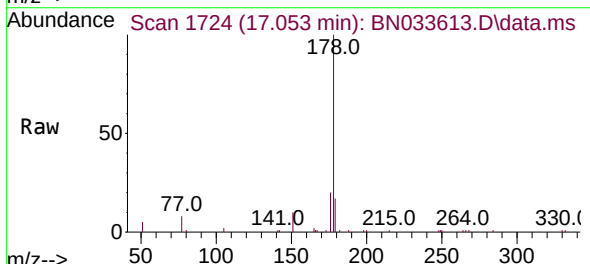
Manual Integrations
APPROVED

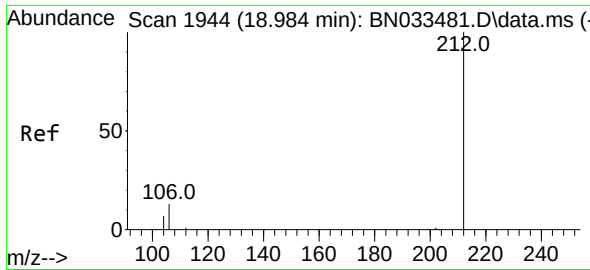
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#26
Anthracene
Concen: 0.258 ng
RT: 17.053 min Scan# 1724
Delta R.T. -0.012 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

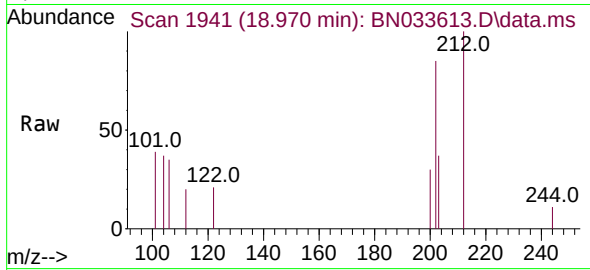
Tgt Ion:178 Resp: 12522
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 17.6 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.012 ng
RT: 18.970 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

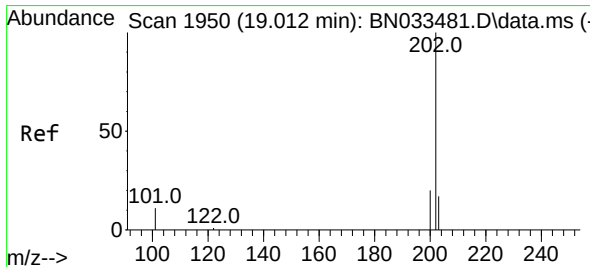
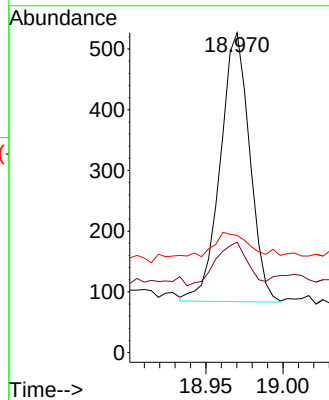
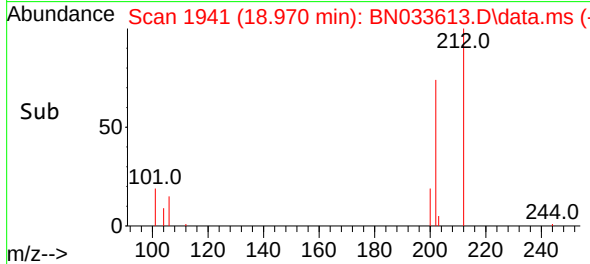
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FDDL



Tgt Ion:212 Resp: 588
Ion Ratio Lower Upper
212 100
106 17.3 12.3 18.5
104 10.0 7.0 10.4

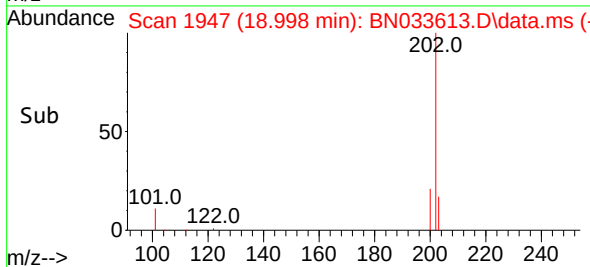
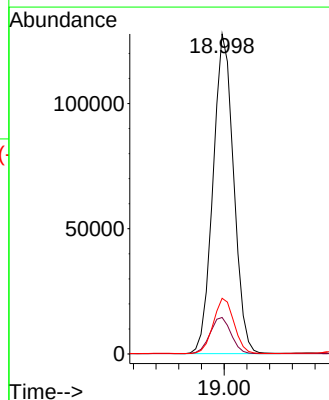
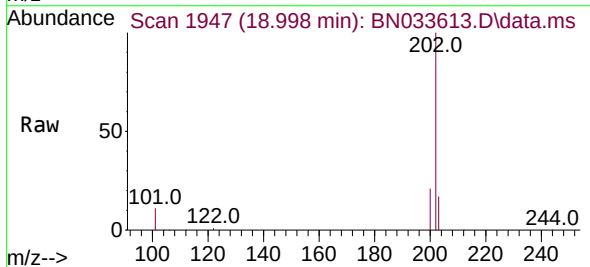
Manual Integrations
APPROVED

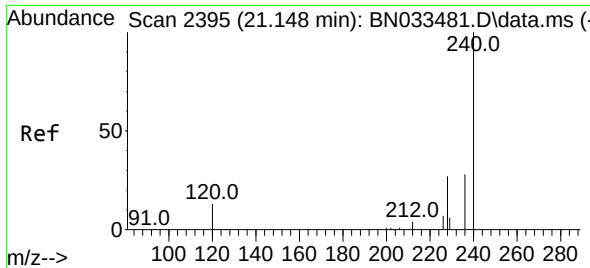
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#28
Fluoranthene
Concen: 2.655 ng
RT: 18.998 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

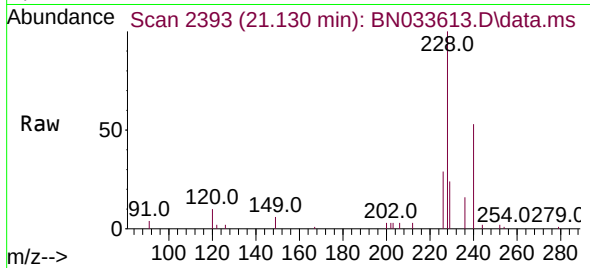
Tgt Ion:202 Resp: 161055
Ion Ratio Lower Upper
202 100
101 11.6 9.5 14.3
203 17.3 13.8 20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.130 min Scan# 21130
Delta R.T. -0.009 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

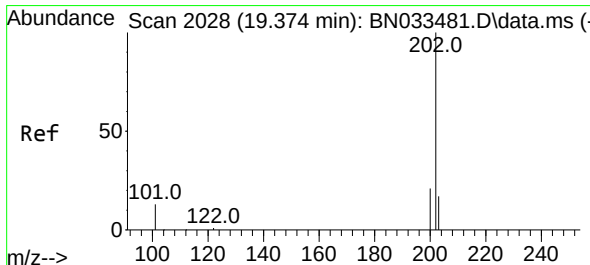
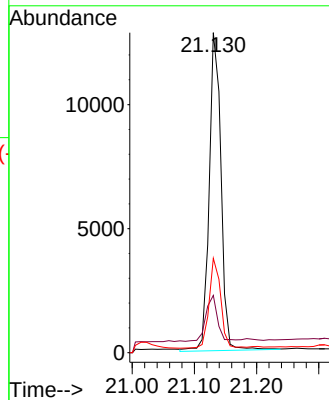
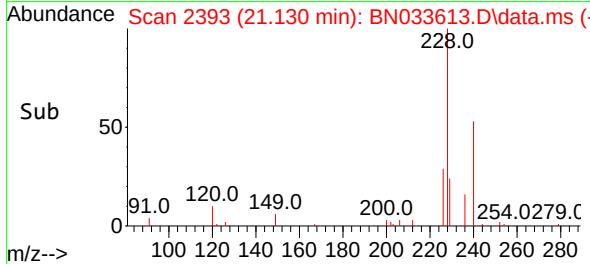
Instrument :
BNA_N
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FDDL



Tgt Ion:240 Resp: 1688
Ion Ratio Lower Upper
240 100
120 17.9 12.4 18.6
236 29.5 23.0 34.6

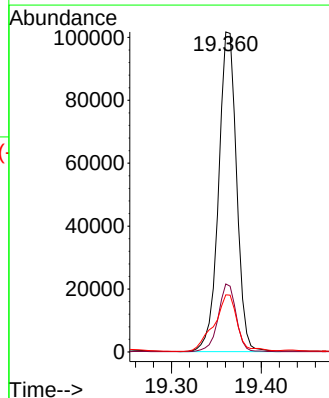
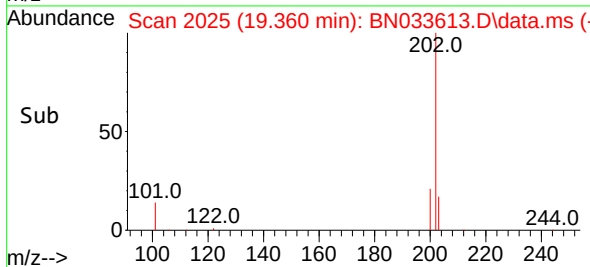
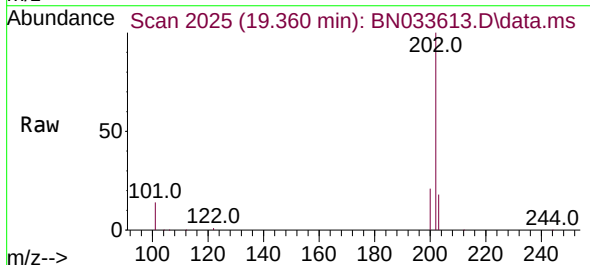
Manual Integrations
APPROVED

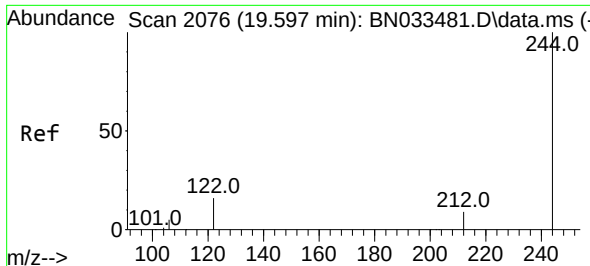
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#30
Pyrene
Concen: 1.868 ng
RT: 19.360 min Scan# 2025
Delta R.T. -0.005 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

Tgt Ion:202 Resp: 140751
Ion Ratio Lower Upper
202 100
200 21.1 16.6 24.8
203 22.7 14.2 21.4#





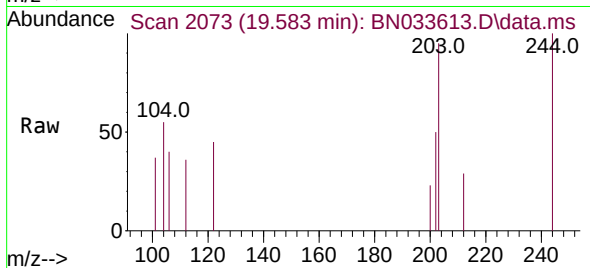
#31
Terphenyl-d14
Concen: 0.011 ng
RT: 19.583 min Scan# 2073
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924-FDDL

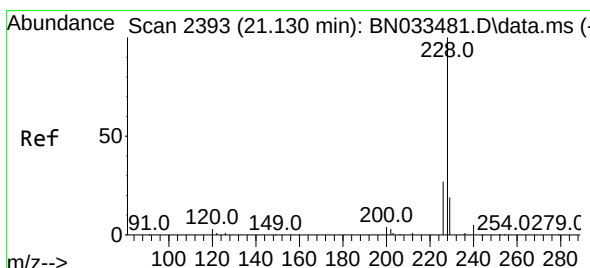
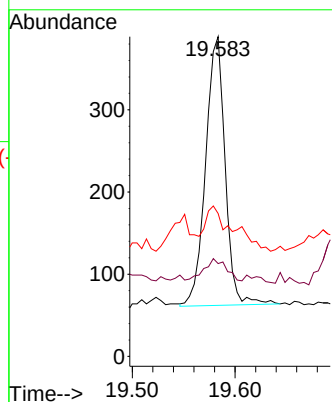
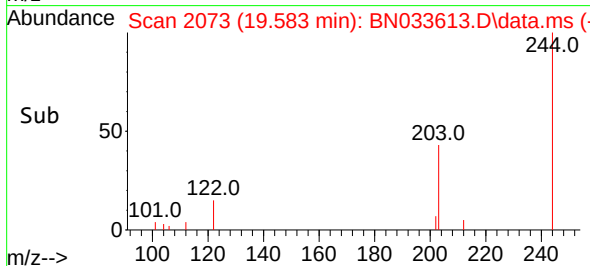


Tgt Ion:244 Resp: 43
Ion Ratio Lower Upper
244 100
212 29.0 7.8 11.6
122 44.7 13.3 19.9

Manual Integrations

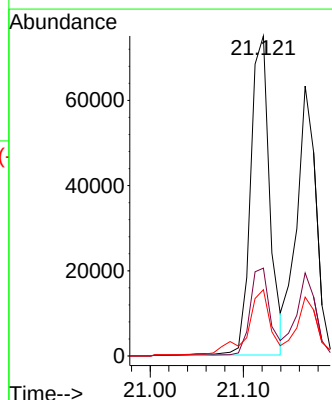
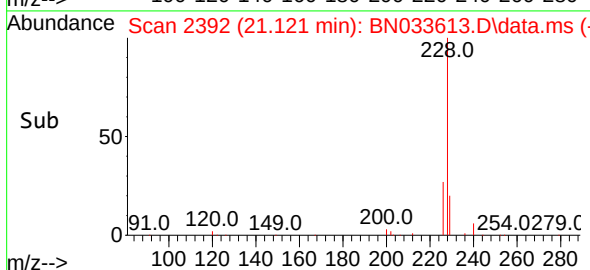
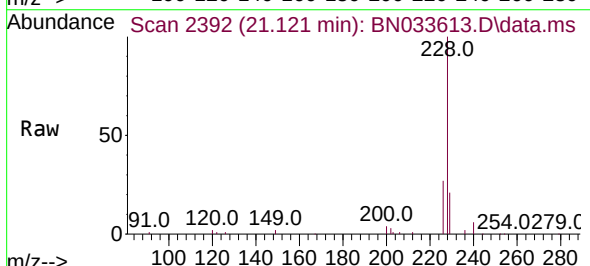
APPROVED

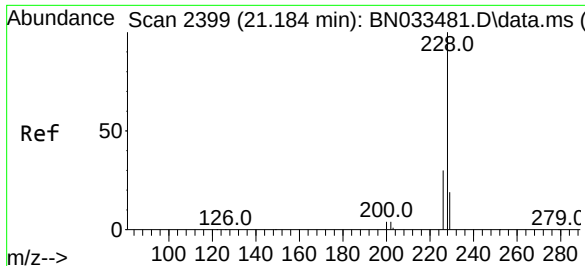
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#32
Benzo(a)anthracene
Concen: 1.750 ng
RT: 21.121 min Scan# 2392
Delta R.T. -0.000 min
Lab File: BN033613.D
Acq: 24 Aug 2024 05:57

Tgt Ion:228 Resp: 106829
Ion Ratio Lower Upper
228 100
226 27.5 21.8 32.6
229 20.7 15.8 23.6





#33

Chrysene

Concen: 1.502 ng

RT: 21.166 min Scan# 2111

Delta R.T. -0.009 min

Lab File: BN033613.D

Acq: 24 Aug 2024 05:57

Instrument :

BNA_N

ClientSampleId :

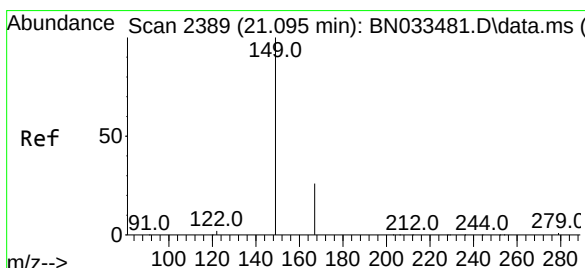
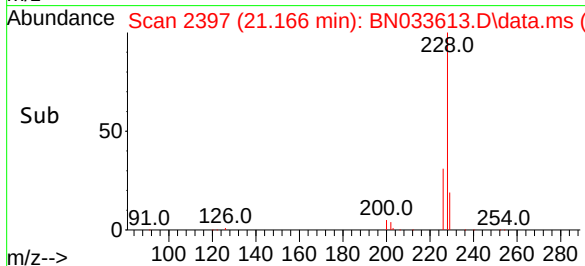
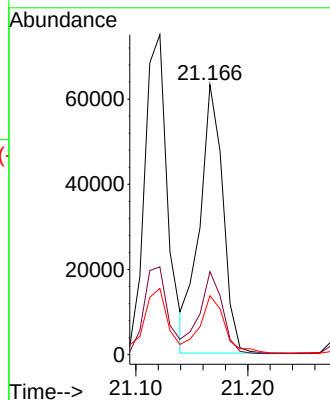
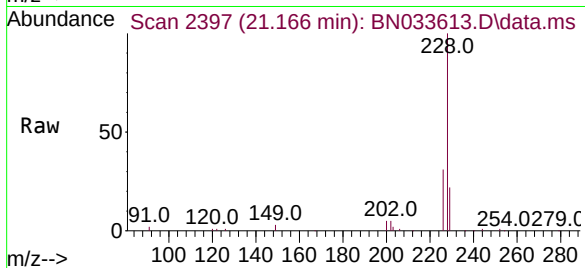
S-905-KJ-SO-0-0.5-081924-FDDL

Tgt Ion	228	226	229
Ratio	100	30.7	21.8
Lower		23.8	15.6
Upper		35.8	23.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.034 ng m

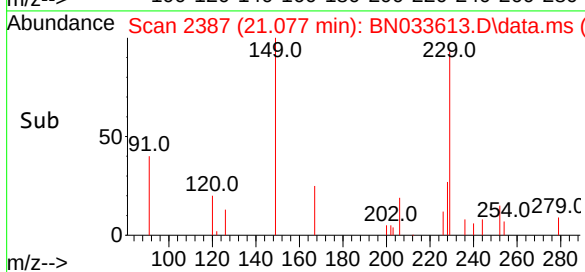
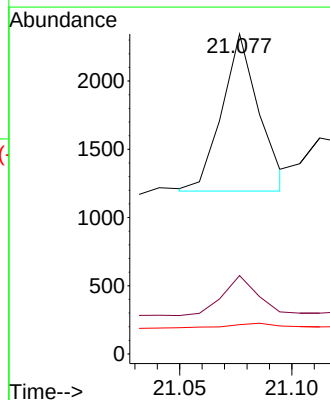
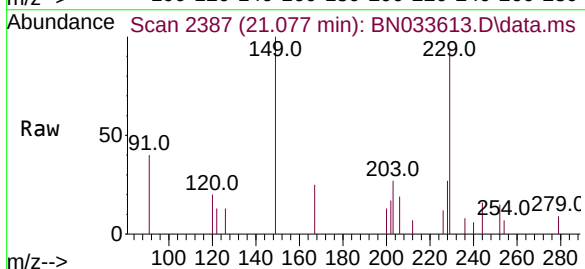
RT: 21.077 min Scan# 2387

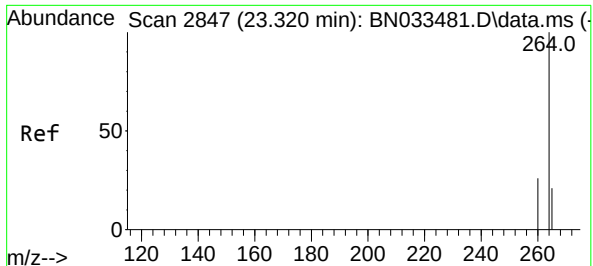
Delta R.T. -0.009 min

Lab File: BN033613.D

Acq: 24 Aug 2024 05:57

Tgt Ion	149	167	279
Ratio	100	150.3	97.4
Lower		21.5	2.2
Upper		32.3#	3.2#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.297 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN033613.D

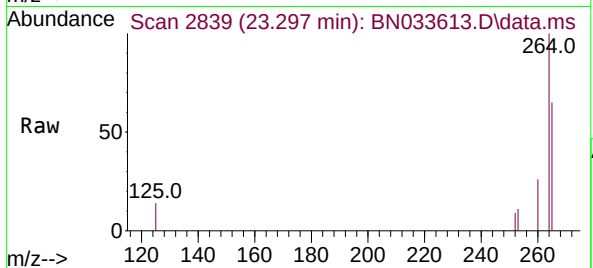
Acq: 24 Aug 2024 05:57

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924-FDDL



Tgt Ion:264 Resp: 18150

Ion Ratio Lower Upper

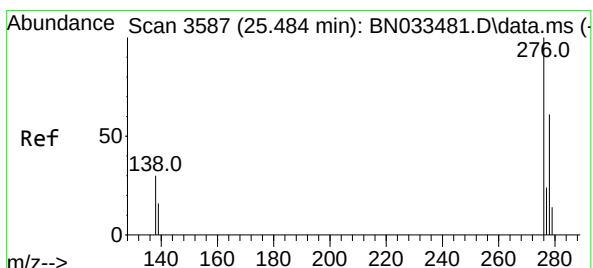
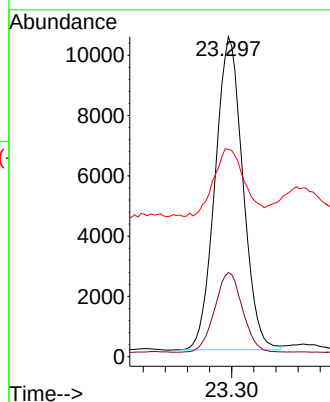
264 100

260 26.3 20.8 31.2

265 64.8 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024

#36

Indeno(1,2,3-cd)pyrene

Concen: 0.644 ng

RT: 25.443 min Scan# 3573

Delta R.T. -0.006 min

Lab File: BN033613.D

Acq: 24 Aug 2024 05:57

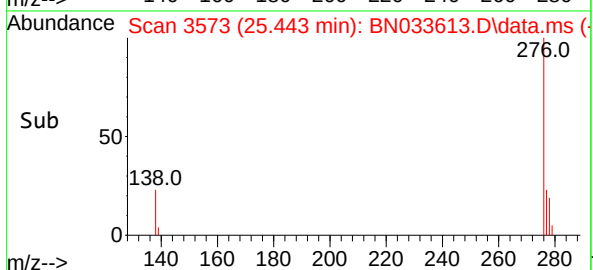
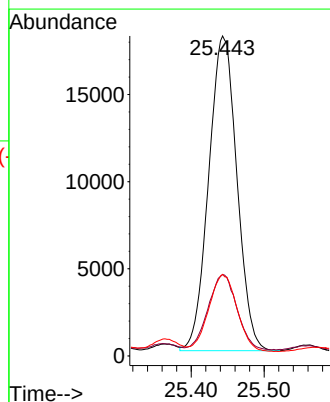
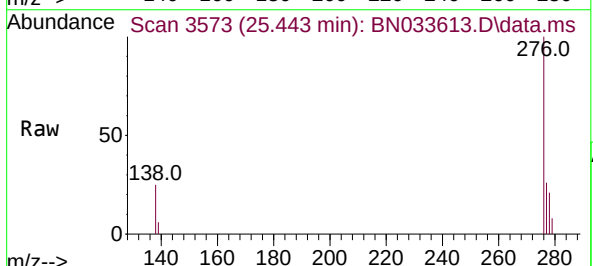
Tgt Ion:276 Resp: 48539

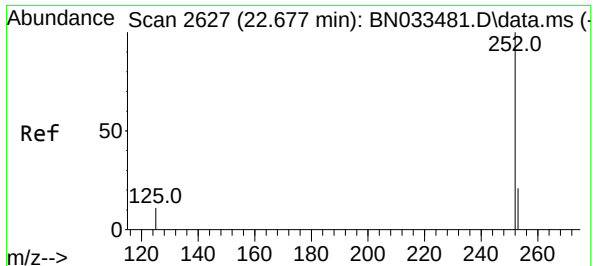
Ion Ratio Lower Upper

276 100

138 24.4 24.4 36.6#

277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 1.849 ng

RT: 22.657 min Scan# 2620

Delta R.T. -0.003 min

Lab File: BN033613.D

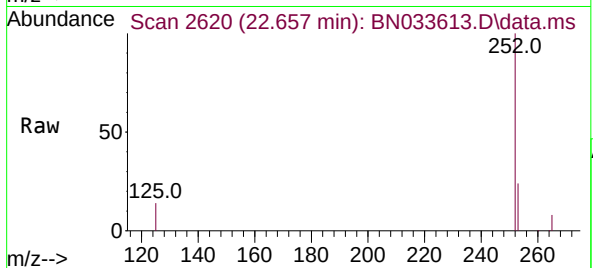
Acq: 24 Aug 2024 05:57

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924-FDDL

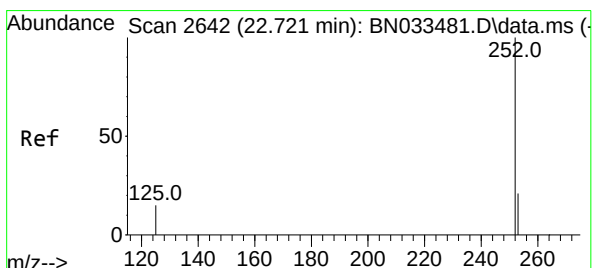
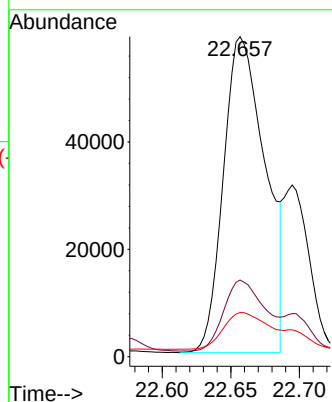


Tgt Ion:252	Resp:	12534
Ion Ratio	Lower	Upper
252	100	
253	24.0	19.8 29.8
125	13.8	13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#38

Benzo(k)fluoranthene

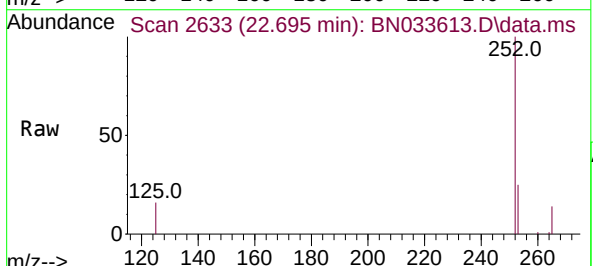
Concen: 0.619 ng m

RT: 22.695 min Scan# 2633

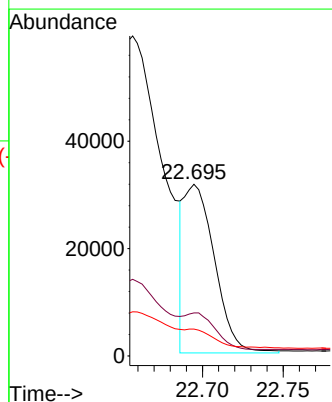
Delta R.T. -0.009 min

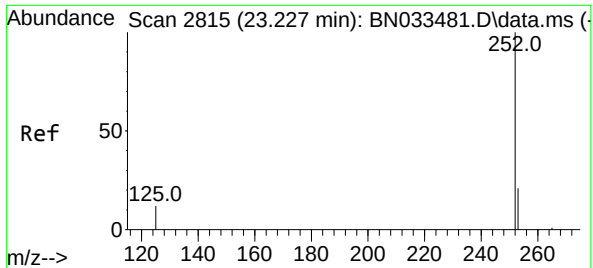
Lab File: BN033613.D

Acq: 24 Aug 2024 05:57



Tgt Ion:252	Resp:	41286
Ion Ratio	Lower	Upper
252	100	
253	25.0	19.8 29.8
125	15.6	15.8 23.8





#39

Benzo(a)pyrene

Concen: 1.524 ng m

RT: 23.203 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN033613.D

Acq: 24 Aug 2024 05:57

Instrument :

BNA_N

ClientSampleId :

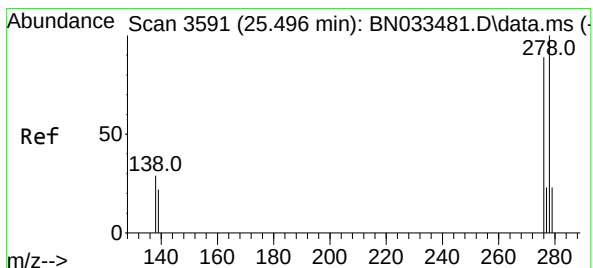
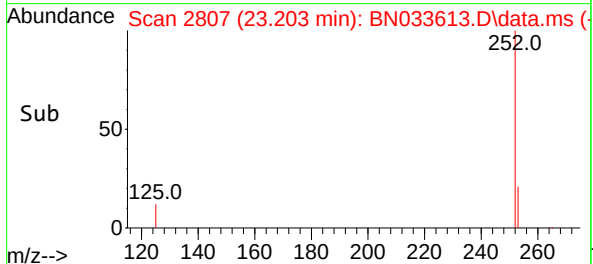
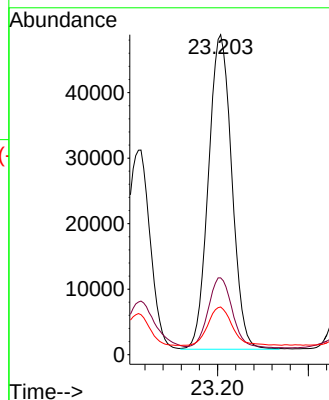
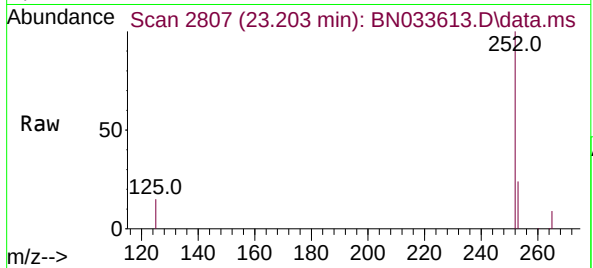
S-905-KJ-SO-0-0.5-081924-FDDL

Tgt Ion:	252	Resp:	85490
Ion Ratio	Lower	Upper	
252	100		
253	24.0	21.5	32.3
125	14.9	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.214 ng

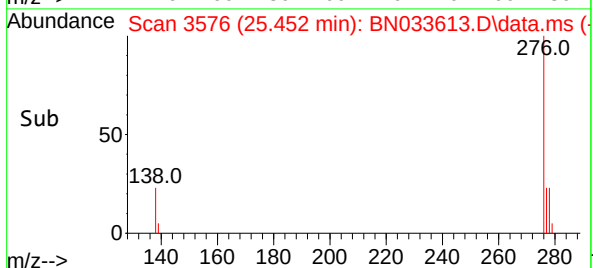
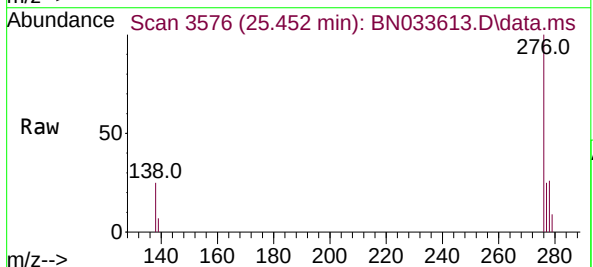
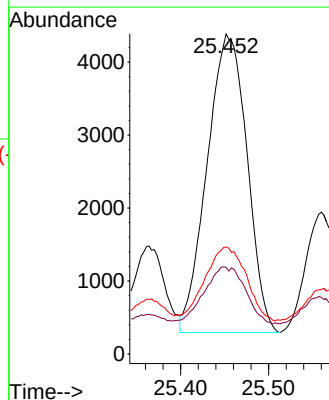
RT: 25.452 min Scan# 3576

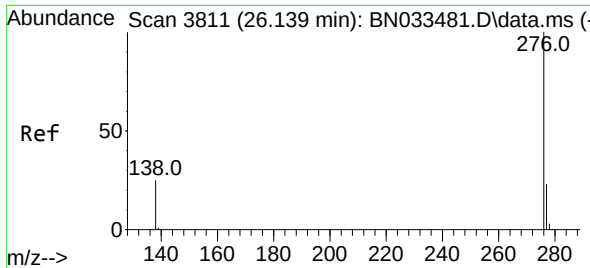
Delta R.T. -0.018 min

Lab File: BN033613.D

Acq: 24 Aug 2024 05:57

Tgt Ion:	278	Resp:	12902
Ion Ratio	Lower	Upper	
278	100		
139	27.1	19.1	28.7
279	33.4	21.0	31.4





#41

Benzo(g,h,i)perylene

Concen: 0.670 ng

RT: 26.098 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN033613.D

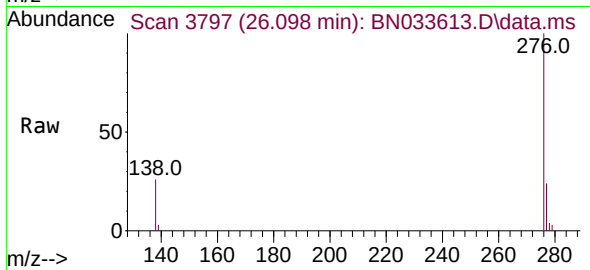
Acq: 24 Aug 2024 05:57

Instrument :

BNA_N

ClientSampleId :

S-905-KJ-SO-0-0.5-081924-FDDL



Tgt Ion:276 Resp: 43198

Ion Ratio Lower Upper

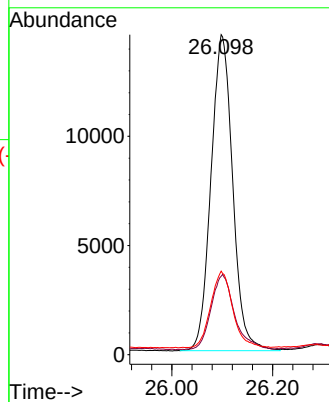
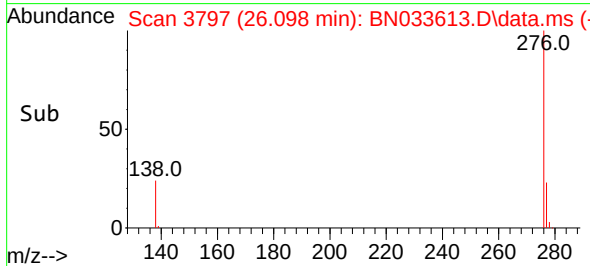
276 100

277 24.5 19.7 29.5

138 26.1 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-09	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	48
Sample Wt/Vol:	30.09 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033569.D	1	08/21/24 09:38	08/23/24 01:41	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1.40	U	1.40	6.90	ug/Kg
91-57-6	2-Methylnaphthalene	1.70	U	1.70	6.90	ug/Kg
208-96-8	Acenaphthylene	2.00	J	1.30	6.90	ug/Kg
83-32-9	Acenaphthene	1.10	U	1.10	6.90	ug/Kg
86-73-7	Fluorene	1.20	U	1.20	6.90	ug/Kg
85-01-8	Phenanthrene	13.0		1.30	6.90	ug/Kg
120-12-7	Anthracene	2.20	J	1.60	6.90	ug/Kg
206-44-0	Fluoranthene	28.7		1.40	6.90	ug/Kg
129-00-0	Pyrene	23.0		2.00	6.90	ug/Kg
56-55-3	Benzo(a)anthracene	12.9		1.60	6.90	ug/Kg
218-01-9	Chrysene	17.1		1.80	6.90	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.0		2.50	6.90	ug/Kg
207-08-9	Benzo(k)fluoranthene	8.00		2.00	6.90	ug/Kg
50-32-8	Benzo(a)pyrene	15.7		3.40	6.90	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	9.40		2.60	6.90	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2.70	J	2.40	6.90	ug/Kg
191-24-2	Benzo(g,h,i)perylene	11.3		2.40	6.90	ug/Kg
123-91-1	1,4-Dioxane	4.60	U	4.60	13.7	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.15		30 (17) - 150 (161)	37%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.13		30 (23) - 150 (138)	32%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.20		30 (33) - 130 (121)	49%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.15		30 (32) - 130 (121)	37%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.12		30 (21) - 130 (130)	31%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8110		7.545		
1146-65-2	Naphthalene-d8	21300		10.304		
15067-26-2	Acenaphthene-d10	10500		14.178		
1517-22-2	Phenanthrene-d10	20500		16.929		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-09	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	48
Sample Wt/Vol:	30.09 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033569.D	1	08/21/24 09:38	08/23/24 01:41	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	15400	21.139			
1520-96-3	Perylene-d12	17300	23.3			

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\BN082224\
 Data File : BN033569.D
 Acq On : 23 Aug 2024 01:41
 Operator : MA/JU
 Sample : P3671-09
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-928-KI-SO-0-0.5-081924

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/23/2024
 Supervised By :mohammad ahmed 08/24/2024

Quant Time: Aug 23 02:37:20 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 00:22:18 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	8106	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	21263	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	10490	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	20512	0.400	ng	0.00
29) Chrysene-d12	21.139	240	15408	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	17341	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	4125	0.160	ng	0.00
5) Phenol-d6	6.729	99	5024	0.164	ng	0.00
8) Nitrobenzene-d5	8.681	82	3434	0.195	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	4545	0.149	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	810	0.144	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	6379	0.149	ng	0.00
27) Fluoranthene-d10	18.970	212	6326	0.128	ng	0.00
31) Terphenyl-d14	19.584	244	4283	0.122	ng	0.00
Target Compounds						
16) Acenaphthylene	13.900	152	1331	0.029	ng	Qvalue 98
25) Phenanthrene	16.967	178	10734m	0.188	ng	
26) Anthracene	17.066	178	1598	0.032	ng	# 91
28) Fluoranthene	19.003	202	26129	0.414	ng	99
30) Pyrene	19.365	202	22828	0.332	ng	# 95
32) Benzo(a)anthracene	21.122	228	10402	0.187	ng	93
33) Chrysene	21.175	228	13676	0.247	ng	96
34) Bis(2-ethylhexyl)phtha...	21.077	149	2334m	0.066	ng	
36) Indeno(1,2,3-cd)pyrene	25.446	276	9755	0.136	ng	95
37) Benzo(b)fluoranthene	22.657	252	19653	0.303	ng	# 89
38) Benzo(k)fluoranthene	22.698	252	7351m	0.115	ng	
39) Benzo(a)pyrene	23.206	252	12177	0.227	ng	# 87
40) Dibenzo(a,h)anthracene	25.461	278	2251	0.039	ng	# 41
41) Benzo(g,h,i)perylene	26.104	276	10031	0.163	ng	92

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

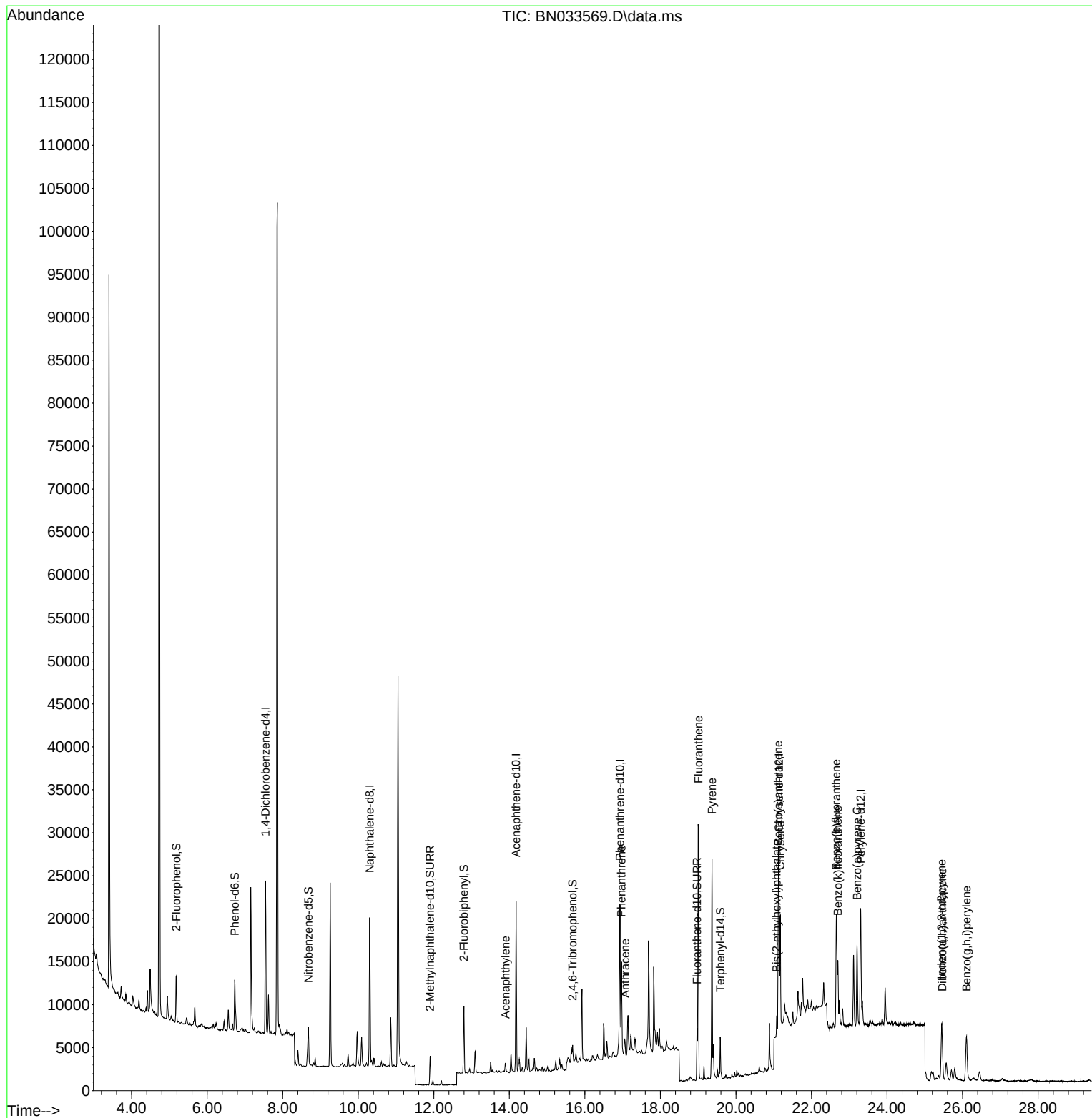
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033569.D
Acq On : 23 Aug 2024 01:41
Operator : MA/JU
Sample : P3671-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

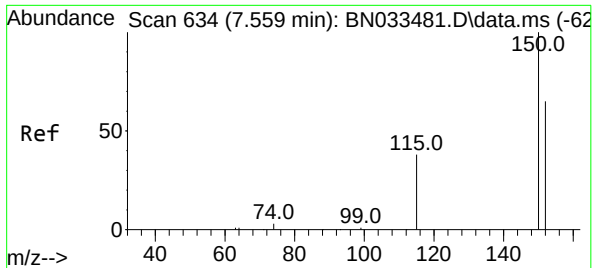
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0-0.5-081924

Quant Time: Aug 23 02:37:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

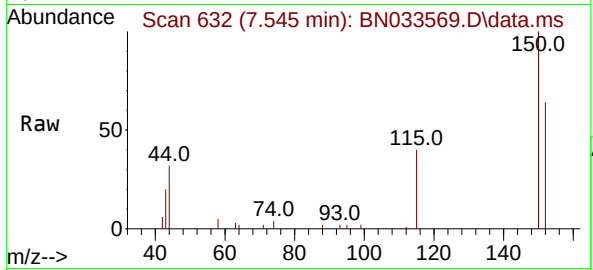
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

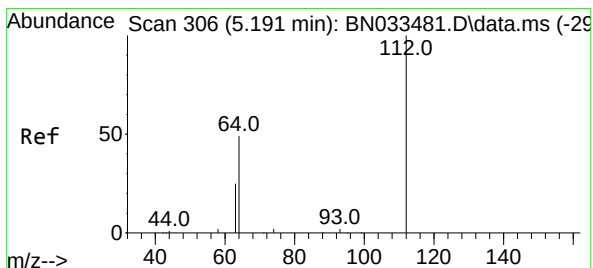
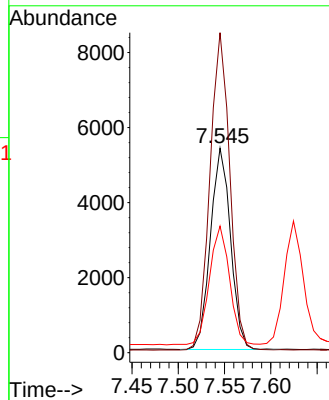
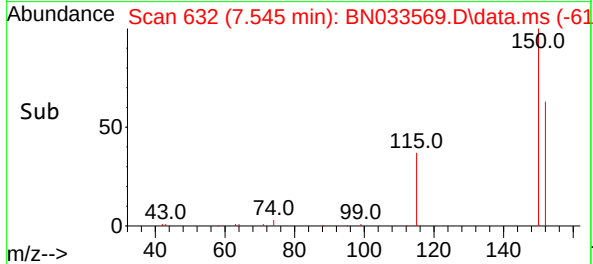
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0-0.5-081924



Tgt Ion:152 Resp: 8100
Ion Ratio Lower Upper
152 100
150 156.4 122.2 183.2
115 61.9 47.2 70.8

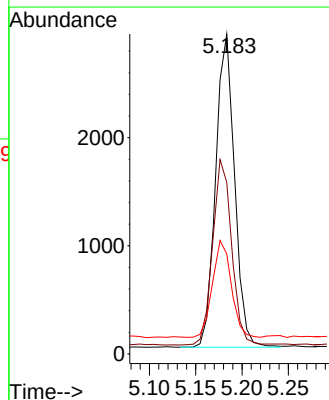
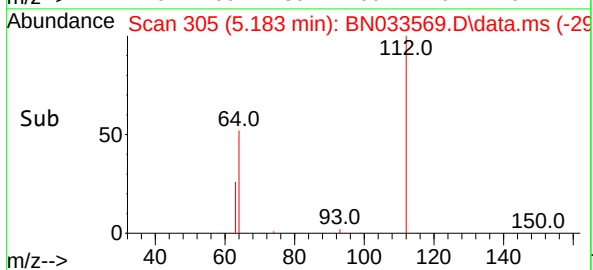
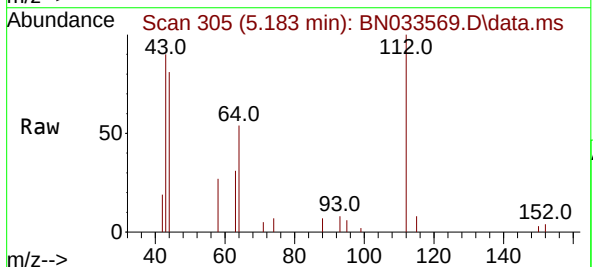
Manual Integrations
APPROVED

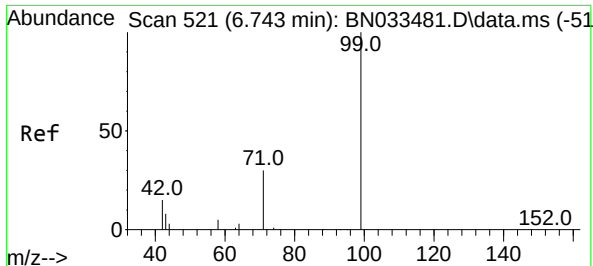
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.160 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

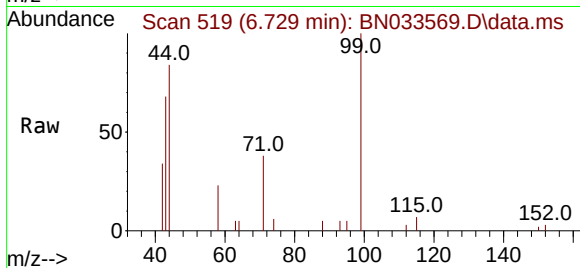
Tgt Ion:112 Resp: 4125
Ion Ratio Lower Upper
112 100
64 59.8 47.1 70.7
63 30.6 24.9 37.3





#5
Phenol-d6
Concen: 0.164 ng
RT: 6.729 min Scan# 519
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

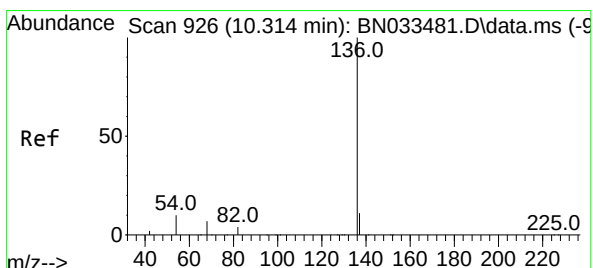
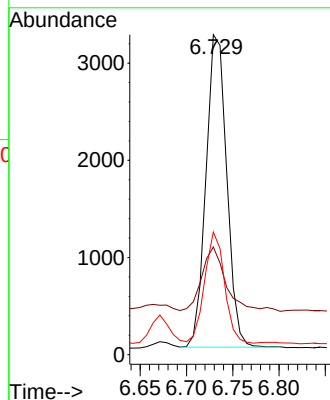
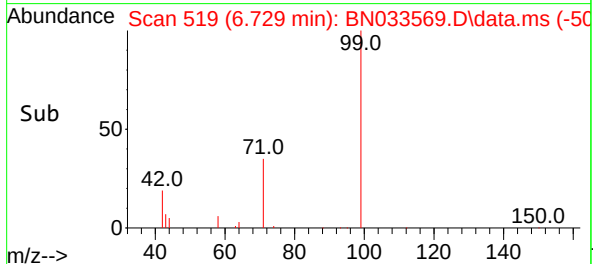
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0-0.5-081924



Tgt Ion: 99 Resp: 5024
Ion Ratio Lower Upper
99 100
42 23.9 16.6 24.8
71 33.9 26.2 39.4

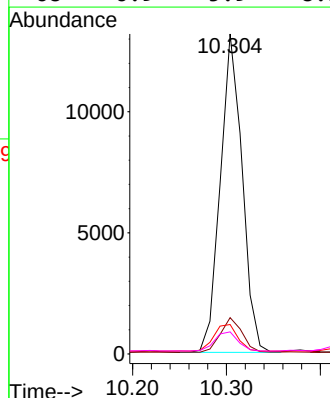
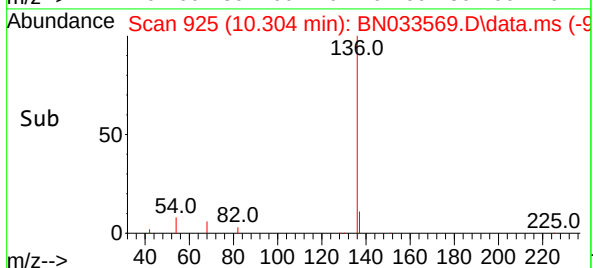
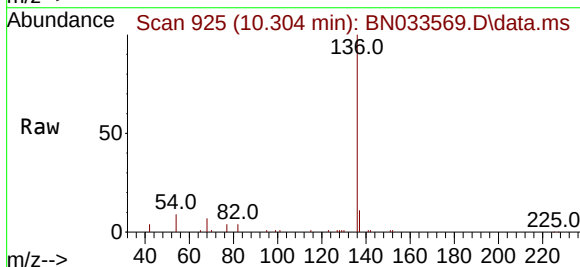
Manual Integrations
APPROVED

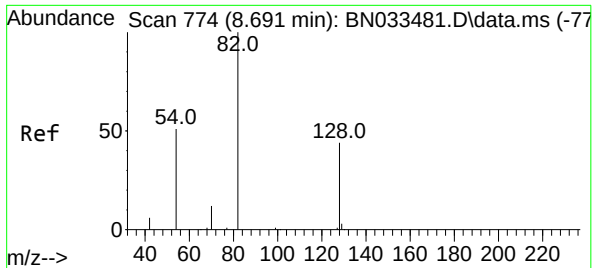
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

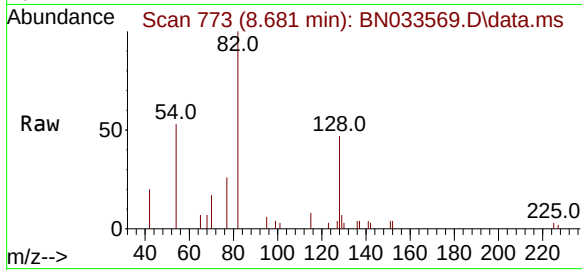
Tgt Ion:136 Resp: 21263
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 9.2 8.3 12.5
68 6.9 5.9 8.9





#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.681 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

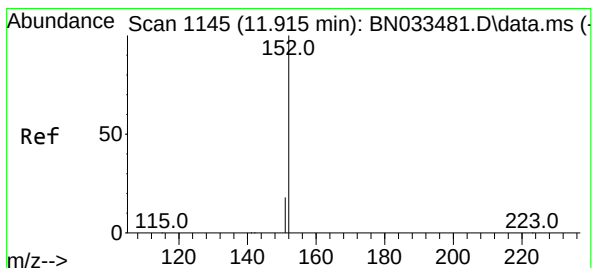
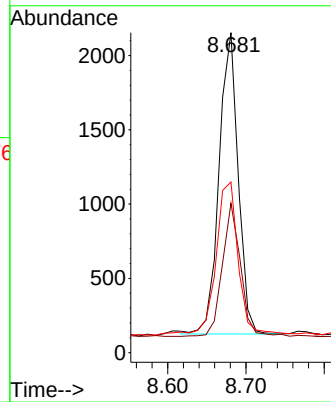
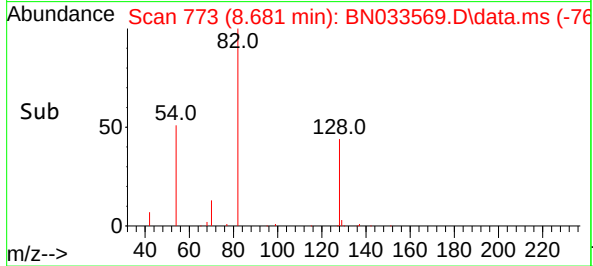
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0-0.5-081924



Tgt Ion: 82 Resp: 3434
Ion Ratio Lower Upper
82 100
128 46.7 36.0 54.0
54 53.3 42.0 63.0

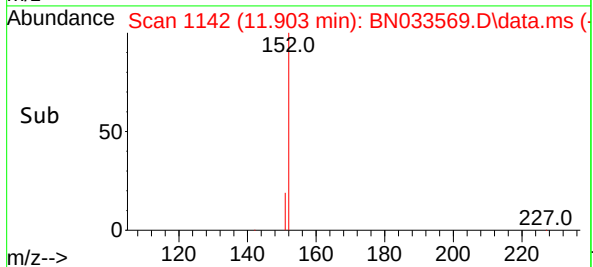
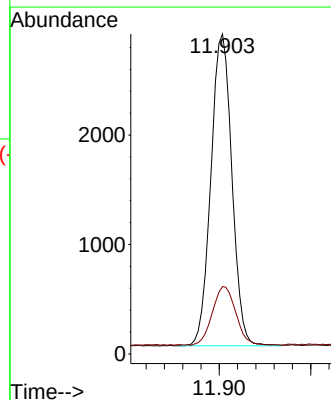
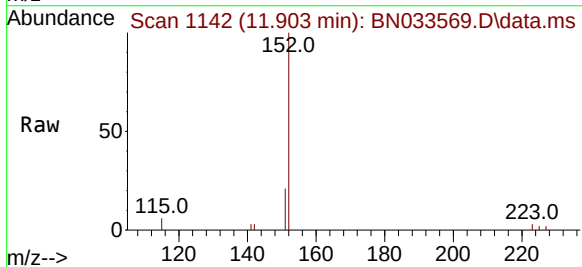
Manual Integrations
APPROVED

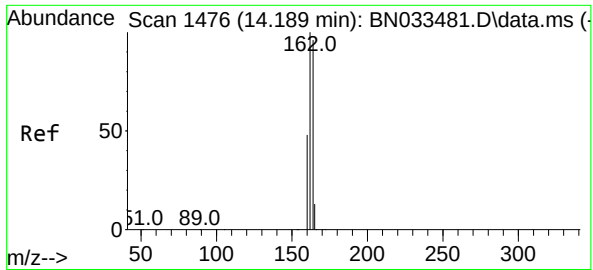
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#11
2-Methylnaphthalene-d10
Concen: 0.149 ng
RT: 11.903 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

Tgt Ion:152 Resp: 4545
Ion Ratio Lower Upper
152 100
151 21.3 16.6 25.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.178 min Scan# 14

Delta R.T. 0.000 min

Lab File: BN033569.D

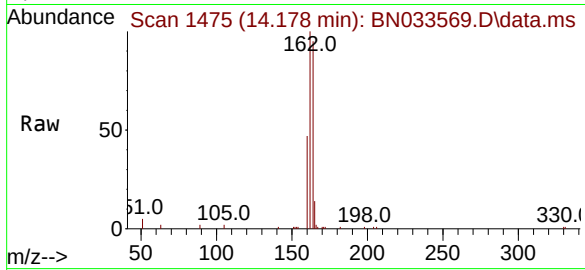
Acq: 23 Aug 2024 01:41

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0-0.5-081924



Tgt Ion:164 Resp: 10490

Ion Ratio Lower Upper

164 100

162 105.6 83.5 125.3

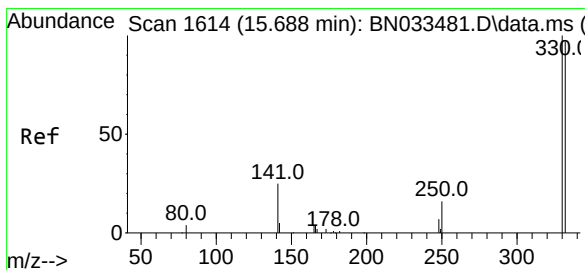
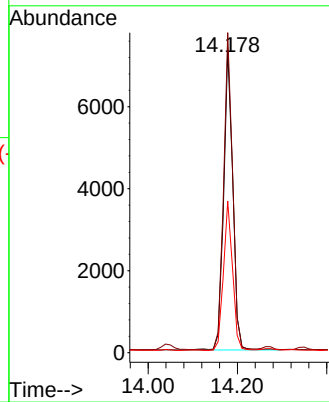
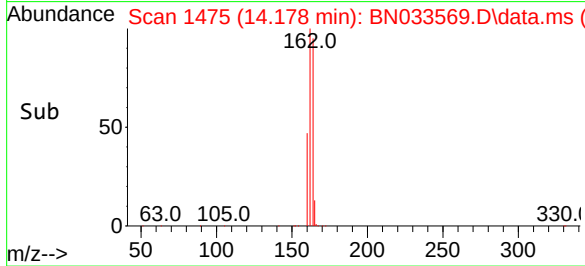
160 50.1 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#14

2,4,6-Tribromophenol

Concen: 0.144 ng

RT: 15.676 min Scan# 1613

Delta R.T. 0.000 min

Lab File: BN033569.D

Acq: 23 Aug 2024 01:41

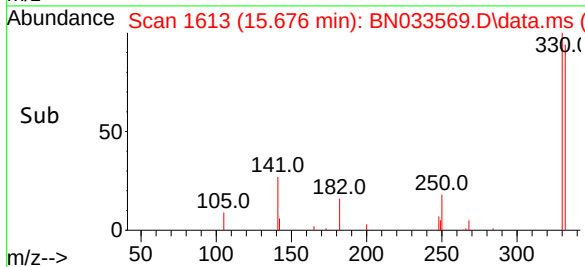
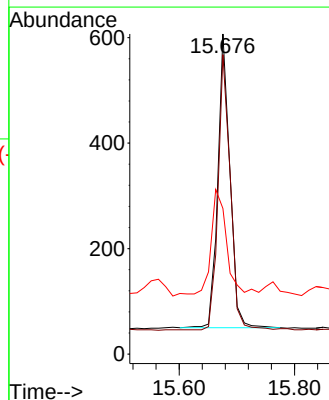
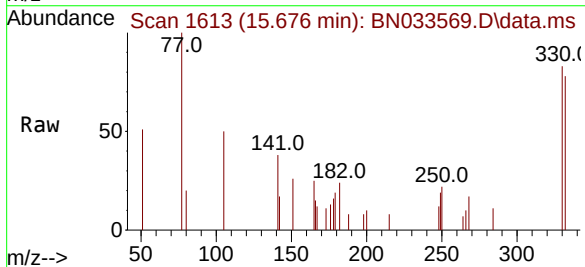
Tgt Ion:330 Resp: 810

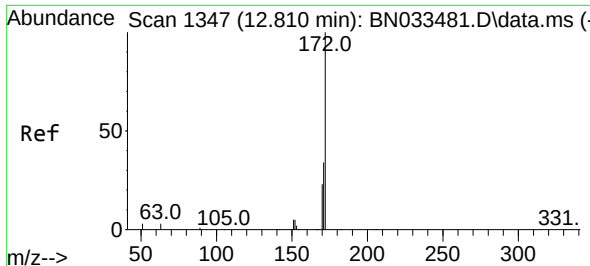
Ion Ratio Lower Upper

330 100

332 94.6 77.5 116.3

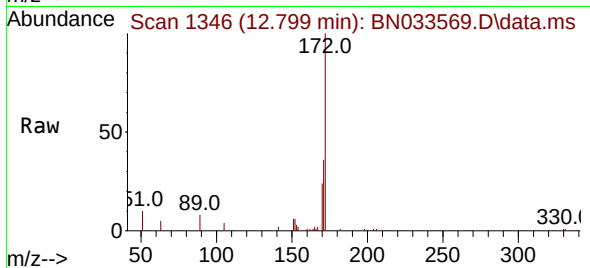
141 44.2 33.9 50.9





#15
2-Fluorobiphenyl
Concen: 0.149 ng
RT: 12.799 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

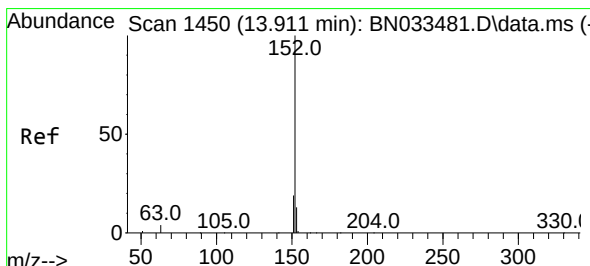
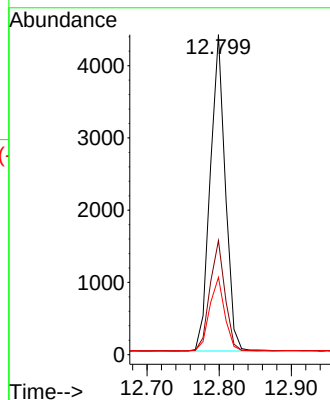
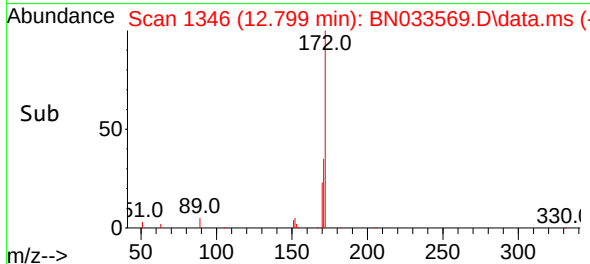
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0-0.5-081924



Tgt Ion:172 Resp: 6379
Ion Ratio Lower Upper
172 100
171 35.7 27.7 41.5
170 24.2 18.3 27.5

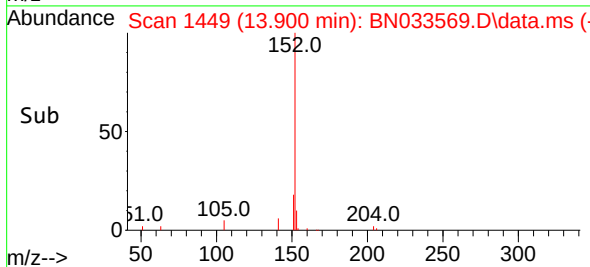
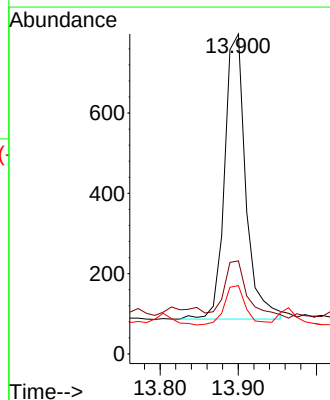
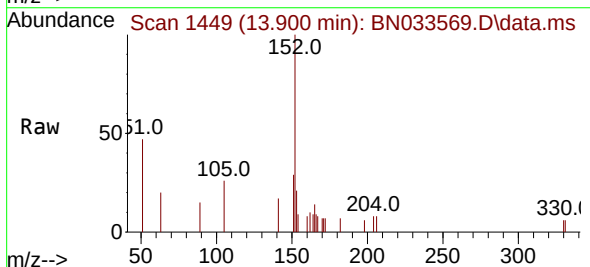
Manual Integrations
APPROVED

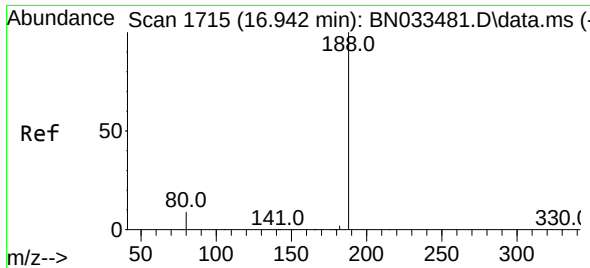
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#16
Acenaphthylene
Concen: 0.029 ng
RT: 13.900 min Scan# 1449
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

Tgt Ion:152 Resp: 1331
Ion Ratio Lower Upper
152 100
151 18.8 15.7 23.5
153 14.2 10.3 15.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.929 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033569.D

Acq: 23 Aug 2024 01:41

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0-0.5-081924

Tgt Ion:188 Resp: 2051

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

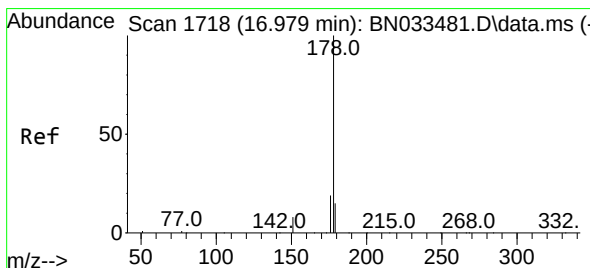
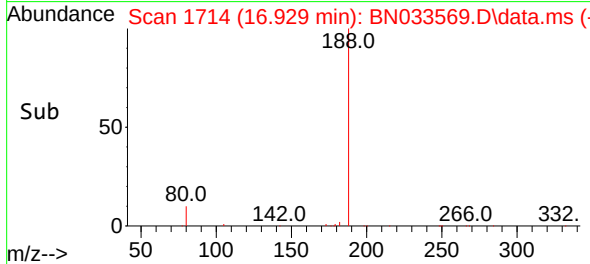
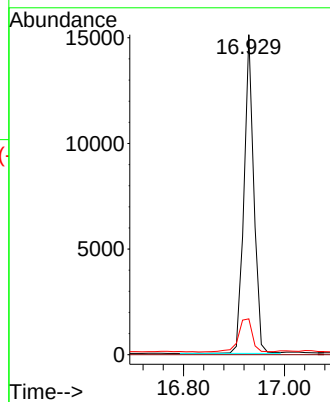
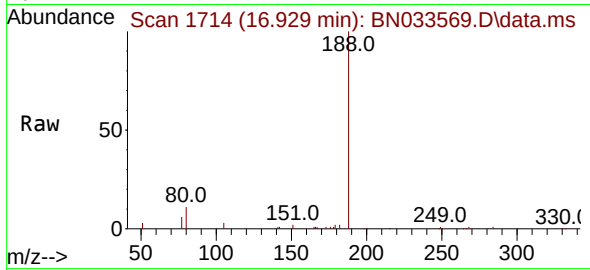
80 11.2 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#25

Phenanthrene

Concen: 0.188 ng m

RT: 16.967 min Scan# 1717

Delta R.T. 0.000 min

Lab File: BN033569.D

Acq: 23 Aug 2024 01:41

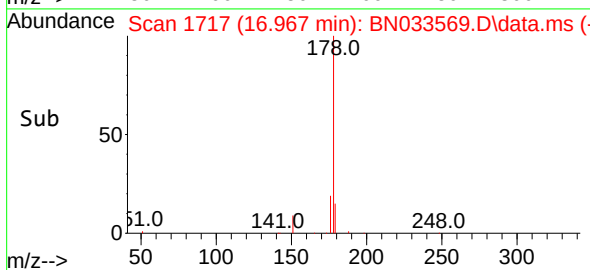
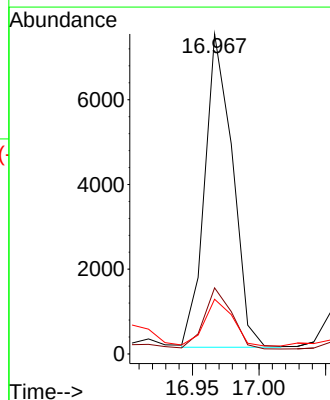
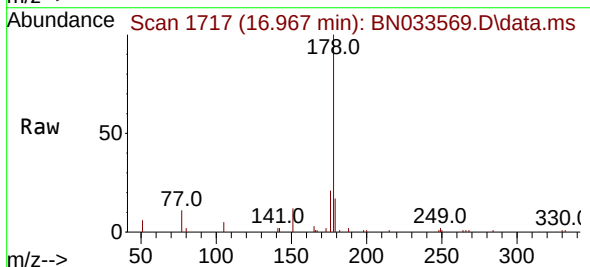
Tgt Ion:178 Resp: 10734

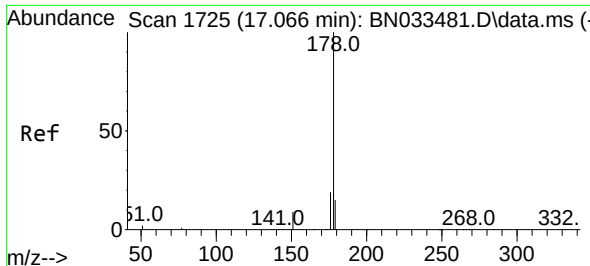
Ion Ratio Lower Upper

178 100

176 19.5 15.3 22.9

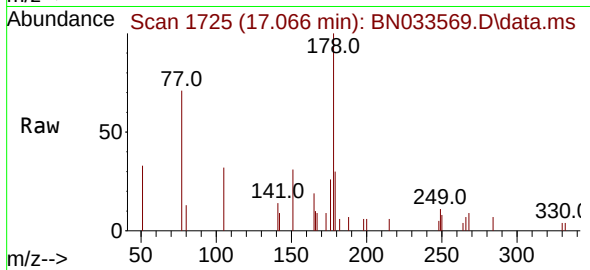
179 15.0 12.3 18.5





#26
Anthracene
Concen: 0.032 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

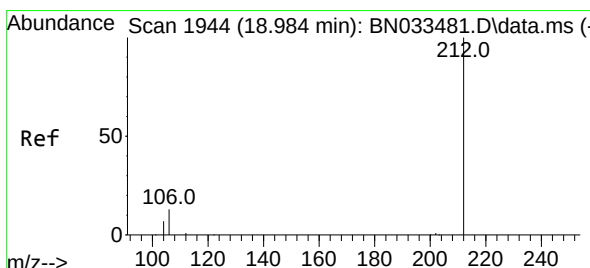
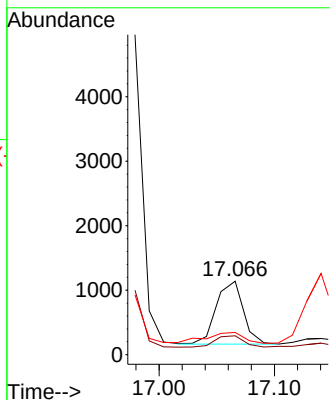
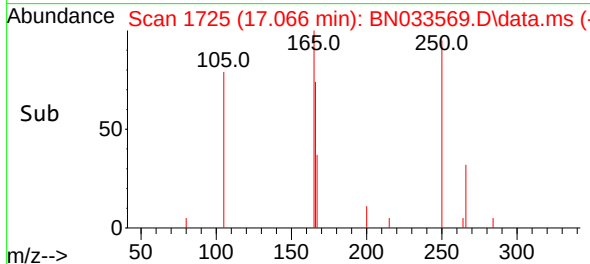
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0-0.5-081924



Tgt Ion:178 Resp: 1598
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 23.8 12.4 18.6

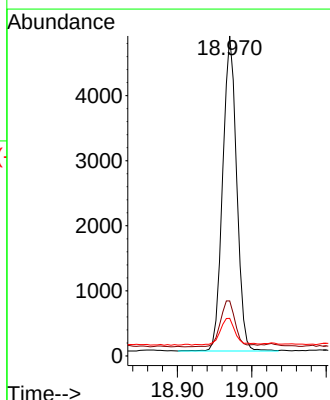
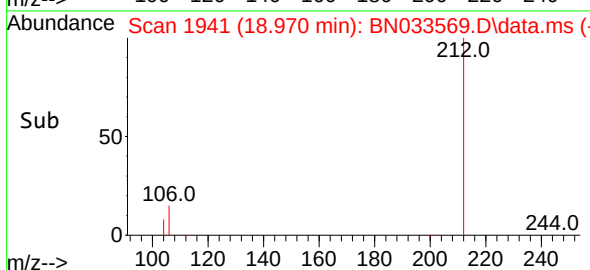
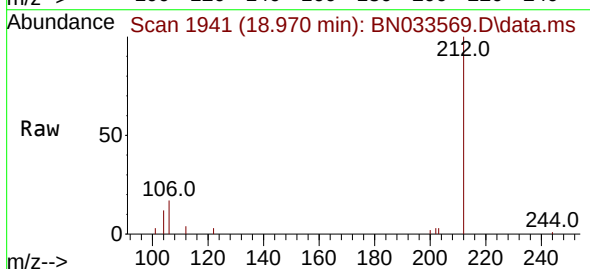
Manual Integrations
APPROVED

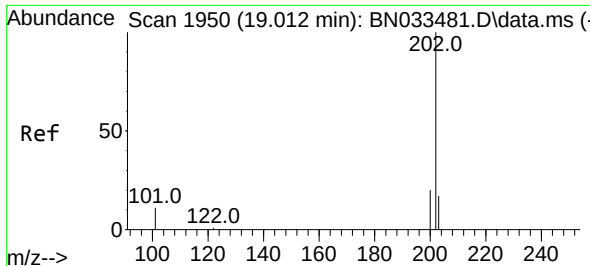
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#27
Fluoranthene-d10
Concen: 0.128 ng
RT: 18.970 min Scan# 1941
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

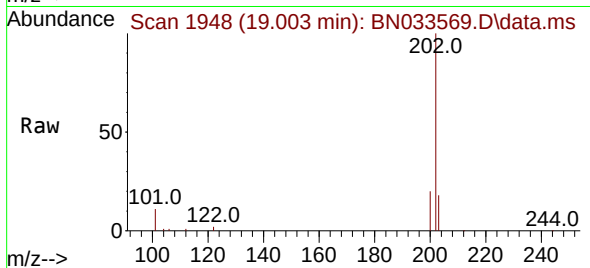
Tgt Ion:212 Resp: 6326
Ion Ratio Lower Upper
212 100
106 15.9 12.3 18.5
104 9.4 7.0 10.4





#28
Fluoranthene
Concen: 0.414 ng
RT: 19.003 min Scan# 19003
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

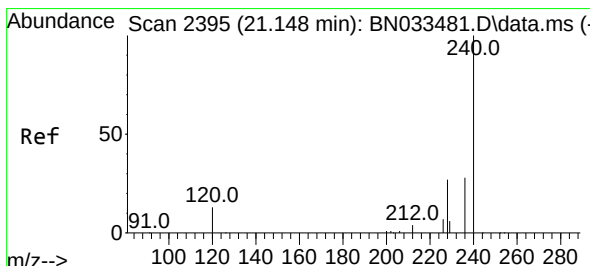
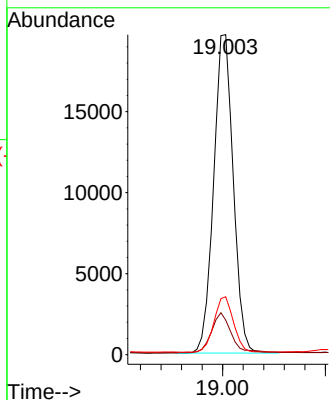
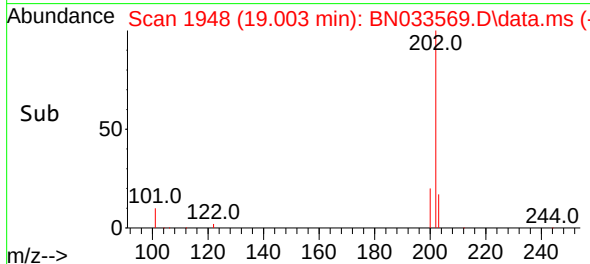
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0-0.5-081924



Tgt Ion:202 Resp: 26129
Ion Ratio Lower Upper
202 100
101 13.0 9.5 14.3
203 17.3 13.8 20.6

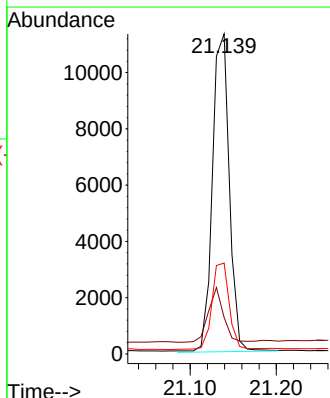
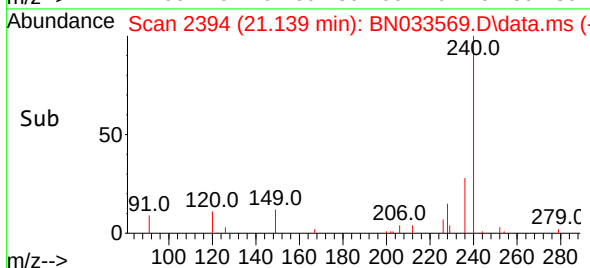
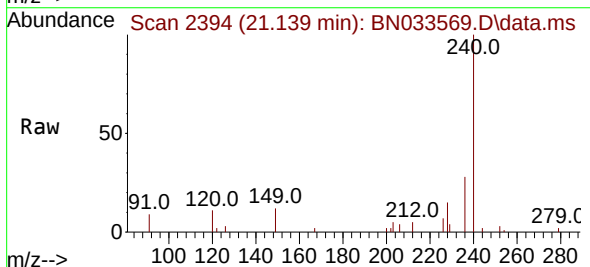
Manual Integrations
APPROVED

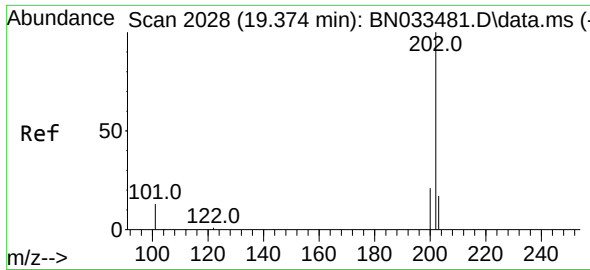
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 2394
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

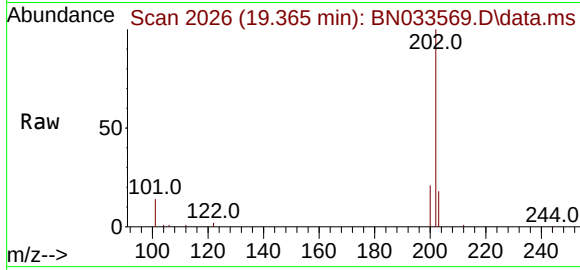
Tgt Ion:240 Resp: 15408
Ion Ratio Lower Upper
240 100
120 11.4 12.4 18.6#
236 28.4 23.0 34.6





#30
Pyrene
Concen: 0.332 ng
RT: 19.365 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

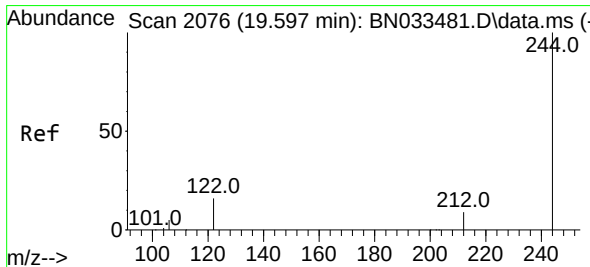
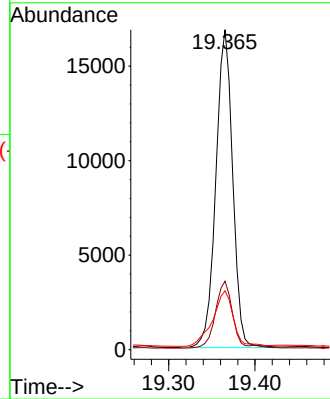
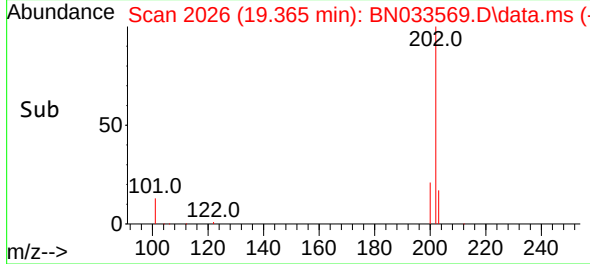
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0-0.5-081924



Tgt Ion:202 Resp: 2282
Ion Ratio Lower Upper
202 100
200 21.6 16.6 24.8
203 21.4 14.2 21.4

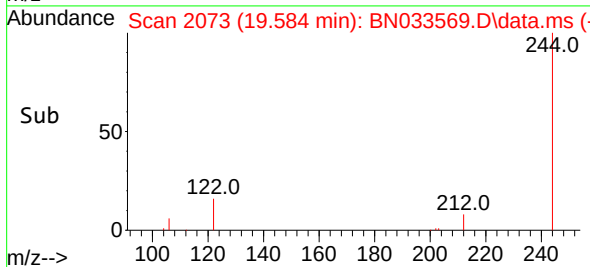
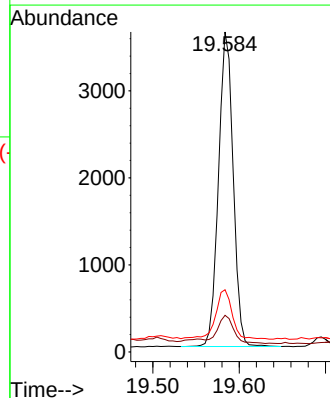
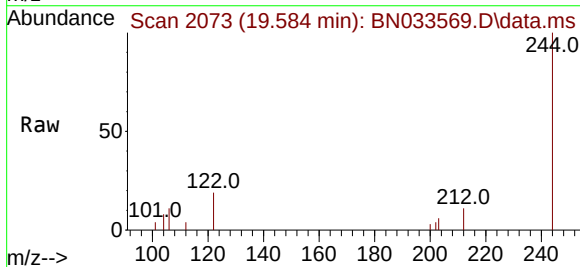
Manual Integrations
APPROVED

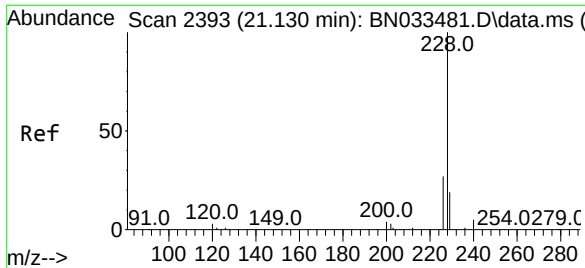
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#31
Terphenyl-d14
Concen: 0.122 ng
RT: 19.584 min Scan# 2073
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

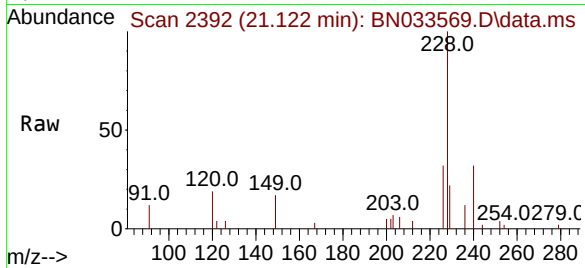
Tgt Ion:244 Resp: 4283
Ion Ratio Lower Upper
244 100
212 11.5 7.8 11.6
122 19.4 13.3 19.9





#32
Benzo(a)anthracene
Concen: 0.187 ng
RT: 21.122 min Scan# 21122
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

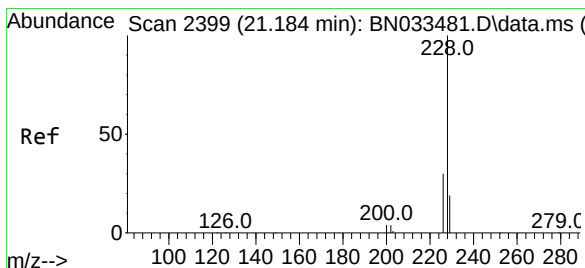
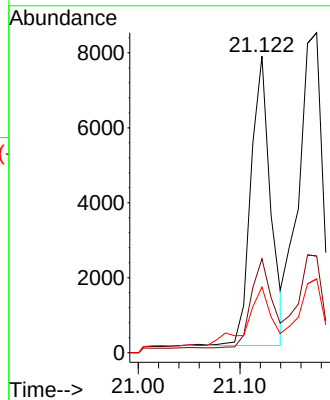
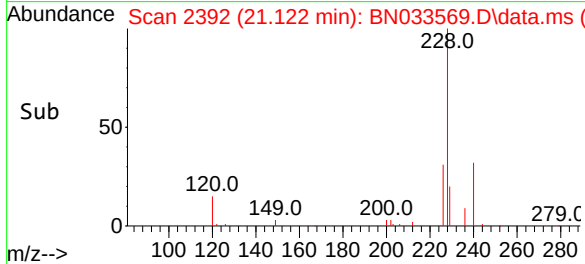
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0-0.5-081924



Tgt Ion:228 Resp: 1040
Ion Ratio Lower Upper
228 100
226 31.7 21.8 32.6
229 22.1 15.8 23.6

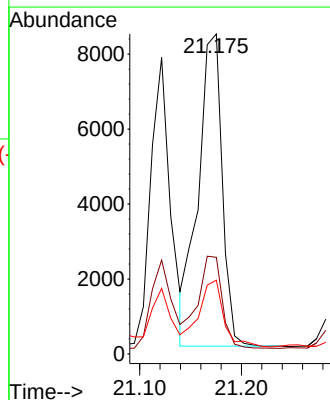
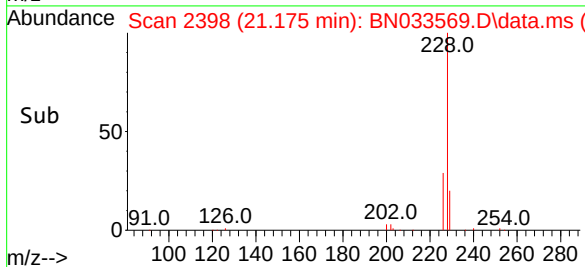
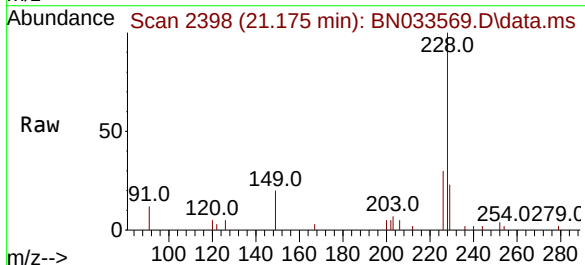
Manual Integrations
APPROVED

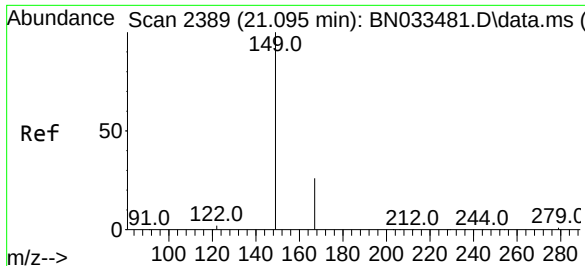
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#33
Chrysene
Concen: 0.247 ng
RT: 21.175 min Scan# 2398
Delta R.T. 0.000 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

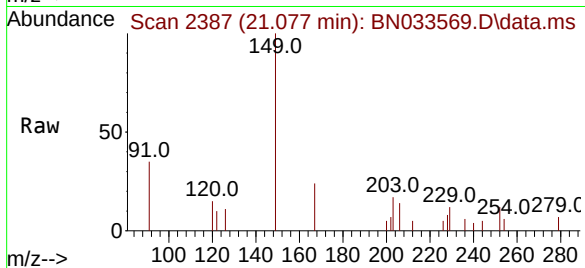
Tgt Ion:228 Resp: 13676
Ion Ratio Lower Upper
228 100
226 30.2 23.8 35.8
229 23.0 15.6 23.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.066 ng m
RT: 21.077 min Scan# 2107
Delta R.T. -0.009 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

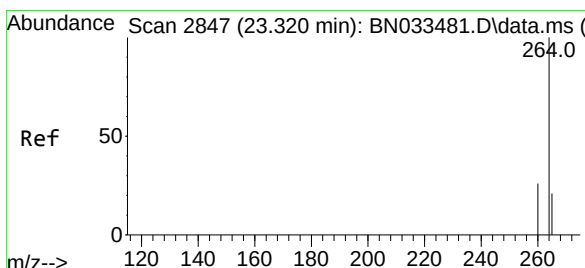
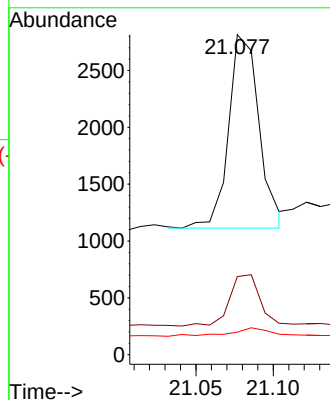
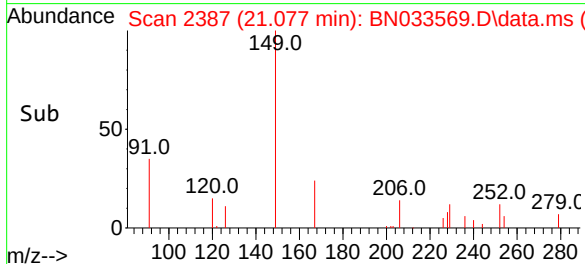
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0-0.5-081924



Tgt Ion:149 Resp: 2334
Ion Ratio Lower Upper
149 100
167 35.2 21.5 32.3
279 60.5 2.2 3.2

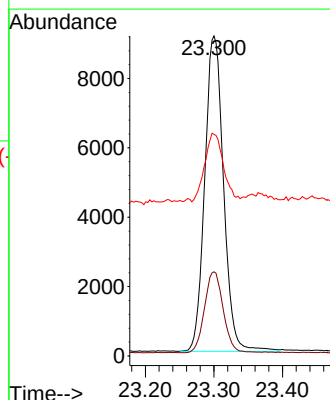
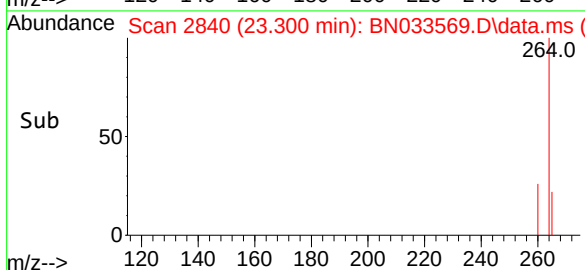
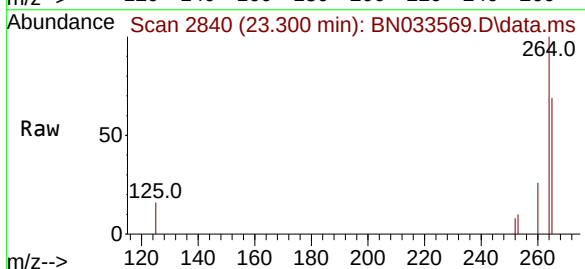
Manual Integrations
APPROVED

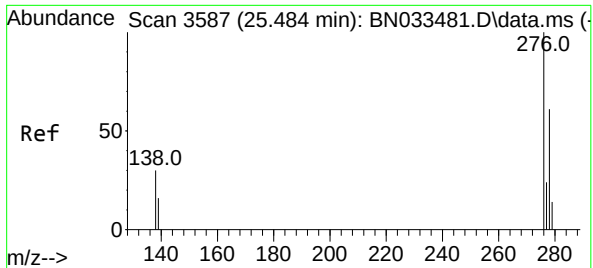
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.300 min Scan# 2840
Delta R.T. -0.003 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

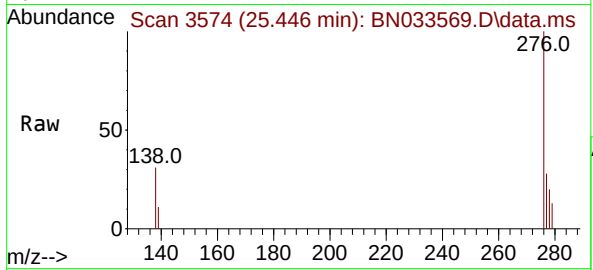
Tgt Ion:264 Resp: 17341
Ion Ratio Lower Upper
264 100
260 26.3 20.8 31.2
265 69.3 52.2 78.2





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.136 ng
RT: 25.446 min Scan# 3574
Delta R.T. -0.003 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

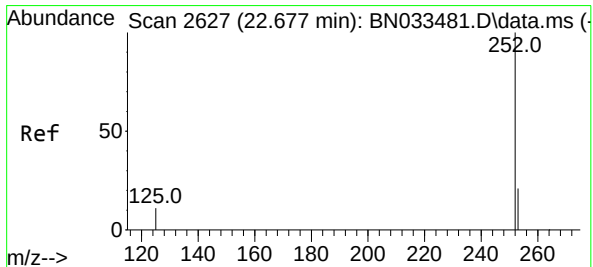
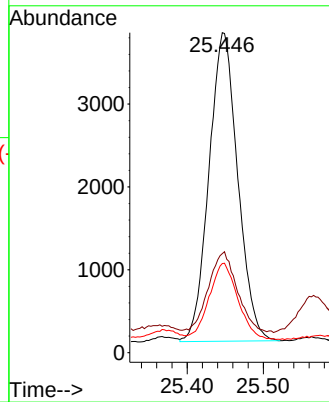
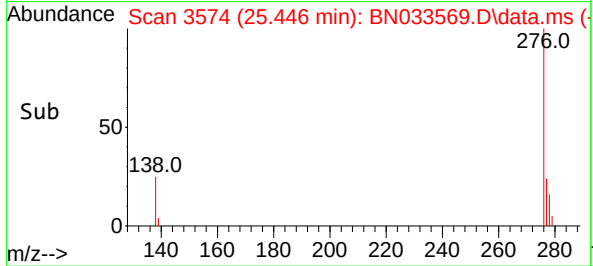
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0-0.5-081924



Tgt Ion: 276 Resp: 975
Ion Ratio Lower Upper
276 100
138 25.7 24.4 36.6
277 24.7 19.8 29.6

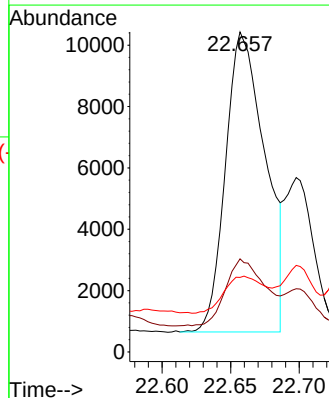
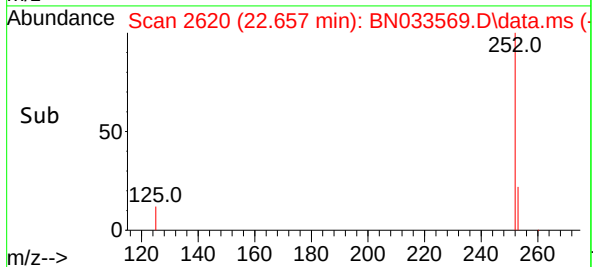
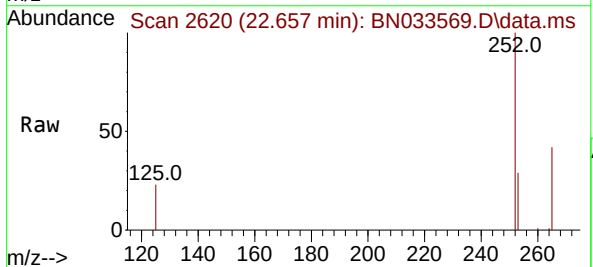
Manual Integrations
APPROVED

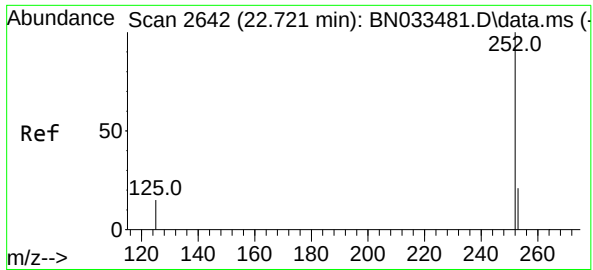
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#37
Benzo(b)fluoranthene
Concen: 0.303 ng
RT: 22.657 min Scan# 2620
Delta R.T. -0.003 min
Lab File: BN033569.D
Acq: 23 Aug 2024 01:41

Tgt Ion: 252 Resp: 19653
Ion Ratio Lower Upper
252 100
253 29.1 19.8 29.8
125 23.3 13.9 20.9#





#38

Benzo(k)fluoranthene

Concen: 0.115 ng m

RT: 22.698 min Scan# 20

Delta R.T. -0.006 min

Lab File: BN033569.D

Acq: 23 Aug 2024 01:41

Instrument :

BNA_N

ClientSampleId :

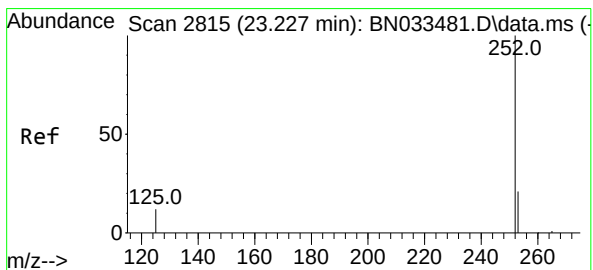
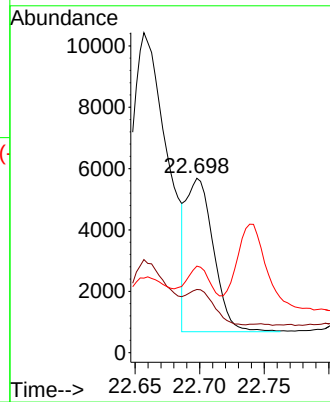
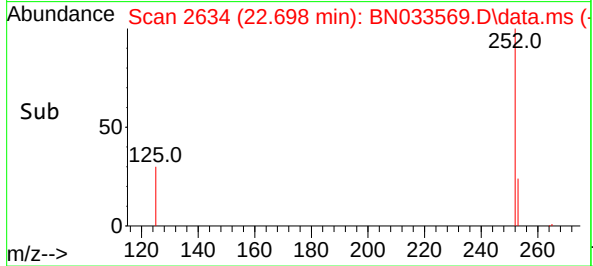
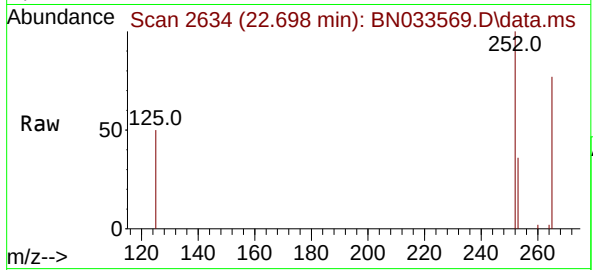
S-928-KI-SO-0-0.5-081924

Tgt Ion:252	Resp:	735
Ion Ratio	Lower	Upper
252	100	
253	36.3	19.8 29.8
125	49.6	15.8 23.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#39

Benzo(a)pyrene

Concen: 0.227 ng

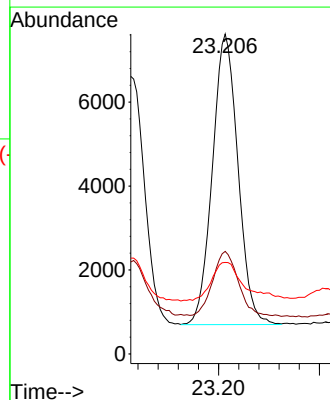
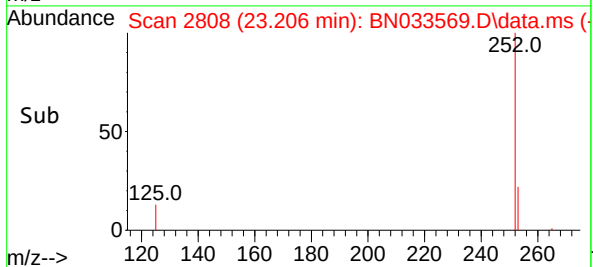
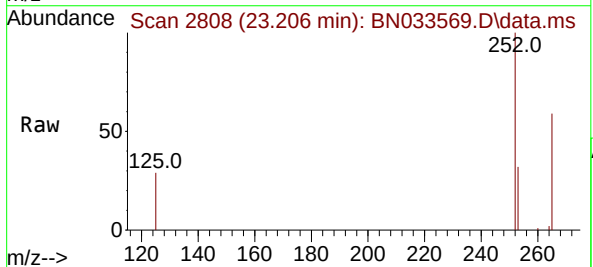
RT: 23.206 min Scan# 2808

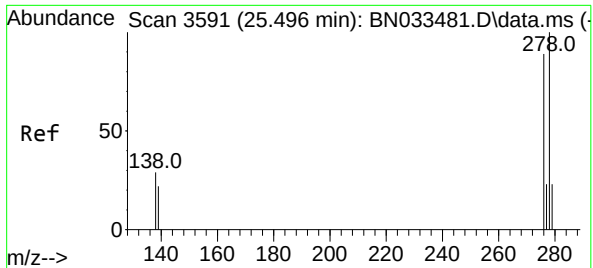
Delta R.T. -0.003 min

Lab File: BN033569.D

Acq: 23 Aug 2024 01:41

Tgt Ion:252	Resp:	12177
Ion Ratio	Lower	Upper
252	100	
253	32.1	21.5 32.3
125	28.6	17.0 25.4





#40

Dibenzo(a,h)anthracene

Concen: 0.039 ng

RT: 25.461 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN033569.D

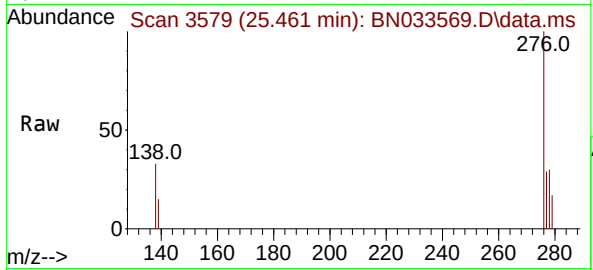
Acq: 23 Aug 2024 01:41

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0-0.5-081924



Tgt Ion:278 Resp: 225

Ion Ratio Lower Upper

278 100

139 51.5 19.1 28.7

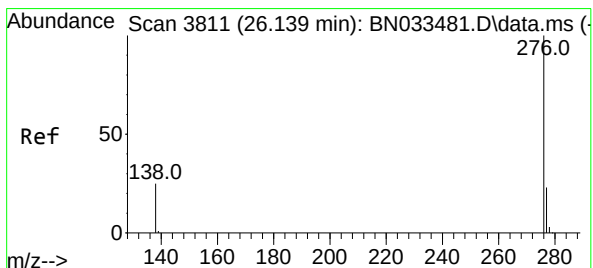
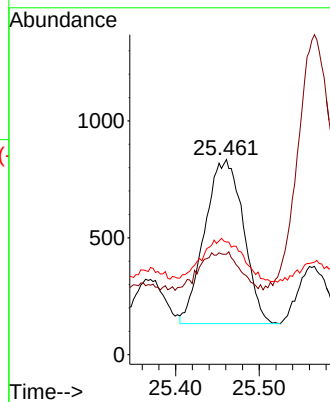
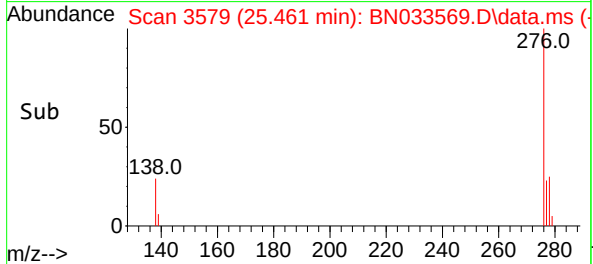
279 57.7 21.0 31.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#41

Benzo(g,h,i)perylene

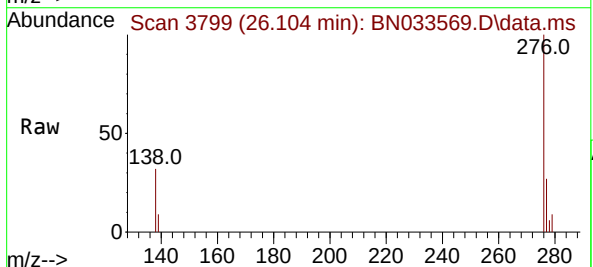
Concen: 0.163 ng

RT: 26.104 min Scan# 3799

Delta R.T. 0.000 min

Lab File: BN033569.D

Acq: 23 Aug 2024 01:41



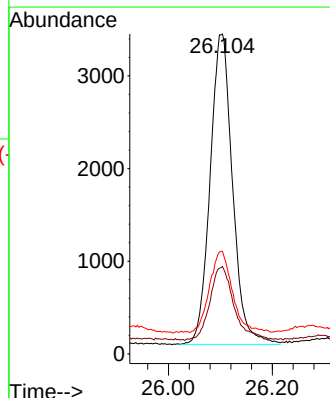
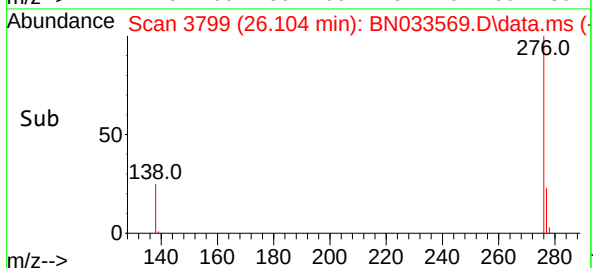
Tgt Ion:276 Resp: 10031

Ion Ratio Lower Upper

276 100

277 27.4 19.7 29.5

138 32.1 21.8 32.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-10	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	57.2
Sample Wt/Vol:	30.05 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033570.D	1	08/21/24 09:38	08/23/24 02:17	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1.20	U	1.20	5.80	ug/Kg
91-57-6	2-Methylnaphthalene	1.40	U	1.40	5.80	ug/Kg
208-96-8	Acenaphthylene	3.10	J	1.10	5.80	ug/Kg
83-32-9	Acenaphthene	0.96	U	0.96	5.80	ug/Kg
86-73-7	Fluorene	1.40	J	1.00	5.80	ug/Kg
85-01-8	Phenanthrene	12.5		1.10	5.80	ug/Kg
120-12-7	Anthracene	2.00	J	1.40	5.80	ug/Kg
206-44-0	Fluoranthene	26.8		1.20	5.80	ug/Kg
129-00-0	Pyrene	20.0		1.70	5.80	ug/Kg
56-55-3	Benzo(a)anthracene	9.80		1.30	5.80	ug/Kg
218-01-9	Chrysene	15.8		1.50	5.80	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.9		2.10	5.80	ug/Kg
207-08-9	Benzo(k)fluoranthene	8.00		1.70	5.80	ug/Kg
50-32-8	Benzo(a)pyrene	14.0		2.90	5.80	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	9.60		2.20	5.80	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2.60	J	2.00	5.80	ug/Kg
191-24-2	Benzo(g,h,i)perylene	11.8		2.00	5.80	ug/Kg
123-91-1	1,4-Dioxane	3.90	U	3.90	11.5	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.24		30 (17) - 150 (161)	59%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.19		30 (23) - 150 (138)	47%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		30 (33) - 130 (121)	84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.24		30 (32) - 130 (121)	59%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.17		30 (21) - 130 (130)	43%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7220		7.545		
1146-65-2	Naphthalene-d8	18900		10.303		
15067-26-2	Acenaphthene-d10	9200		14.178		
1517-22-2	Phenanthrene-d10	18200		16.929		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-10	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	57.2
Sample Wt/Vol:	30.05 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033570.D	1	08/21/24 09:38	08/23/24 02:17	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	14100	21.139			
1520-96-3	Perylene-d12	15500	23.302			

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\BN082224\
Data File : BN033570.D
Acq On : 23 Aug 2024 02:17
Operator : MA/JU
Sample : P3671-10
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924

Quant Time: Aug 23 03:03:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	7220	0.400	ng	0.00
7) Naphthalene-d8	10.303	136	18938	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	9199	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	18224	0.400	ng	0.00
29) Chrysene-d12	21.139	240	14086	0.400	ng	0.00
35) Perylene-d12	23.302	264	15519	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	6041	0.263	ng	0.00
5) Phenol-d6	6.736	99	7436	0.272	ng	0.00
8) Nitrobenzene-d5	8.680	82	5274	0.336	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	6427	0.237	ng	0.00
14) 2,4,6-Tribromophenol	15.675	330	1120	0.226	ng	0.00
15) 2-Fluorobiphenyl	12.798	172	8825	0.235	ng	0.00
27) Fluoranthene-d10	18.970	212	8205	0.187	ng	0.00
31) Terphenyl-d14	19.583	244	5479	0.171	ng	0.00
Target Compounds						
16) Acenaphthylene	13.900	152	2139	0.053	ng	99
18) Fluorene	15.236	166	845m	0.024	ng	
25) Phenanthrene	16.966	178	10844m	0.214	ng	
26) Anthracene	17.065	178	1521	0.034	ng	# 84
28) Fluoranthene	19.002	202	25821	0.461	ng	99
30) Pyrene	19.365	202	21592	0.343	ng	96
32) Benzo(a)anthracene	21.121	228	8571m	0.168	ng	
33) Chrysene	21.175	228	13750	0.272	ng	96
34) Bis(2-ethylhexyl)phtha...	21.085	149	2516m	0.078	ng	
36) Indeno(1,2,3-cd)pyrene	25.448	276	10627	0.165	ng	96
37) Benzo(b)fluoranthene	22.659	252	20808	0.359	ng	# 88
38) Benzo(k)fluoranthene	22.697	252	7793m	0.137	ng	
39) Benzo(a)pyrene	23.206	252	11527	0.240	ng	# 84
40) Dibenzo(a,h)anthracene	25.457	278	2278	0.044	ng	# 37
41) Benzo(g,h,i)perylene	26.100	276	11177	0.203	ng	93

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033570.D
Acq On : 23 Aug 2024 02:17
Operator : MA/JU
Sample : P3671-10
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024

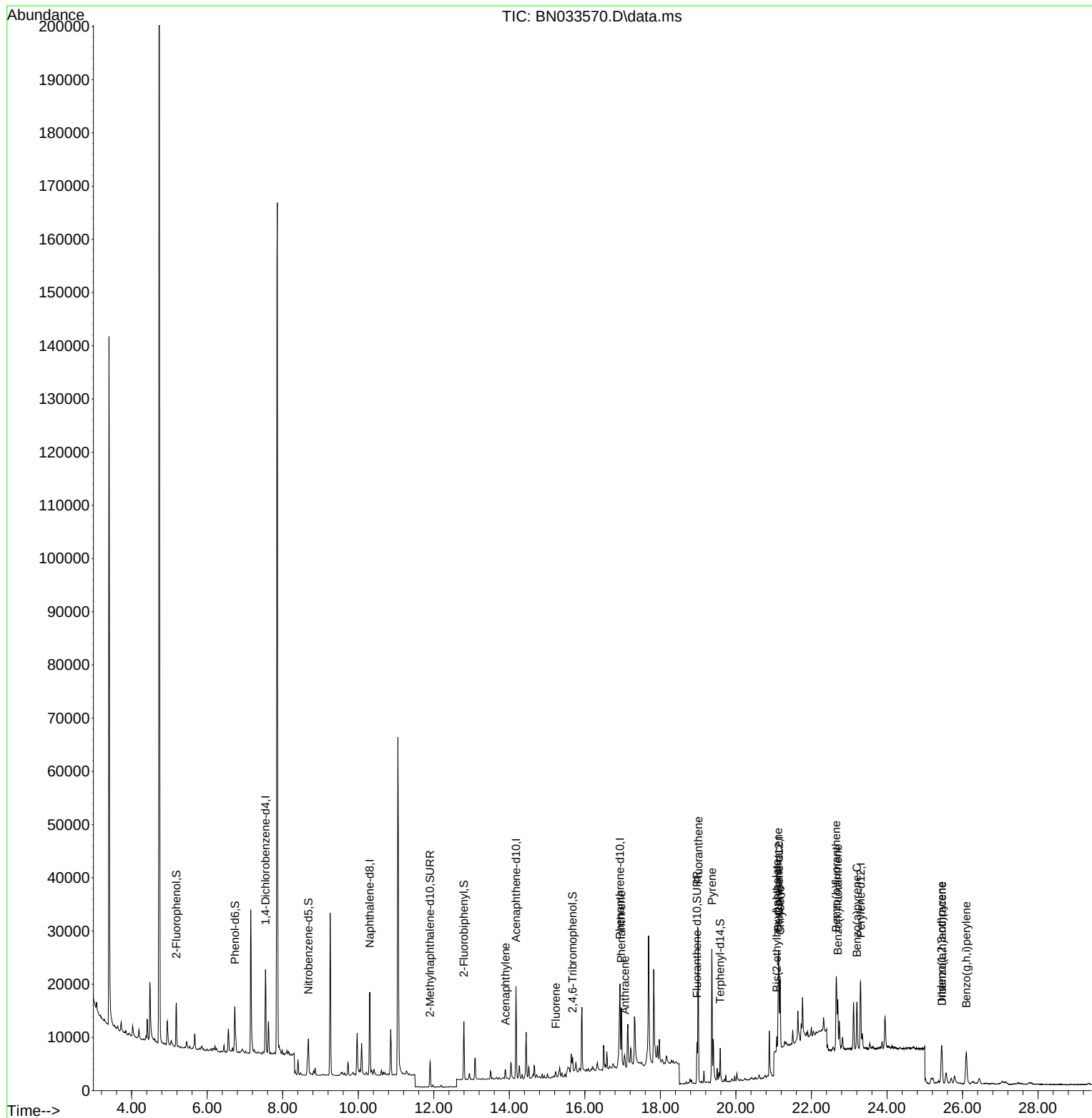
Quant Time: Aug 23 03:03:09 2024

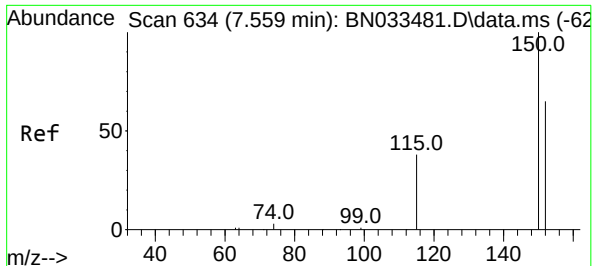
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 23 00:22:18 2024

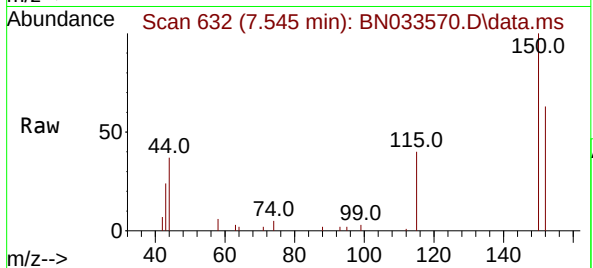
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

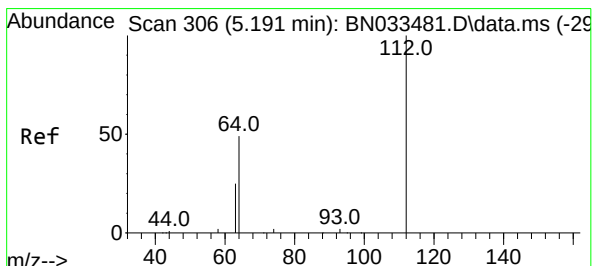
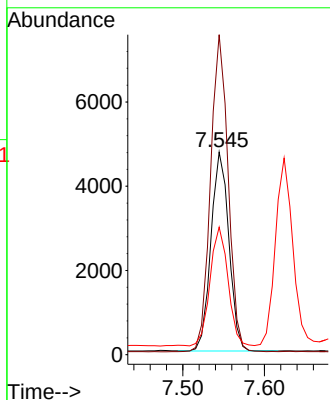
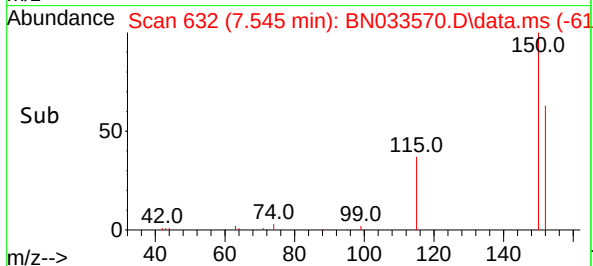
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924



Tgt Ion:152 Resp: 7220
Ion Ratio Lower Upper
152 100
150 158.0 122.2 183.2
115 62.9 47.2 70.8

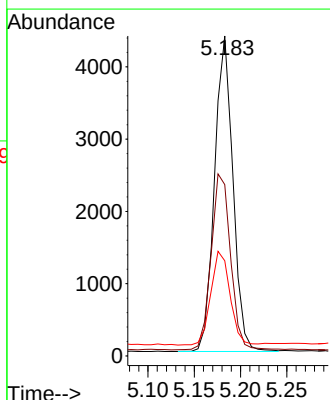
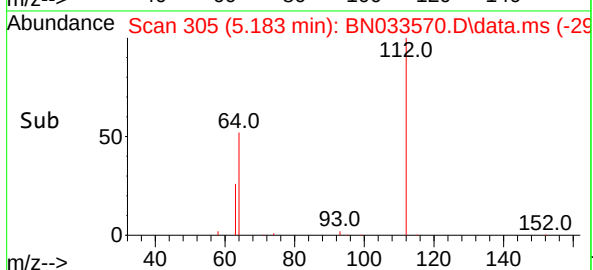
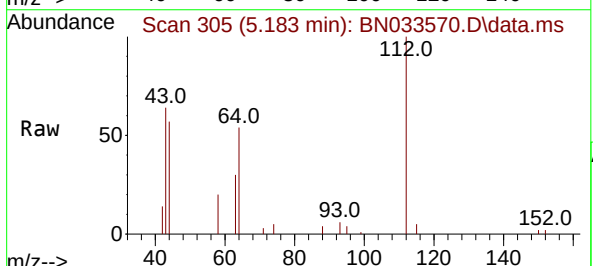
Manual Integrations
APPROVED

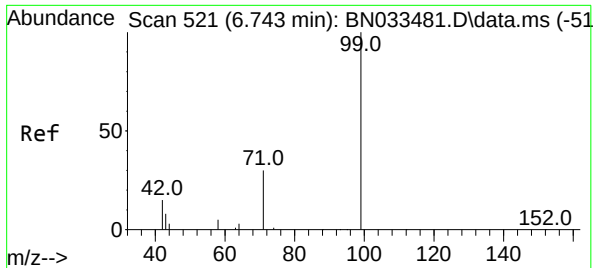
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.263 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

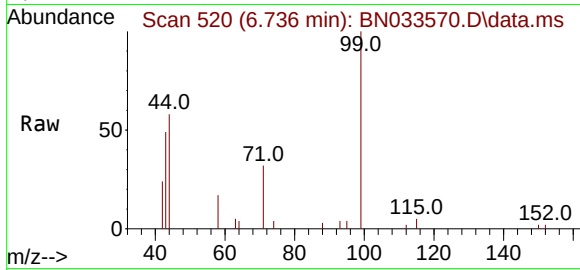
Tgt Ion:112 Resp: 6041
Ion Ratio Lower Upper
112 100
64 58.8 47.1 70.7
63 31.0 24.9 37.3





#5
Phenol-d6
Concen: 0.272 ng
RT: 6.736 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

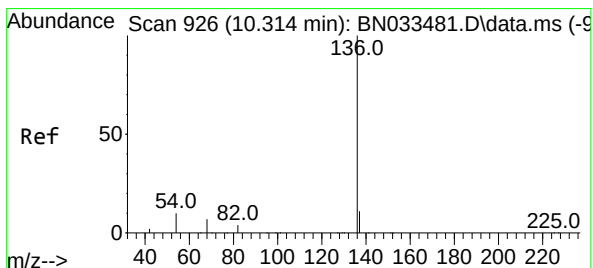
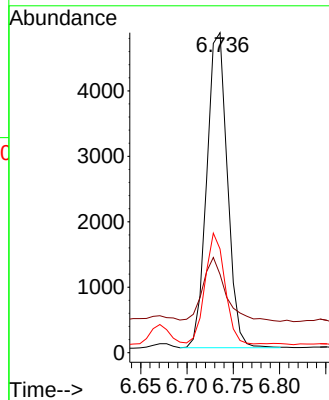
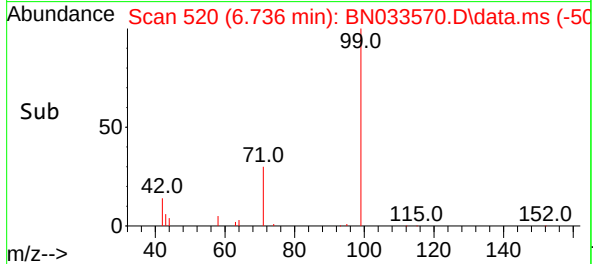
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924



Tgt Ion: 99 Resp: 7430
Ion Ratio Lower Upper
99 100
42 22.3 16.6 24.8
71 33.7 26.2 39.4

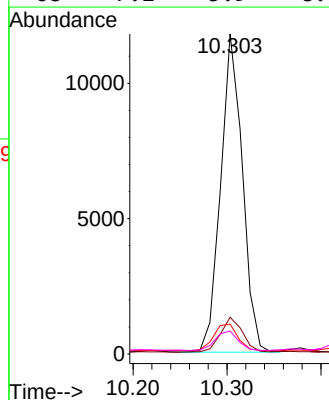
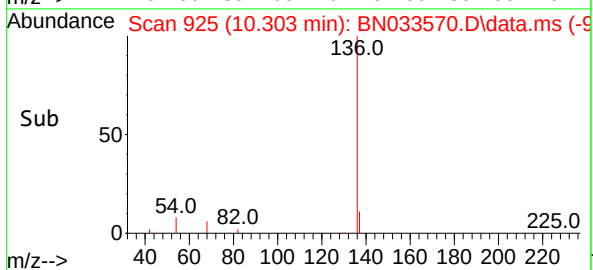
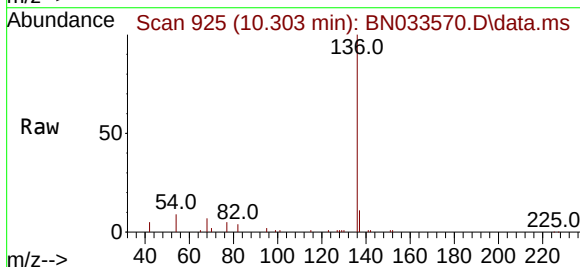
Manual Integrations
APPROVED

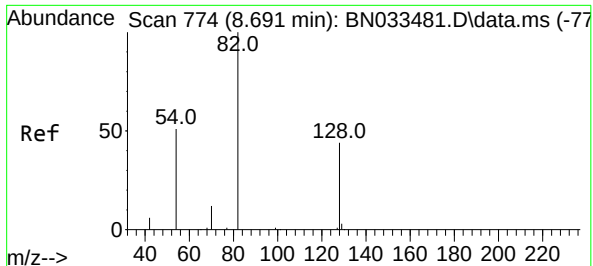
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.303 min Scan# 925
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

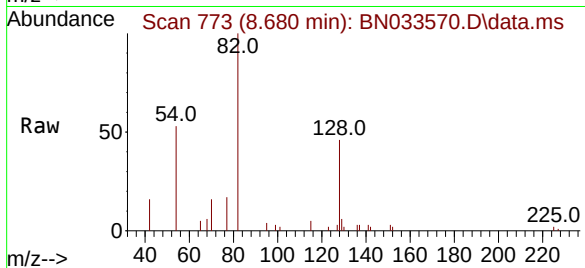
Tgt Ion:136 Resp: 18938
Ion Ratio Lower Upper
136 100
137 11.5 9.0 13.6
54 9.3 8.3 12.5
68 7.2 5.9 8.9





#8
Nitrobenzene-d5
Concen: 0.336 ng
RT: 8.680 min Scan# 71
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

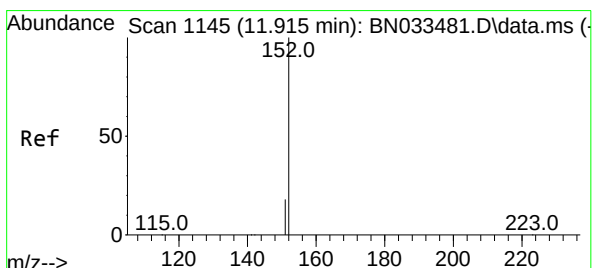
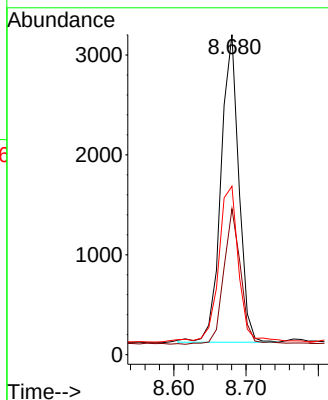
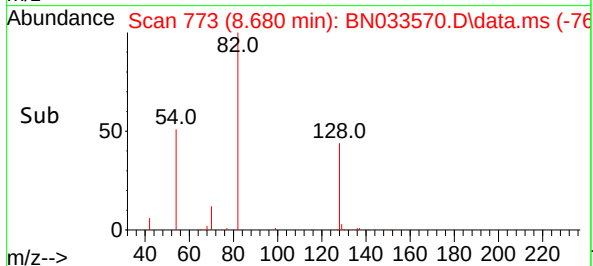
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924



Tgt Ion: 82 Resp: 5274
Ion Ratio Lower Upper
82 100
128 45.6 36.0 54.0
54 52.7 42.0 63.0

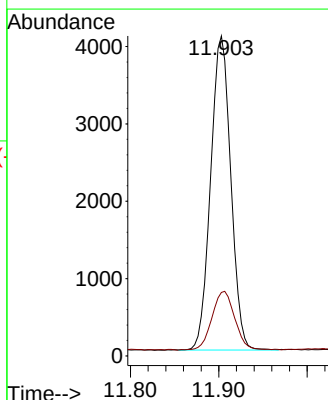
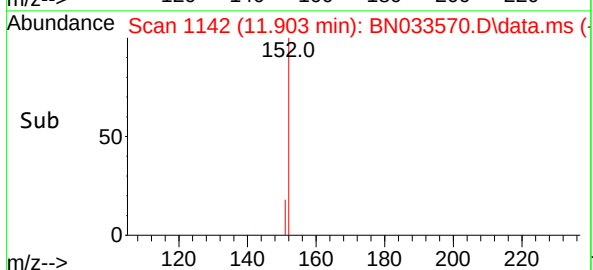
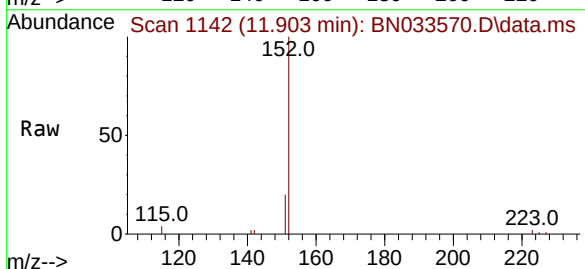
Manual Integrations
APPROVED

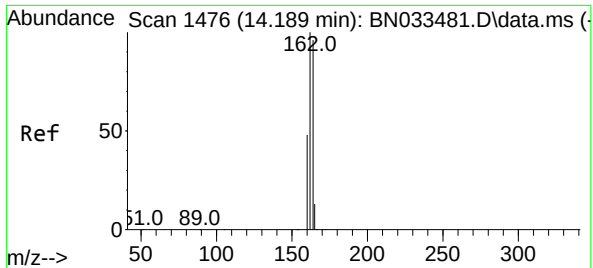
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#11
2-Methylnaphthalene-d10
Concen: 0.237 ng
RT: 11.903 min Scan# 1142
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

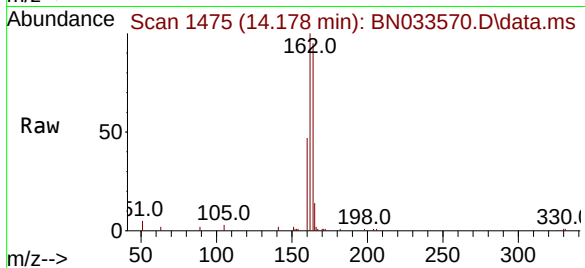
Tgt Ion:152 Resp: 6427
Ion Ratio Lower Upper
152 100
151 21.3 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1475
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

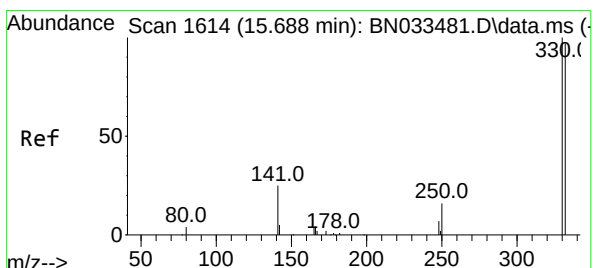
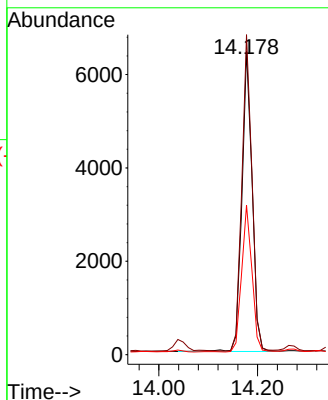
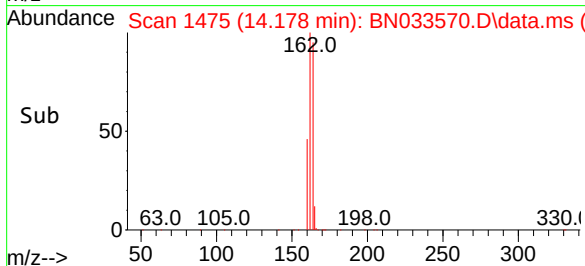
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924



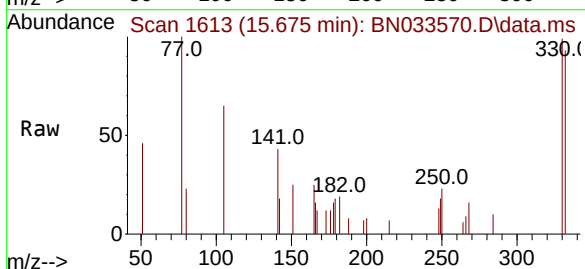
Tgt Ion:164 Resp: 919
Ion Ratio Lower Upper
164 100
162 105.4 83.5 125.3
160 49.2 40.2 60.4

Manual Integrations
APPROVED

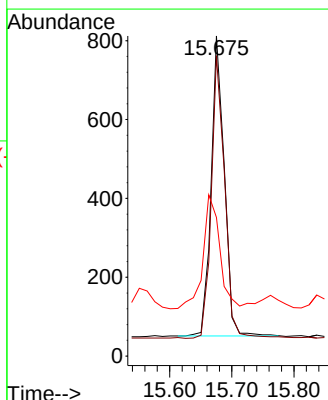
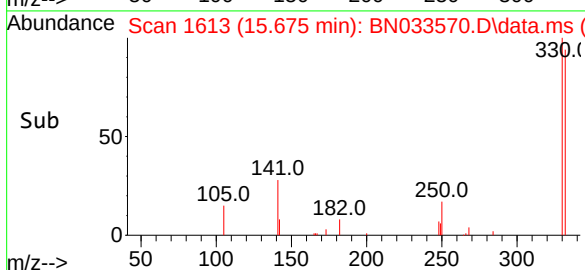
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

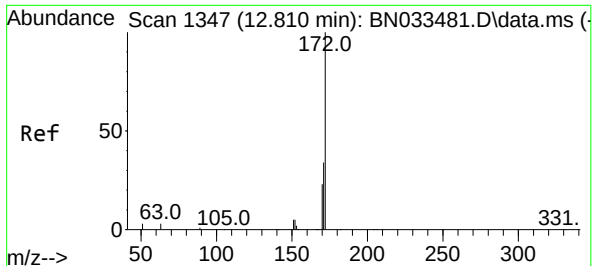


#14
2,4,6-Tribromophenol
Concen: 0.226 ng
RT: 15.675 min Scan# 1613
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17



Tgt Ion:330 Resp: 1120
Ion Ratio Lower Upper
330 100
332 95.8 77.5 116.3
141 48.4 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 0.235 ng

RT: 12.798 min Scan# 11

Delta R.T. -0.001 min

Lab File: BN033570.D

Acq: 23 Aug 2024 02:17

Instrument :

BNA_N

ClientSampleId :

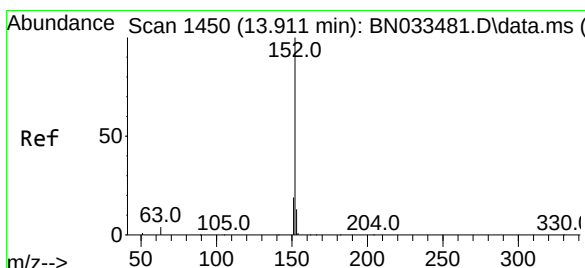
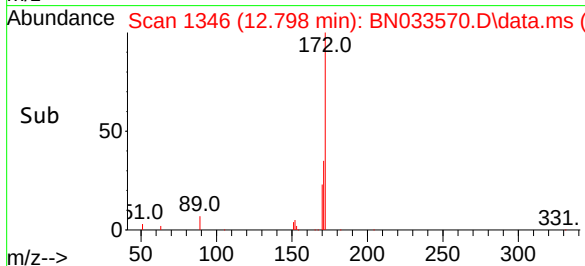
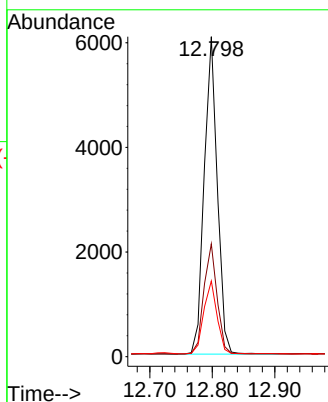
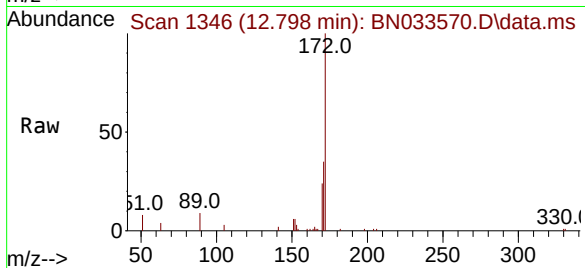
S-928-KI-SO-0.5-1-081924

Tgt Ion:172	Resp:	882
Ion Ratio	Lower	Upper
172	100	
171	35.3	27.7 41.5
170	23.6	18.3 27.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#16

Acenaphthylene

Concen: 0.053 ng

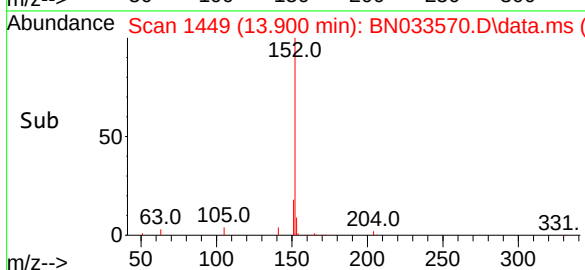
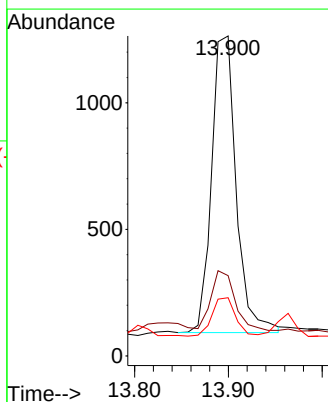
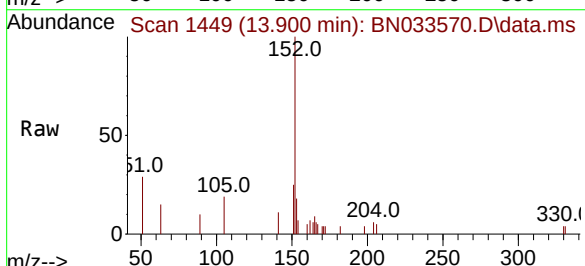
RT: 13.900 min Scan# 1449

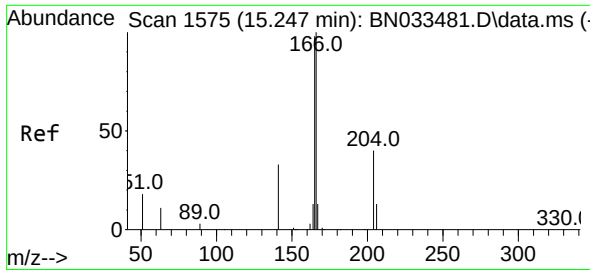
Delta R.T. -0.001 min

Lab File: BN033570.D

Acq: 23 Aug 2024 02:17

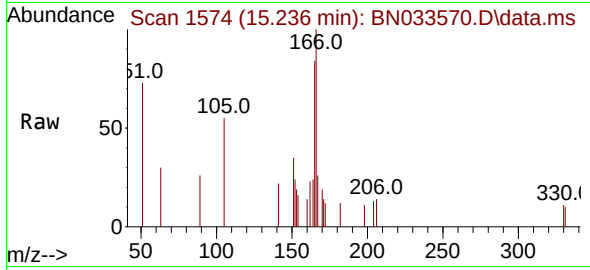
Tgt Ion:152	Resp:	2139
Ion Ratio	Lower	Upper
152	100	
151	19.4	15.7 23.5
153	12.4	10.3 15.5





#18
Fluorene
Concen: 0.024 ng m
RT: 15.236 min Scan# 1574
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

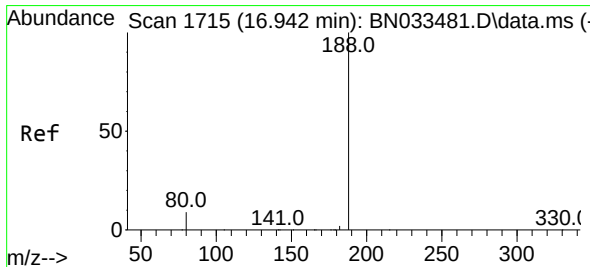
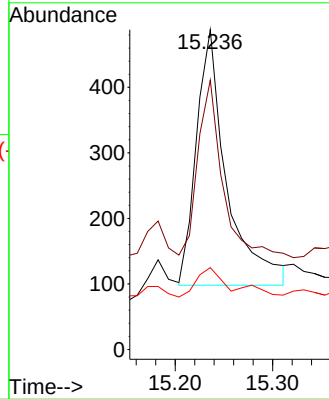
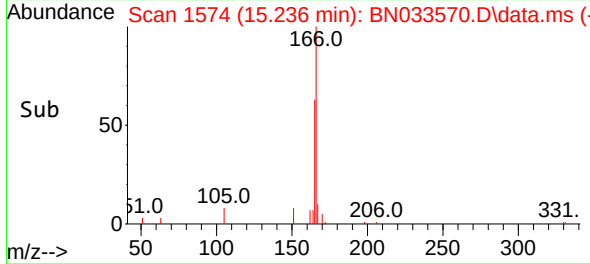
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924



Tgt Ion:166 Resp: 845
Ion Ratio Lower Upper
166 100
165 51.7 78.2 117.4
167 10.5 10.6 16.0

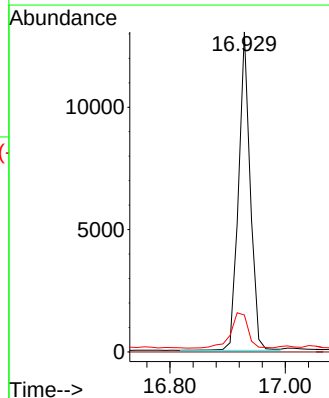
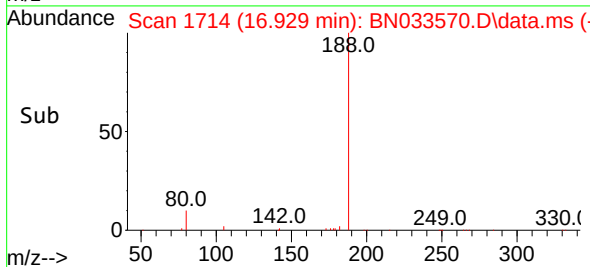
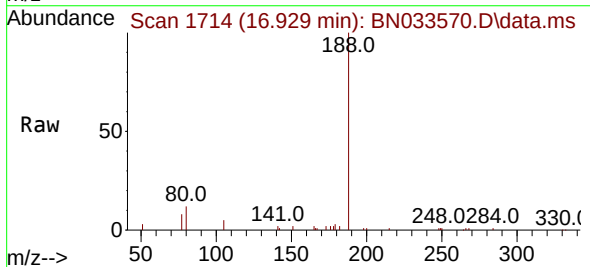
Manual Integrations
APPROVED

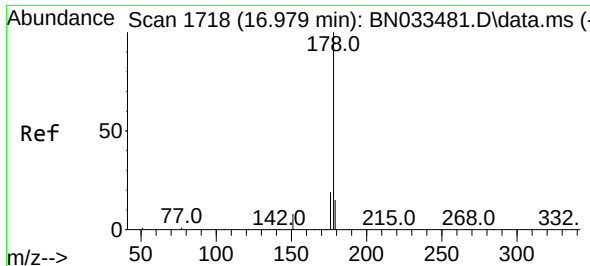
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1714
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

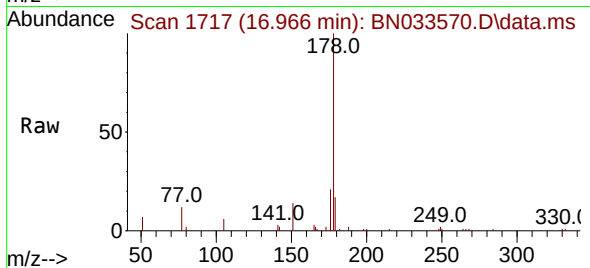
Tgt Ion:188 Resp: 18224
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.6 7.8 11.8





#25
Phenanthrene
Concen: 0.214 ng m
RT: 16.966 min Scan# 1717
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

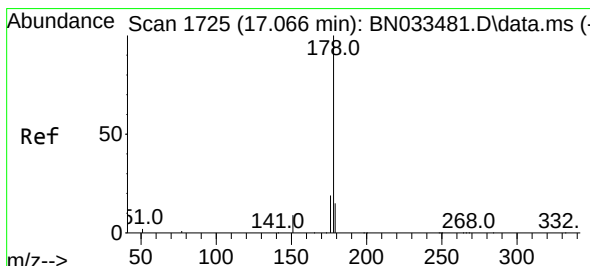
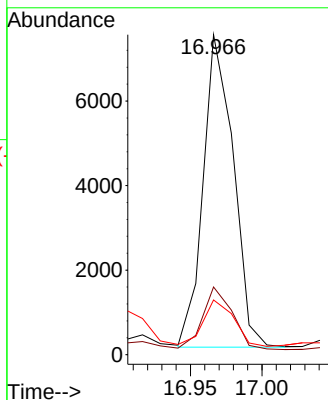
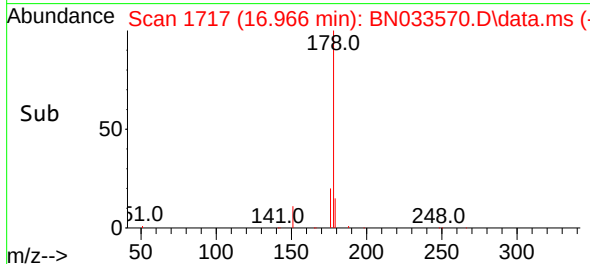
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924



Tgt Ion:178 Resp: 1084
Ion Ratio Lower Upper
178 100
176 19.7 15.3 22.9
179 15.1 12.3 18.5

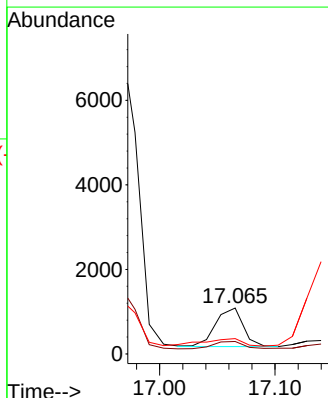
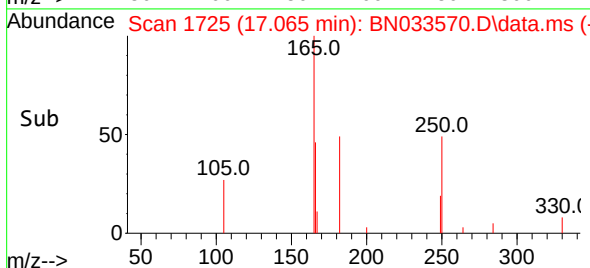
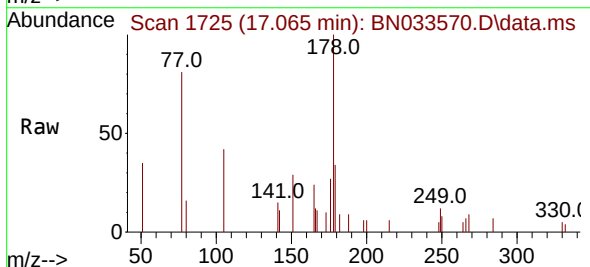
Manual Integrations
APPROVED

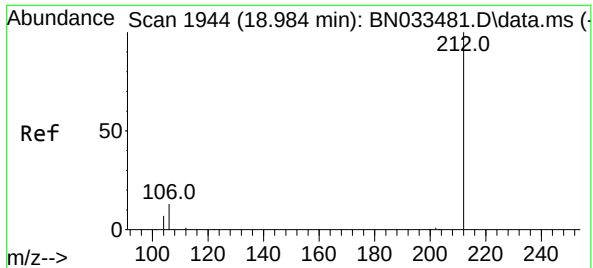
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#26
Anthracene
Concen: 0.034 ng
RT: 17.065 min Scan# 1725
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

Tgt Ion:178 Resp: 1521
Ion Ratio Lower Upper
178 100
176 21.0 15.0 22.6
179 27.8 12.4 18.6#





#27

Fluoranthene-d10

Concen: 0.187 ng

RT: 18.970 min Scan# 1941

Delta R.T. -0.001 min

Lab File: BN033570.D

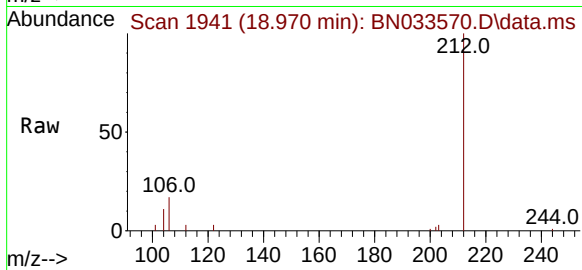
Acq: 23 Aug 2024 02:17

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924



Tgt Ion:212 Resp: 820

Ion Ratio Lower Upper

212 100

106 15.0 12.3 18.5

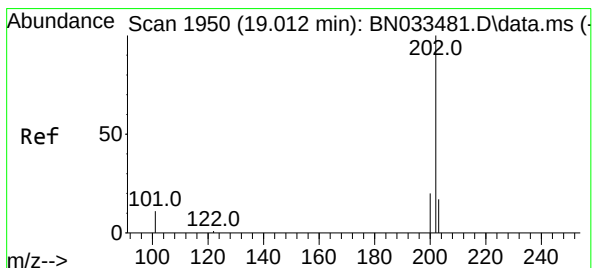
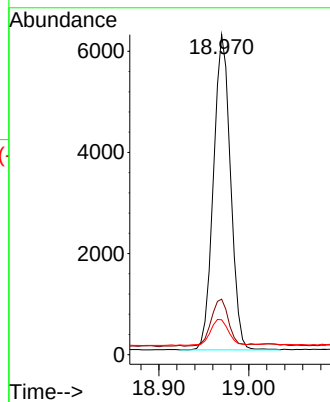
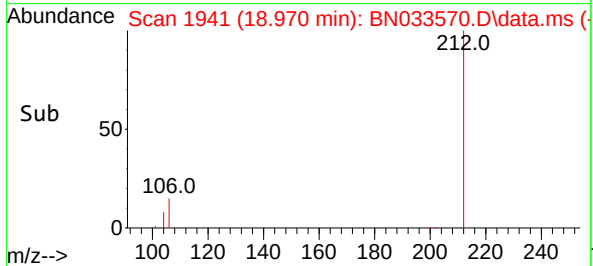
104 8.6 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#28

Fluoranthene

Concen: 0.461 ng

RT: 19.002 min Scan# 1948

Delta R.T. -0.001 min

Lab File: BN033570.D

Acq: 23 Aug 2024 02:17

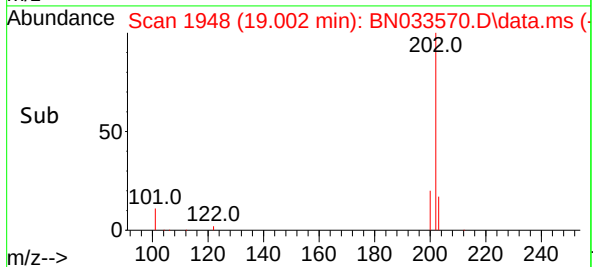
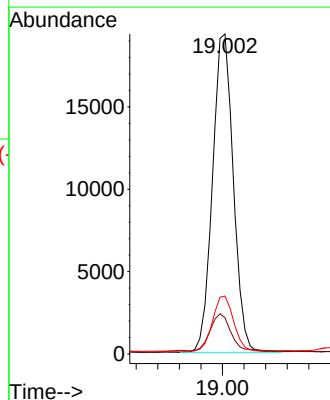
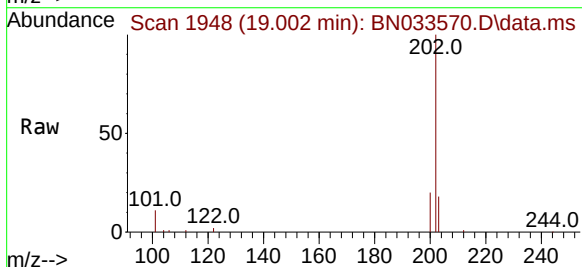
Tgt Ion:202 Resp: 25821

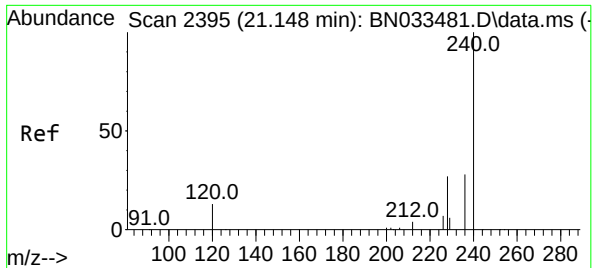
Ion Ratio Lower Upper

202 100

101 12.6 9.5 14.3

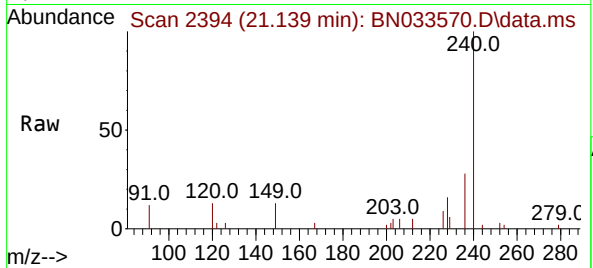
203 17.5 13.8 20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 21
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

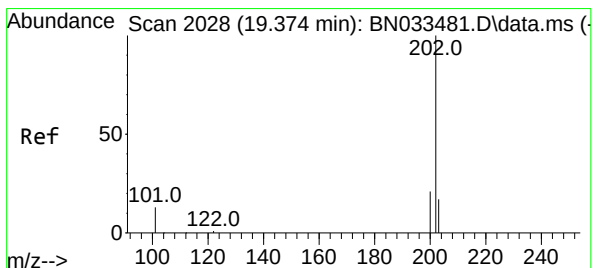
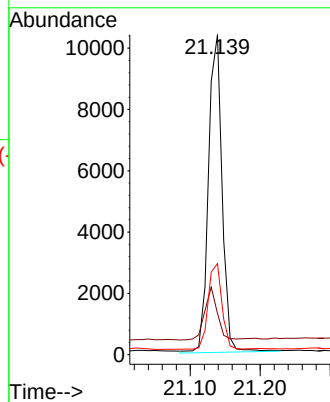
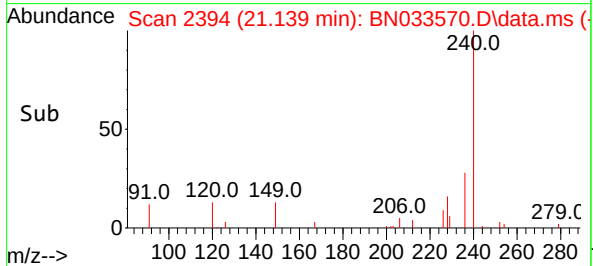
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924



Tgt Ion:240 Resp: 14080
Ion Ratio Lower Upper
240 100
120 12.9 12.4 18.6
236 28.4 23.0 34.6

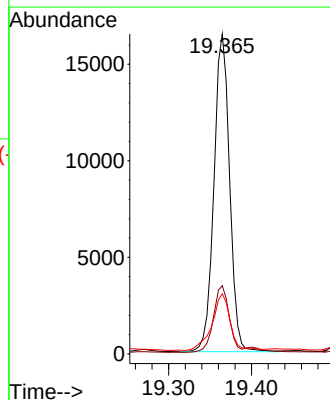
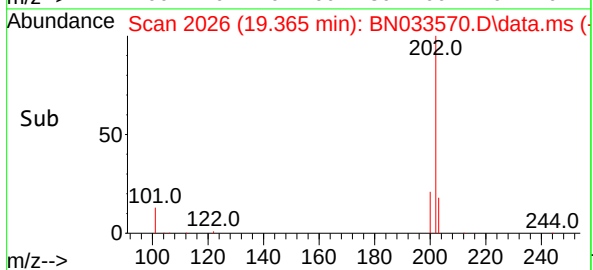
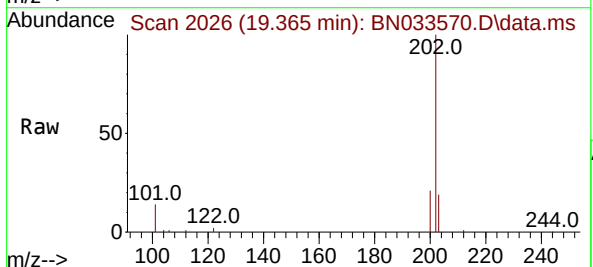
Manual Integrations
APPROVED

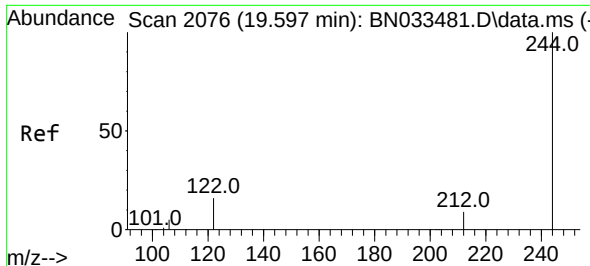
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#30
Pyrene
Concen: 0.343 ng
RT: 19.365 min Scan# 2026
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

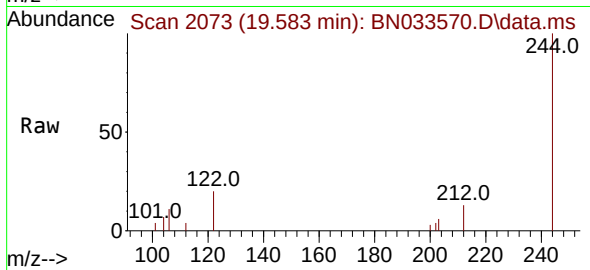
Tgt Ion:202 Resp: 21592
Ion Ratio Lower Upper
202 100
200 21.0 16.6 24.8
203 20.9 14.2 21.4





#31
Terphenyl-d14
Concen: 0.171 ng
RT: 19.583 min Scan# 2076
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

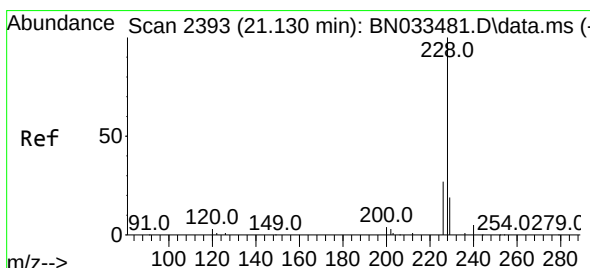
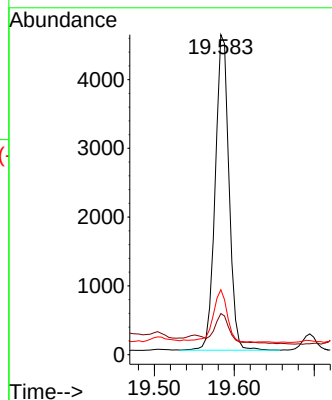
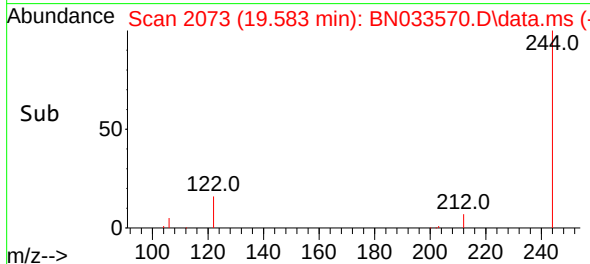
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924



Tgt Ion:244 Resp: 5479
Ion Ratio Lower Upper
244 100
212 12.8 7.8 11.6
122 20.3 13.3 19.9

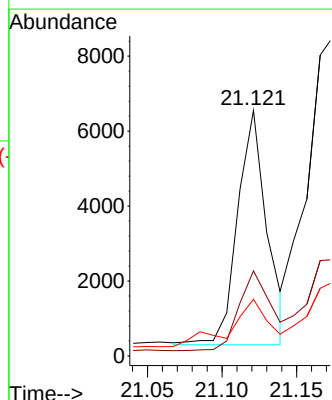
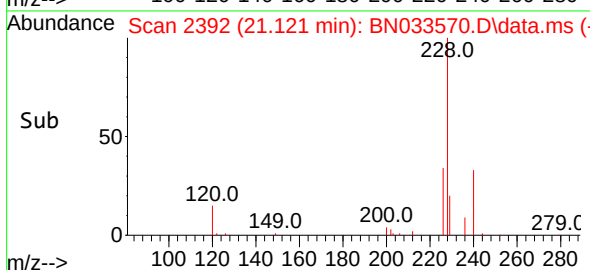
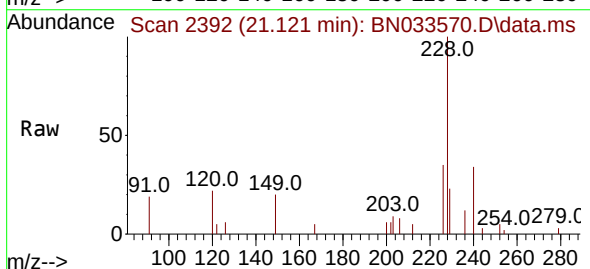
Manual Integrations
APPROVED

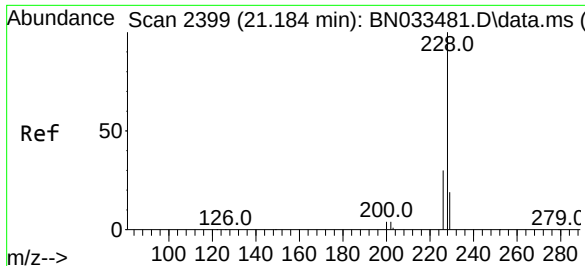
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#32
Benzo(a)anthracene
Concen: 0.168 ng m
RT: 21.121 min Scan# 2392
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

Tgt Ion:228 Resp: 8571
Ion Ratio Lower Upper
228 100
226 34.7 21.8 32.6
229 23.1 15.8 23.6





#33

Chrysene

Concen: 0.272 ng

RT: 21.175 min Scan# 21175

Delta R.T. -0.001 min

Lab File: BN033570.D

Acq: 23 Aug 2024 02:17

Instrument :

BNA_N

ClientSampleId :

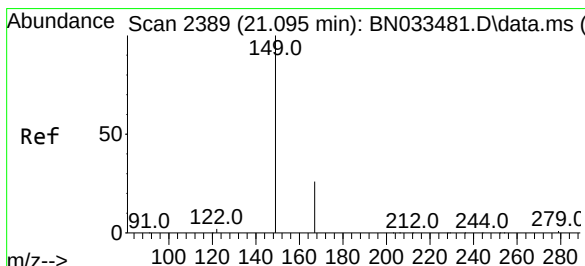
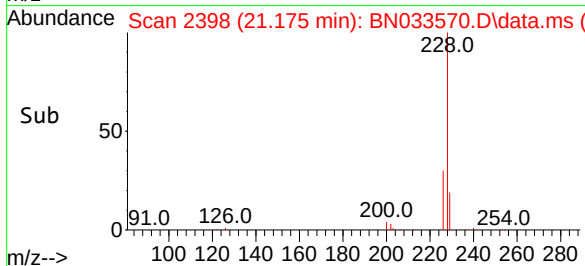
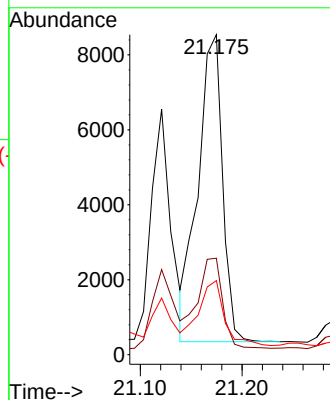
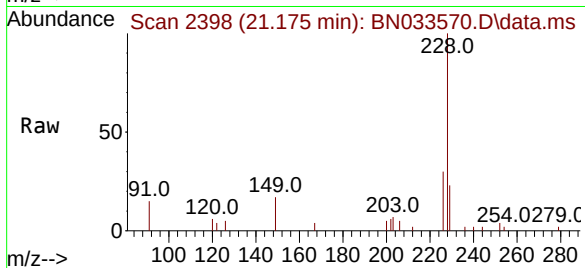
S-928-KI-SO-0.5-1-081924

Tgt Ion:	228	Resp:	13750
Ion Ratio	Lower	Upper	
228	100		
226	30.2	23.8	35.8
229	23.2	15.6	23.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.078 ng m

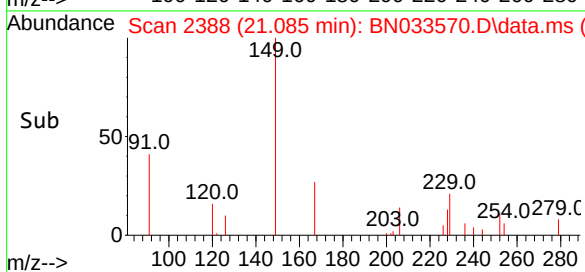
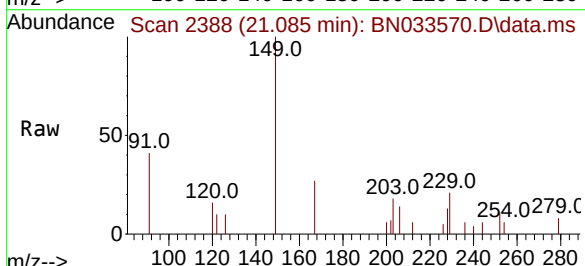
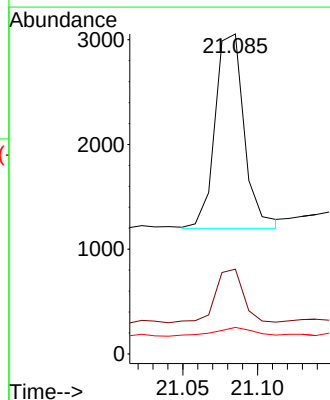
RT: 21.085 min Scan# 2388

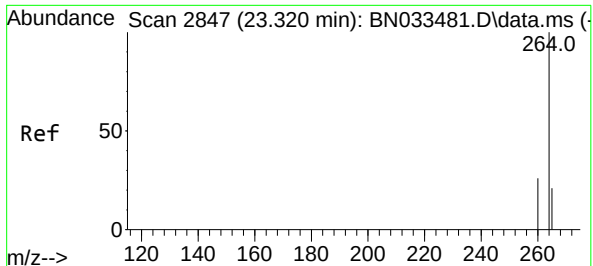
Delta R.T. -0.001 min

Lab File: BN033570.D

Acq: 23 Aug 2024 02:17

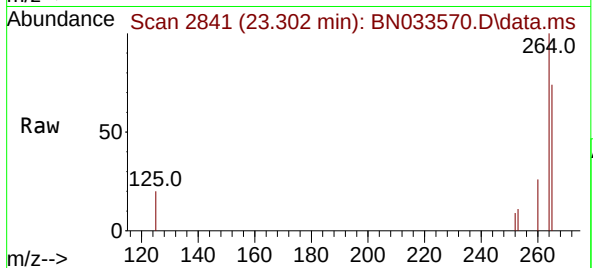
Tgt Ion:	149	Resp:	2516
Ion Ratio	Lower	Upper	
149	100		
167	37.5	21.5	32.3#
279	10.5	2.2	3.2#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.302 min Scan# 21
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

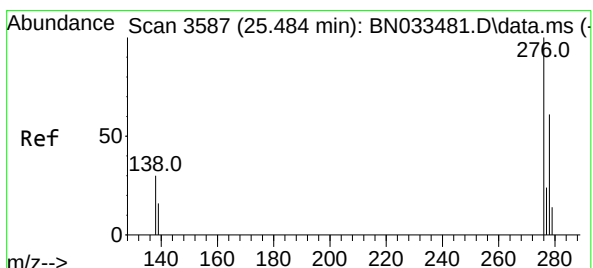
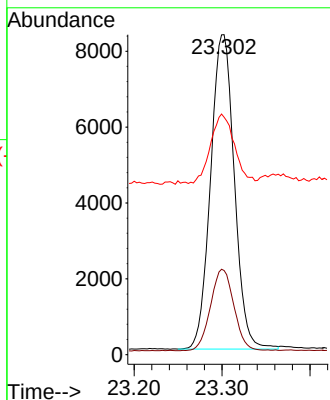
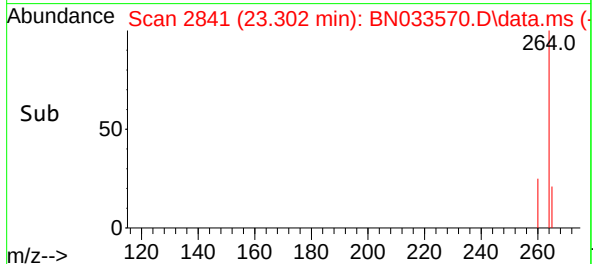
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924



Tgt Ion:264 Resp: 15519
Ion Ratio Lower Upper
264 100
260 26.3 20.8 31.2
265 74.2 52.2 78.2

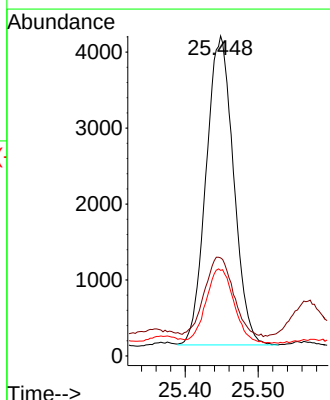
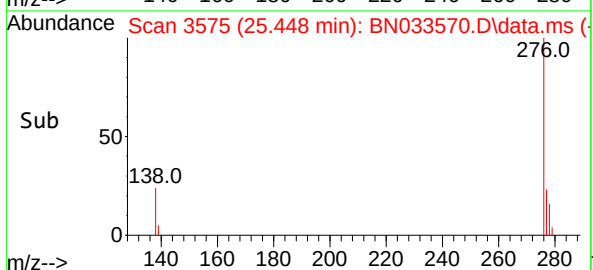
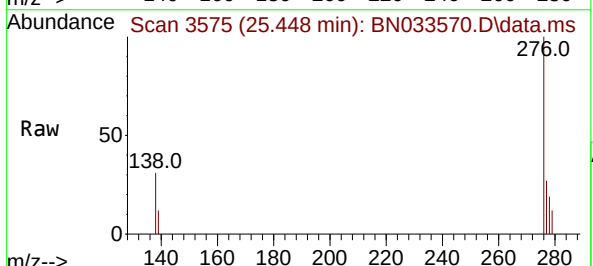
Manual Integrations
APPROVED

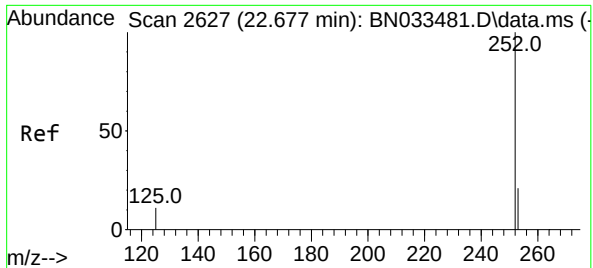
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.165 ng
RT: 25.448 min Scan# 3575
Delta R.T. -0.001 min
Lab File: BN033570.D
Acq: 23 Aug 2024 02:17

Tgt Ion:276 Resp: 10627
Ion Ratio Lower Upper
276 100
138 26.9 24.4 36.6
277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.359 ng

RT: 22.659 min Scan# 2621

Delta R.T. -0.001 min

Lab File: BN033570.D

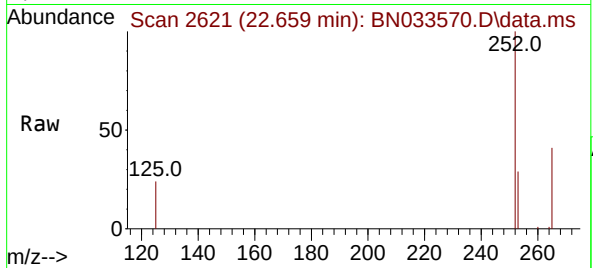
Acq: 23 Aug 2024 02:17

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924



Tgt Ion:252 Resp: 2080

Ion Ratio Lower Upper

252 100

253 29.1 19.8 29.8

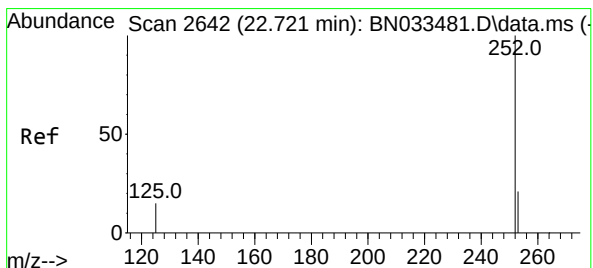
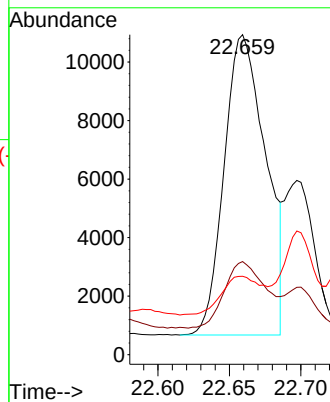
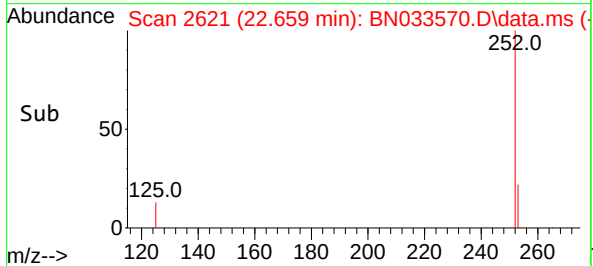
125 24.5 13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#38

Benzo(k)fluoranthene

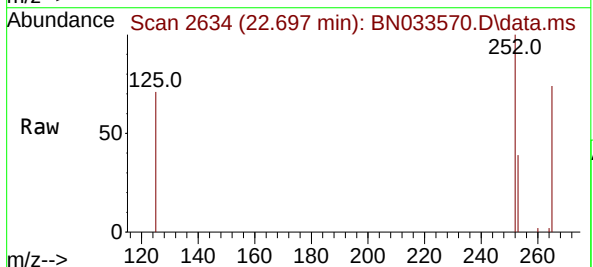
Concen: 0.137 ng m

RT: 22.697 min Scan# 2634

Delta R.T. -0.006 min

Lab File: BN033570.D

Acq: 23 Aug 2024 02:17



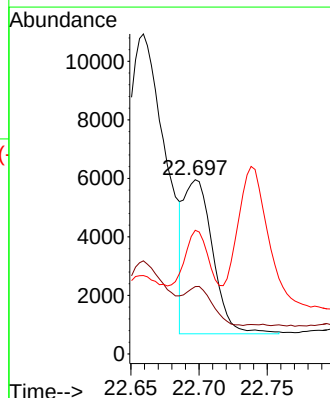
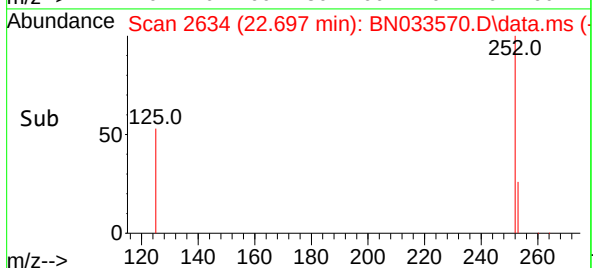
Tgt Ion:252 Resp: 7793

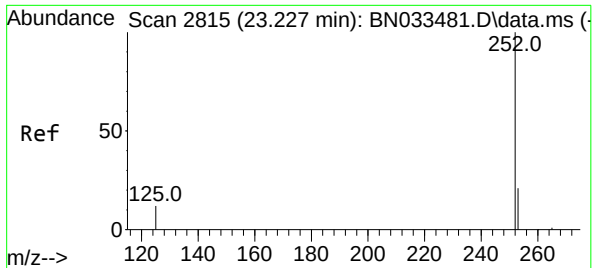
Ion Ratio Lower Upper

252 100

253 38.7 19.8 29.8#

125 71.0 15.8 23.8#





#39

Benzo(a)pyrene

Concen: 0.240 ng

RT: 23.206 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033570.D

Acq: 23 Aug 2024 02:17

Instrument :

BNA_N

ClientSampleId :

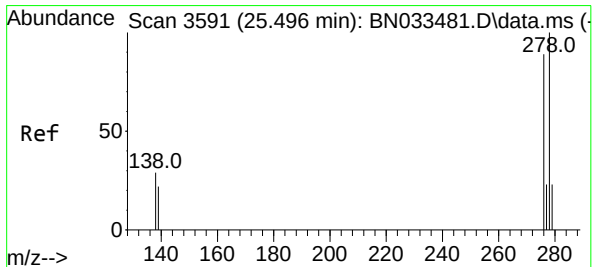
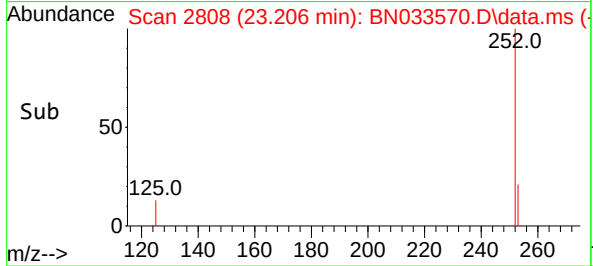
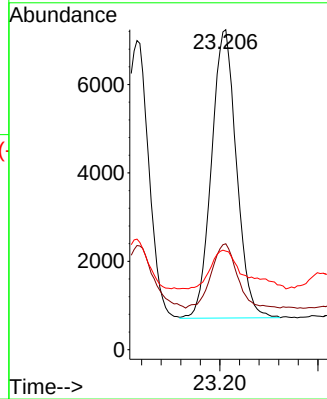
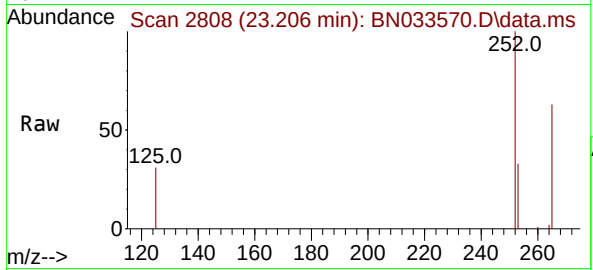
S-928-KI-SO-0.5-1-081924

Tgt Ion:	252	Resp:	1152
Ion Ratio	Lower	Upper	
252	100		
253	33.1	21.5	32.3
125	30.8	17.0	25.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.044 ng

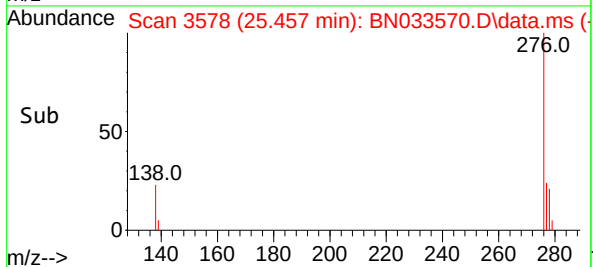
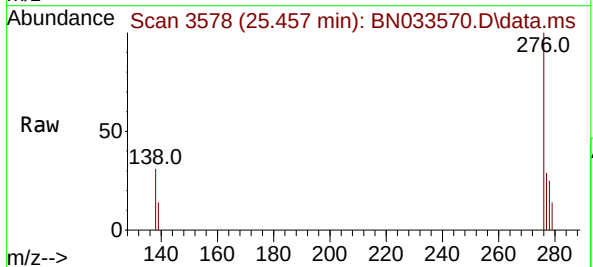
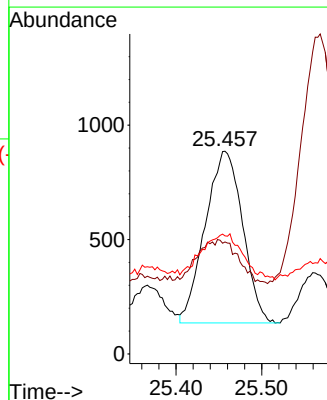
RT: 25.457 min Scan# 3578

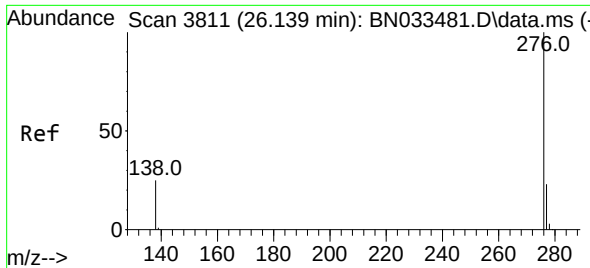
Delta R.T. -0.012 min

Lab File: BN033570.D

Acq: 23 Aug 2024 02:17

Tgt Ion:	278	Resp:	2278
Ion Ratio	Lower	Upper	
278	100		
139	55.3	19.1	28.7
279	58.2	21.0	31.4





#41

Benzo(g,h,i)perylene

Concen: 0.203 ng

RT: 26.100 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN033570.D

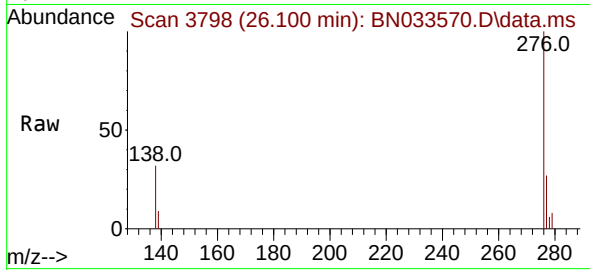
Acq: 23 Aug 2024 02:17

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924



Tgt Ion:276 Resp: 1117

Ion Ratio Lower Upper

276 100

277 26.8 19.7 29.5

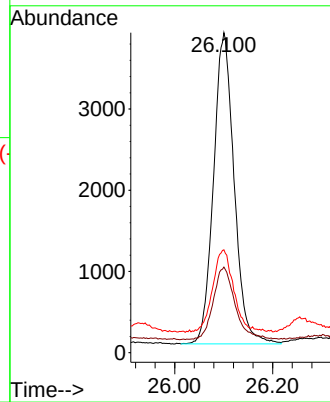
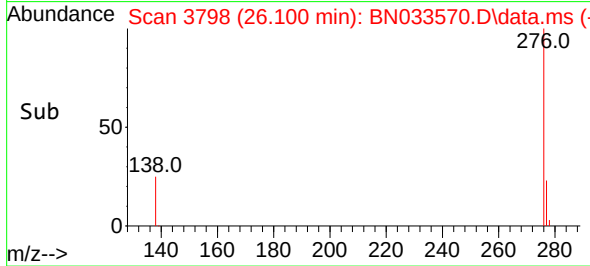
138 32.1 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-12	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	85.8
Sample Wt/Vol:	30.08 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033575.D	1	08/21/24 09:38	08/23/24 05:18	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	3.60	J	0.80	3.80	ug/Kg
91-57-6	2-Methylnaphthalene	2.70	J	0.93	3.80	ug/Kg
208-96-8	Acenaphthylene	6.30		0.73	3.80	ug/Kg
83-32-9	Acenaphthene	25.8		0.64	3.80	ug/Kg
86-73-7	Fluorene	26.6		0.70	3.80	ug/Kg
85-01-8	Phenanthrene	440	E	0.73	3.80	ug/Kg
120-12-7	Anthracene	85.3		0.92	3.80	ug/Kg
206-44-0	Fluoranthene	860	E	0.78	3.80	ug/Kg
129-00-0	Pyrene	480	E	1.10	3.80	ug/Kg
56-55-3	Benzo(a)anthracene	310	E	0.88	3.80	ug/Kg
218-01-9	Chrysene	330	E	1.00	3.80	ug/Kg
205-99-2	Benzo(b)fluoranthene	420	E	1.40	3.80	ug/Kg
207-08-9	Benzo(k)fluoranthene	140		1.10	3.80	ug/Kg
50-32-8	Benzo(a)pyrene	340	E	1.90	3.80	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	180		1.50	3.80	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	51.7		1.40	3.80	ug/Kg
191-24-2	Benzo(g,h,i)perylene	210	E	1.30	3.80	ug/Kg
123-91-1	1,4-Dioxane	2.60	U	2.60	7.70	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.17		30 (17) - 150 (161)	41%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.16		30 (23) - 150 (138)	41%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.19		30 (33) - 130 (121)	48%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.15		30 (32) - 130 (121)	38%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.12		30 (21) - 130 (130)	31%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8160		7.545		
1146-65-2	Naphthalene-d8	20800		10.304		
15067-26-2	Acenaphthene-d10	10700		14.178		
1517-22-2	Phenanthrene-d10	20000		16.929		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-12	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	85.8
Sample Wt/Vol:	30.08 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033575.D	1	08/21/24 09:38	08/23/24 05:18	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	20200	21.139			
1520-96-3	Perylene-d12	21200	23.3			

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\BN082224\
 Data File : BN033575.D
 Acq On : 23 Aug 2024 05:18
 Operator : MA/JU
 Sample : P3671-12
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-903-J-SO-0.5-1.0-081924

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/23/2024
 Supervised By :mohammad ahmed 08/24/2024

Quant Time: Aug 23 05:56:20 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 00:22:18 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	8161	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	20804	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	10684	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	19994	0.400	ng	0.00
29) Chrysene-d12	21.139	240	20246	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	21193	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	4054	0.156	ng	0.00
5) Phenol-d6	6.736	99	4771	0.155	ng	0.00
8) Nitrobenzene-d5	8.681	82	3309	0.192	ng	0.00
11) 2-Methylnaphthalene-d10	11.900	152	4915	0.165	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	930	0.162	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	6630	0.152	ng	0.00
27) Fluoranthene-d10	18.970	212	7798	0.162	ng	0.00
31) Terphenyl-d14	19.584	244	5627	0.122	ng	0.00
Target Compounds						
9) Naphthalene	10.357	128	5094	0.092	ng	# 95
12) 2-Methylnaphthalene	11.975	142	2432	0.069	ng	# 94
16) Acenaphthylene	13.900	152	7656	0.163	ng	98
17) Acenaphthene	14.242	154	21932	0.665	ng	98
18) Fluorene	15.236	166	28501	0.686	ng	95
25) Phenanthrene	16.967	178	637000	11.452	ng	100
26) Anthracene	17.066	178	108356	2.202	ng	# 95
28) Fluoranthene	19.003	202	1359855	22.123	ng	100
30) Pyrene	19.365	202	1125075	12.451	ng	# 94
32) Benzo(a)anthracene	21.122	228	585697	8.002	ng	98
33) Chrysene	21.175	228	628331	8.636	ng	97
34) Bis(2-ethylhexyl)phtha...	21.086	149	64308m	1.388	ng	
36) Indeno(1,2,3-cd)pyrene	25.449	276	414919	4.716	ng	95
37) Benzo(b)fluoranthene	22.660	252	851426	10.758	ng	# 92
38) Benzo(k)fluoranthene	22.698	252	288714m	3.706	ng	
39) Benzo(a)pyrene	23.206	252	574088m	8.767	ng	
40) Dibenzo(a,h)anthracene	25.458	278	93909	1.335	ng	98
41) Benzo(g,h,i)perylene	26.107	276	410026	5.450	ng	98

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

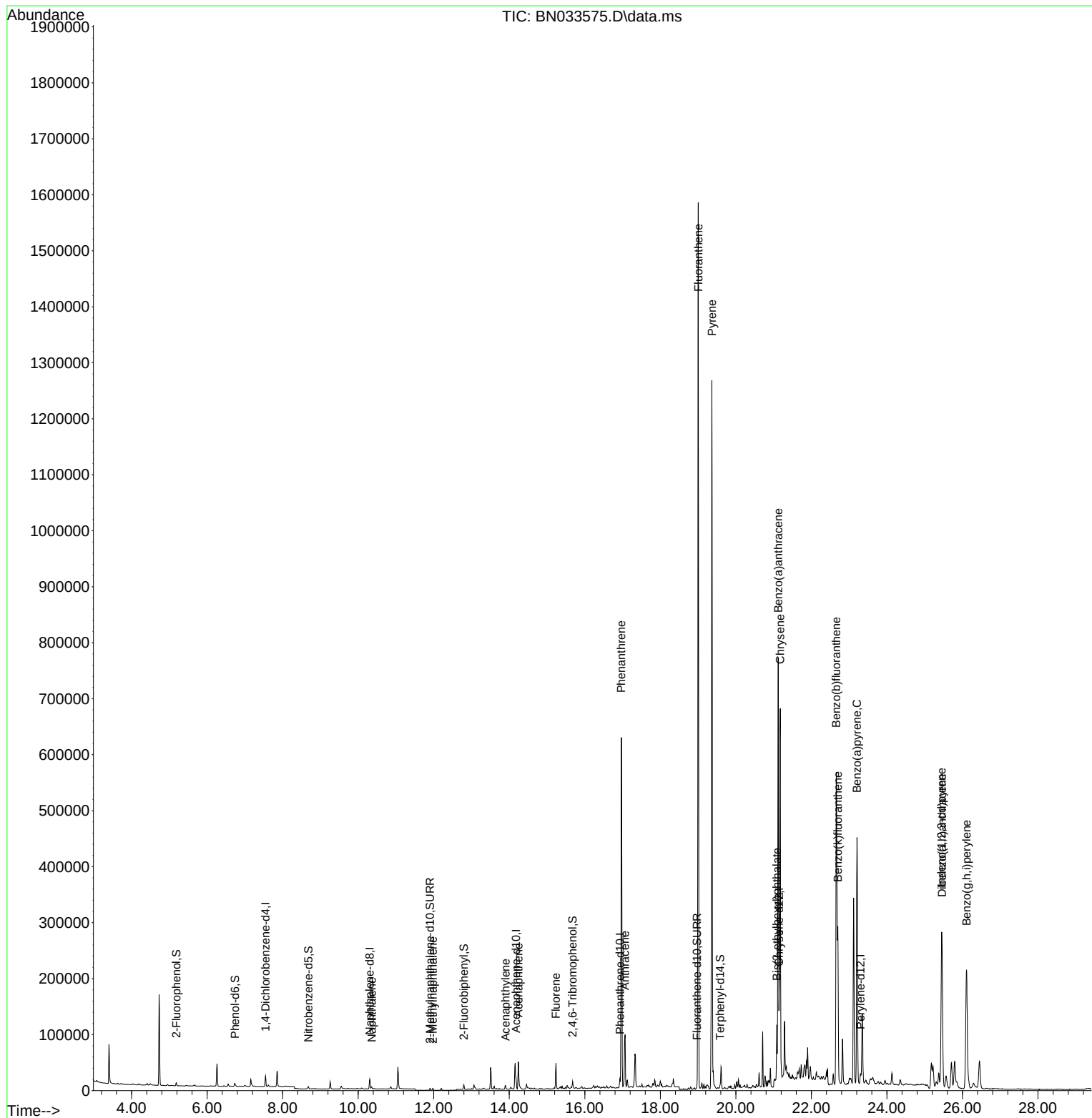
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033575.D
Acq On : 23 Aug 2024 05:18
Operator : MA/JU
Sample : P3671-12
Misc :
ALS Vial : 32 Sample Multiplier: 1

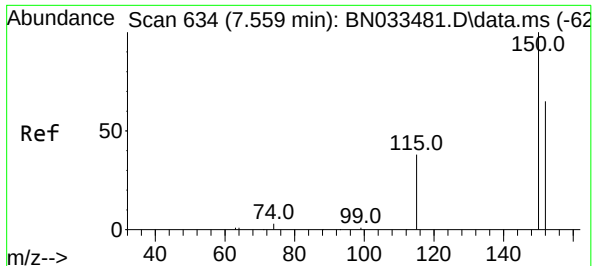
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924

Quant Time: Aug 23 05:56:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

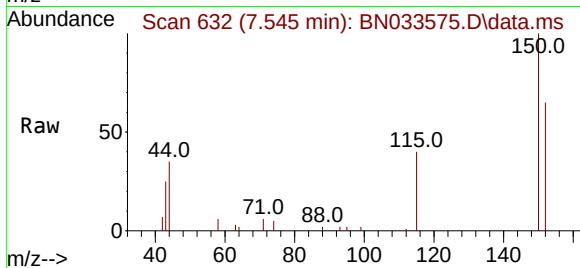
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

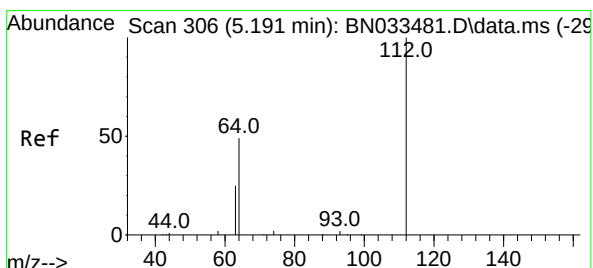
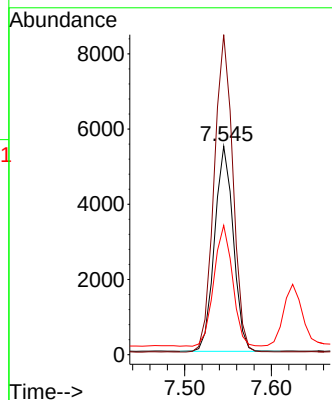
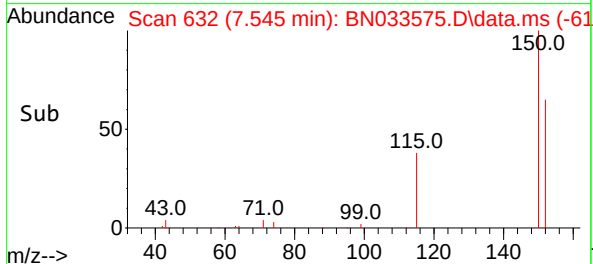
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



Tgt Ion:152 Resp: 816
Ion Ratio Lower Upper
152 100
150 153.5 122.2 183.2
115 62.0 47.2 70.8

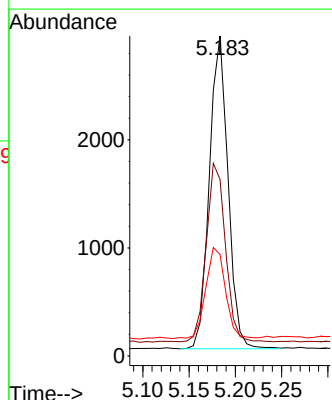
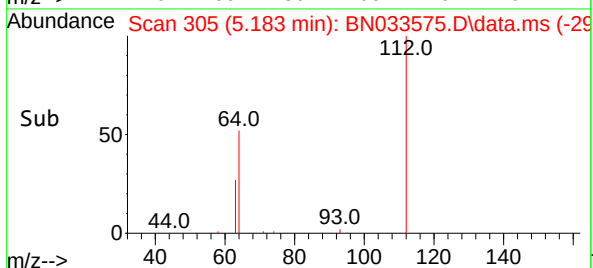
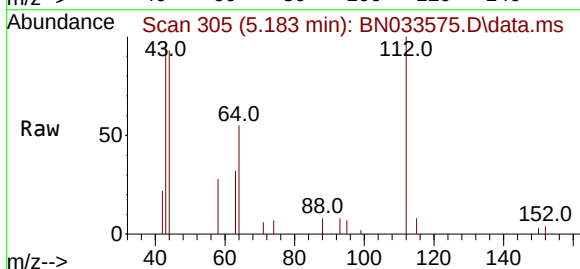
Manual Integrations
APPROVED

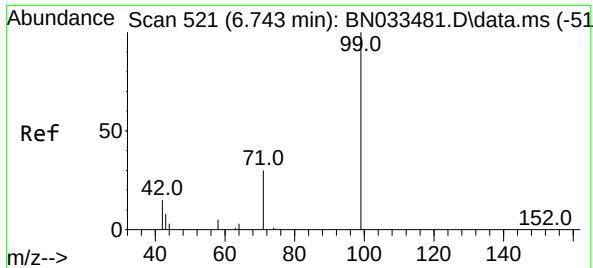
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.156 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

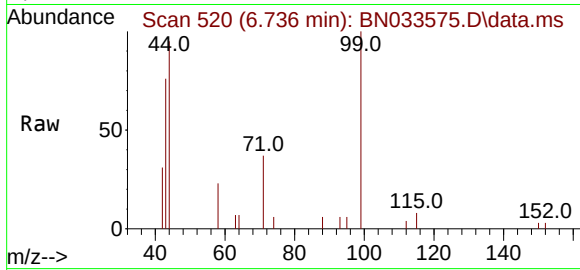
Tgt Ion:112 Resp: 4054
Ion Ratio Lower Upper
112 100
64 58.4 47.1 70.7
63 30.4 24.9 37.3





#5
Phenol-d6
Concen: 0.155 ng
RT: 6.736 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

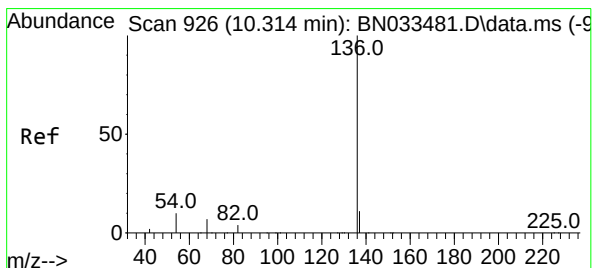
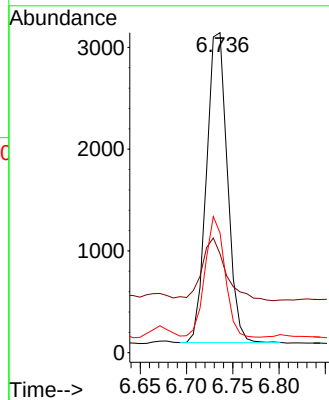
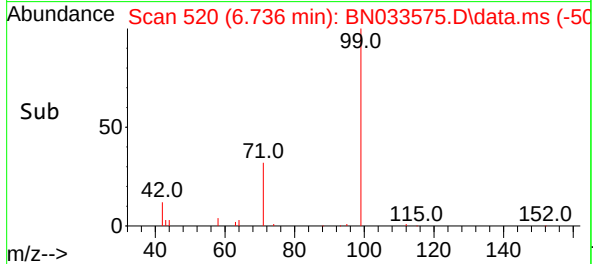
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



Tgt Ion: 99 Resp: 477
Ion Ratio Lower Upper
99 100
42 23.5 16.6 24.8
71 37.3 26.2 39.4

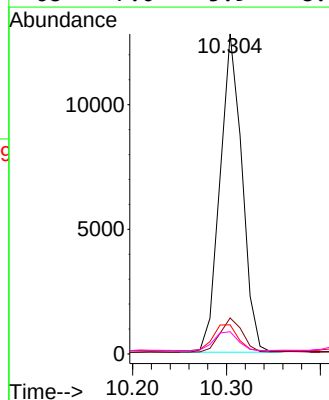
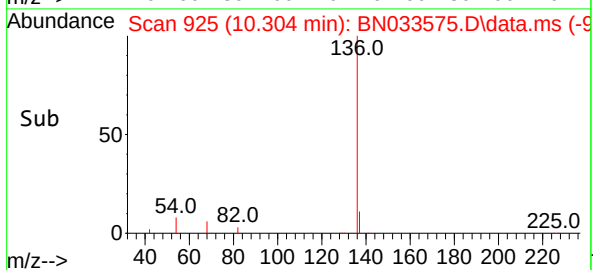
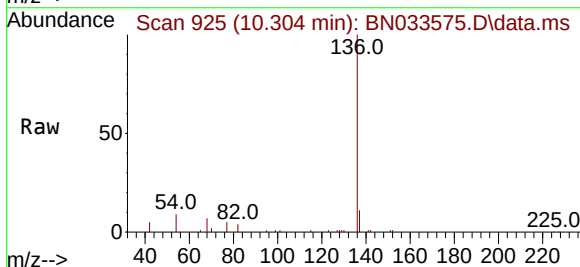
Manual Integrations
APPROVED

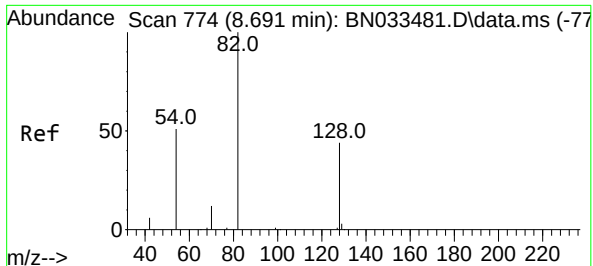
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

Tgt Ion:136 Resp: 20804
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.6
54 9.1 8.3 12.5
68 7.0 5.9 8.9





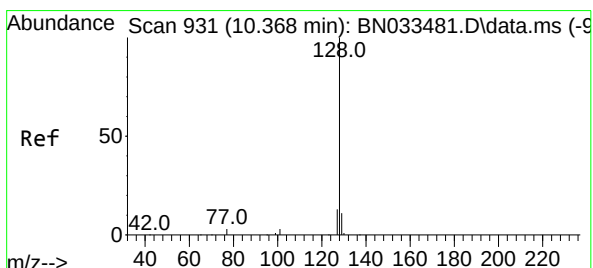
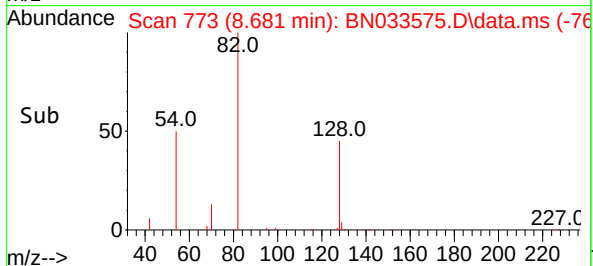
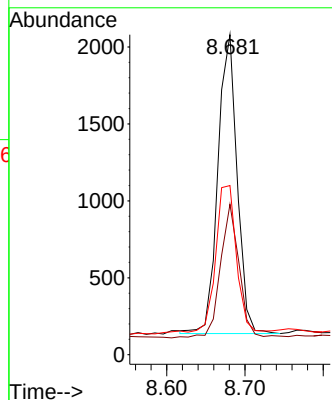
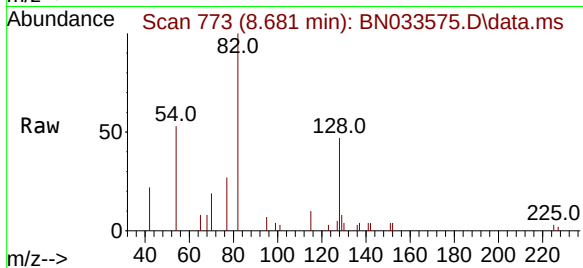
#8
Nitrobenzene-d5
Concen: 0.192 ng
RT: 8.681 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924

Tgt Ion: 82 Resp: 3309
Ion Ratio Lower Upper
82 100
128 47.0 36.0 54.0
54 52.8 42.0 63.0

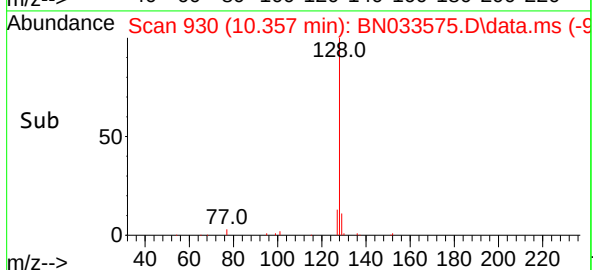
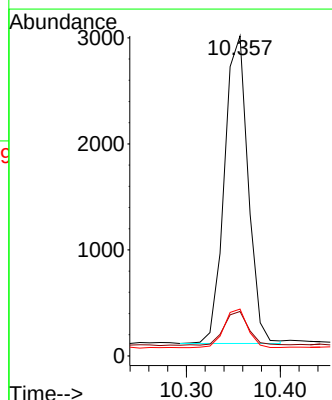
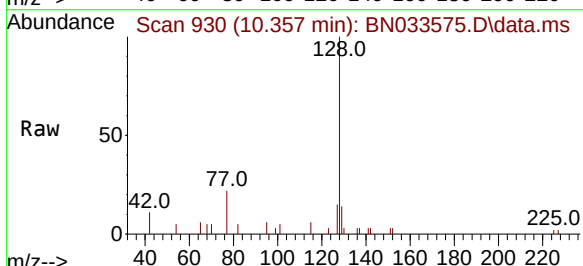
Manual Integrations
APPROVED

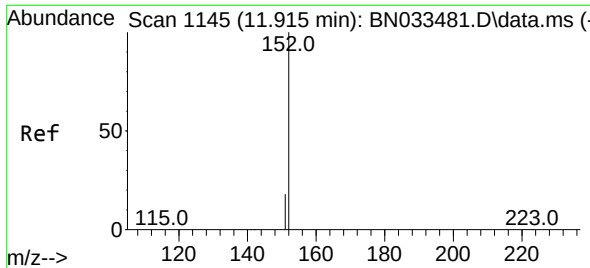
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#9
Naphthalene
Concen: 0.092 ng
RT: 10.357 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

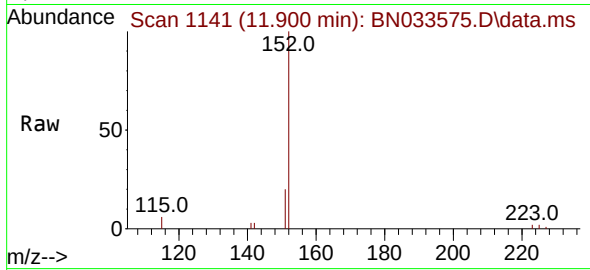
Tgt Ion:128 Resp: 5094
Ion Ratio Lower Upper
128 100
129 13.9 9.1 13.7#
127 14.6 10.7 16.1





#11
2-Methylnaphthalene-d10
Concen: 0.165 ng
RT: 11.900 min Scan# 1145
Delta R.T. -0.004 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

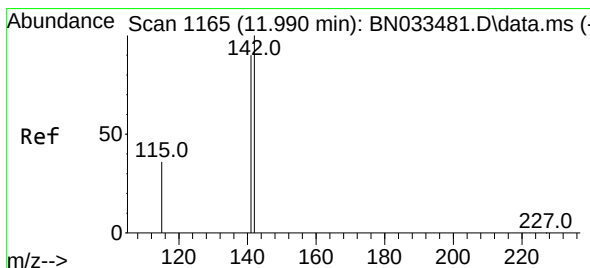
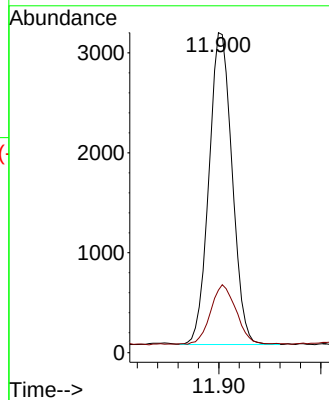
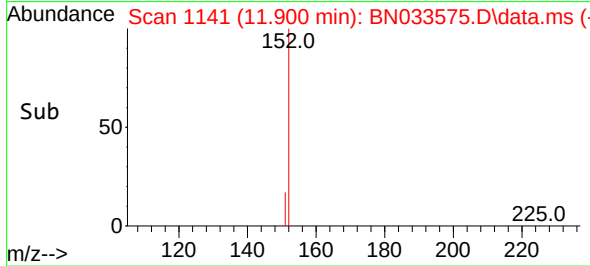
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



Tgt Ion:152 Resp: 4915
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0

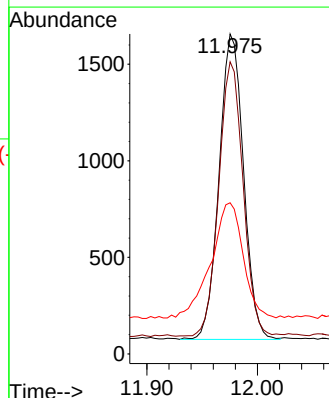
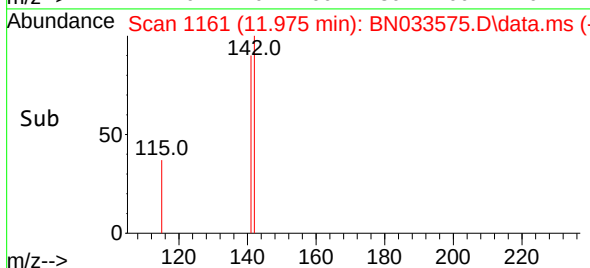
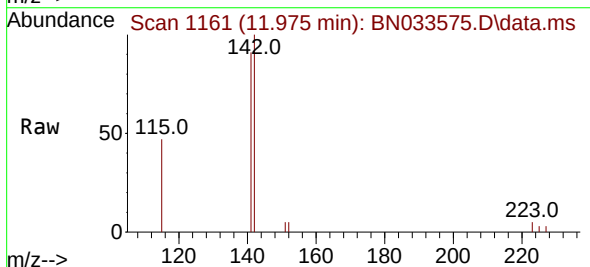
Manual Integrations
APPROVED

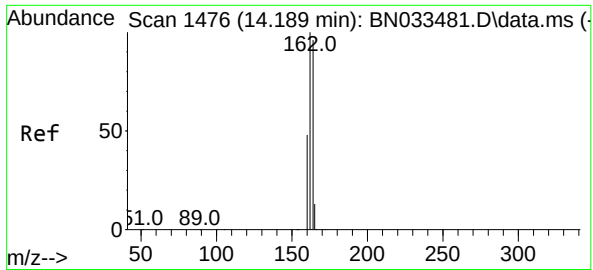
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#12
2-Methylnaphthalene
Concen: 0.069 ng
RT: 11.975 min Scan# 1161
Delta R.T. -0.004 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

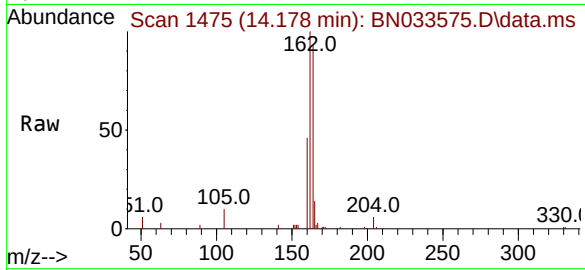
Tgt Ion:142 Resp: 2432
Ion Ratio Lower Upper
142 100
141 91.3 71.7 107.5
115 47.3 29.4 44.2#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

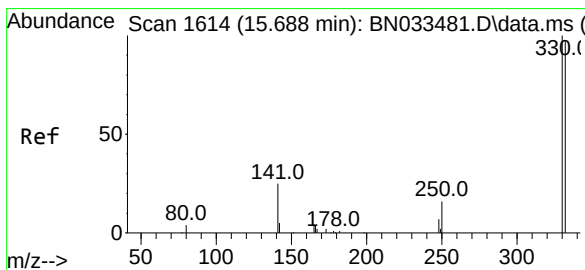
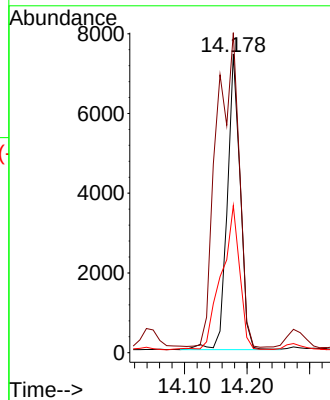
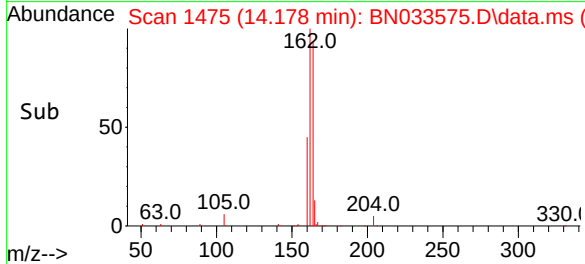
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



Tgt Ion:164 Resp: 10684
Ion Ratio Lower Upper
164 100
162 107.1 83.5 125.3
160 49.2 40.2 60.4

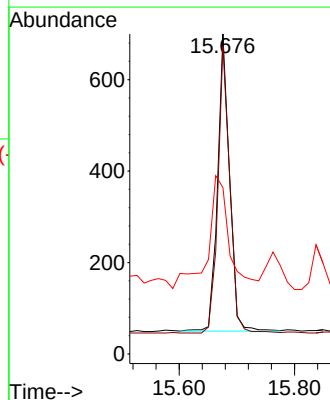
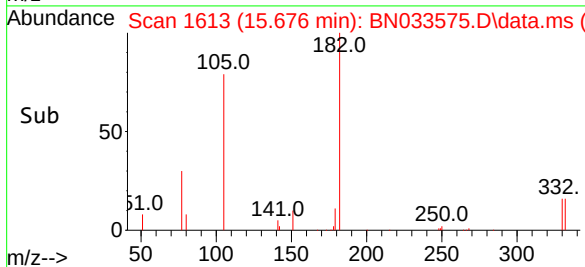
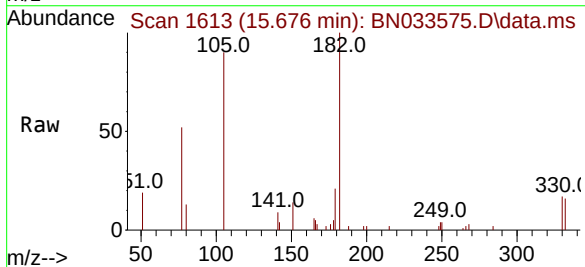
Manual Integrations
APPROVED

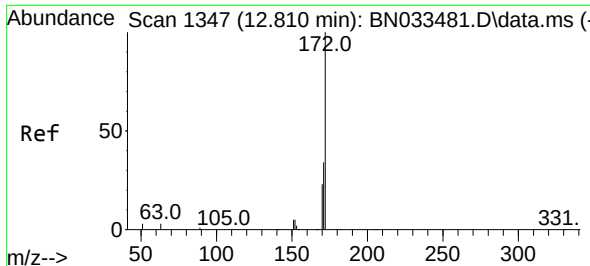
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#14
2,4,6-Tribromophenol
Concen: 0.162 ng
RT: 15.676 min Scan# 1613
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

Tgt Ion:330 Resp: 930
Ion Ratio Lower Upper
330 100
332 96.2 77.5 116.3
141 48.1 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 0.152 ng

RT: 12.799 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033575.D

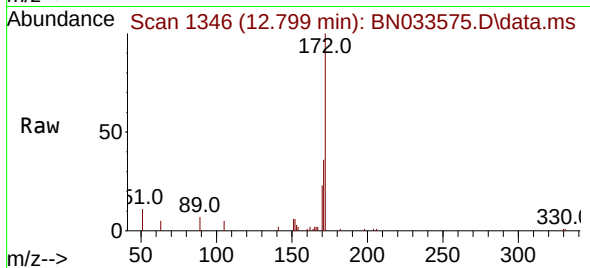
Acq: 23 Aug 2024 05:18

Instrument :

BNA_N

ClientSampleId :

S-903-J-SO-0.5-1.0-081924



Tgt Ion:172 Resp: 6630

Ion Ratio Lower Upper

172 100

171 35.7 27.7 41.5

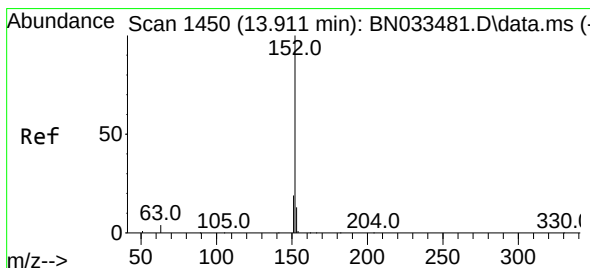
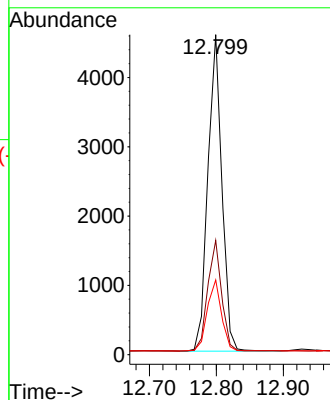
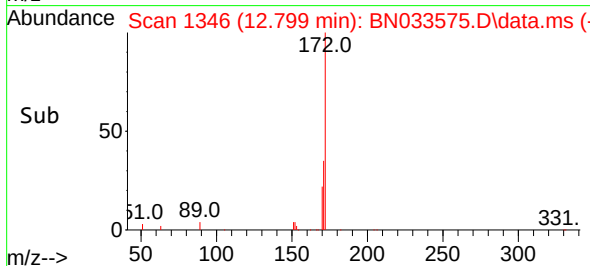
170 23.3 18.3 27.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#16

Acenaphthylene

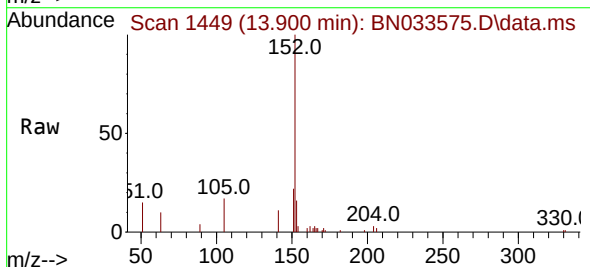
Concen: 0.163 ng

RT: 13.900 min Scan# 1449

Delta R.T. 0.000 min

Lab File: BN033575.D

Acq: 23 Aug 2024 05:18



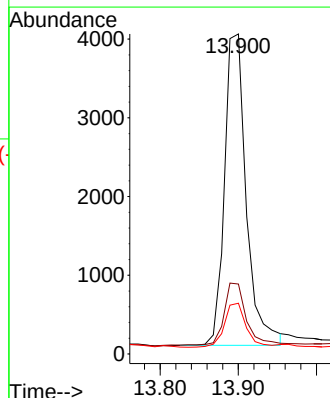
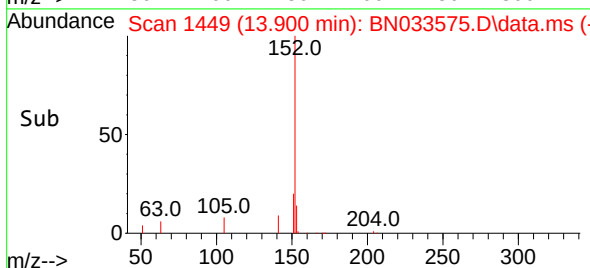
Tgt Ion:152 Resp: 7656

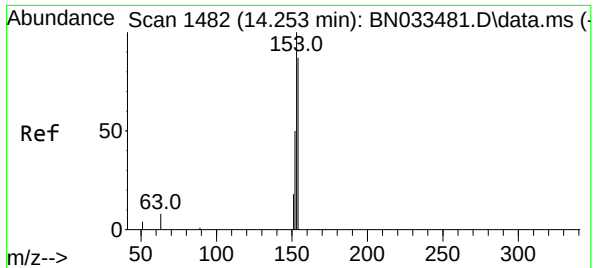
Ion Ratio Lower Upper

152 100

151 20.0 15.7 23.5

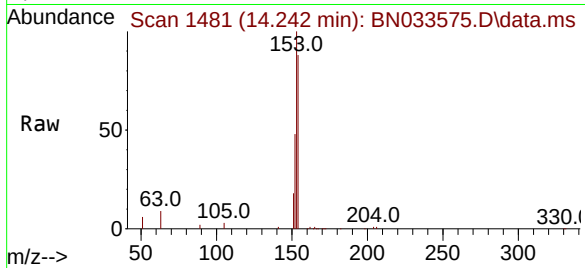
153 14.2 10.3 15.5





#17
Acenaphthene
Concen: 0.665 ng
RT: 14.242 min Scan# 1481
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

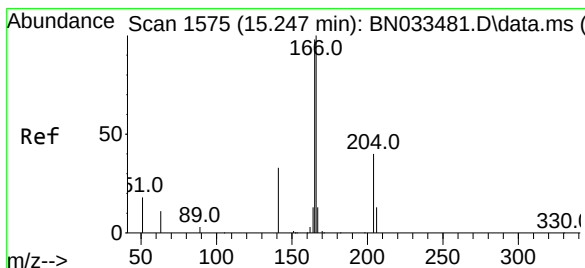
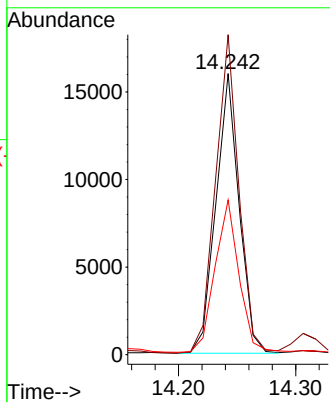
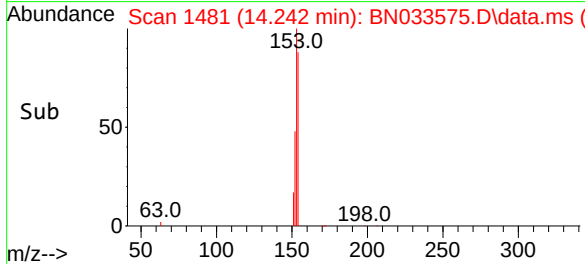
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



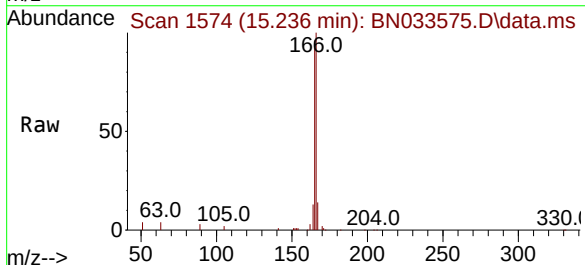
Tgt Ion:154 Resp: 2193
Ion Ratio Lower Upper
154 100
153 114.5 89.0 133.6
152 56.2 45.2 67.8

Manual Integrations
APPROVED

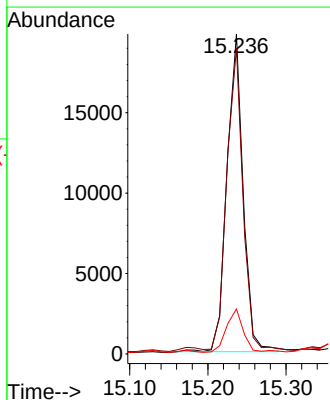
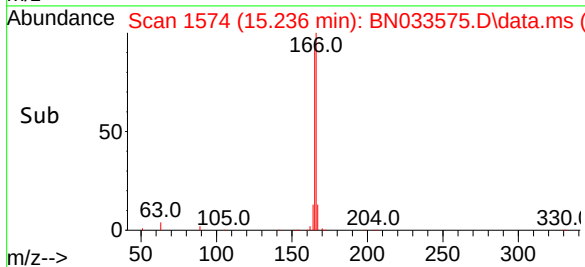
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

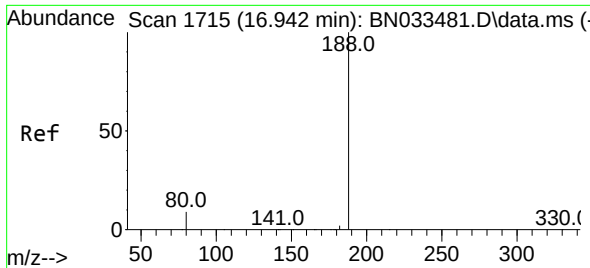


#18
Fluorene
Concen: 0.686 ng
RT: 15.236 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18



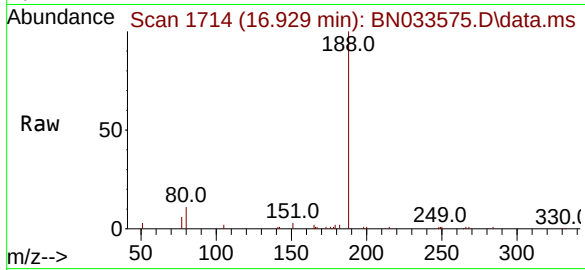
Tgt Ion:166 Resp: 28501
Ion Ratio Lower Upper
166 100
165 92.8 78.2 117.4
167 14.5 10.6 16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

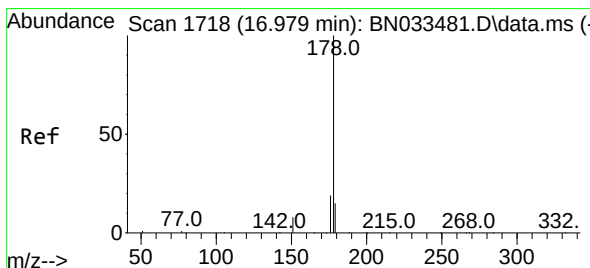
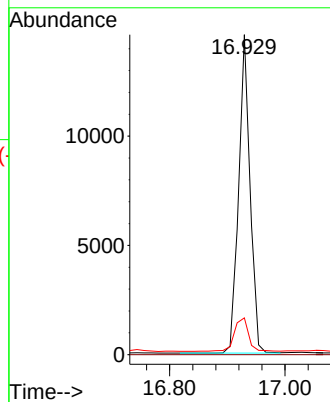
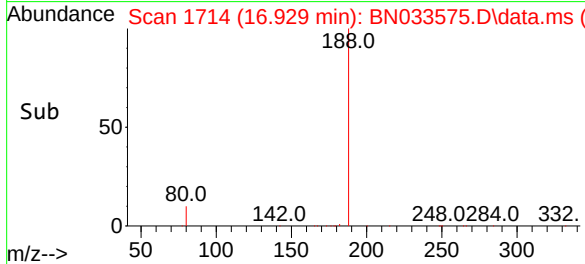
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



Tgt Ion:188 Resp: 1994
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.5 7.8 11.8

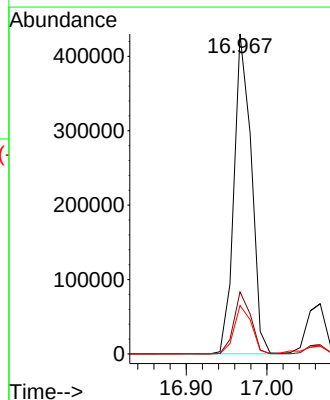
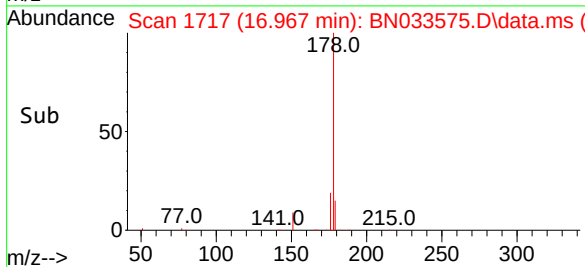
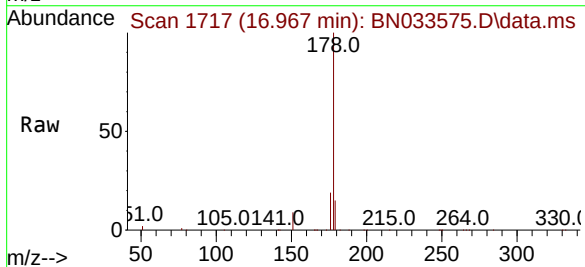
Manual Integrations
APPROVED

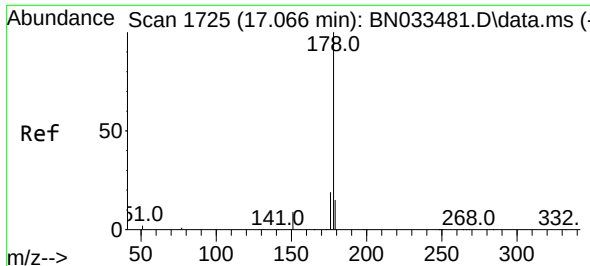
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#25
Phenanthrene
Concen: 11.452 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

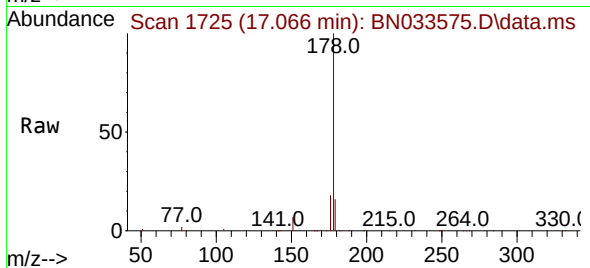
Tgt Ion:178 Resp: 637000
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.2 12.3 18.5





#26
Anthracene
Concen: 2.202 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

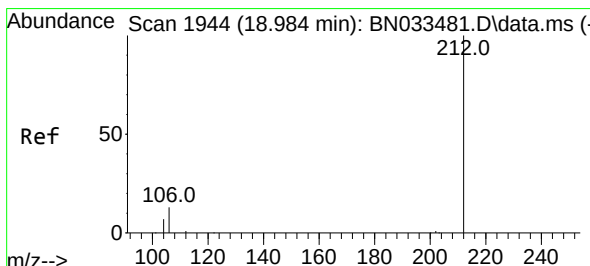
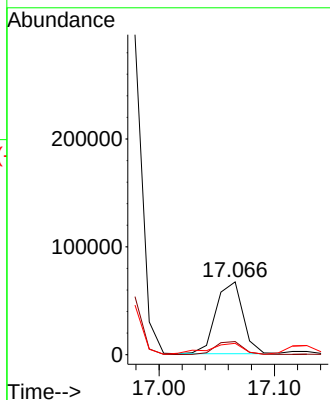
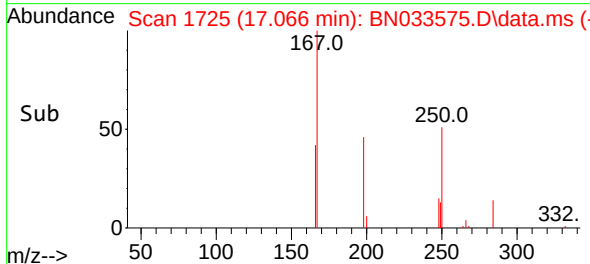
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



Tgt Ion:178 Resp: 108350
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 19.3 12.4 18.6

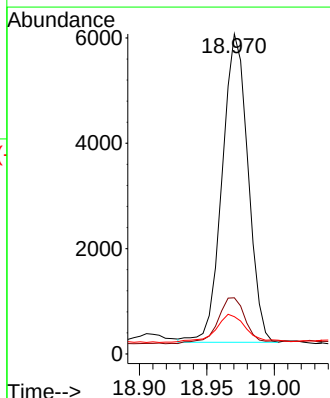
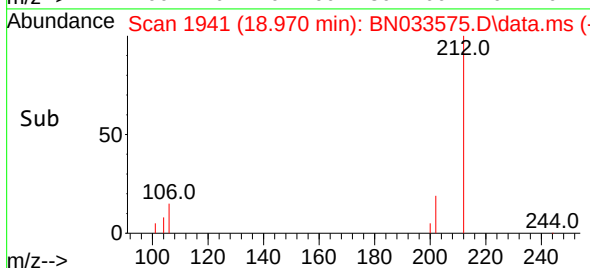
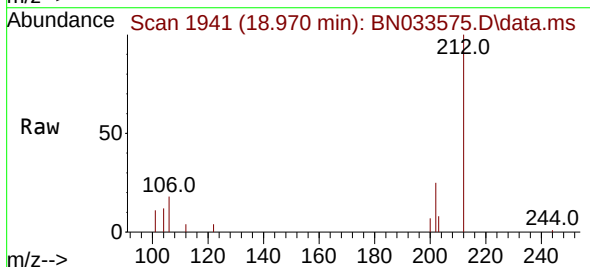
Manual Integrations
APPROVED

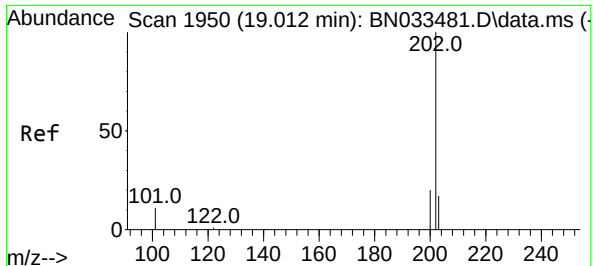
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#27
Fluoranthene-d10
Concen: 0.162 ng
RT: 18.970 min Scan# 1941
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

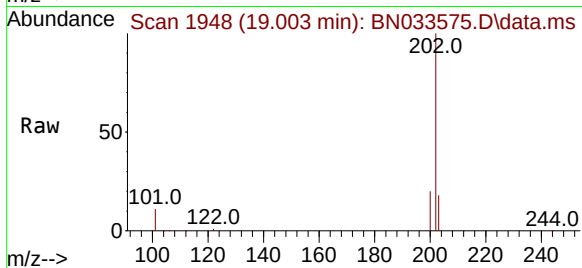
Tgt Ion:212 Resp: 7798
Ion Ratio Lower Upper
212 100
106 16.1 12.3 18.5
104 11.0 7.0 10.4





#28
Fluoranthene
Concen: 22.123 ng
RT: 19.003 min Scan# 1950
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

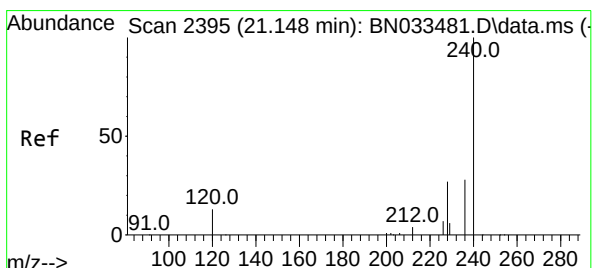
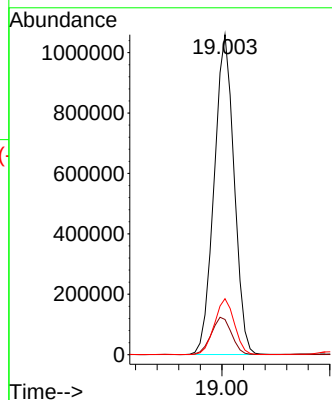
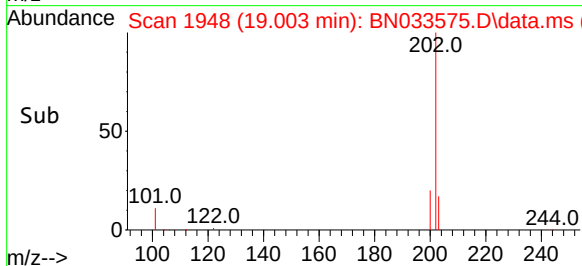
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



Tgt Ion:202 Resp: 135985
Ion Ratio Lower Upper
202 100
101 11.9 9.5 14.3
203 17.4 13.8 20.6

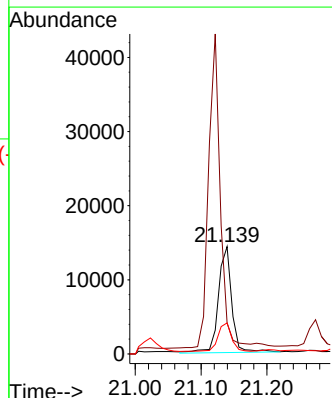
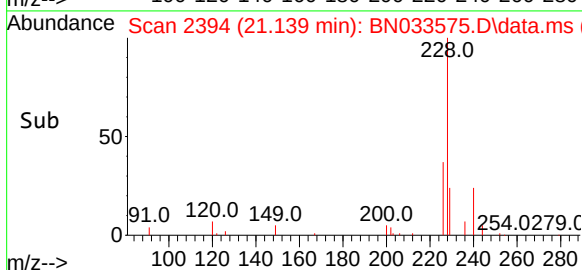
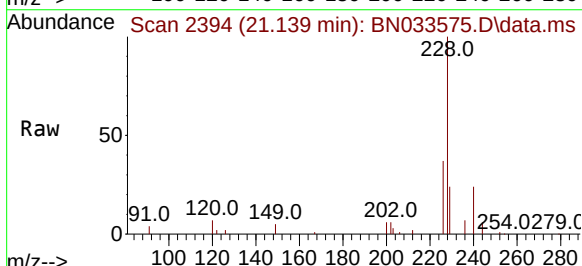
Manual Integrations
APPROVED

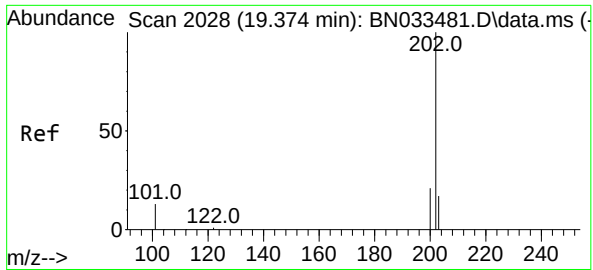
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 2394
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

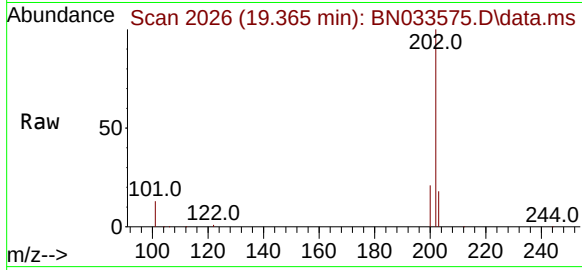
Tgt Ion:240 Resp: 20246
Ion Ratio Lower Upper
240 100
120 28.8 12.4 18.6#
236 28.8 23.0 34.6





#30
Pyrene
Concen: 12.451 ng
RT: 19.365 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

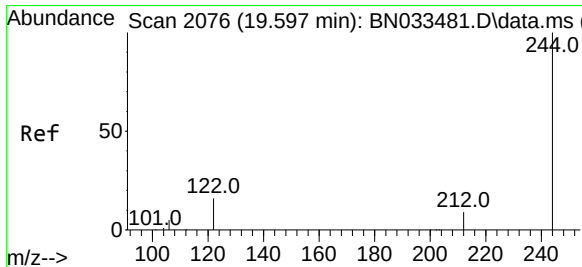
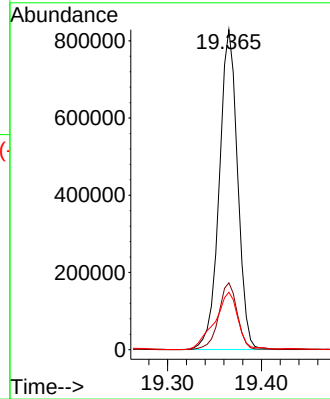
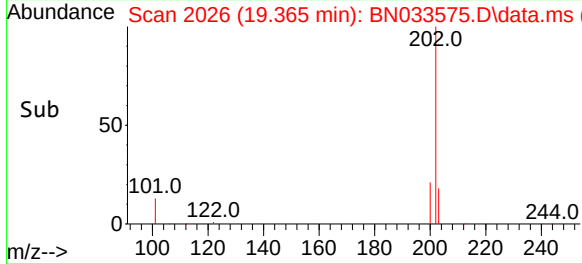
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



Tgt Ion:202 Resp: 112507
Ion Ratio Lower Upper
202 100
200 21.3 16.6 24.8
203 22.9 14.2 21.4

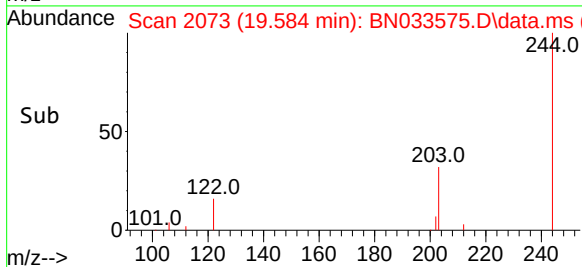
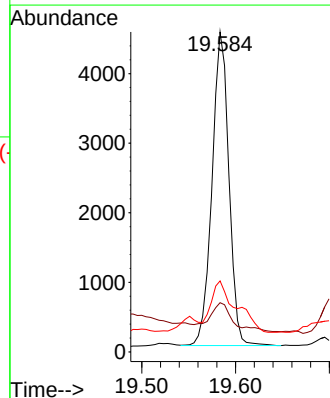
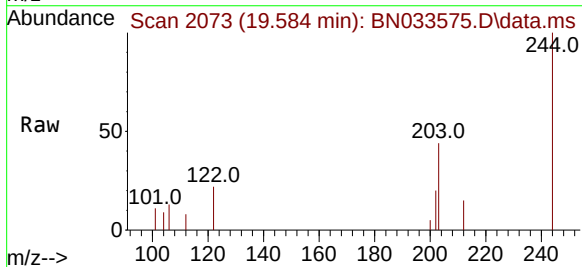
Manual Integrations
APPROVED

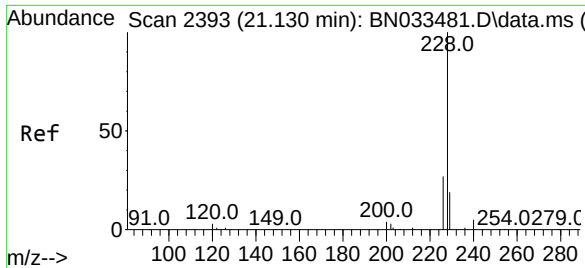
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#31
Terphenyl-d14
Concen: 0.122 ng
RT: 19.584 min Scan# 2073
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

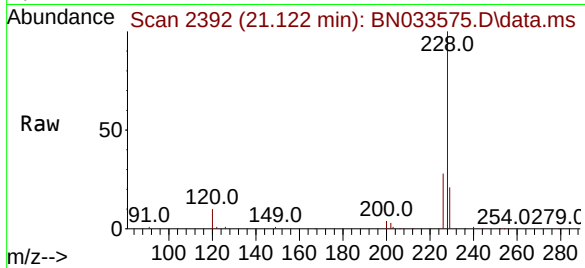
Tgt Ion:244 Resp: 5627
Ion Ratio Lower Upper
244 100
212 15.4 7.8 11.6#
122 22.2 13.3 19.9#





#32
Benzo(a)anthracene
Concen: 8.002 ng
RT: 21.122 min Scan# 21122
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

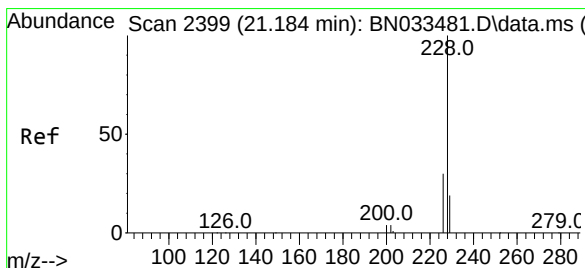
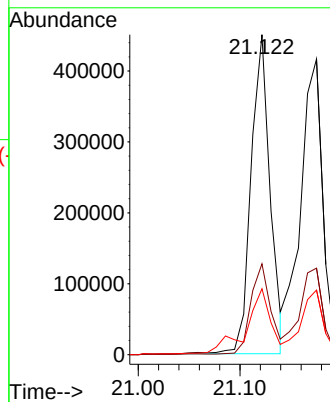
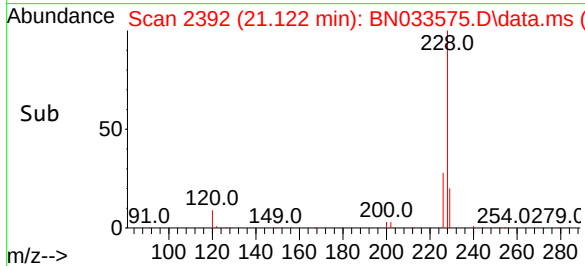
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



Tgt Ion:228 Resp: 58569
Ion Ratio Lower Upper
228 100
226 28.4 21.8 32.6
229 20.6 15.8 23.6

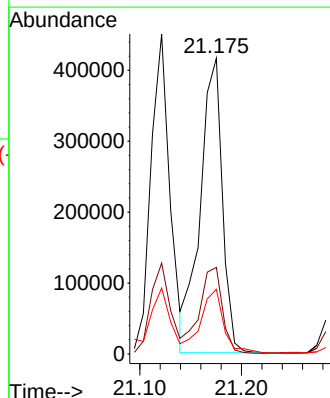
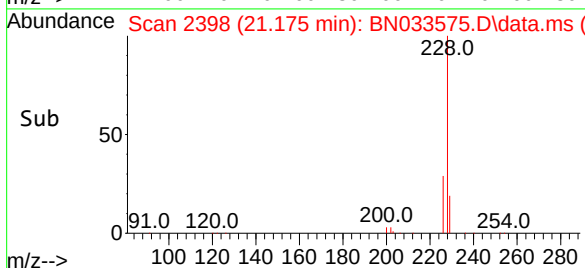
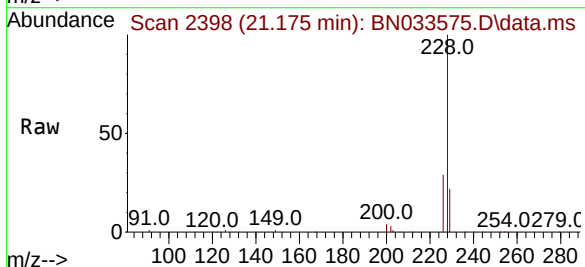
Manual Integrations
APPROVED

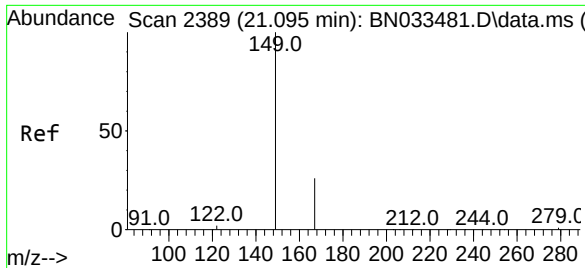
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#33
Chrysene
Concen: 8.636 ng
RT: 21.175 min Scan# 2398
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

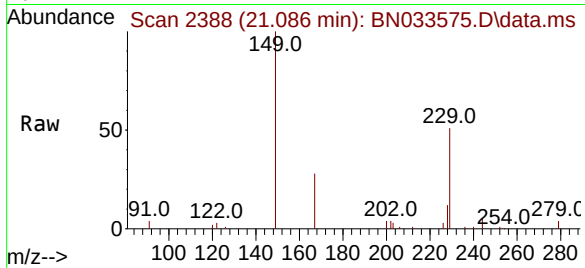
Tgt Ion:228 Resp: 628331
Ion Ratio Lower Upper
228 100
226 29.3 23.8 35.8
229 21.8 15.6 23.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 1.388 ng m
RT: 21.086 min Scan# 21086
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

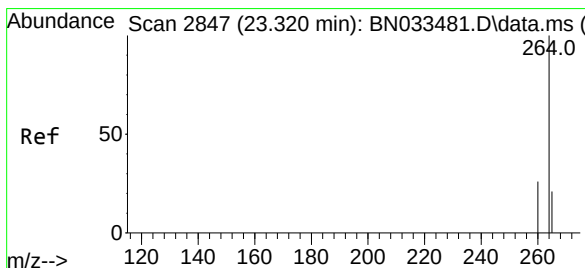
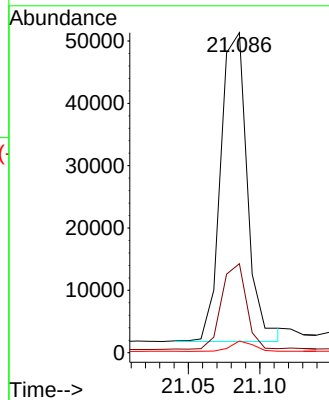
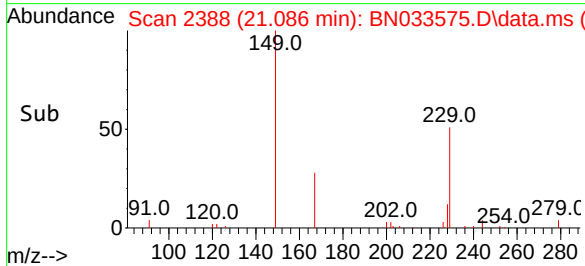
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



Tgt Ion:149 Resp: 64308
Ion Ratio Lower Upper
149 100
167 32.3 21.5 32.3
279 3.4 2.2 3.2

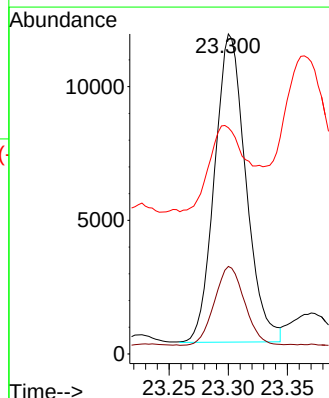
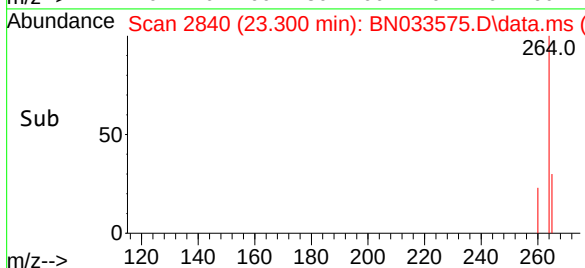
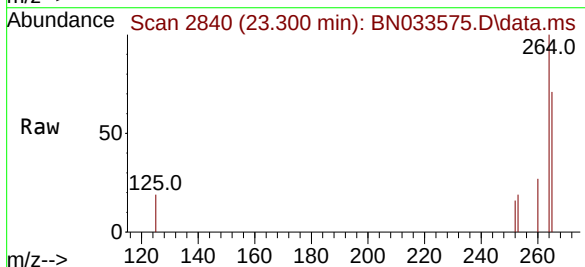
Manual Integrations
APPROVED

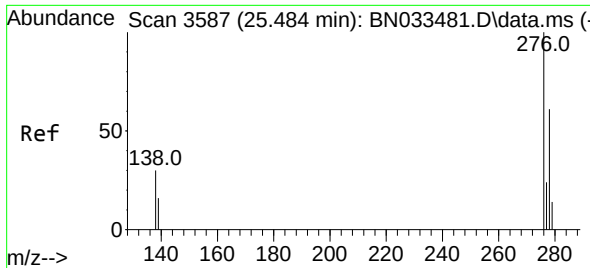
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.300 min Scan# 2840
Delta R.T. -0.003 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

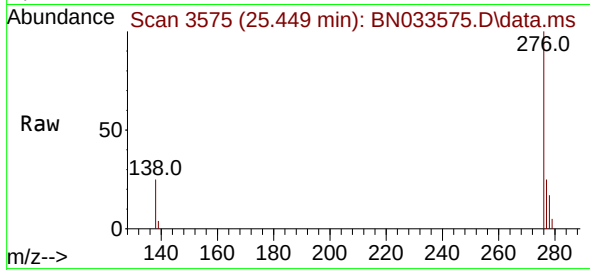
Tgt Ion:264 Resp: 21193
Ion Ratio Lower Upper
264 100
260 27.4 20.8 31.2
265 70.7 52.2 78.2





#36
Indeno(1,2,3-cd)pyrene
Concen: 4.716 ng
RT: 25.449 min Scan# 3587
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

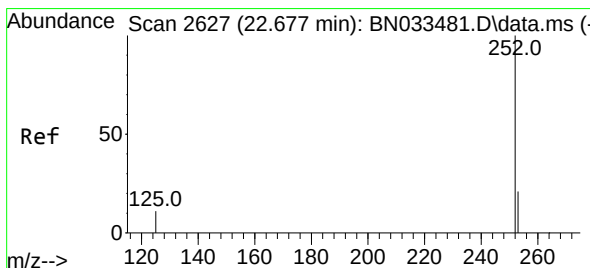
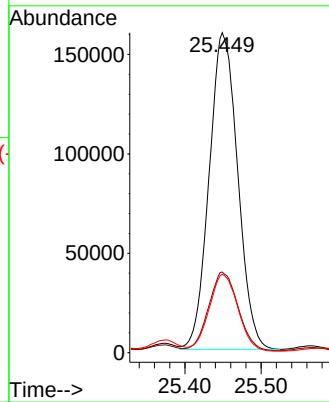
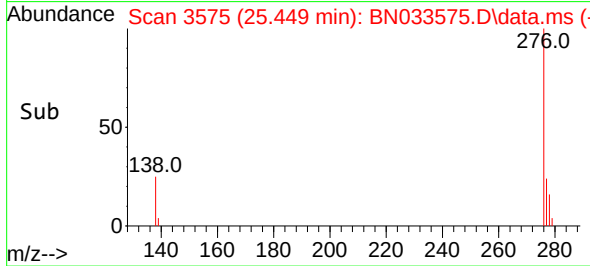
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924



Tgt Ion:276 Resp: 414919
Ion Ratio Lower Upper
276 100
138 25.6 24.4 36.6
277 24.5 19.8 29.6

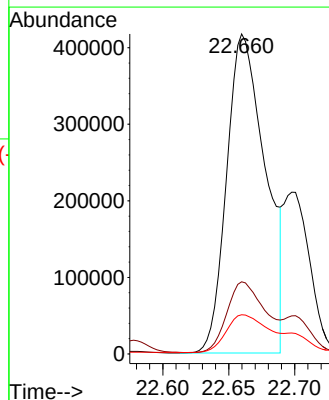
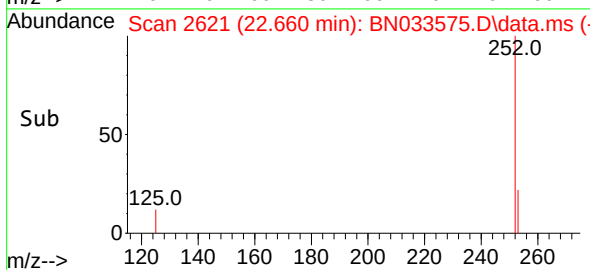
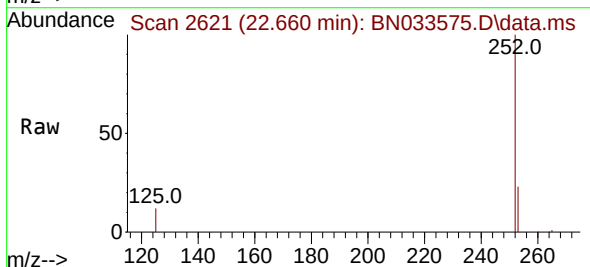
Manual Integrations
APPROVED

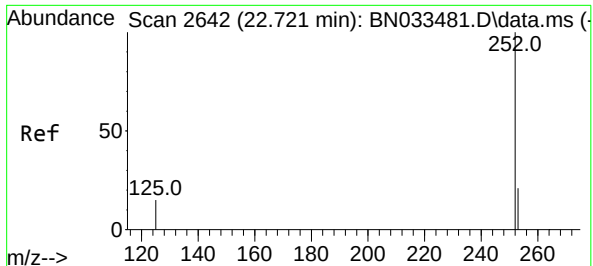
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#37
Benzo(b)fluoranthene
Concen: 10.758 ng
RT: 22.660 min Scan# 2621
Delta R.T. 0.000 min
Lab File: BN033575.D
Acq: 23 Aug 2024 05:18

Tgt Ion:252 Resp: 851426
Ion Ratio Lower Upper
252 100
253 22.5 19.8 29.8
125 12.3 13.9 20.9#





#38

Benzo(k)fluoranthene

Concen: 3.706 ng m

RT: 22.698 min Scan# 20

Delta R.T. -0.006 min

Lab File: BN033575.D

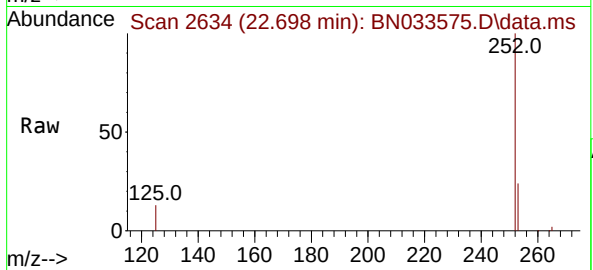
Acq: 23 Aug 2024 05:18

Instrument :

BNA_N

ClientSampleId :

S-903-J-SO-0.5-1.0-081924



Tgt Ion:252 Resp: 288714

Ion Ratio Lower Upper

252 100

253 23.5 19.8 29.8

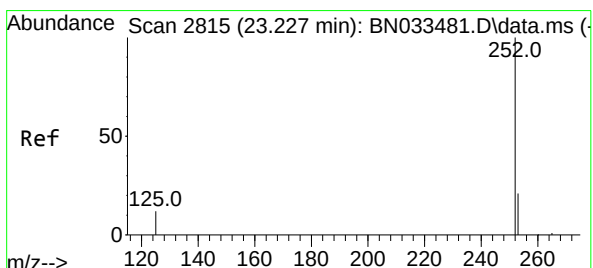
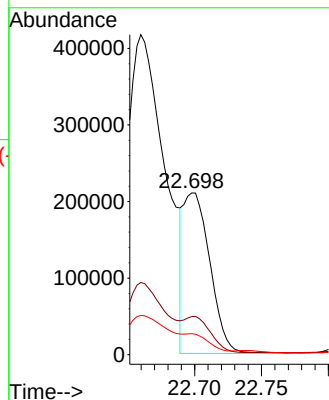
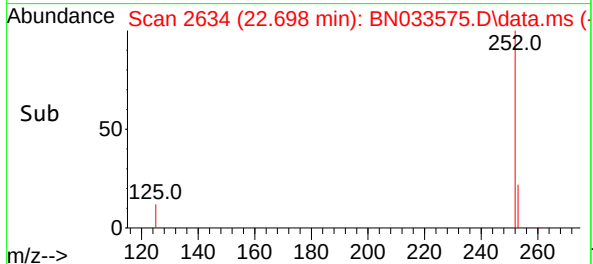
125 12.9 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#39

Benzo(a)pyrene

Concen: 8.767 ng m

RT: 23.206 min Scan# 2808

Delta R.T. -0.003 min

Lab File: BN033575.D

Acq: 23 Aug 2024 05:18

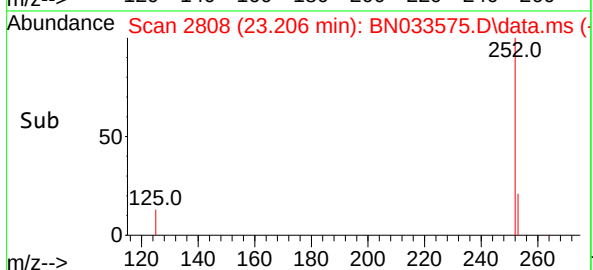
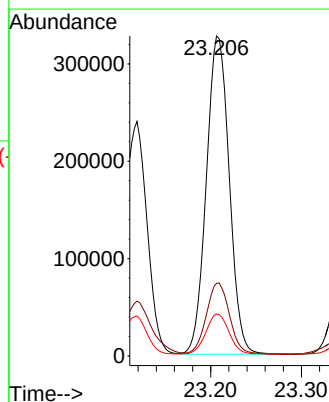
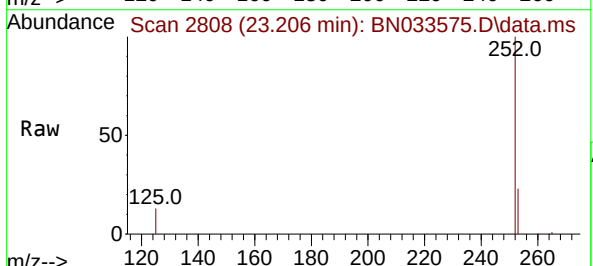
Tgt Ion:252 Resp: 574088

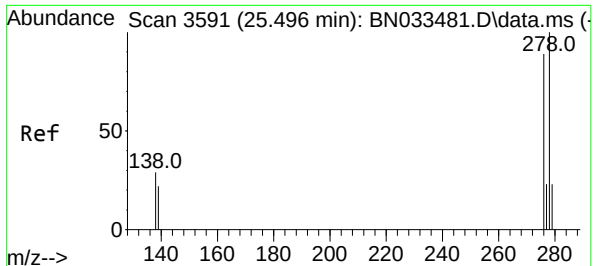
Ion Ratio Lower Upper

252 100

253 22.7 21.5 32.3

125 13.1 17.0 25.4#





#40

Dibenzo(a,h)anthracene

Concen: 1.335 ng

RT: 25.458 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN033575.D

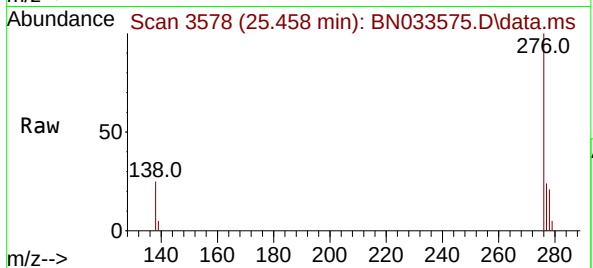
Acq: 23 Aug 2024 05:18

Instrument :

BNA_N

ClientSampleId :

S-903-J-SO-0.5-1.0-081924



Tgt Ion:278 Resp: 93909

Ion Ratio Lower Upper

278 100

139 22.3 19.1 28.7

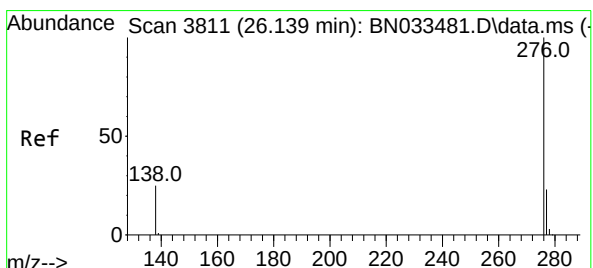
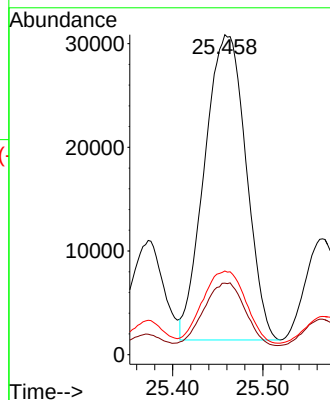
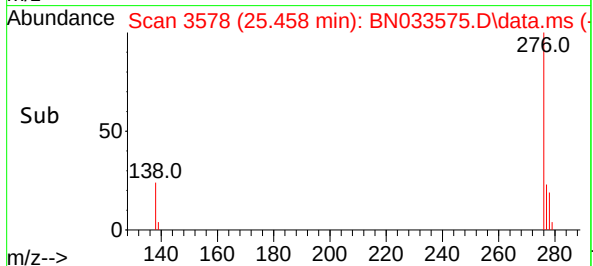
279 26.2 21.0 31.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#41

Benzo(g,h,i)perylene

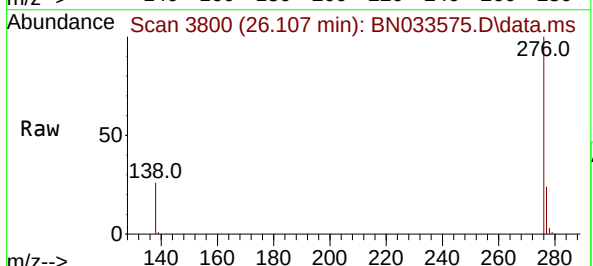
Concen: 5.450 ng

RT: 26.107 min Scan# 3800

Delta R.T. 0.003 min

Lab File: BN033575.D

Acq: 23 Aug 2024 05:18



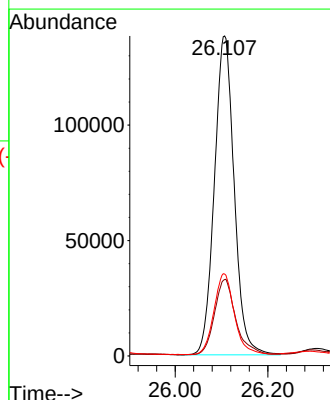
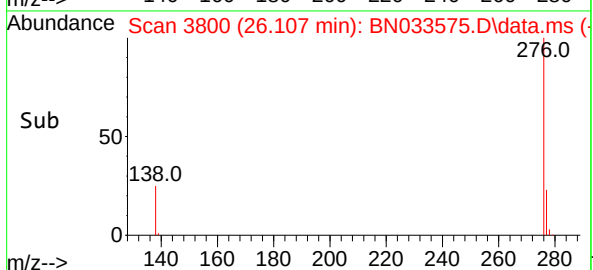
Tgt Ion:276 Resp: 410026

Ion Ratio Lower Upper

276 100

277 23.9 19.7 29.5

138 25.6 21.8 32.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0.5-1.0-081924DL	SDG No.:	P3671
Lab Sample ID:	P3671-12DL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	85.8
Sample Wt/Vol:	30.08 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033610.D	10	08/21/24 09:38	08/24/24 04:08	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	8.00	UD	8.00	38.4	ug/Kg
91-57-6	2-Methylnaphthalene	9.30	UD	9.30	38.4	ug/Kg
208-96-8	Acenaphthylene	7.30	UD	7.30	38.4	ug/Kg
83-32-9	Acenaphthene	28.3	JD	6.40	38.4	ug/Kg
86-73-7	Fluorene	27.5	JD	7.00	38.4	ug/Kg
85-01-8	Phenanthrene	450	D	7.30	38.4	ug/Kg
120-12-7	Anthracene	79.8	D	9.20	38.4	ug/Kg
206-44-0	Fluoranthene	850	D	7.80	38.4	ug/Kg
129-00-0	Pyrene	570	D	11.0	38.4	ug/Kg
56-55-3	Benzo(a)anthracene	340	D	8.80	38.4	ug/Kg
218-01-9	Chrysene	370	D	10.0	38.4	ug/Kg
205-99-2	Benzo(b)fluoranthene	460	D	13.8	38.4	ug/Kg
207-08-9	Benzo(k)fluoranthene	150	D	11.4	38.4	ug/Kg
50-32-8	Benzo(a)pyrene	370	D	19.3	38.4	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	200	D	14.6	38.4	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	58.1	D	13.6	38.4	ug/Kg
191-24-2	Benzo(g,h,i)perylene	230	D	13.3	38.4	ug/Kg
123-91-1	1,4-Dioxane	25.8	UD	25.8	76.7	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.17		30 (17) - 150 (161)	43%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.17		30 (23) - 150 (138)	43%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.21		30 (33) - 130 (121)	52%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.17		30 (32) - 130 (121)	43%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.15		30 (21) - 130 (130)	38%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7890	7.545			
1146-65-2	Naphthalene-d8	20900	10.304			
15067-26-2	Acenaphthene-d10	10000	14.178			
1517-22-2	Phenanthrene-d10	19300	16.929			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0.5-1.0-081924DL	SDG No.:	P3671
Lab Sample ID:	P3671-12DL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	85.8
Sample Wt/Vol:	30.08 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033610.D	10	08/21/24 09:38	08/24/24 04:08	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	16100	21.139			
1520-96-3	Perylene-d12	17600	23.3			

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\BN082324\
 Data File : BN033610.D
 Acq On : 24 Aug 2024 04:08
 Operator : MA/JU
 Sample : P3671-12DL 10X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-903-J-SO-0.5-1.0-081924DL

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 08/26/2024
 Supervised By :mohammad ahmed 08/29/2024

Quant Time: Aug 24 04:40:54 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 00:22:18 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	7890	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	20855	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	10027	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	19250	0.400	ng	0.00
29) Chrysene-d12	21.139	240	16100	0.400	ng	0.00
35) Perylene-d12	23.300	264	17643	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	408	0.016	ng	0.00
5) Phenol-d6	6.736	99	488	0.016	ng	0.00
8) Nitrobenzene-d5	8.681	82	360	0.021	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	518	0.017	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	109	0.020	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	699	0.017	ng	0.00
27) Fluoranthene-d10	18.970	212	772	0.017	ng	0.00
31) Terphenyl-d14	19.583	244	559	0.015	ng	0.00
Target Compounds						
17) Acenaphthene	14.242	154	2253	0.073	ng	99
18) Fluorene	15.236	166	2782	0.071	ng	98
25) Phenanthrene	16.967	178	62320	1.164	ng	100
26) Anthracene	17.066	178	9763	0.206	ng	# 96
28) Fluoranthene	19.003	202	130414	2.204	ng	100
30) Pyrene	19.365	202	105544	1.469	ng	# 94
32) Benzo(a)anthracene	21.121	228	51691	0.888	ng	98
33) Chrysene	21.175	228	55758	0.964	ng	97
34) Bis(2-ethylhexyl)phtha...	21.077	149	6941m	0.188	ng	
36) Indeno(1,2,3-cd)pyrene	25.446	276	37727	0.515	ng	94
37) Benzo(b)fluoranthene	22.660	252	77954	1.183	ng	98
38) Benzo(k)fluoranthene	22.698	252	25448m	0.392	ng	
39) Benzo(a)pyrene	23.206	252	51390	0.943	ng	94
40) Dibenzo(a,h)anthracene	25.458	278	8785	0.150	ng	# 79
41) Benzo(g,h,i)perylene	26.104	276	36974	0.590	ng	99

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

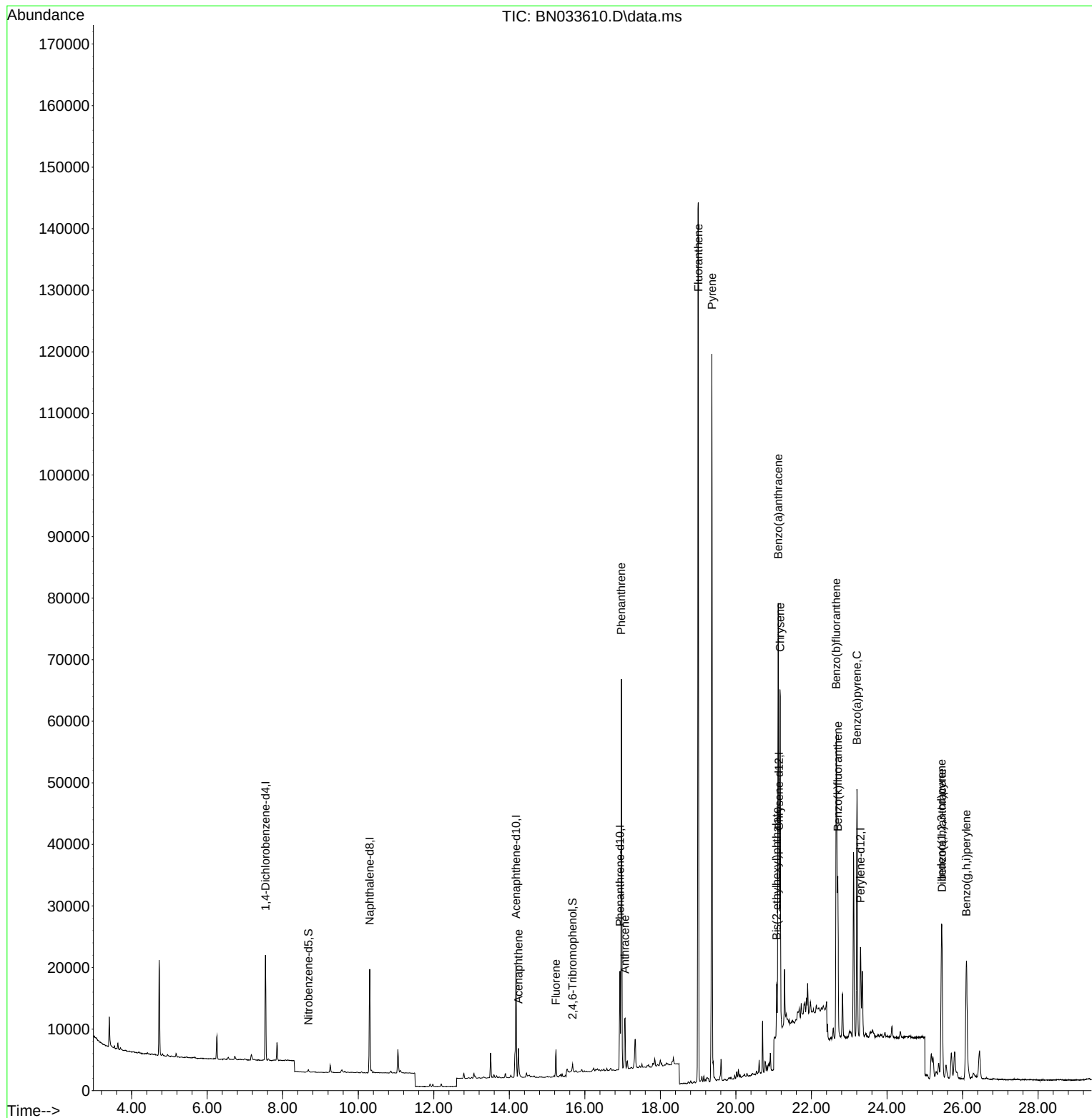
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033610.D
Acq On : 24 Aug 2024 04:08
Operator : MA/JU
Sample : P3671-12DL 10X
Misc :
ALS Vial : 29 Sample Multiplier: 1

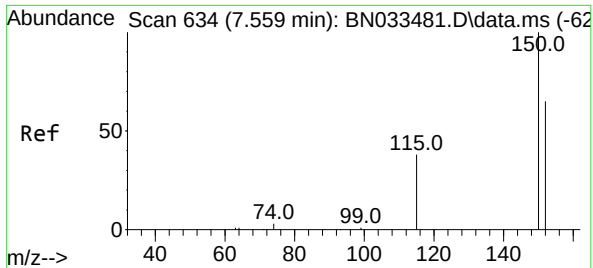
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL

Quant Time: Aug 24 04:40:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

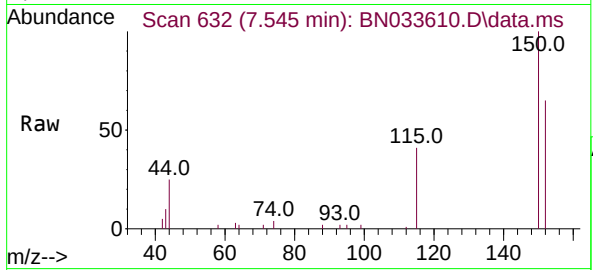
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

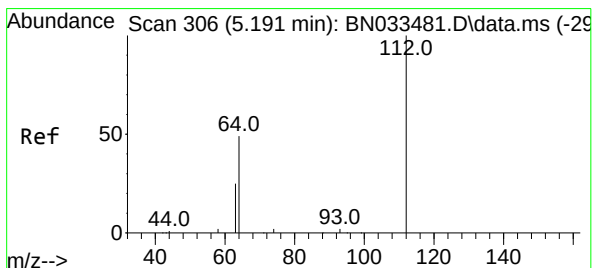
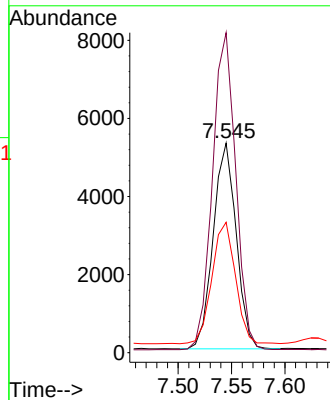
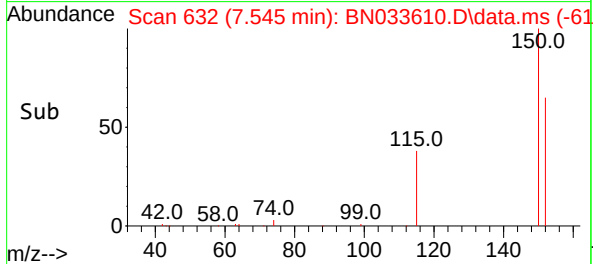
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:152 Resp: 7890
Ion Ratio Lower Upper
152 100
150 152.7 122.2 183.2
115 62.3 47.2 70.8

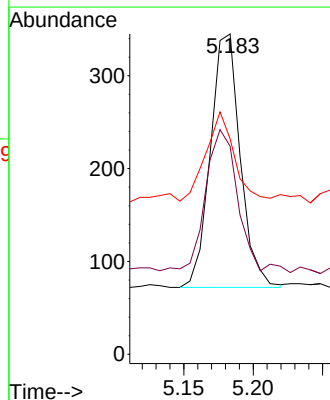
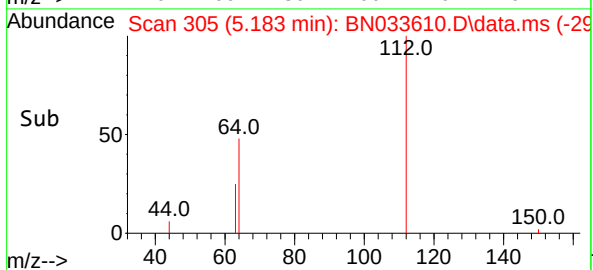
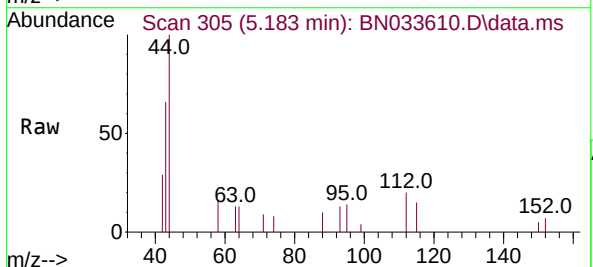
Manual Integrations
APPROVED

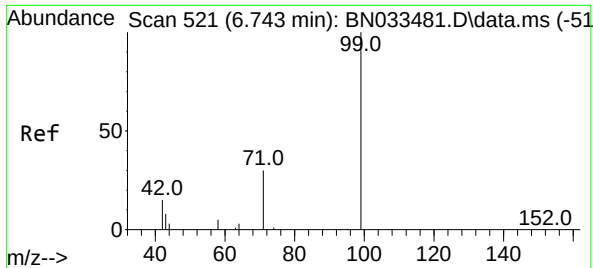
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#4
2-Fluorophenol
Concen: 0.016 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

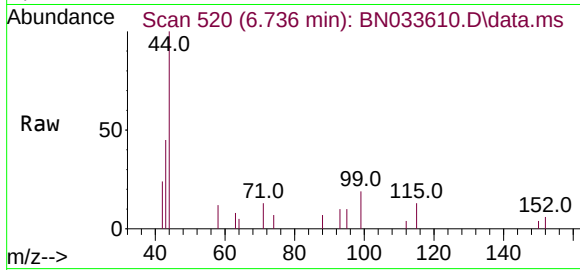
Tgt Ion:112 Resp: 408
Ion Ratio Lower Upper
112 100
64 61.8 47.1 70.7
63 32.8 24.9 37.3





#5
Phenol-d6
Concen: 0.016 ng
RT: 6.736 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

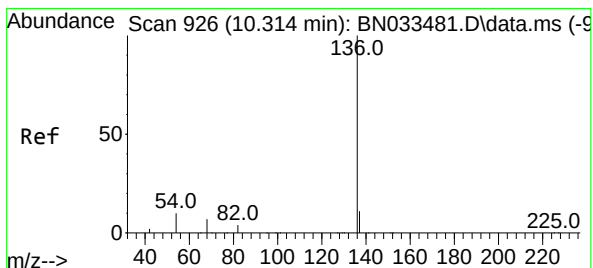
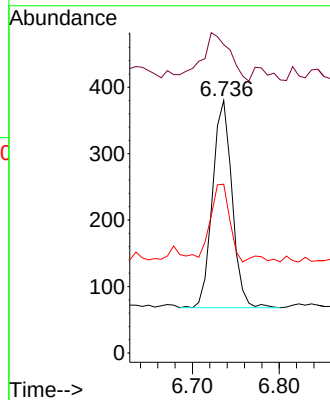
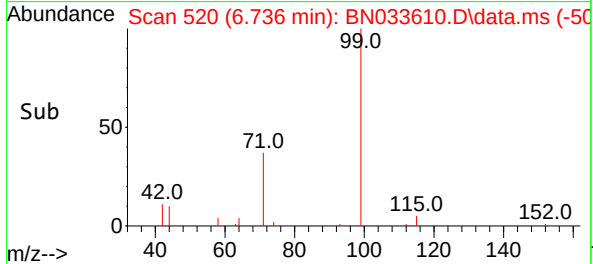
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion: 99 Resp: 488
Ion Ratio Lower Upper
99 100
42 33.0 16.6 24.8
71 37.9 26.2 39.4

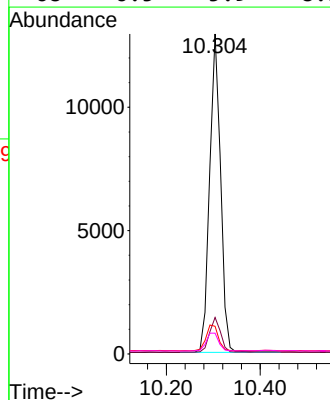
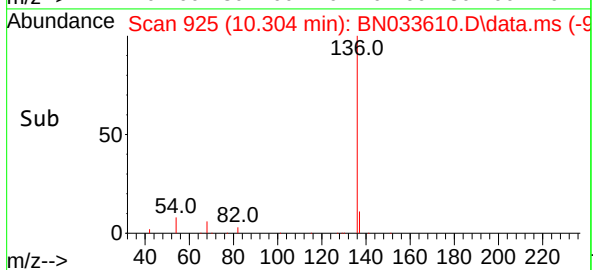
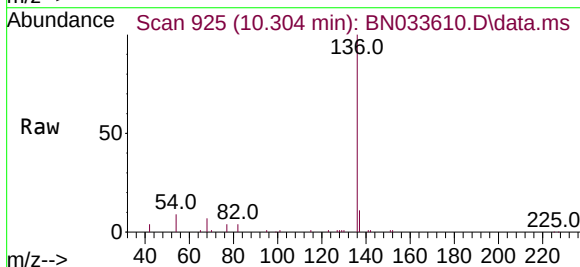
Manual Integrations
APPROVED

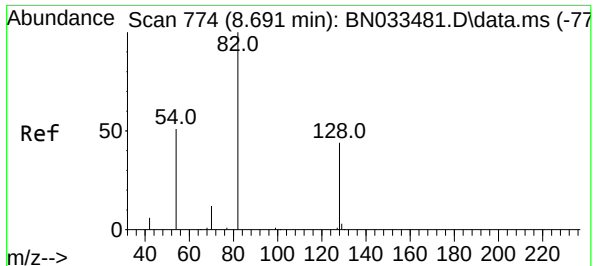
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

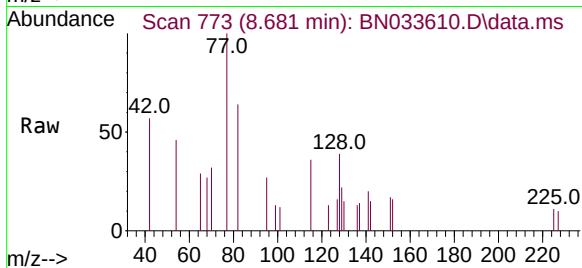
Tgt Ion:136 Resp: 20855
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 8.7 8.3 12.5
68 6.5 5.9 8.9





#8
Nitrobenzene-d5
Concen: 0.021 ng
RT: 8.681 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

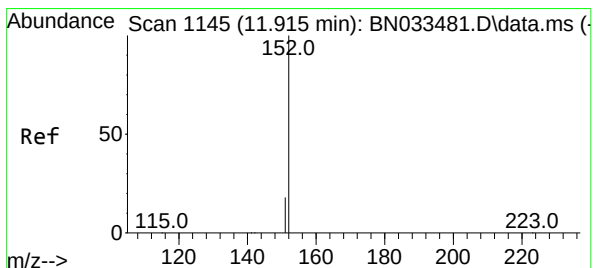
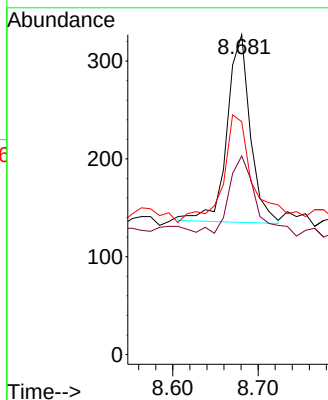
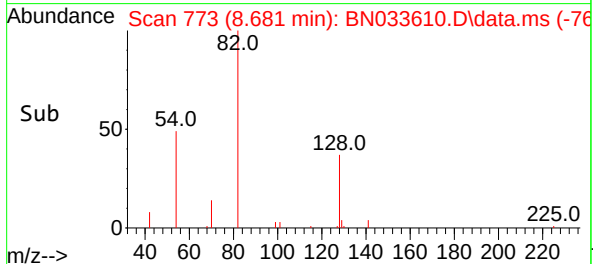
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion: 82 Resp: 360
Ion Ratio Lower Upper
82 100
128 62.1 36.0 54.0
54 72.8 42.0 63.0

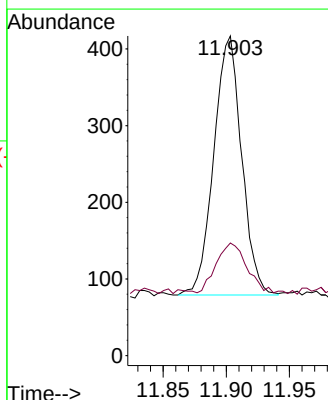
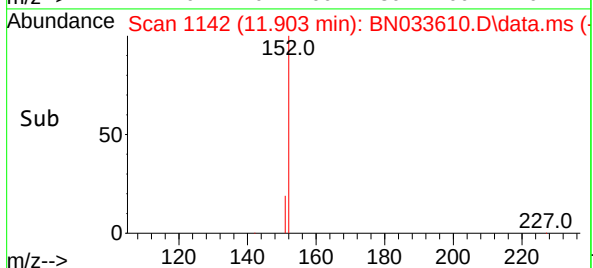
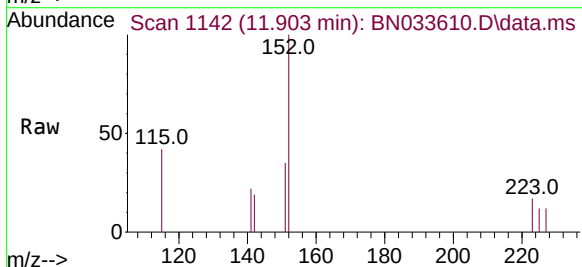
Manual Integrations
APPROVED

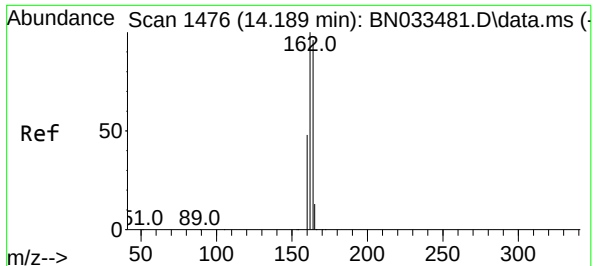
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#11
2-Methylnaphthalene-d10
Concen: 0.017 ng
RT: 11.903 min Scan# 1142
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

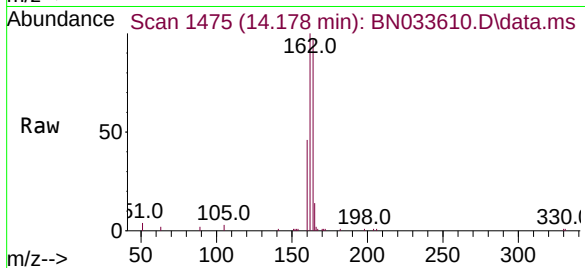
Tgt Ion:152 Resp: 518
Ion Ratio Lower Upper
152 100
151 21.8 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1475
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

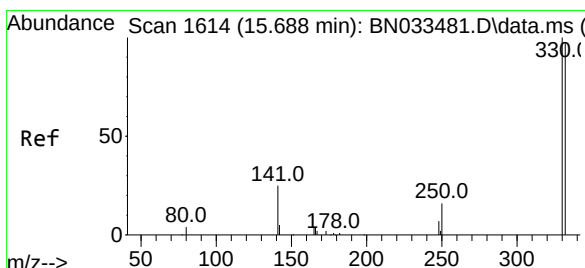
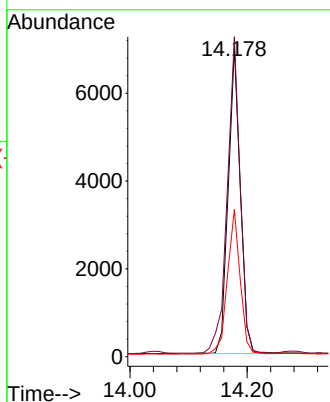
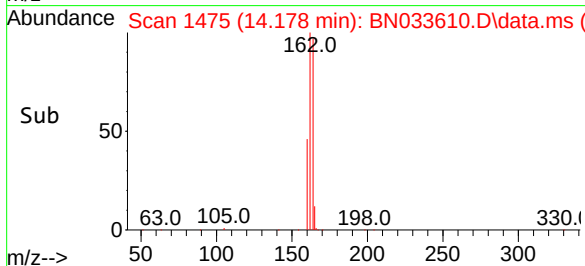
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:164 Resp: 1002
Ion Ratio Lower Upper
164 100
162 103.5 83.5 125.3
160 47.6 40.2 60.4

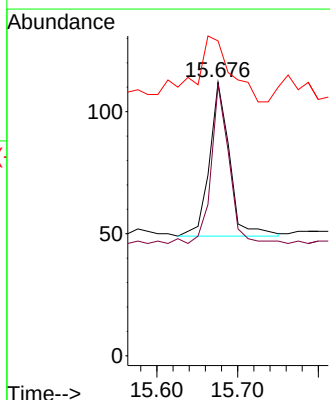
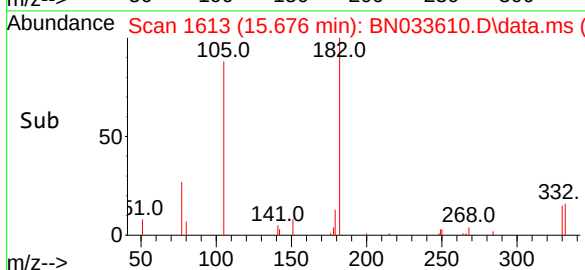
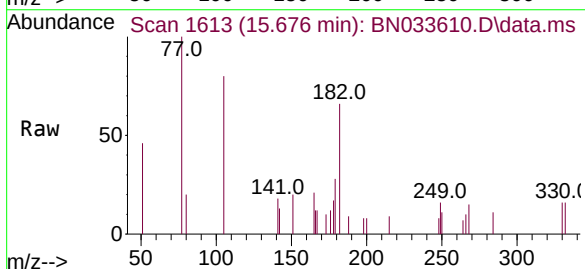
Manual Integrations
APPROVED

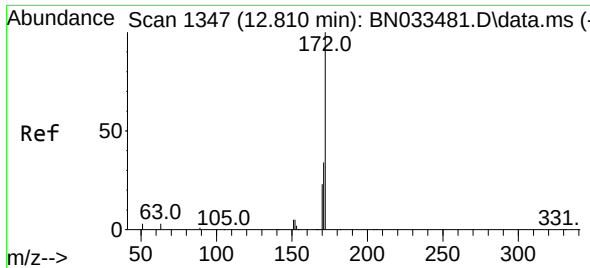
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#14
2,4,6-Tribromophenol
Concen: 0.020 ng
RT: 15.676 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

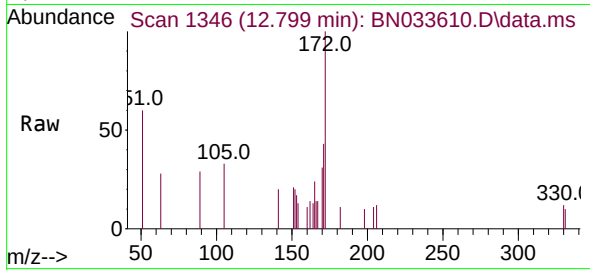
Tgt Ion:330 Resp: 109
Ion Ratio Lower Upper
330 100
332 92.7 77.5 116.3
141 77.1 33.9 50.9#





#15
2-Fluorobiphenyl
Concen: 0.017 ng
RT: 12.799 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

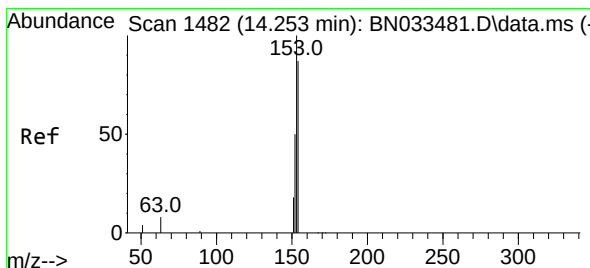
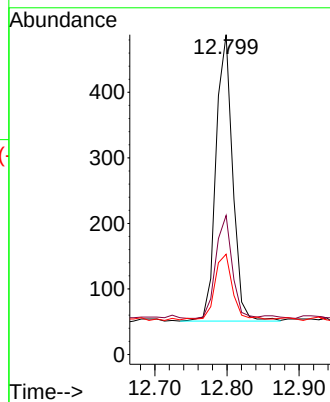
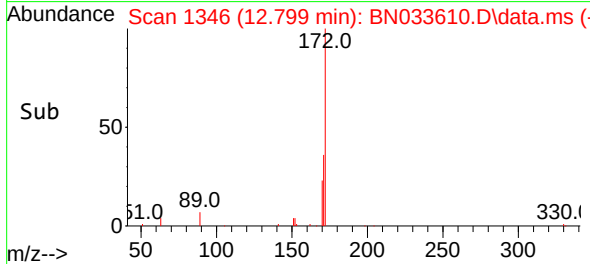
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:172 Resp: 699
Ion Ratio Lower Upper
172 100
171 43.4 27.7 41.5
170 31.4 18.3 27.5

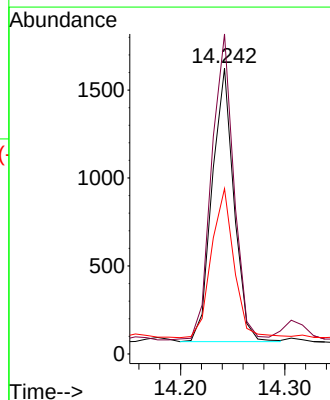
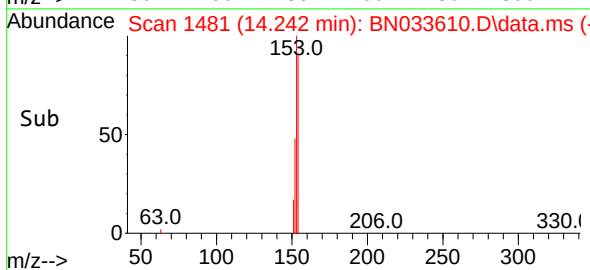
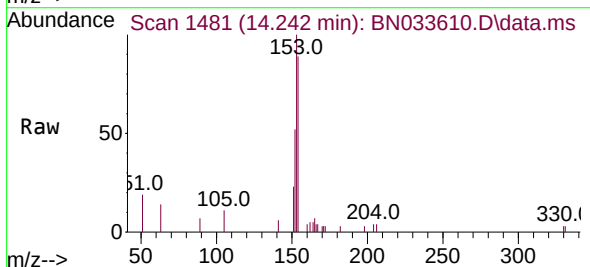
Manual Integrations
APPROVED

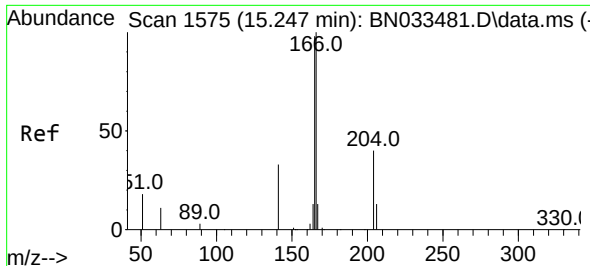
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#17
Acenaphthene
Concen: 0.073 ng
RT: 14.242 min Scan# 1481
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

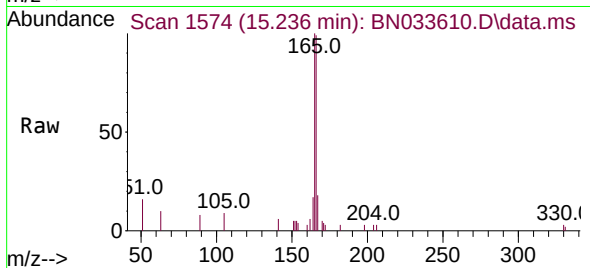
Tgt Ion:154 Resp: 2253
Ion Ratio Lower Upper
154 100
153 113.5 89.0 133.6
152 56.6 45.2 67.8





#18
Fluorene
Concen: 0.071 ng
RT: 15.236 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

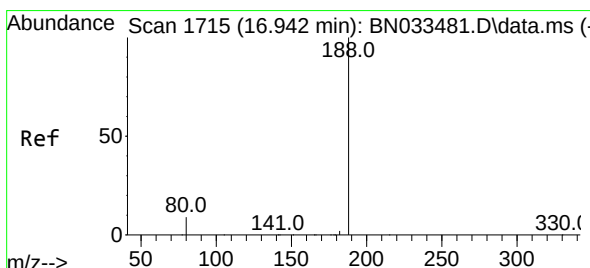
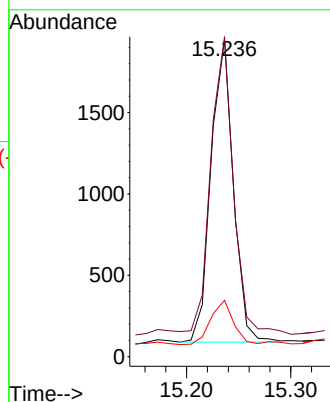
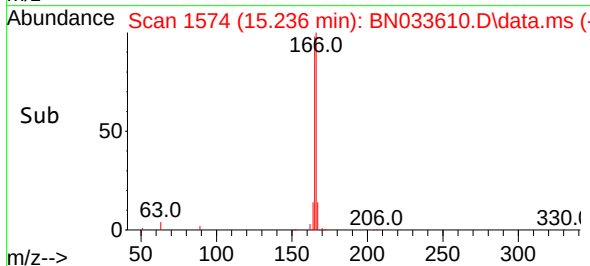
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:166 Resp: 278
Ion Ratio Lower Upper
166 100
165 99.1 78.2 117.4
167 14.8 10.6 16.0

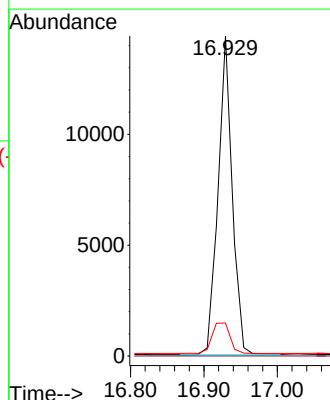
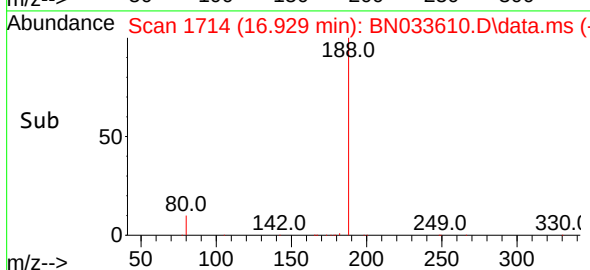
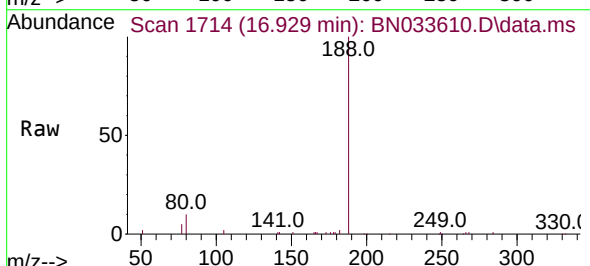
Manual Integrations
APPROVED

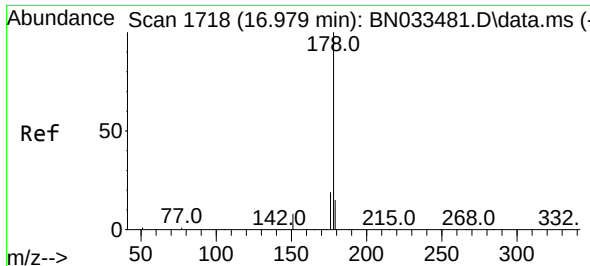
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

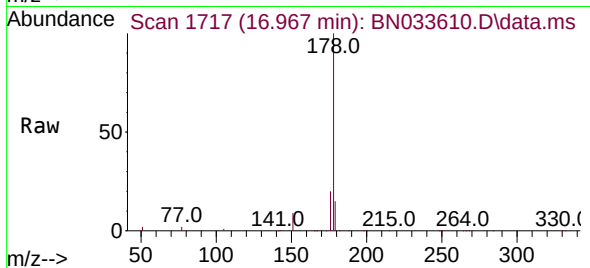
Tgt Ion:188 Resp: 19250
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.3 7.8 11.8





#25
Phenanthrene
Concen: 1.164 ng
RT: 16.967 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

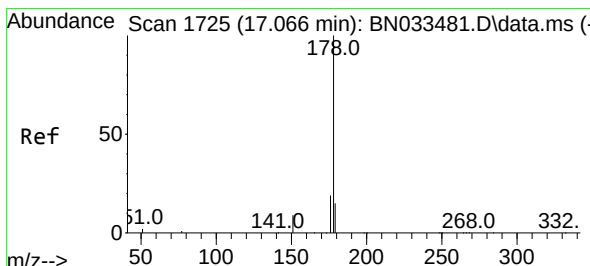
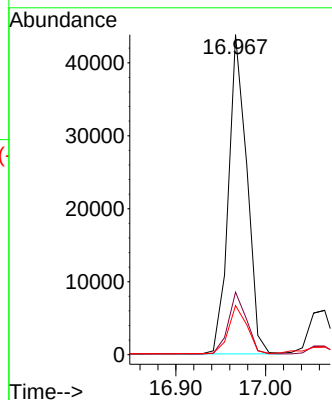
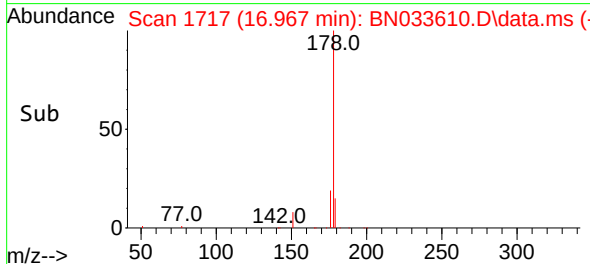
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:178 Resp: 62320
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.1 12.3 18.5

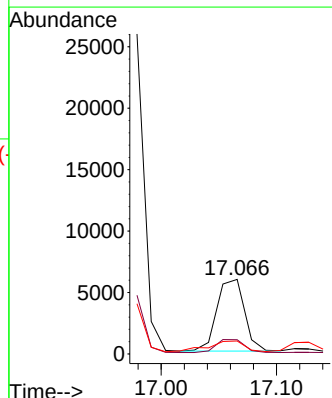
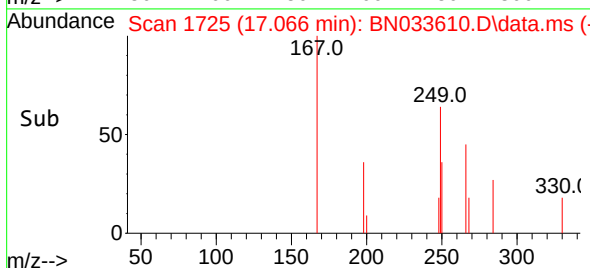
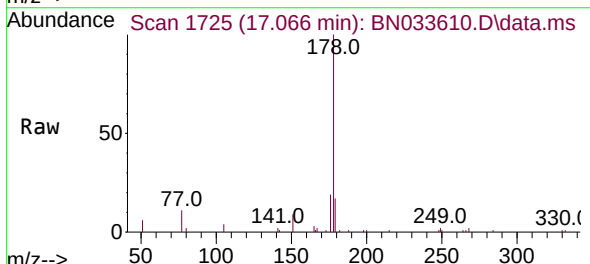
Manual Integrations
APPROVED

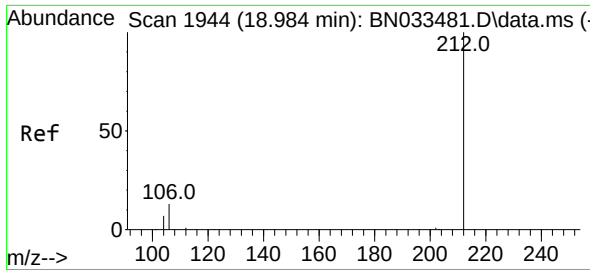
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#26
Anthracene
Concen: 0.206 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

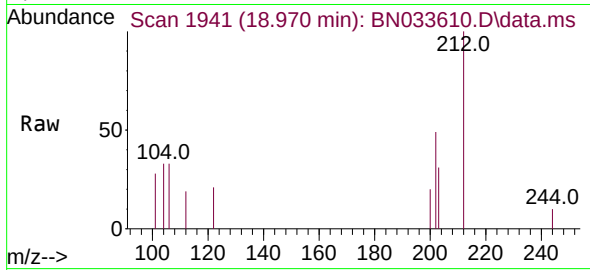
Tgt Ion:178 Resp: 9763
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 19.3 12.4 18.6#





#27
Fluoranthene-d10
Concen: 0.017 ng
RT: 18.970 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

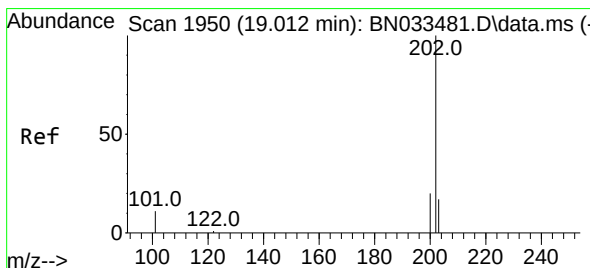
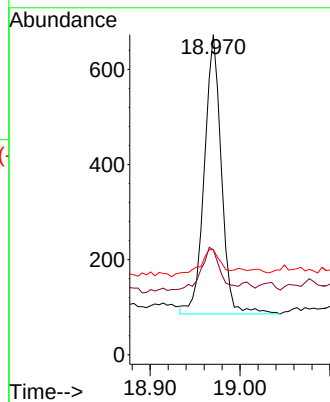
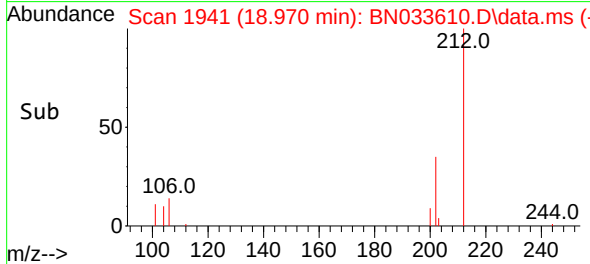
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:212 Resp: 772
Ion Ratio Lower Upper
212 100
106 18.3 12.3 18.5
104 12.4 7.0 10.4

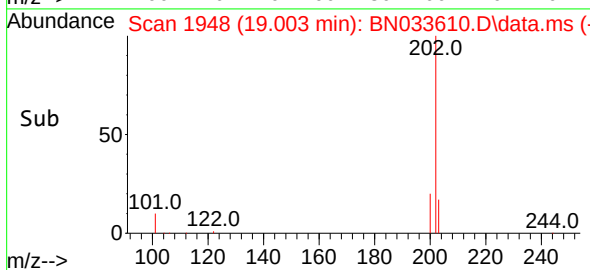
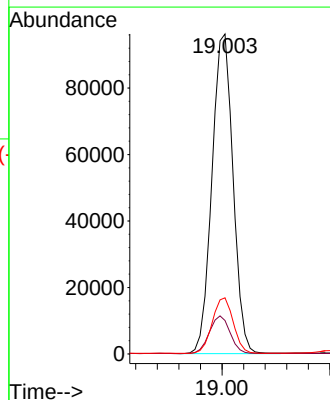
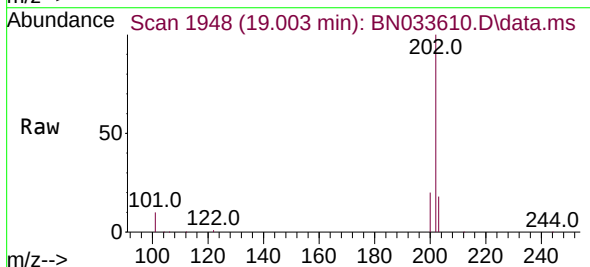
Manual Integrations
APPROVED

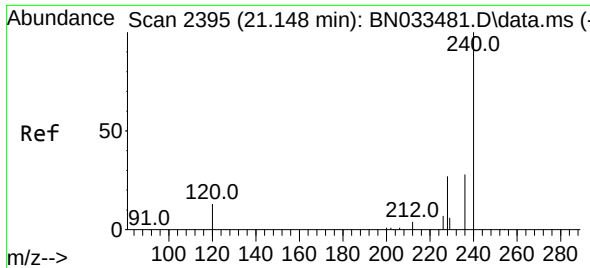
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#28
Fluoranthene
Concen: 2.204 ng
RT: 19.003 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

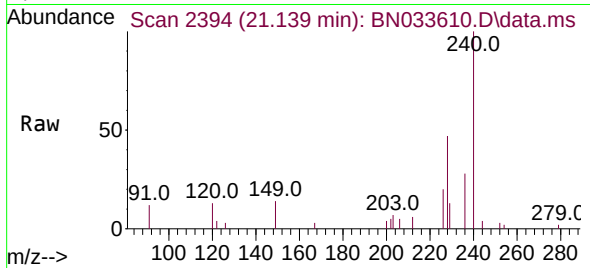
Tgt Ion:202 Resp: 130414
Ion Ratio Lower Upper
202 100
101 11.6 9.5 14.3
203 17.3 13.8 20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

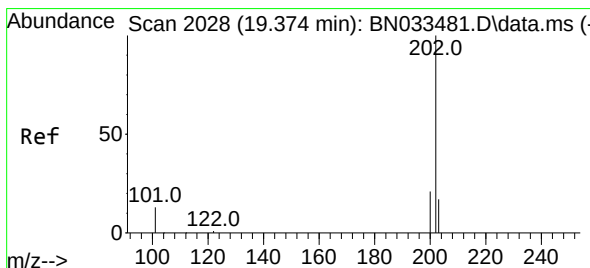
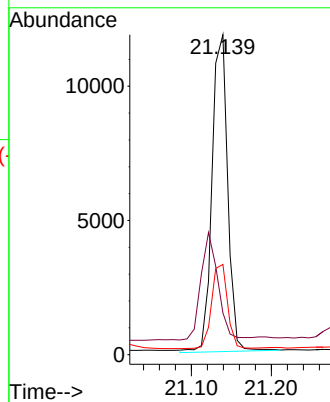
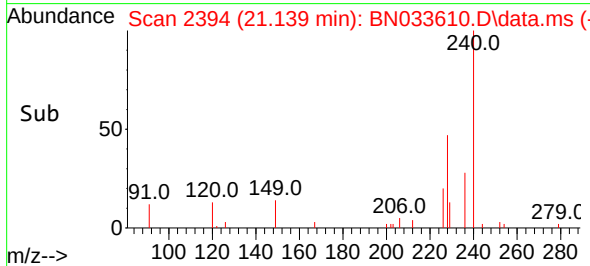
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:240 Resp: 16100
Ion Ratio Lower Upper
240 100
120 13.0 12.4 18.6
236 28.2 23.0 34.6

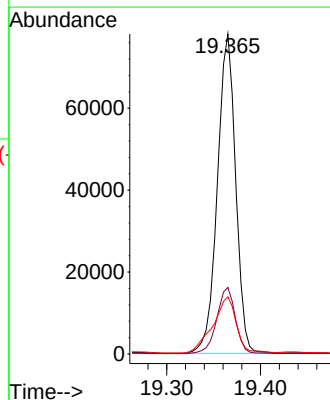
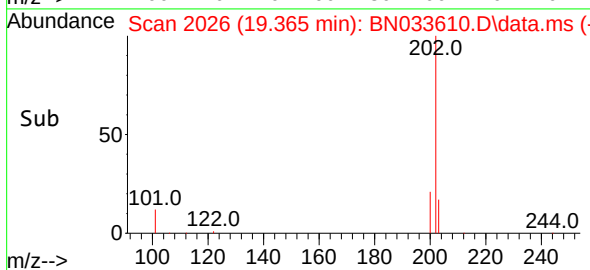
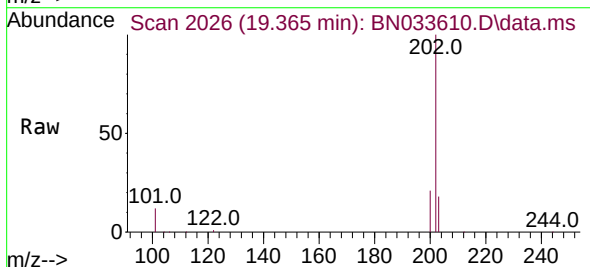
Manual Integrations
APPROVED

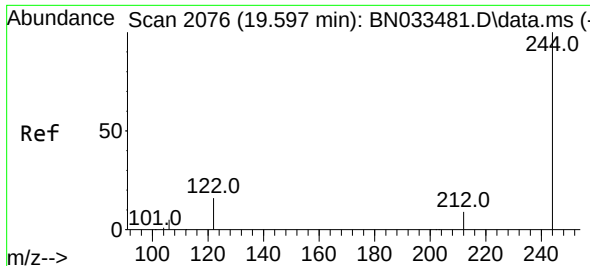
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#30
Pyrene
Concen: 1.469 ng
RT: 19.365 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

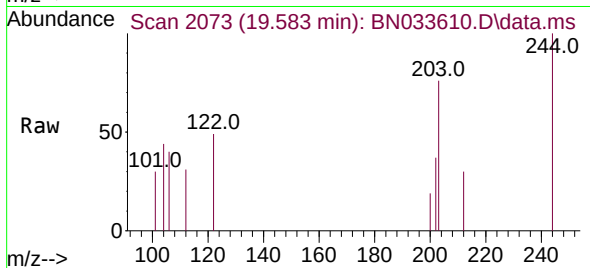
Tgt Ion:202 Resp: 105544
Ion Ratio Lower Upper
202 100
200 21.1 16.6 24.8
203 22.6 14.2 21.4#





#31
Terphenyl-d14
Concen: 0.015 ng
RT: 19.583 min Scan# 2073
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

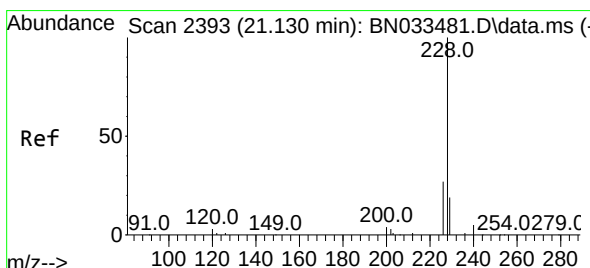
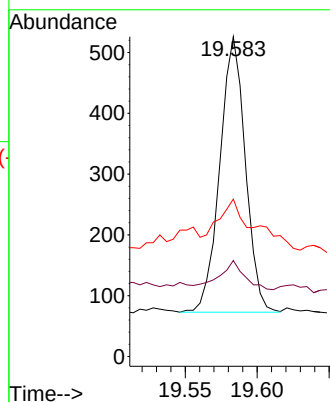
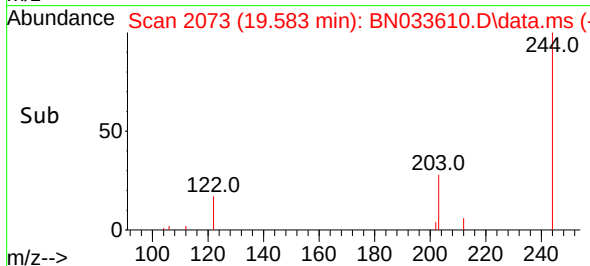
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:244 Resp: 559
Ion Ratio Lower Upper
244 100
212 30.0 7.8 11.6
122 49.2 13.3 19.9

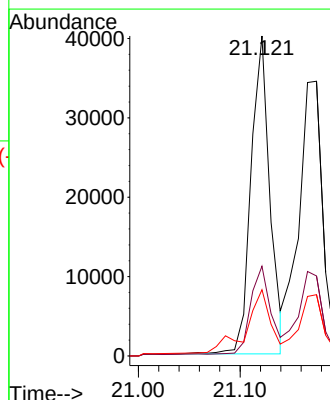
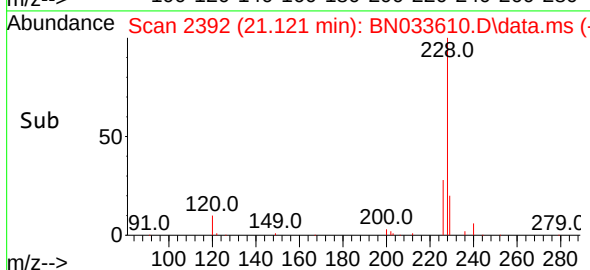
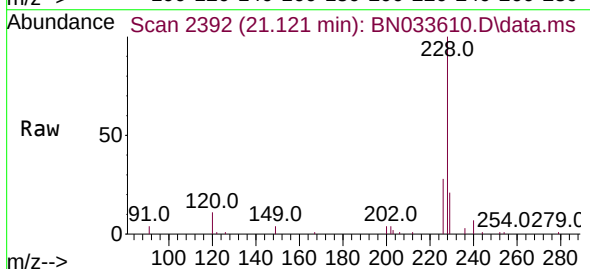
Manual Integrations
APPROVED

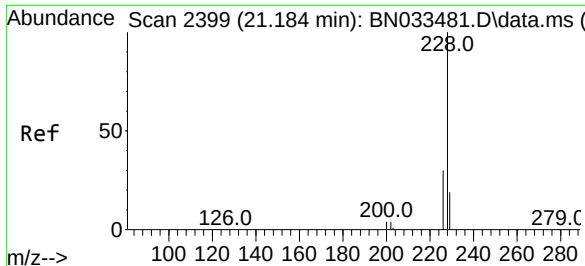
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#32
Benzo(a)anthracene
Concen: 0.888 ng
RT: 21.121 min Scan# 2392
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

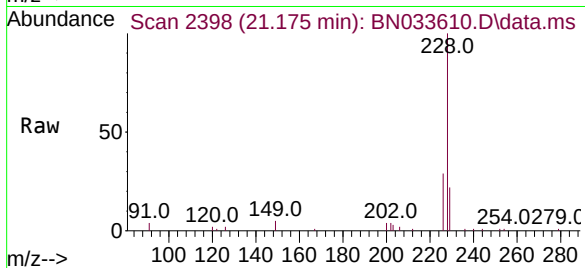
Tgt Ion:228 Resp: 51691
Ion Ratio Lower Upper
228 100
226 28.0 21.8 32.6
229 20.7 15.8 23.6





#33
Chrysene
Concen: 0.964 ng
RT: 21.175 min Scan# 21175
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

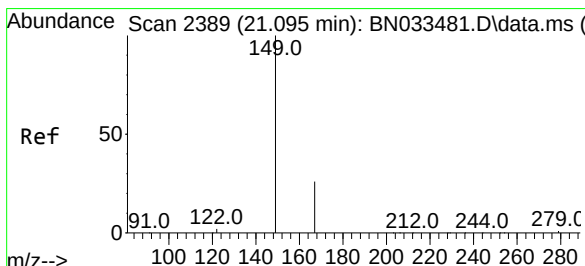
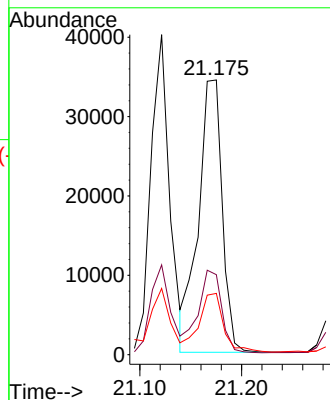
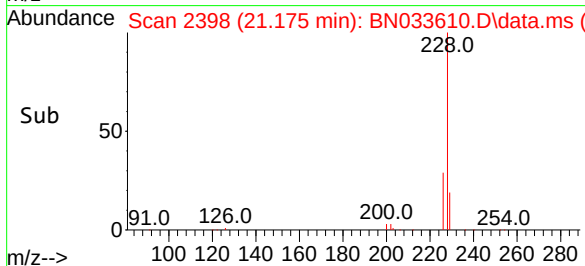
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:228 Resp: 55758
Ion Ratio Lower Upper
228 100
226 29.1 23.8 35.8
229 22.3 15.6 23.4

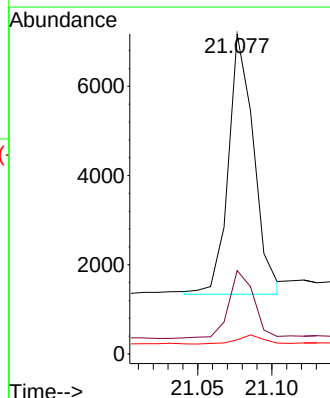
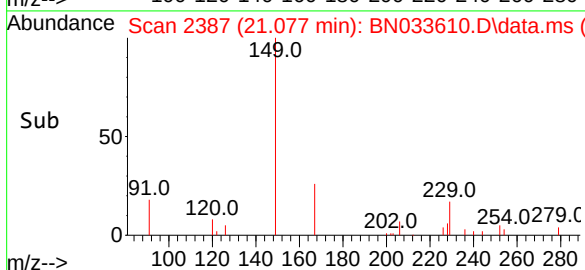
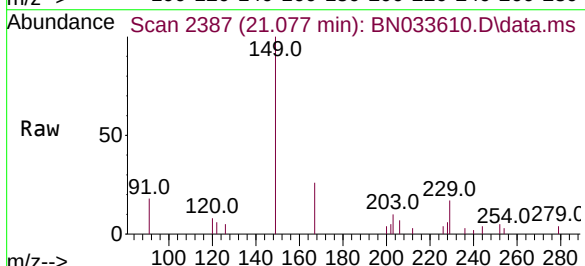
Manual Integrations
APPROVED

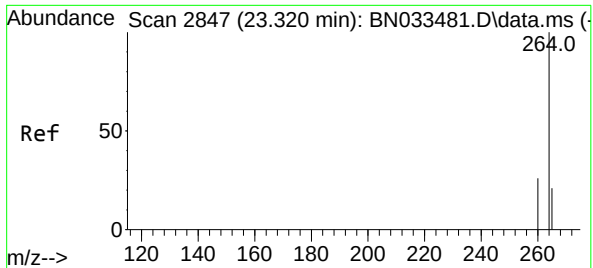
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.188 ng m
RT: 21.077 min Scan# 2387
Delta R.T. -0.009 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

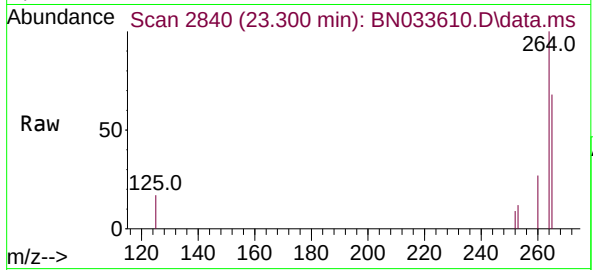
Tgt Ion:149 Resp: 6941
Ion Ratio Lower Upper
149 100
167 33.5 21.5 32.3#
279 5.5 2.2 3.2#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.300 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

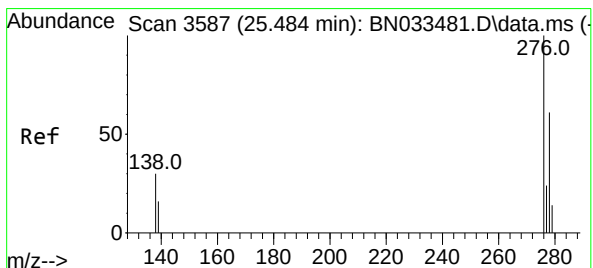
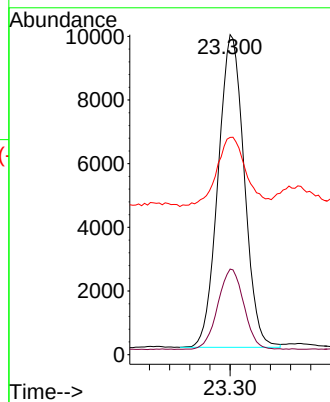
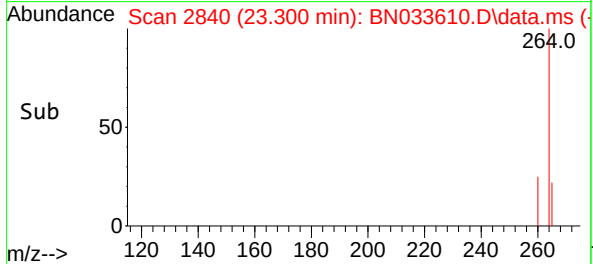
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:264 Resp: 1764
Ion Ratio Lower Upper
264 100
260 26.8 20.8 31.2
265 67.9 52.2 78.2

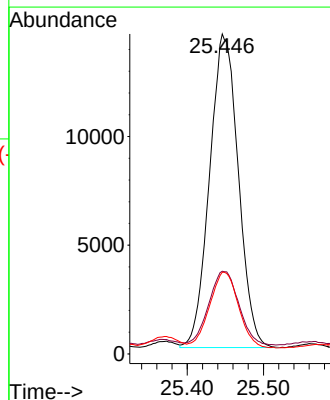
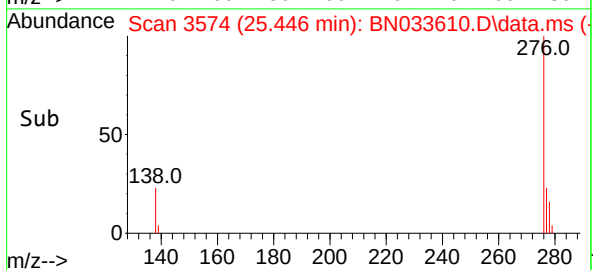
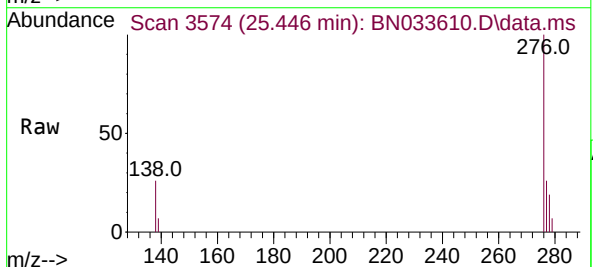
Manual Integrations
APPROVED

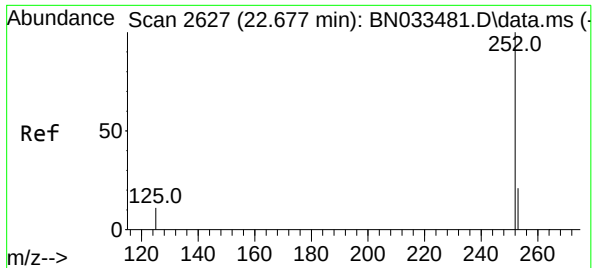
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.515 ng
RT: 25.446 min Scan# 3574
Delta R.T. -0.003 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

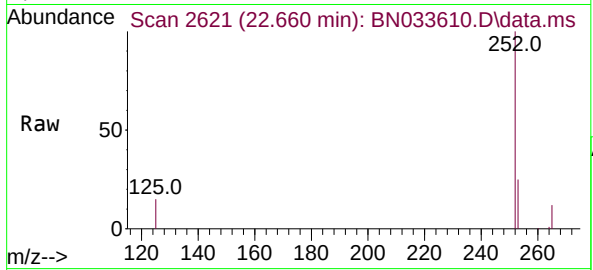
Tgt Ion:276 Resp: 37727
Ion Ratio Lower Upper
276 100
138 24.6 24.4 36.6
277 24.3 19.8 29.6





#37
Benzo(b)fluoranthene
Concen: 1.183 ng
RT: 22.660 min Scan# 2621
Delta R.T. -0.000 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

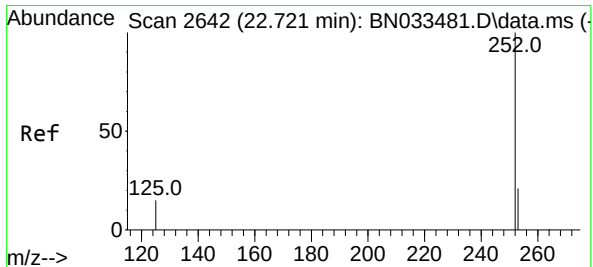
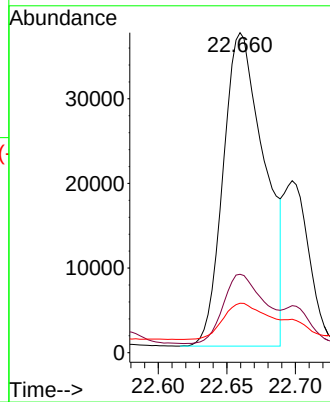
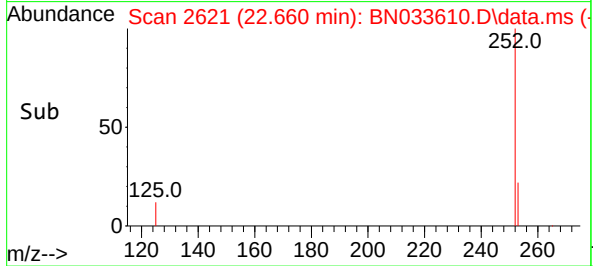
Instrument :
BNA_N
ClientSampleId :
S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:252 Resp: 77954
Ion Ratio Lower Upper
252 100
253 24.5 19.8 29.8
125 15.4 13.9 20.9

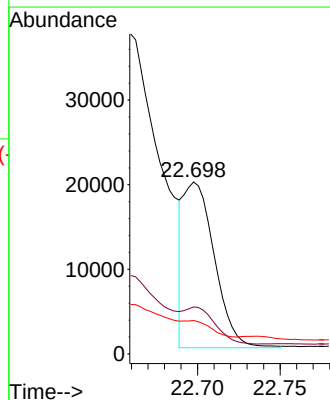
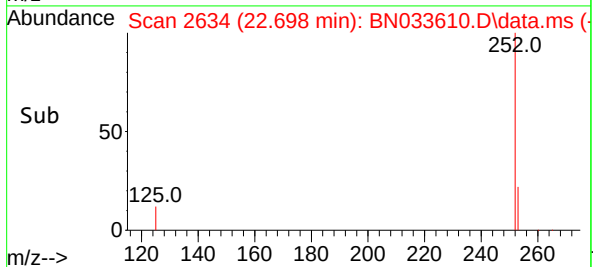
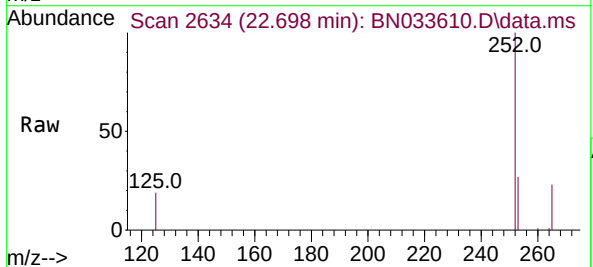
Manual Integrations
APPROVED

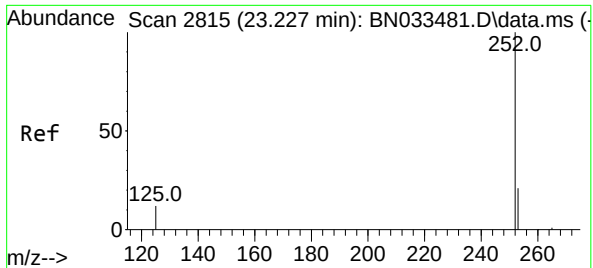
Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024



#38
Benzo(k)fluoranthene
Concen: 0.392 ng m
RT: 22.698 min Scan# 2634
Delta R.T. -0.006 min
Lab File: BN033610.D
Acq: 24 Aug 2024 04:08

Tgt Ion:252 Resp: 25448
Ion Ratio Lower Upper
252 100
253 27.3 19.8 29.8
125 19.4 15.8 23.8





#39

Benzo(a)pyrene

Concen: 0.943 ng

RT: 23.206 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033610.D

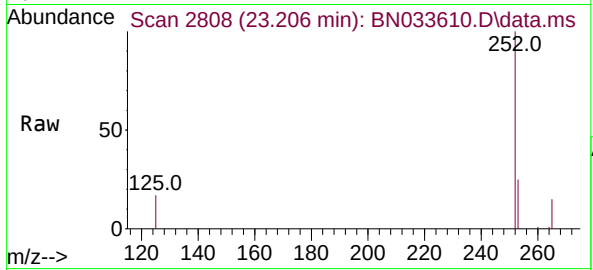
Acq: 24 Aug 2024 04:08

Instrument :

BNA_N

ClientSampleId :

S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:252 Resp: 51390

Ion Ratio Lower Upper

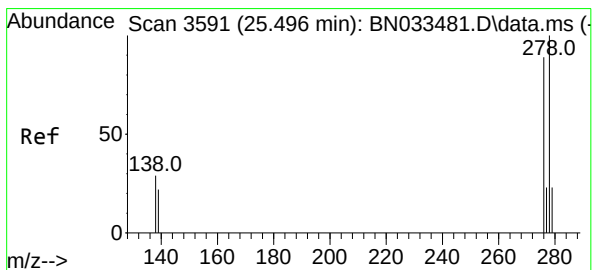
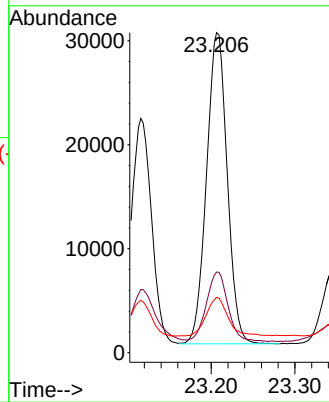
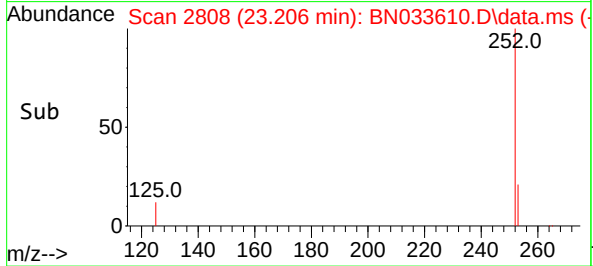
252 100

253 25.2 21.5 32.3

125 17.3 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/26/2024
Supervised By :mohammad ahmed 08/29/2024

#40

Dibenzo(a,h)anthracene

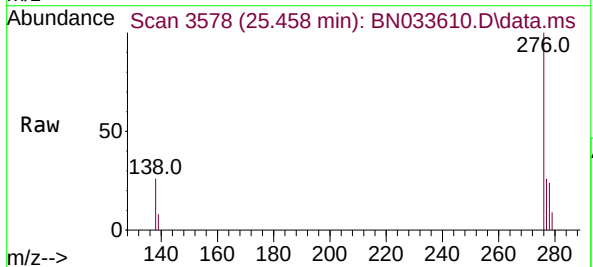
Concen: 0.150 ng

RT: 25.458 min Scan# 3578

Delta R.T. -0.012 min

Lab File: BN033610.D

Acq: 24 Aug 2024 04:08



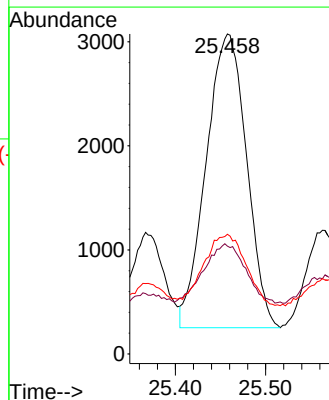
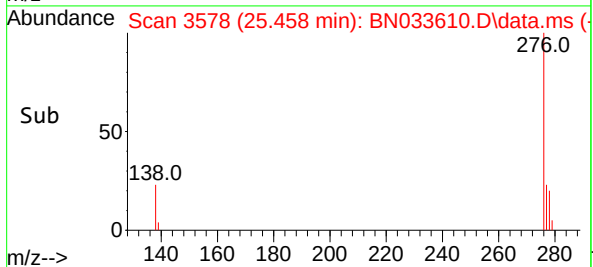
Tgt Ion:278 Resp: 8785

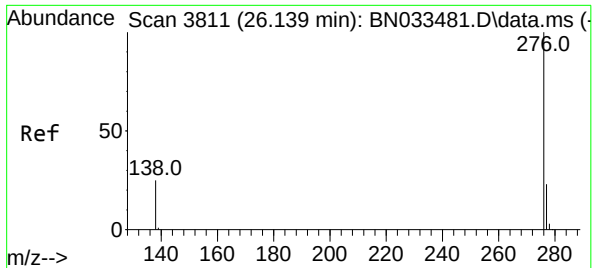
Ion Ratio Lower Upper

278 100

139 33.7 19.1 28.7#

279 37.4 21.0 31.4#





#41

Benzo(g,h,i)perylene

Concen: 0.590 ng

RT: 26.104 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN033610.D

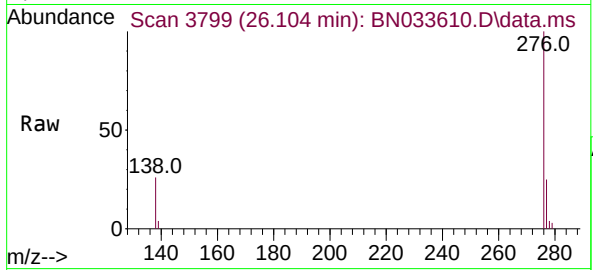
Acq: 24 Aug 2024 04:08

Instrument :

BNA_N

ClientSampleId :

S-903-J-SO-0.5-1.0-081924DL



Tgt Ion:276 Resp: 36974

Ion Ratio Lower Upper

276 100

277 25.0 19.7 29.5

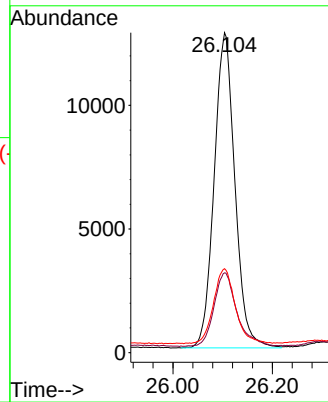
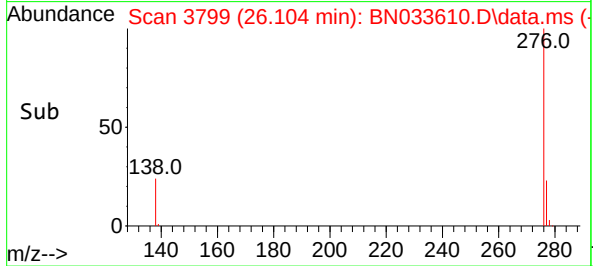
138 26.3 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/26/2024

Supervised By :mohammad ahmed 08/29/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-13	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	30.6
Sample Wt/Vol:	30.07 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033573.D	1	08/21/24 09:38	08/23/24 04:06	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	13.2		2.20	10.8	ug/Kg
91-57-6	2-Methylnaphthalene	12.7		2.60	10.8	ug/Kg
208-96-8	Acenaphthylene	11.3		2.10	10.8	ug/Kg
83-32-9	Acenaphthene	5.90	J	1.80	10.8	ug/Kg
86-73-7	Fluorene	6.80	J	2.00	10.8	ug/Kg
85-01-8	Phenanthrene	100		2.10	10.8	ug/Kg
120-12-7	Anthracene	19.0		2.60	10.8	ug/Kg
206-44-0	Fluoranthene	220		2.20	10.8	ug/Kg
129-00-0	Pyrene	140		3.10	10.8	ug/Kg
56-55-3	Benzo(a)anthracene	83.8		2.50	10.8	ug/Kg
218-01-9	Chrysene	100		2.80	10.8	ug/Kg
205-99-2	Benzo(b)fluoranthene	130		3.90	10.8	ug/Kg
207-08-9	Benzo(k)fluoranthene	44.0		3.20	10.8	ug/Kg
50-32-8	Benzo(a)pyrene	96.1		5.40	10.8	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	53.9		4.10	10.8	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	16.0		3.80	10.8	ug/Kg
191-24-2	Benzo(g,h,i)perylene	62.7		3.70	10.8	ug/Kg
123-91-1	1,4-Dioxane	7.20	U	7.20	21.5	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.19		30 (17) - 150 (161)	47%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.13		30 (23) - 150 (138)	32%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		30 (33) - 130 (121)	68%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.17		30 (32) - 130 (121)	43%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.097	*	30 (21) - 130 (130)	24%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7670		7.545		
1146-65-2	Naphthalene-d8	19700		10.304		
15067-26-2	Acenaphthene-d10	9700		14.178		
1517-22-2	Phenanthrene-d10	20200		16.929		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-13	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	30.6
Sample Wt/Vol:	30.07 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033573.D	1	08/21/24 09:38	08/23/24 04:06	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	18800	21.139			
1520-96-3	Perylene-d12	20300	23.3			

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\BN082224\
Data File : BN033573.D
Acq On : 23 Aug 2024 04:06
Operator : MA/JU
Sample : P3671-13
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924

Quant Time: Aug 23 04:30:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	7667	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	19731	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	9704	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	20199	0.400	ng	0.00
29) Chrysene-d12	21.139	240	18846	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	20277	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	4771	0.196	ng	0.00
5) Phenol-d6	6.729	99	5767	0.199	ng	0.00
8) Nitrobenzene-d5	8.681	82	4486	0.274	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	5372	0.190	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	1014	0.194	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	6808	0.172	ng	0.00
27) Fluoranthene-d10	18.970	212	6323	0.130	ng	0.00
31) Terphenyl-d14	19.584	244	4160	0.097	ng	0.00
Target Compounds						
9) Naphthalene	10.357	128	6366	0.121	ng	Qvalue 96
12) 2-Methylnaphthalene	11.975	142	3903	0.117	ng	98
16) Acenaphthylene	13.900	152	4439	0.104	ng	98
17) Acenaphthene	14.242	154	1614	0.054	ng	# 90
18) Fluorene	15.236	166	2372	0.063	ng	# 99
25) Phenanthrene	16.967	178	54015	0.961	ng	99
26) Anthracene	17.066	178	8690	0.175	ng	# 95
28) Fluoranthene	18.998	202	125276	2.017	ng	100
30) Pyrene	19.365	202	110725	1.316	ng	# 95
32) Benzo(a)anthracene	21.122	228	52556	0.771	ng	96
33) Chrysene	21.166	228	64197	0.948	ng	97
34) Bis(2-ethylhexyl)phtha...	21.077	149	6610m	0.153	ng	
36) Indeno(1,2,3-cd)pyrene	25.446	276	41741	0.496	ng	95
37) Benzo(b)fluoranthene	22.660	252	89415	1.181	ng	98
38) Benzo(k)fluoranthene	22.698	252	30218m	0.405	ng	
39) Benzo(a)pyrene	23.206	252	55369	0.884	ng	94
40) Dibenzo(a,h)anthracene	25.458	278	9895	0.147	ng	# 83
41) Benzo(g,h,i)perylene	26.104	276	41549	0.577	ng	99

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

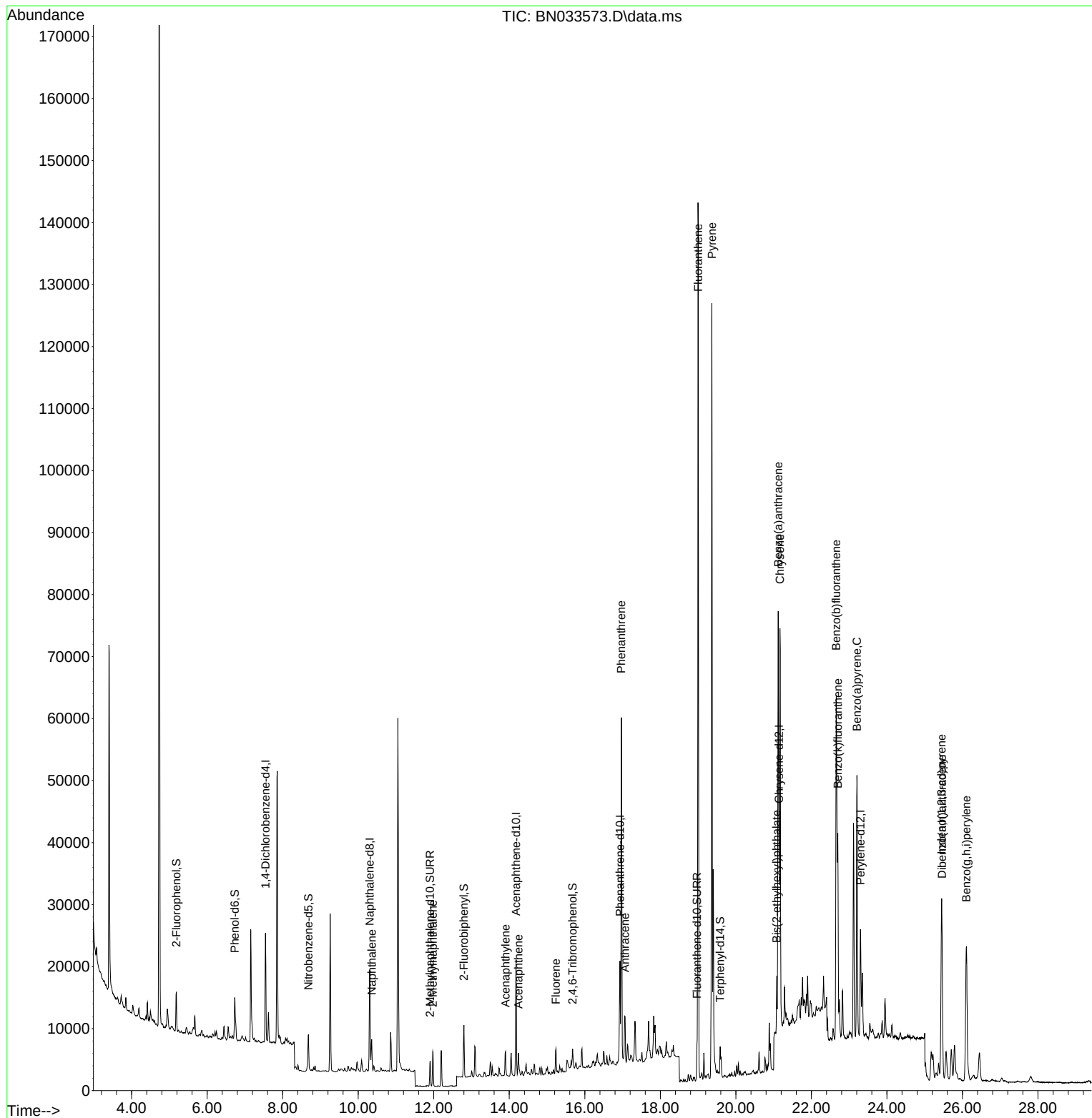
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033573.D
Acq On : 23 Aug 2024 04:06
Operator : MA/JU
Sample : P3671-13
Misc :
ALS Vial : 30 Sample Multiplier: 1

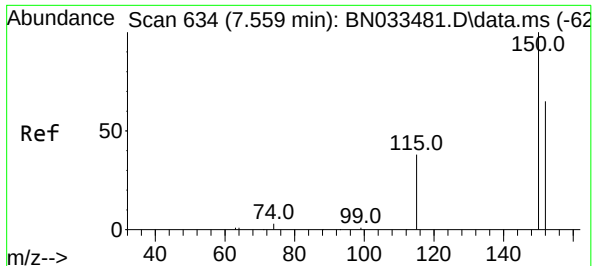
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

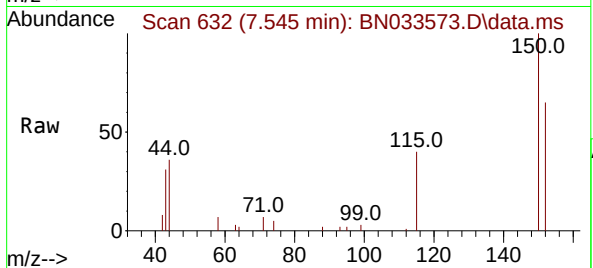
Quant Time: Aug 23 04:30:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

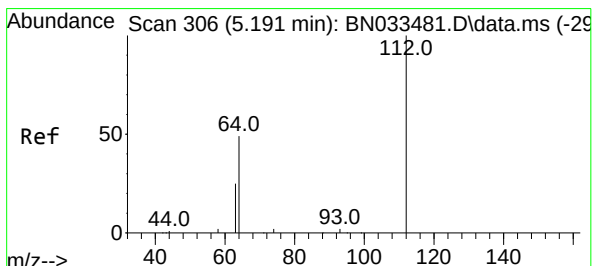
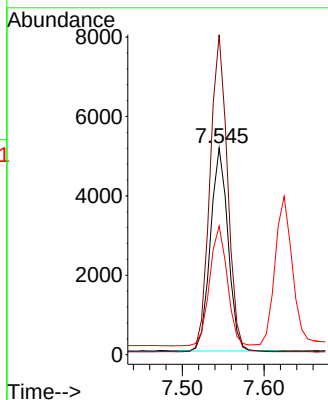
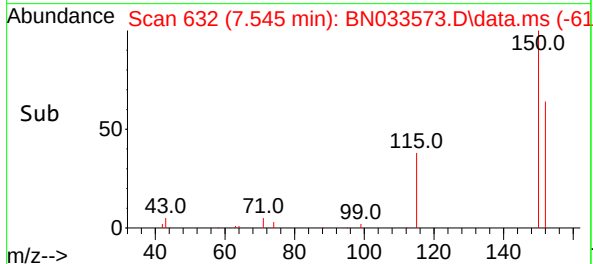
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



Tgt Ion:152 Resp: 766
Ion Ratio Lower Upper
152 100
150 154.6 122.2 183.2
115 62.1 47.2 70.8

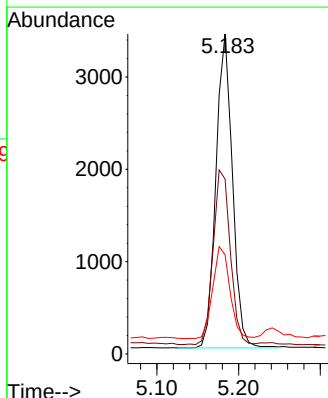
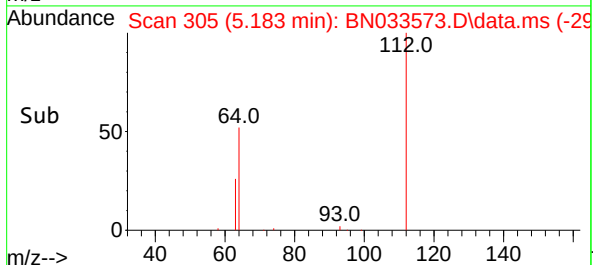
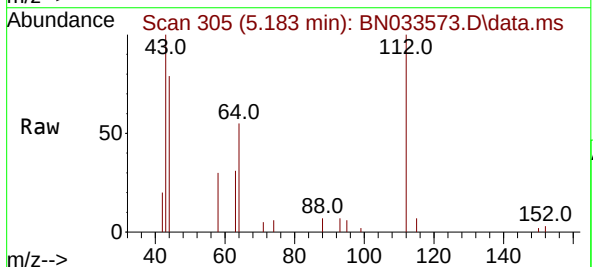
Manual Integrations
APPROVED

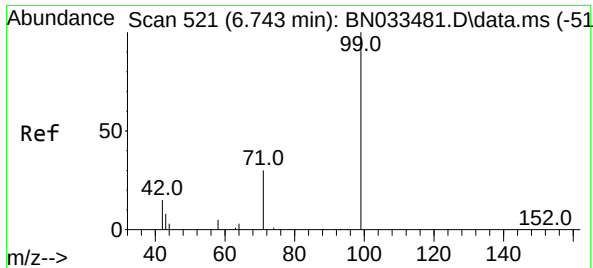
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.196 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

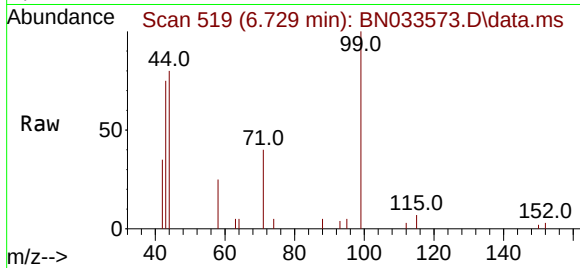
Tgt Ion:112 Resp: 4771
Ion Ratio Lower Upper
112 100
64 57.8 47.1 70.7
63 30.3 24.9 37.3





#5
Phenol-d6
Concen: 0.199 ng
RT: 6.729 min Scan# 519
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

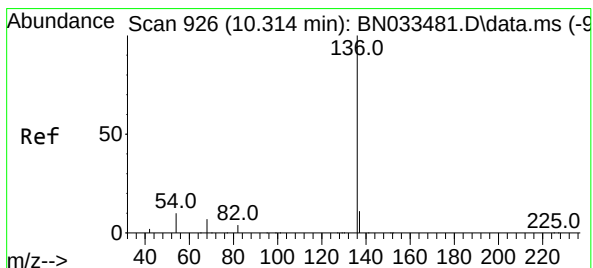
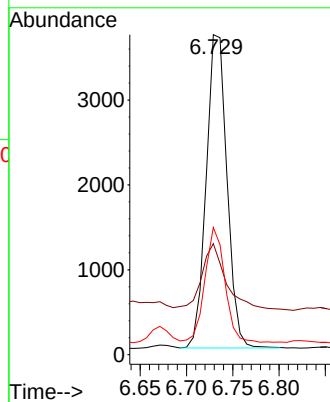
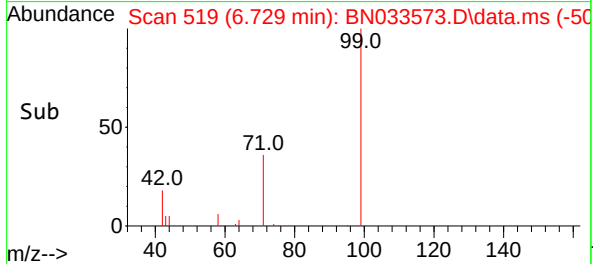
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



Tgt Ion: 99 Resp: 576
Ion Ratio Lower Upper
99 100
42 23.7 16.6 24.8
71 35.2 26.2 39.4

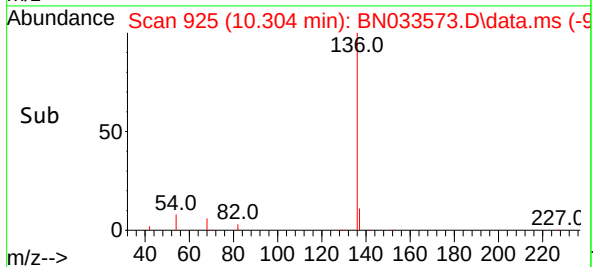
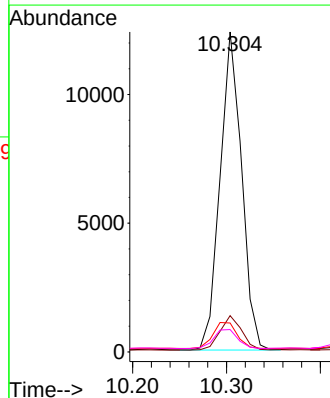
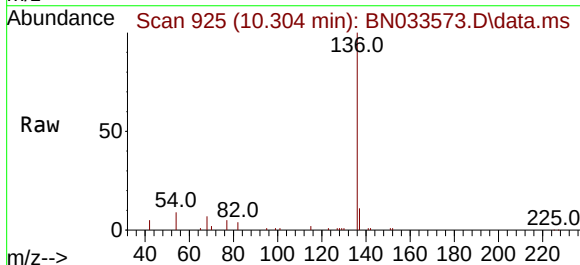
Manual Integrations
APPROVED

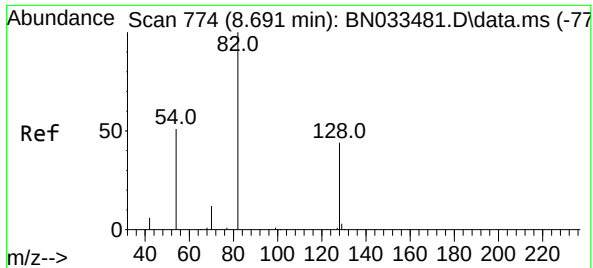
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

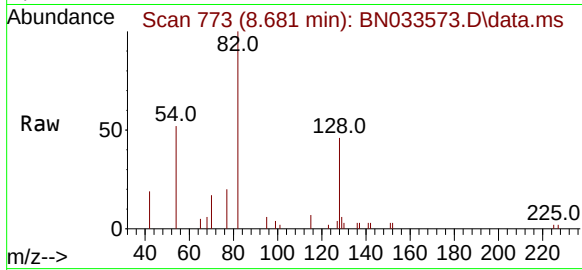
Tgt Ion:136 Resp: 19731
Ion Ratio Lower Upper
136 100
137 11.3 9.0 13.6
54 9.1 8.3 12.5
68 7.0 5.9 8.9





#8
Nitrobenzene-d5
Concen: 0.274 ng
RT: 8.681 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

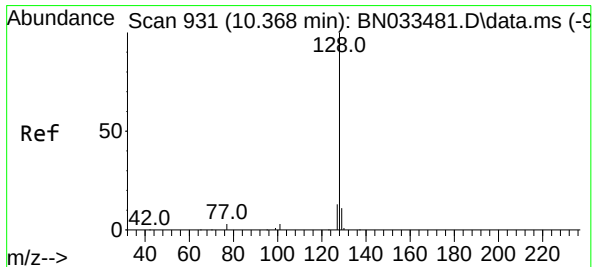
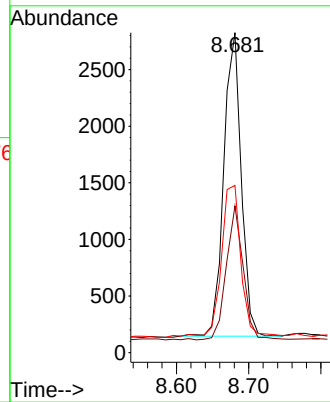
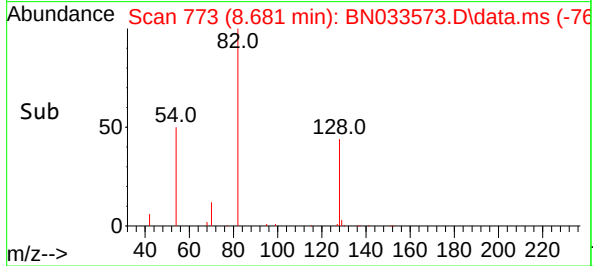
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



Tgt Ion: 82 Resp: 4480
Ion Ratio Lower Upper
82 100
128 45.8 36.0 54.0
54 52.3 42.0 63.0

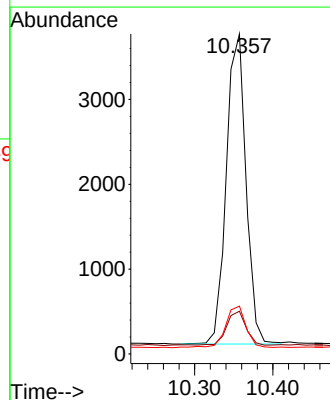
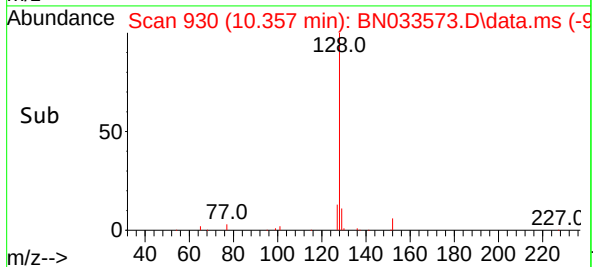
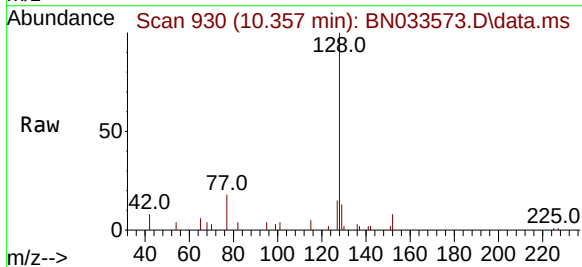
Manual Integrations
APPROVED

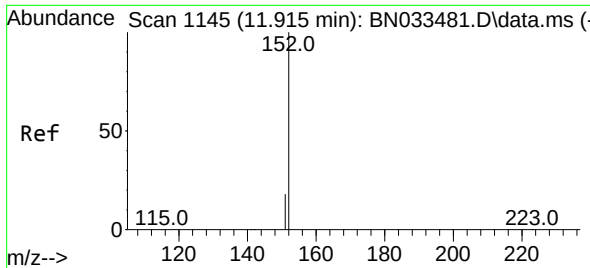
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#9
Naphthalene
Concen: 0.121 ng
RT: 10.357 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

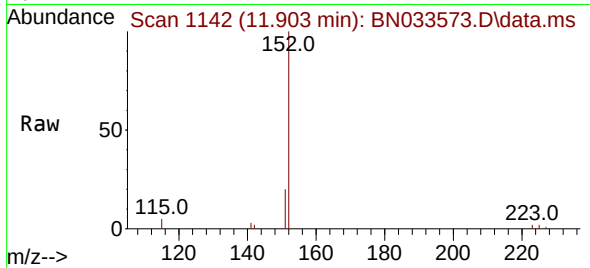
Tgt Ion:128 Resp: 6366
Ion Ratio Lower Upper
128 100
129 13.4 9.1 13.7
127 15.0 10.7 16.1





#11
2-Methylnaphthalene-d10
Concen: 0.190 ng
RT: 11.903 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

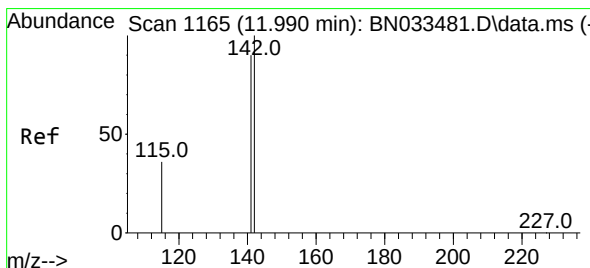
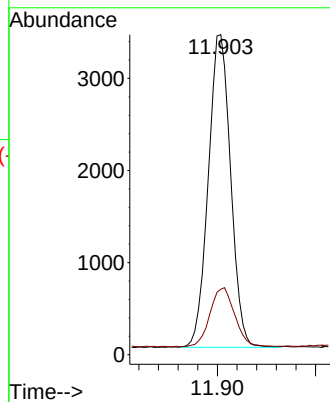
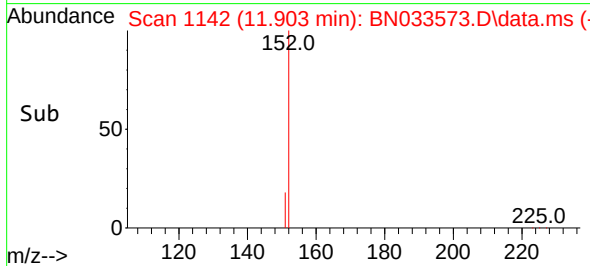
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



Tgt Ion:152 Resp: 5372
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0

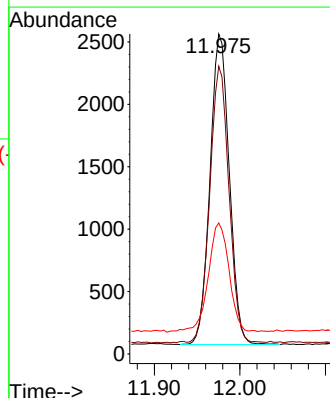
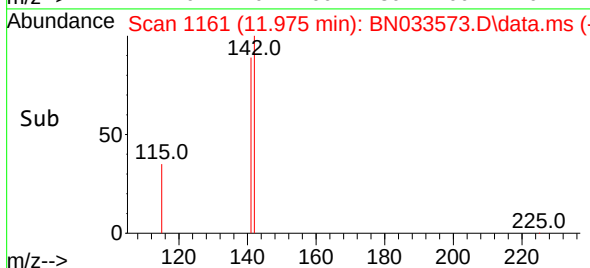
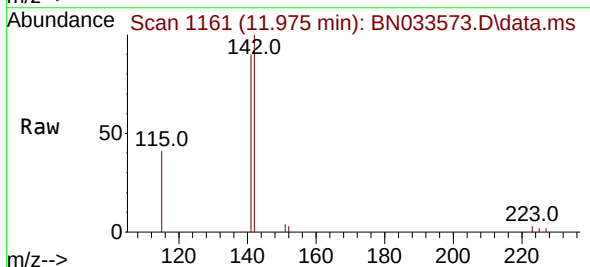
Manual Integrations
APPROVED

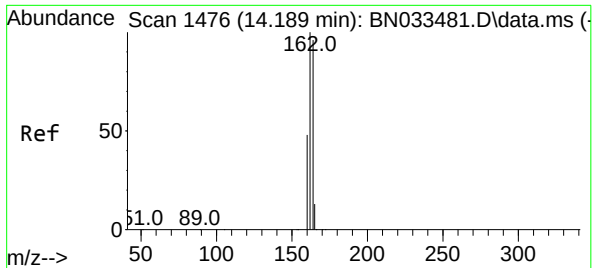
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#12
2-Methylnaphthalene
Concen: 0.117 ng
RT: 11.975 min Scan# 1161
Delta R.T. -0.004 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

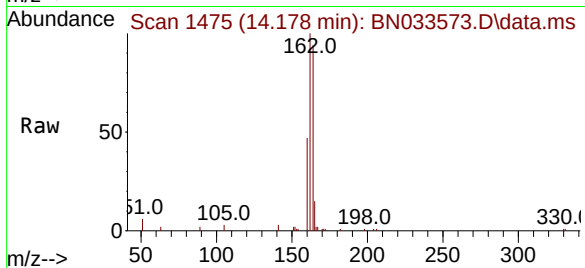
Tgt Ion:142 Resp: 3903
Ion Ratio Lower Upper
142 100
141 89.9 71.7 107.5
115 41.0 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

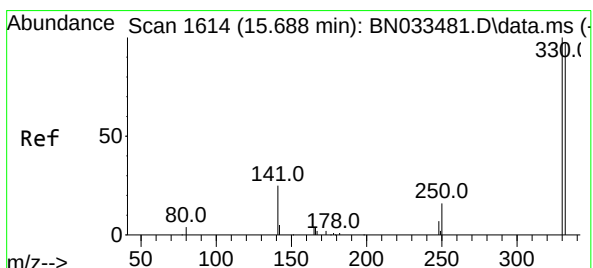
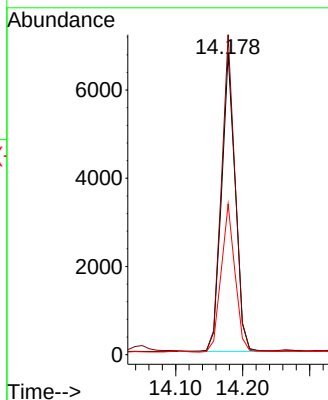
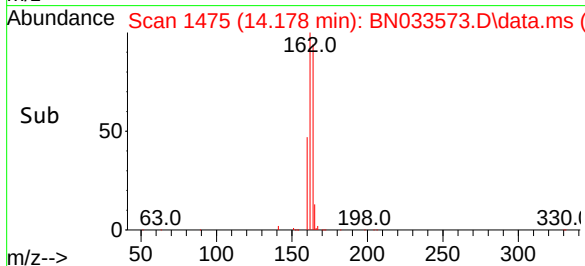
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



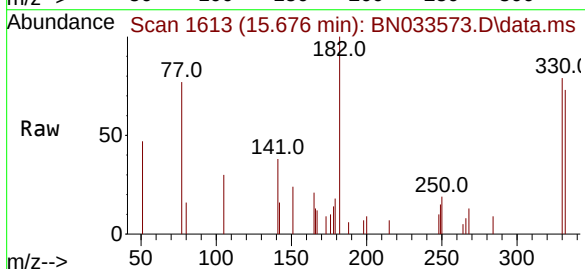
Tgt Ion:164 Resp: 9704
Ion Ratio Lower Upper
164 100
162 106.3 83.5 125.3
160 50.1 40.2 60.4

Manual Integrations
APPROVED

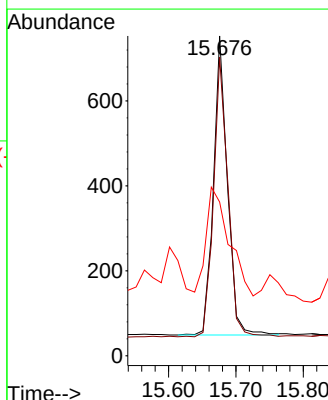
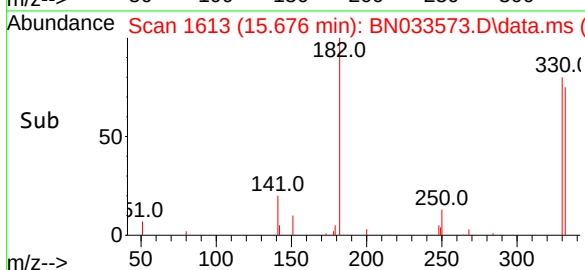
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

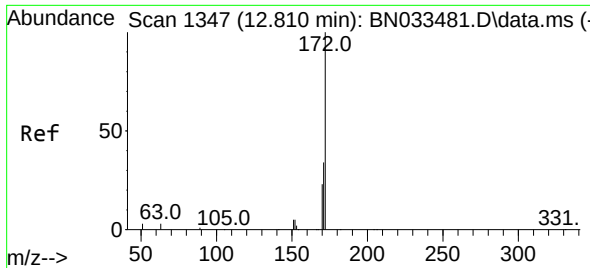


#14
2,4,6-Tribromophenol
Concen: 0.194 ng
RT: 15.676 min Scan# 1613
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06



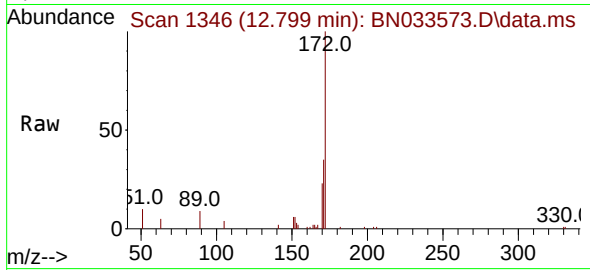
Tgt Ion:330 Resp: 1014
Ion Ratio Lower Upper
330 100
332 96.5 77.5 116.3
141 59.5 33.9 50.9#





#15
2-Fluorobiphenyl
Concen: 0.172 ng
RT: 12.799 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

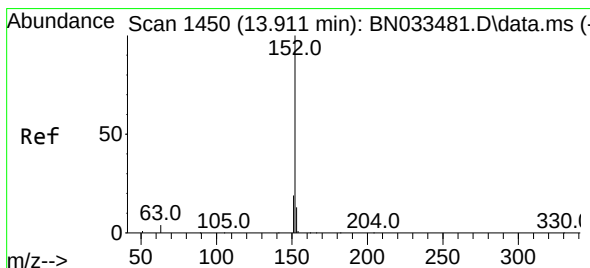
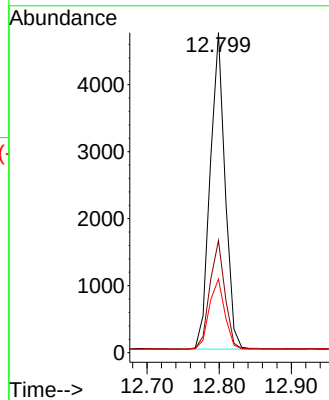
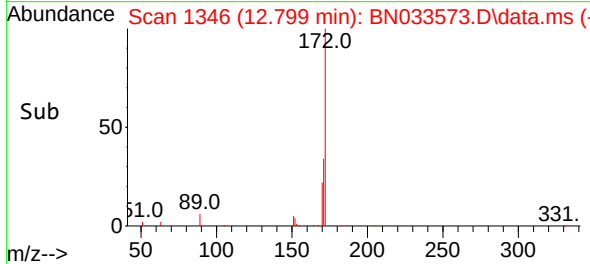
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



Tgt Ion:172 Resp: 6808
Ion Ratio Lower Upper
172 100
171 35.1 27.7 41.5
170 23.1 18.3 27.5

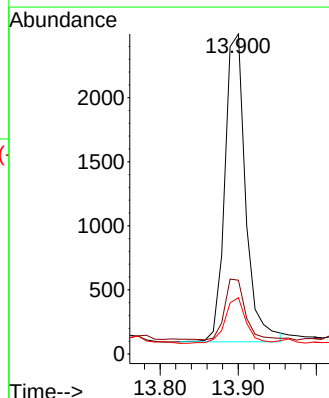
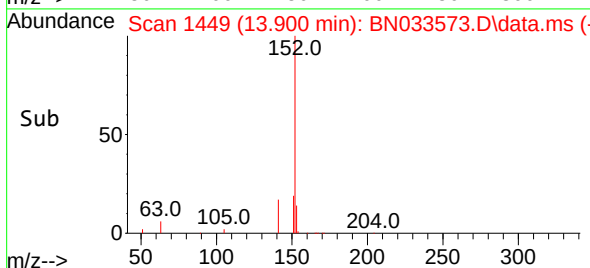
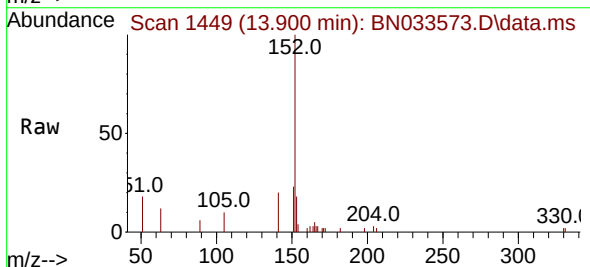
Manual Integrations
APPROVED

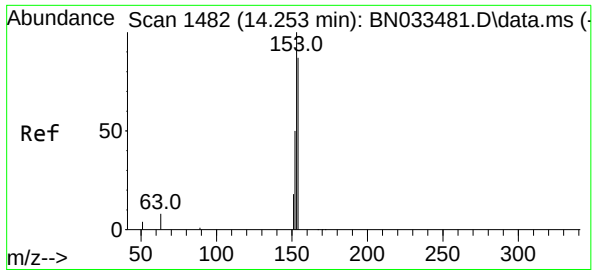
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#16
Acenaphthylene
Concen: 0.104 ng
RT: 13.900 min Scan# 1449
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

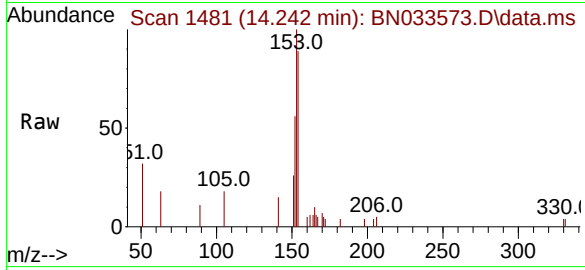
Tgt Ion:152 Resp: 4439
Ion Ratio Lower Upper
152 100
151 19.4 15.7 23.5
153 15.2 10.3 15.5





#17
Acenaphthene
Concen: 0.054 ng
RT: 14.242 min Scan# 1481
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

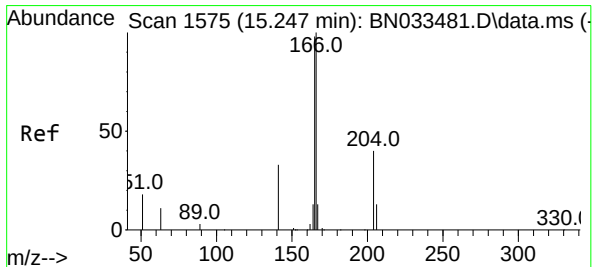
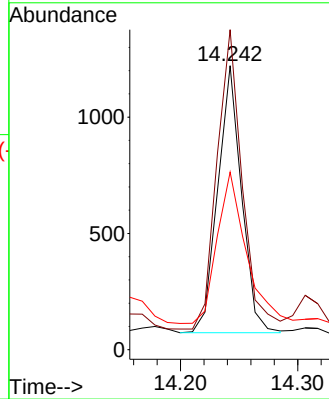
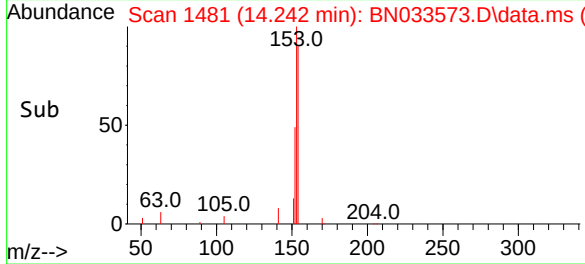
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



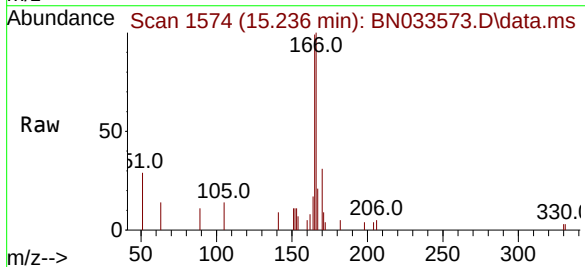
Tgt Ion:154 Resp: 1614
Ion Ratio Lower Upper
154 100
153 118.3 89.0 133.6
152 69.5 45.2 67.8

Manual Integrations
APPROVED

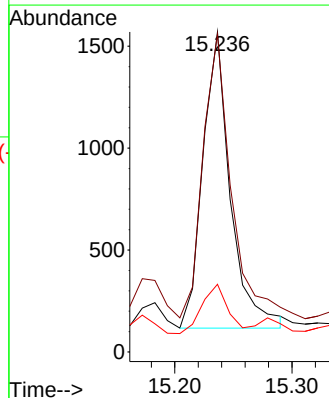
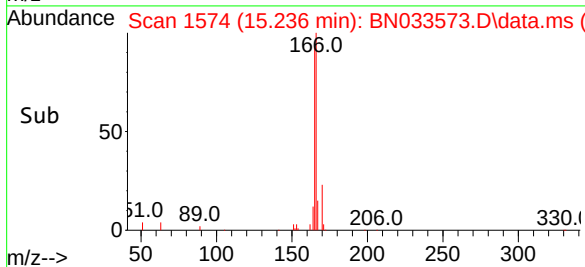
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

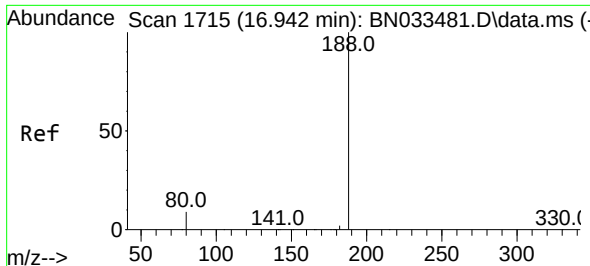


#18
Fluorene
Concen: 0.063 ng
RT: 15.236 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06



Tgt Ion:166 Resp: 2372
Ion Ratio Lower Upper
166 100
165 97.6 78.2 117.4
167 16.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.929 min Scan# 1715

Delta R.T. 0.000 min

Lab File: BN033573.D

Acq: 23 Aug 2024 04:06

Instrument :

BNA_N

ClientSampleId :

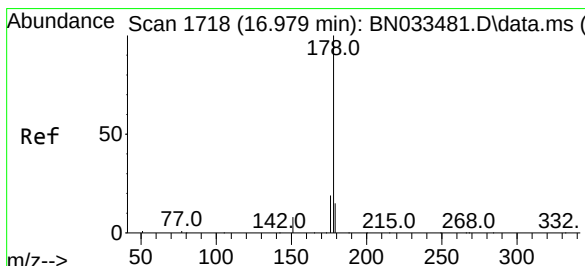
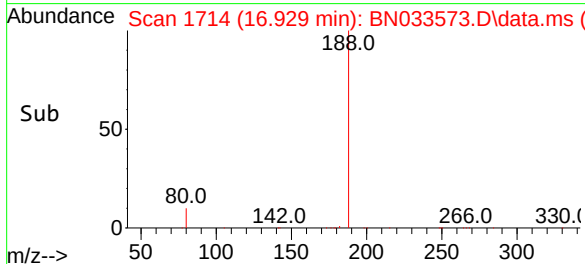
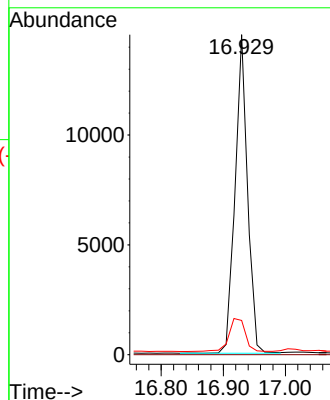
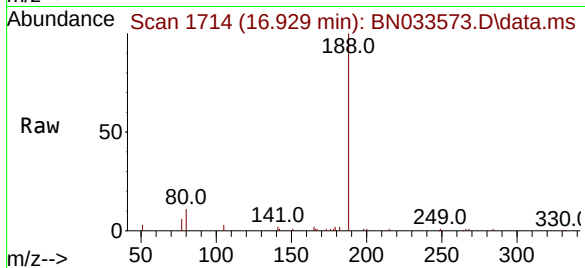
S-912-J-SO-0-0.5-081924

Tgt Ion:188	Resp:	2019
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	10.7	7.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#25

Phenanthrene

Concen: 0.961 ng

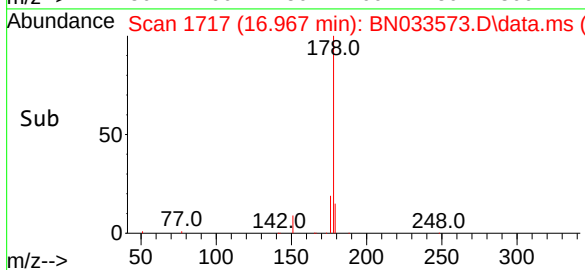
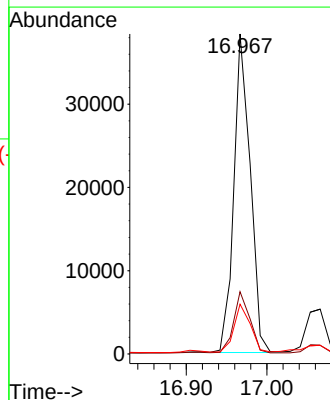
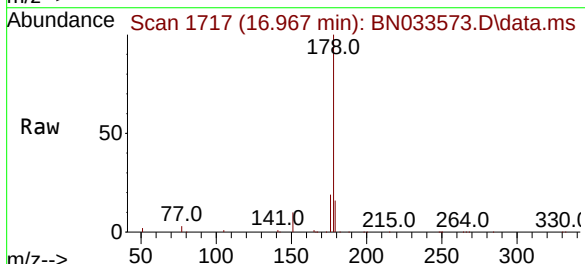
RT: 16.967 min Scan# 1717

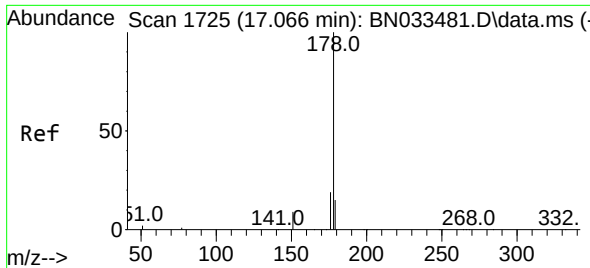
Delta R.T. 0.000 min

Lab File: BN033573.D

Acq: 23 Aug 2024 04:06

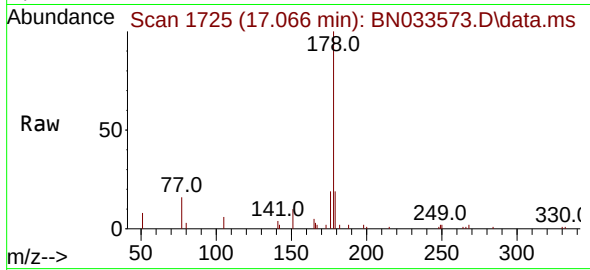
Tgt Ion:178	Resp:	54015
Ion Ratio	Lower	Upper
178	100	
176	19.0	15.3
179	14.8	12.3





#26
Anthracene
Concen: 0.175 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

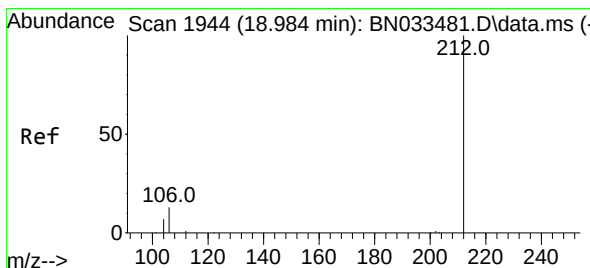
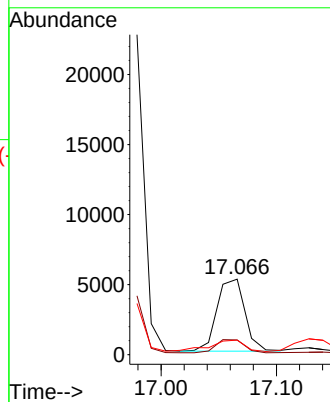
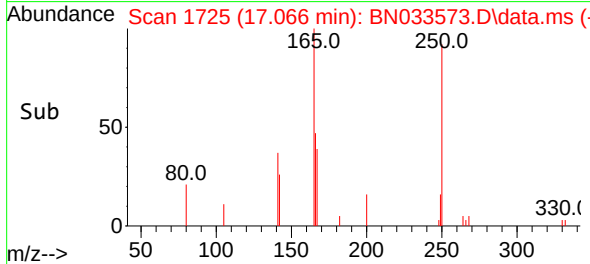
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



Tgt Ion:178 Resp: 8690
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 19.7 12.4 18.6

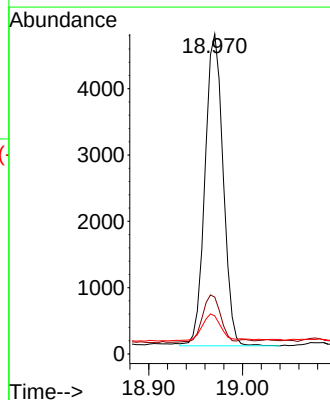
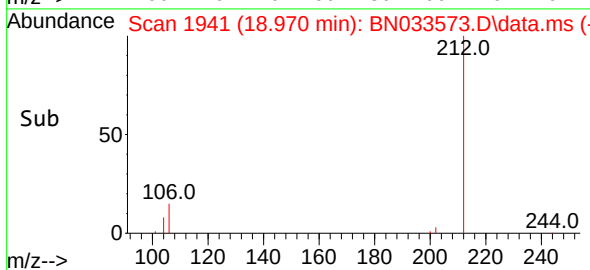
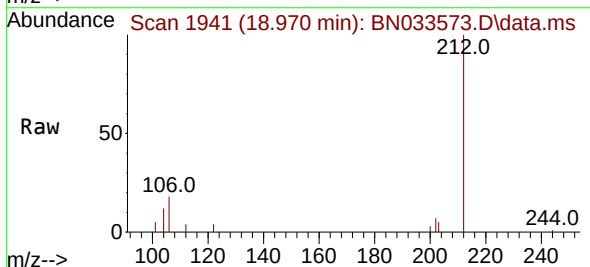
Manual Integrations
APPROVED

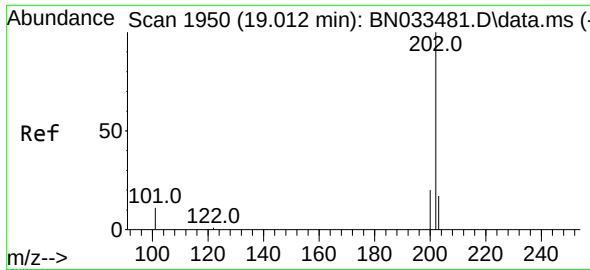
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#27
Fluoranthene-d10
Concen: 0.130 ng
RT: 18.970 min Scan# 1941
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

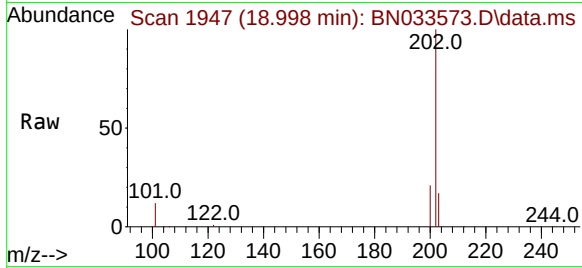
Tgt Ion:212 Resp: 6323
Ion Ratio Lower Upper
212 100
106 15.1 12.3 18.5
104 9.1 7.0 10.4





#28
Fluoranthene
Concen: 2.017 ng
RT: 18.998 min Scan# 1950
Delta R.T. -0.005 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

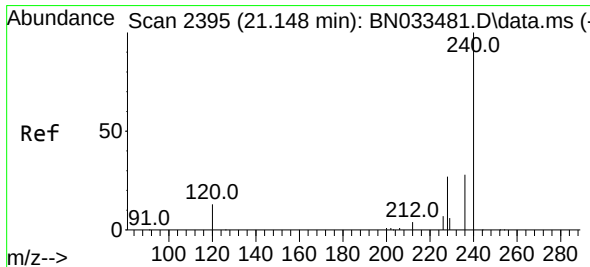
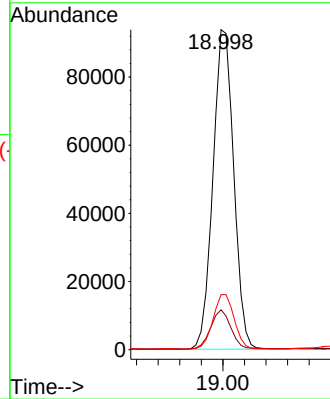
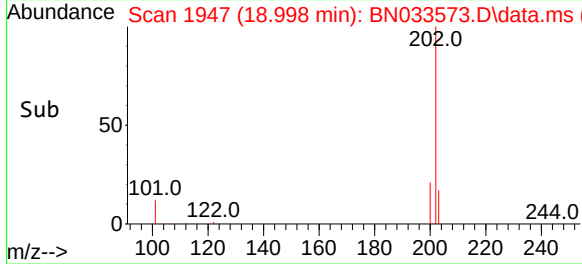
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



Tgt Ion:202 Resp: 125270
Ion Ratio Lower Upper
202 100
101 12.2 9.5 14.3
203 17.3 13.8 20.6

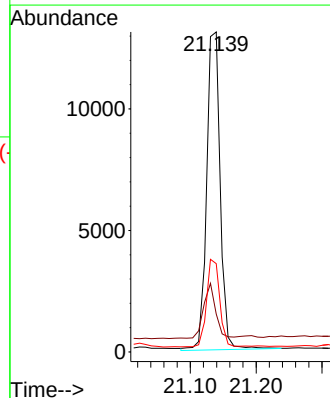
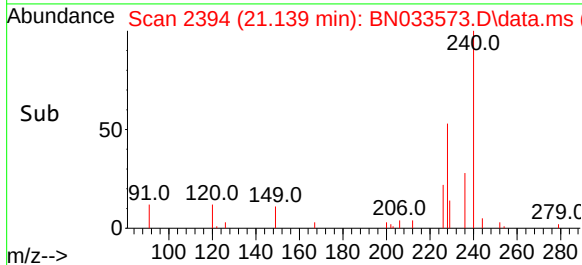
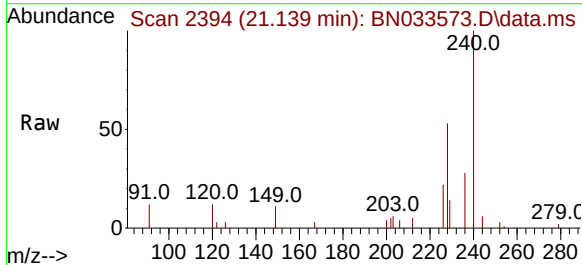
Manual Integrations
APPROVED

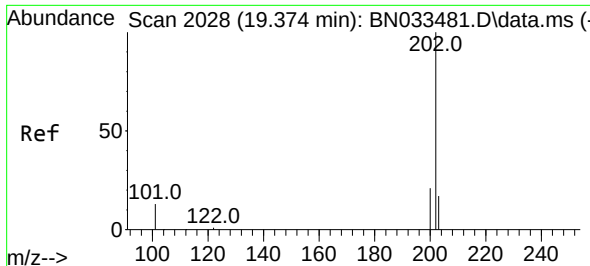
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 2394
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

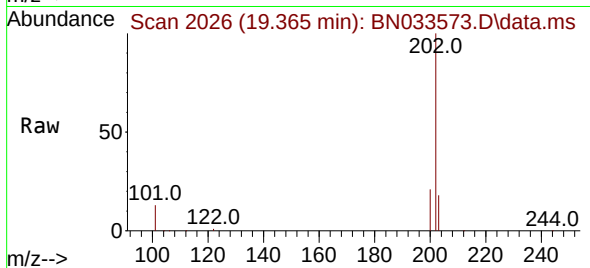
Tgt Ion:240 Resp: 18846
Ion Ratio Lower Upper
240 100
120 11.9 12.4 18.6#
236 27.6 23.0 34.6





#30
Pyrene
Concen: 1.316 ng
RT: 19.365 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

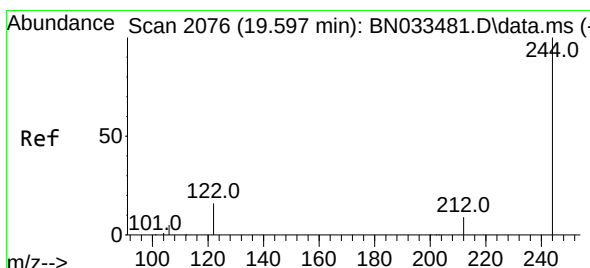
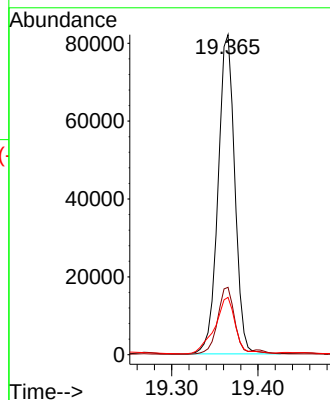
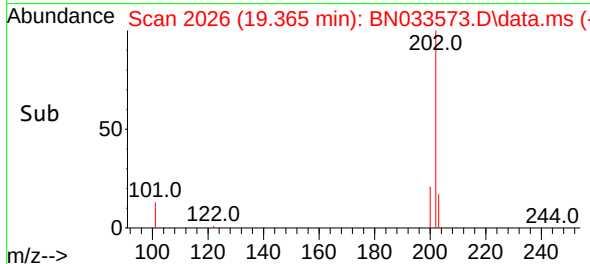
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



Tgt Ion:202 Resp: 110725
Ion Ratio Lower Upper
202 100
200 21.2 16.6 24.8
203 21.7 14.2 21.4

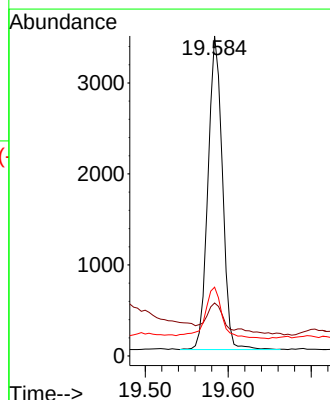
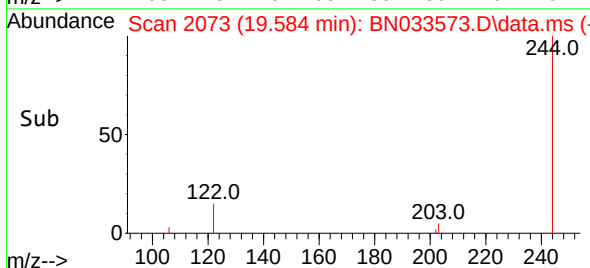
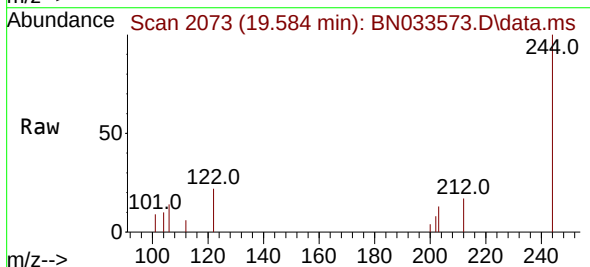
Manual Integrations
APPROVED

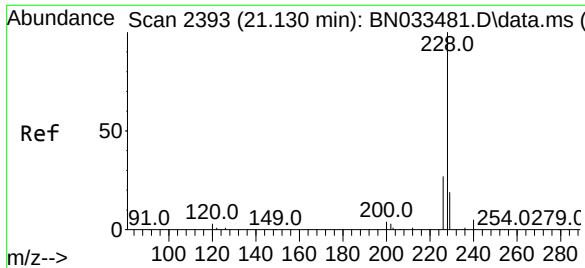
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#31
Terphenyl-d14
Concen: 0.097 ng
RT: 19.584 min Scan# 2073
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

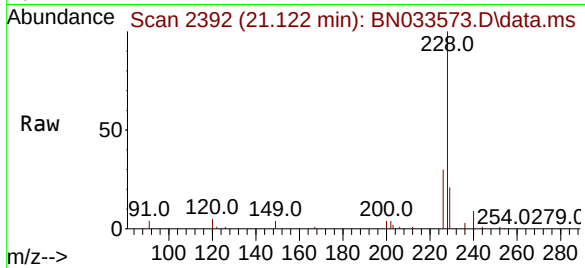
Tgt Ion:244 Resp: 4160
Ion Ratio Lower Upper
244 100
212 16.6 7.8 11.6#
122 21.5 13.3 19.9#





#32
Benzo(a)anthracene
Concen: 0.771 ng
RT: 21.122 min Scan# 21122
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

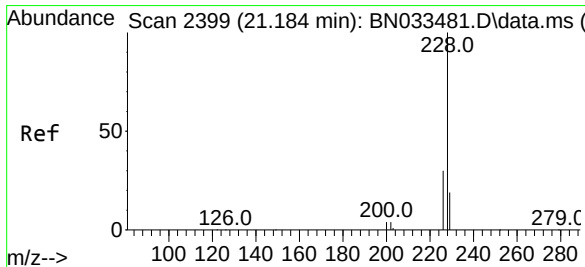
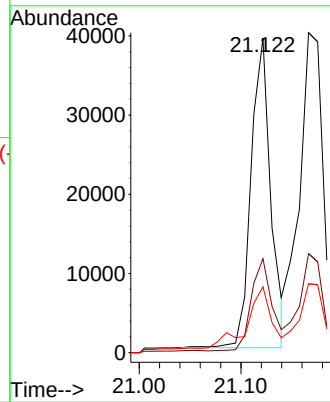
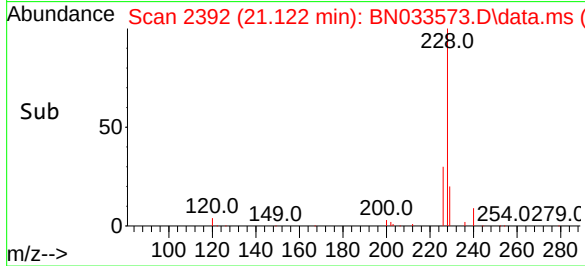
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



Tgt Ion:228 Resp: 52550
Ion Ratio Lower Upper
228 100
226 29.8 21.8 32.6
229 21.0 15.8 23.6

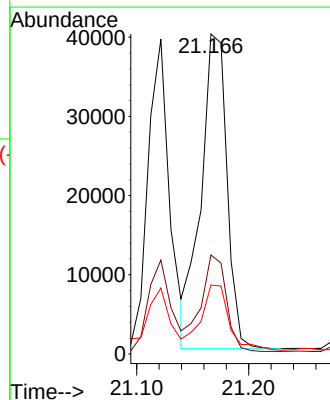
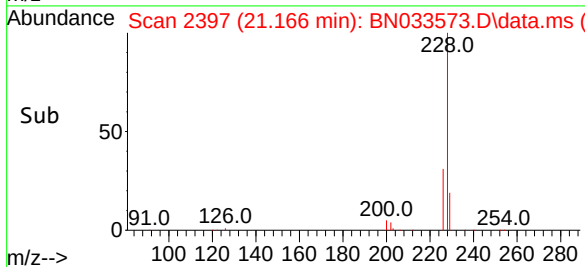
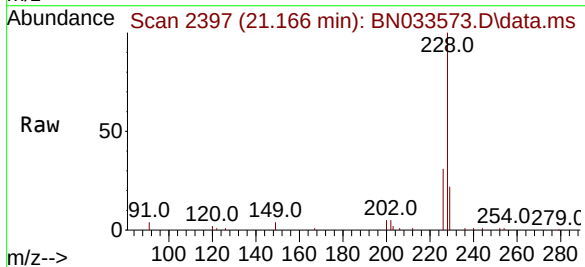
Manual Integrations
APPROVED

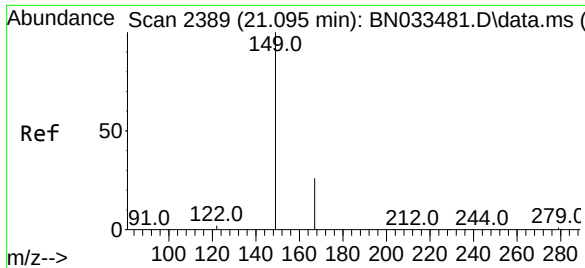
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#33
Chrysene
Concen: 0.948 ng
RT: 21.166 min Scan# 2397
Delta R.T. -0.009 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

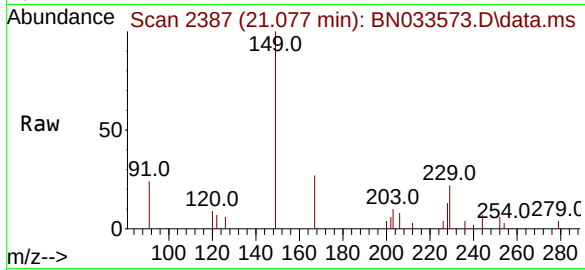
Tgt Ion:228 Resp: 64197
Ion Ratio Lower Upper
228 100
226 31.0 23.8 35.8
229 21.5 15.6 23.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng m
RT: 21.077 min Scan# 2107
Delta R.T. -0.009 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

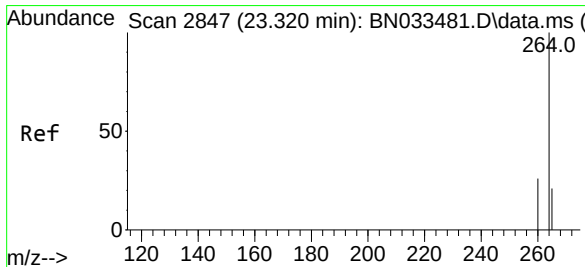
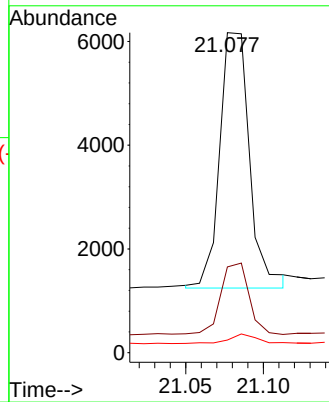
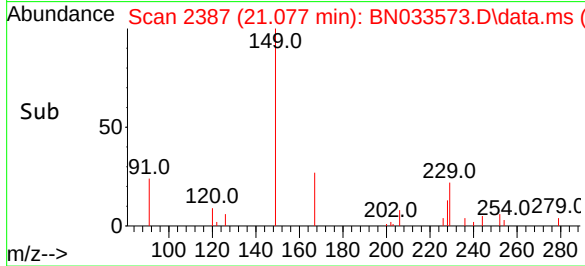
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



Tgt Ion:149 Resp: 6610
Ion Ratio Lower Upper
149 100
167 61.3 21.5 32.3
279 5.4 2.2 3.2

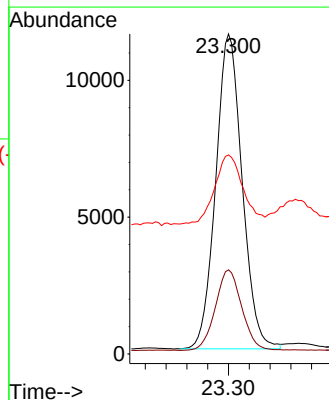
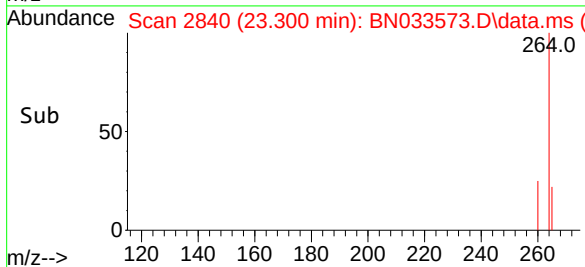
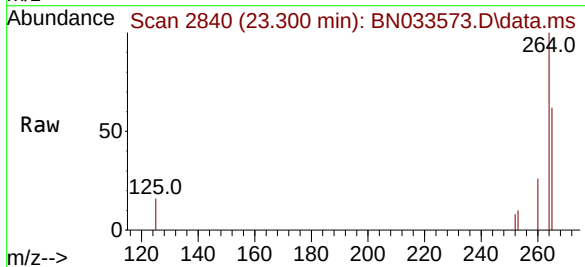
Manual Integrations
APPROVED

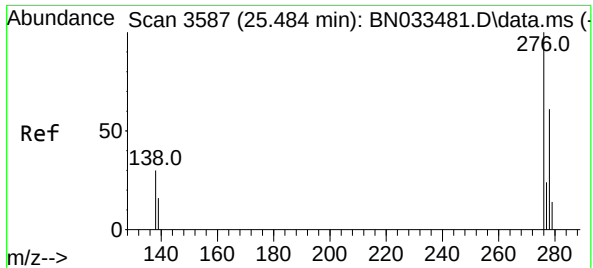
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.300 min Scan# 2840
Delta R.T. -0.003 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

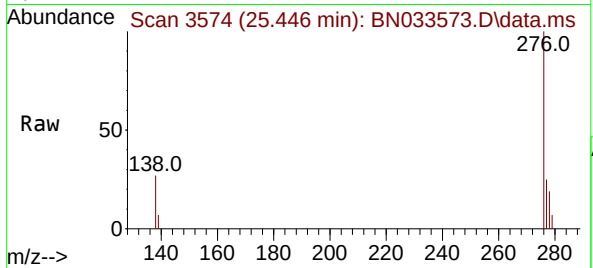
Tgt Ion:264 Resp: 20277
Ion Ratio Lower Upper
264 100
260 26.3 20.8 31.2
265 62.2 52.2 78.2





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.496 ng
RT: 25.446 min Scan# 3574
Delta R.T. -0.003 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

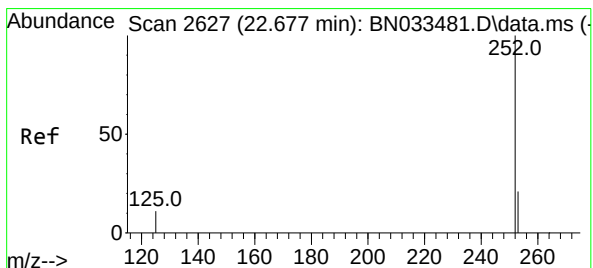
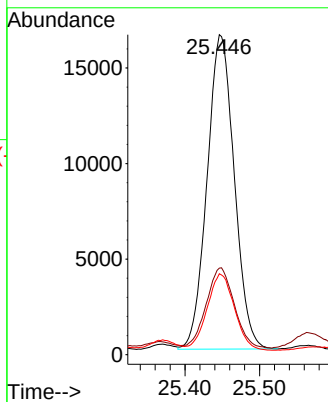
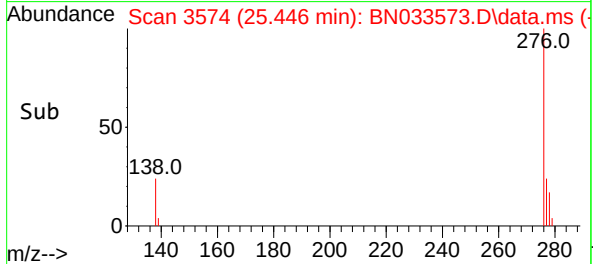
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0-0.5-081924



Tgt Ion: 276 Resp: 4174
Ion Ratio Lower Upper
276 100
138 26.2 24.4 36.6
277 24.5 19.8 29.6

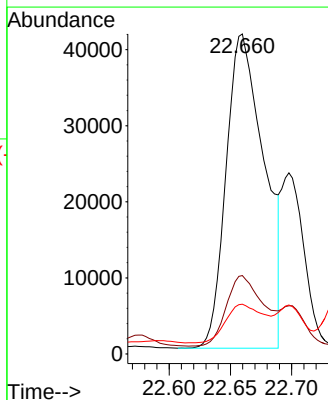
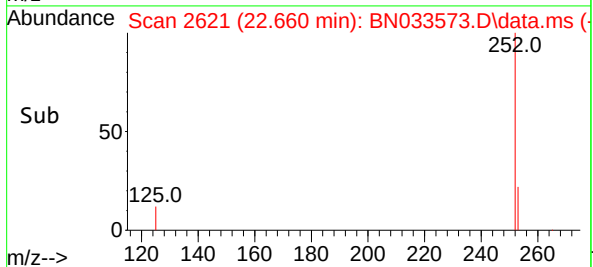
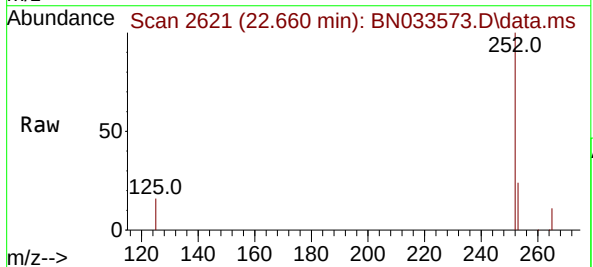
Manual Integrations
APPROVED

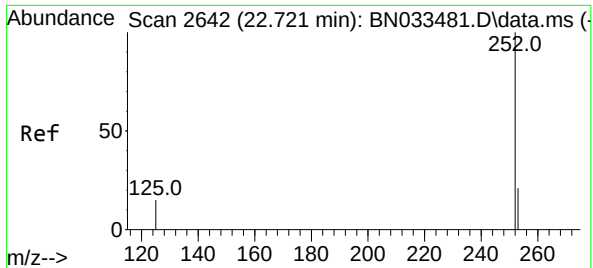
Reviewed By : Yogesh Patel 08/23/2024
Supervised By : mohammad ahmed 08/24/2024



#37
Benzo(b)fluoranthene
Concen: 1.181 ng
RT: 22.660 min Scan# 2621
Delta R.T. 0.000 min
Lab File: BN033573.D
Acq: 23 Aug 2024 04:06

Tgt Ion: 252 Resp: 89415
Ion Ratio Lower Upper
252 100
253 24.5 19.8 29.8
125 15.6 13.9 20.9





#38

Benzo(k)fluoranthene

Concen: 0.405 ng m

RT: 22.698 min Scan# 20

Delta R.T. -0.006 min

Lab File: BN033573.D

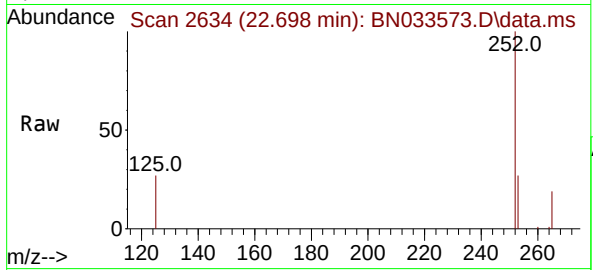
Acq: 23 Aug 2024 04:06

Instrument :

BNA_N

ClientSampleId :

S-912-J-SO-0-0.5-081924



Tgt Ion:252 Resp: 30218

Ion Ratio Lower Upper

252 100

253 26.6 19.8 29.8

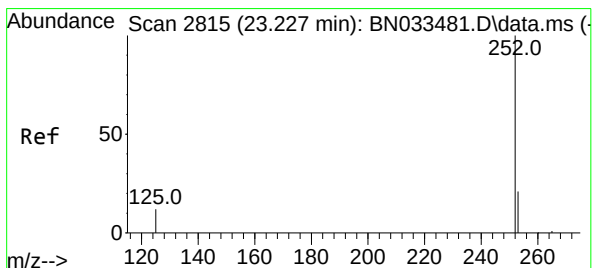
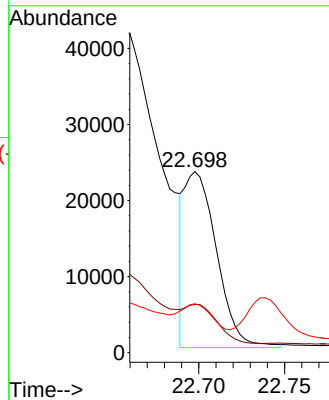
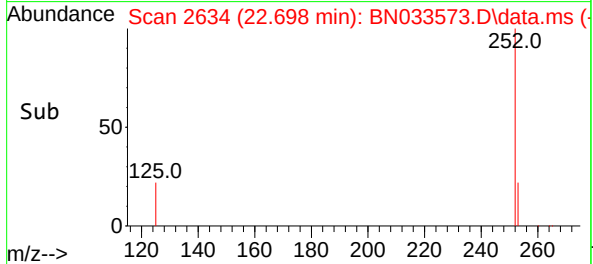
125 27.0 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#39

Benzo(a)pyrene

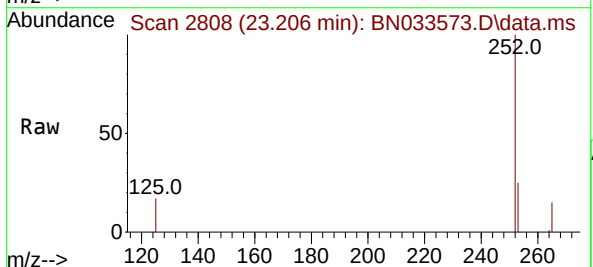
Concen: 0.884 ng

RT: 23.206 min Scan# 2808

Delta R.T. -0.003 min

Lab File: BN033573.D

Acq: 23 Aug 2024 04:06



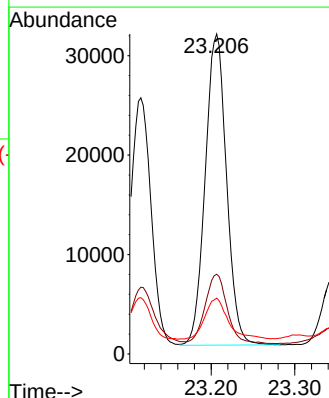
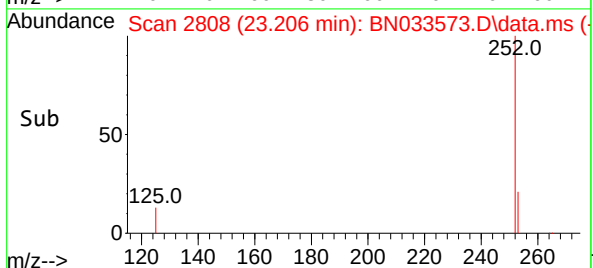
Tgt Ion:252 Resp: 55369

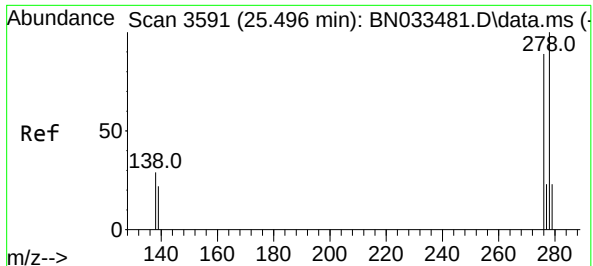
Ion Ratio Lower Upper

252 100

253 24.9 21.5 32.3

125 17.4 17.0 25.4





#40

Dibenzo(a,h)anthracene

Concen: 0.147 ng

RT: 25.458 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN033573.D

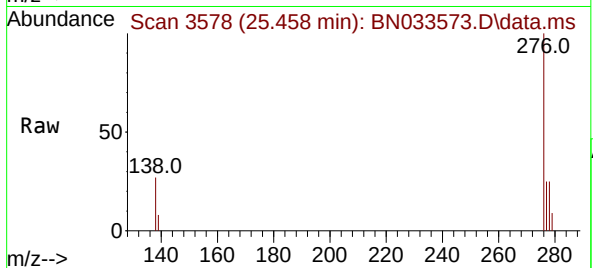
Acq: 23 Aug 2024 04:06

Instrument :

BNA_N

ClientSampleId :

S-912-J-SO-0-0.5-081924



Tgt Ion:278 Resp: 989

Ion Ratio Lower Upper

278 100

139 31.9 19.1 28.7

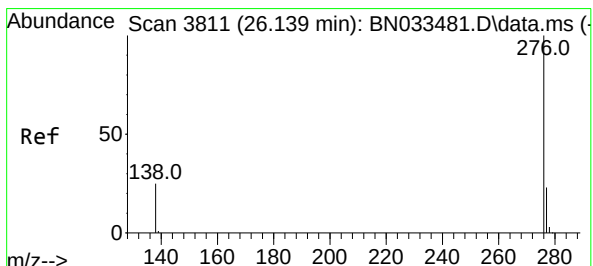
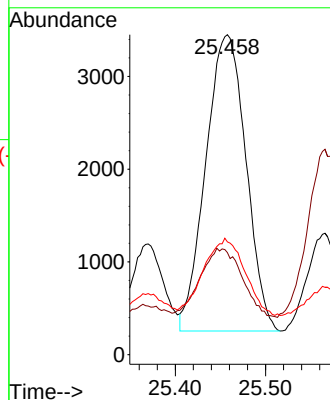
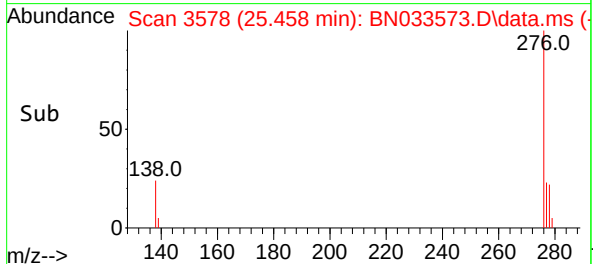
279 35.2 21.0 31.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#41

Benzo(g,h,i)perylene

Concen: 0.577 ng

RT: 26.104 min Scan# 3799

Delta R.T. 0.000 min

Lab File: BN033573.D

Acq: 23 Aug 2024 04:06

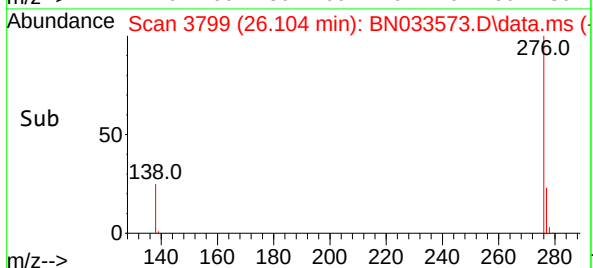
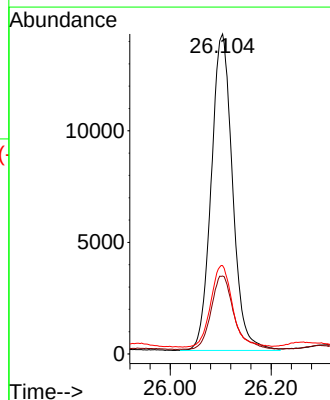
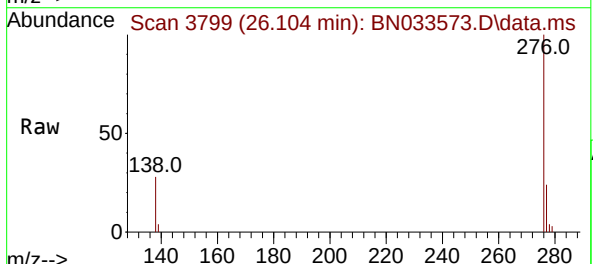
Tgt Ion:276 Resp: 41549

Ion Ratio Lower Upper

276 100

277 24.3 19.7 29.5

138 27.6 21.8 32.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-14	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	51.5
Sample Wt/Vol:	30.04 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033566.D	1	08/21/24 09:38	08/22/24 23:52	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1.30	U	1.30	6.40	ug/Kg
91-57-6	2-Methylnaphthalene	1.60	U	1.60	6.40	ug/Kg
208-96-8	Acenaphthylene	1.20	U	1.20	6.40	ug/Kg
83-32-9	Acenaphthene	1.10	U	1.10	6.40	ug/Kg
86-73-7	Fluorene	1.20	U	1.20	6.40	ug/Kg
85-01-8	Phenanthrene	2.30	J	1.20	6.40	ug/Kg
120-12-7	Anthracene	1.50	U	1.50	6.40	ug/Kg
206-44-0	Fluoranthene	4.40	J	1.30	6.40	ug/Kg
129-00-0	Pyrene	3.40	J	1.80	6.40	ug/Kg
56-55-3	Benzo(a)anthracene	2.20	J	1.50	6.40	ug/Kg
218-01-9	Chrysene	2.70	J	1.70	6.40	ug/Kg
205-99-2	Benzo(b)fluoranthene	3.40	J	2.30	6.40	ug/Kg
207-08-9	Benzo(k)fluoranthene	1.90	U	1.90	6.40	ug/Kg
50-32-8	Benzo(a)pyrene	3.20	U	3.20	6.40	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2.40	U	2.40	6.40	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2.30	U	2.30	6.40	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2.20	U	2.20	6.40	ug/Kg
123-91-1	1,4-Dioxane	4.30	U	4.30	12.8	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.13		30 (17) - 150 (161)	32%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.095	*	30 (23) - 150 (138)	24%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.17		30 (33) - 130 (121)	41%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.13		30 (32) - 130 (121)	33%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.081	*	30 (21) - 130 (130)	20%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7000		7.545		
1146-65-2	Naphthalene-d8	17900		10.304		
15067-26-2	Acenaphthene-d10	8340		14.178		
1517-22-2	Phenanthrene-d10	15900		16.929		

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-14	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	51.5
Sample Wt/Vol:	30.04 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033566.D	1	08/21/24 09:38	08/22/24 23:52	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	12700	21.139			
1520-96-3	Perylene-d12	14100	23.303			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033566.D
Acq On : 22 Aug 2024 23:52
Operator : MA/JU
Sample : P3671-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0.5-1-081924

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

Quant Time: Aug 23 01:35:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	7004	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	17932	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	8339	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	15941	0.400	ng	0.00
29) Chrysene-d12	21.139	240	12739	0.400	ng	0.00
35) Perylene-d12	23.303	264	14091	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	2850	0.128	ng	0.00
5) Phenol-d6	6.729	99	3436	0.130	ng	0.00
8) Nitrobenzene-d5	8.681	82	2456	0.165	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	3335	0.130	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	510	0.114	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	4495	0.132	ng	0.00
27) Fluoranthene-d10	18.970	212	3658	0.095	ng	0.00
31) Terphenyl-d14	19.583	244	2336	0.081	ng	0.00
Target Compounds						
25) Phenanthrene	16.966	178	1553m	0.035	ng	Qvalue
28) Fluoranthene	19.003	202	3312	0.068	ng	96
30) Pyrene	19.365	202	3002	0.053	ng	# 94
32) Benzo(a)anthracene	21.121	228	1564	0.034	ng	# 86
33) Chrysene	21.175	228	1927	0.042	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.085	149	1704m	0.058	ng	
36) Indeno(1,2,3-cd)pyrene	25.449	276	1204	0.021	ng	97
37) Benzo(b)fluoranthene	22.660	252	2721	0.052	ng	# 21
39) Benzo(a)pyrene	23.206	252	1561	0.036	ng	# 1
41) Benzo(g,h,i)perylene	26.104	276	1201	0.024	ng	# 51

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

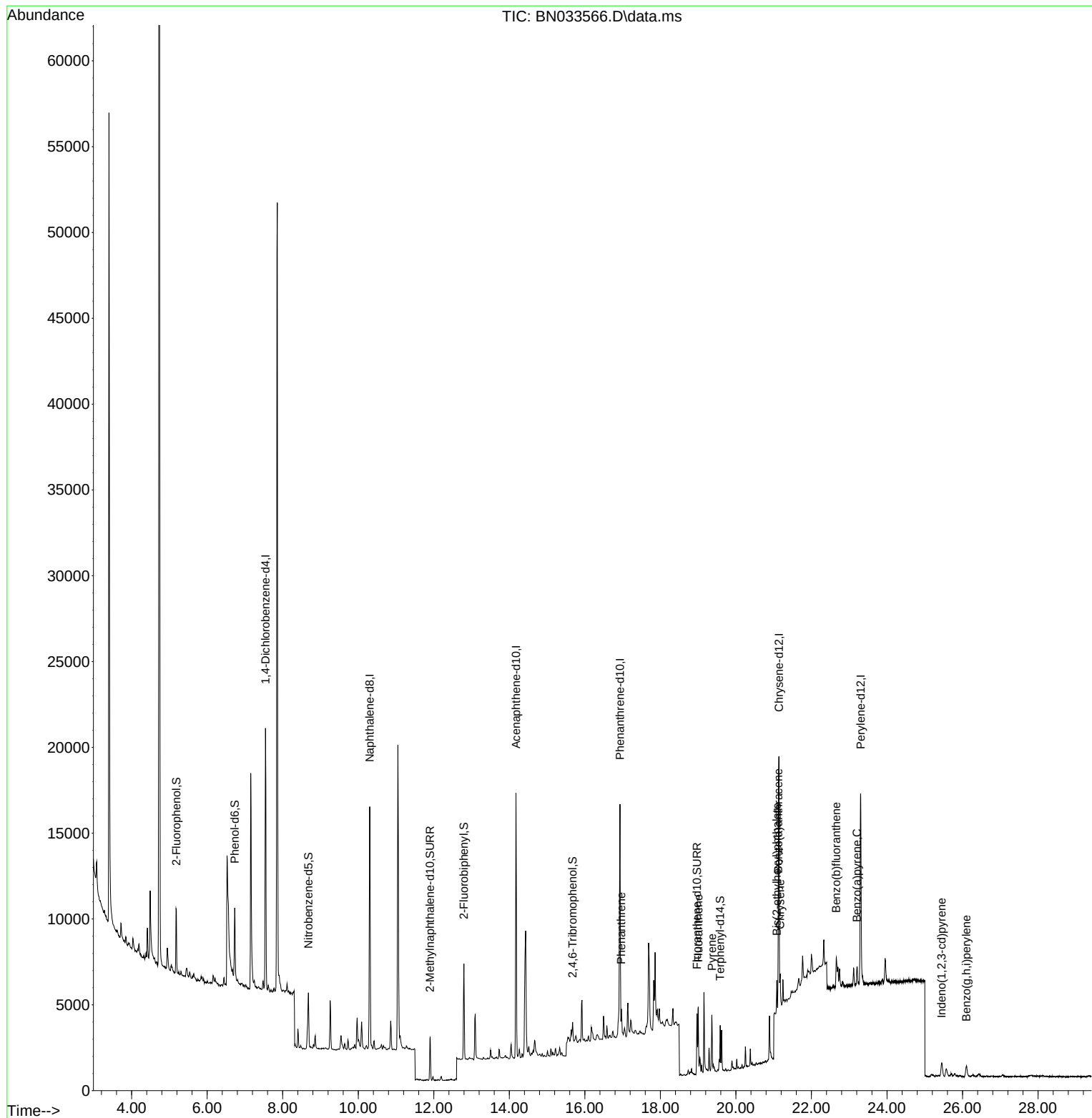
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033566.D
Acq On : 22 Aug 2024 23:52
Operator : MA/JU
Sample : P3671-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

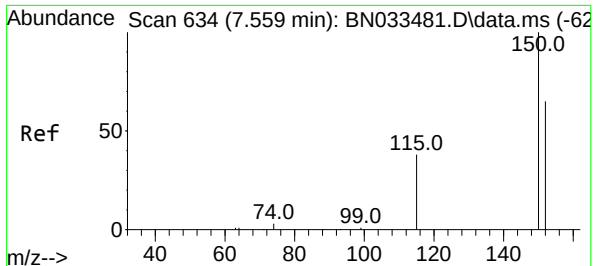
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0.5-1-081924

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

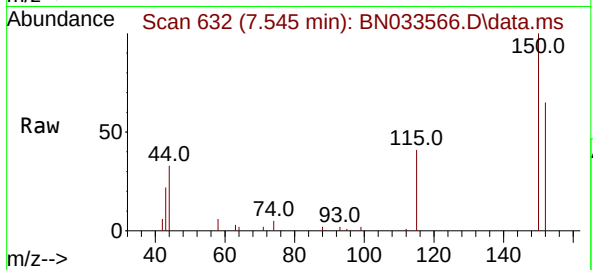
Quant Time: Aug 23 01:35:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

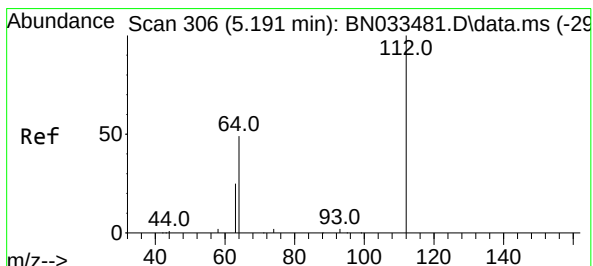
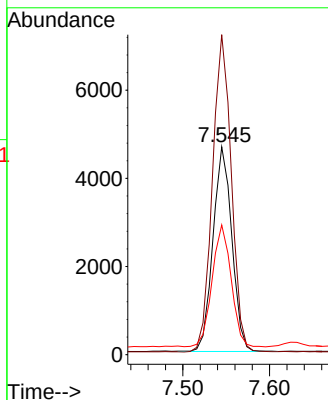
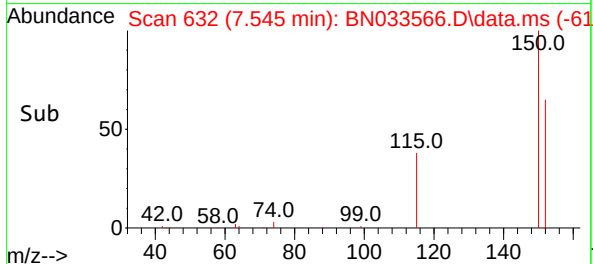
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0.5-1-081924



Tgt Ion:152 Resp: 7004
Ion Ratio Lower Upper
152 100
150 154.0 122.2 183.2
115 62.5 47.2 70.8

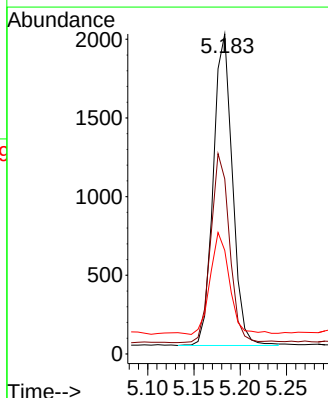
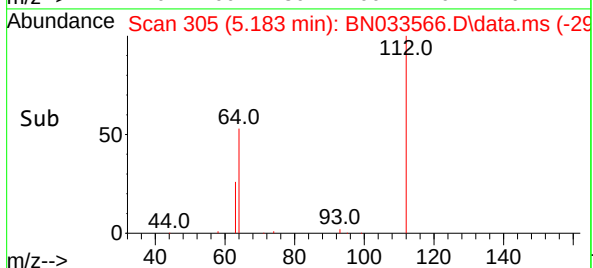
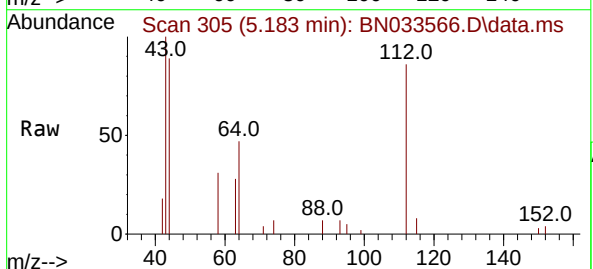
Manual Integrations
APPROVED

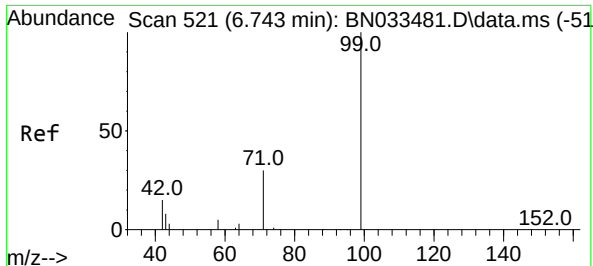
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.128 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

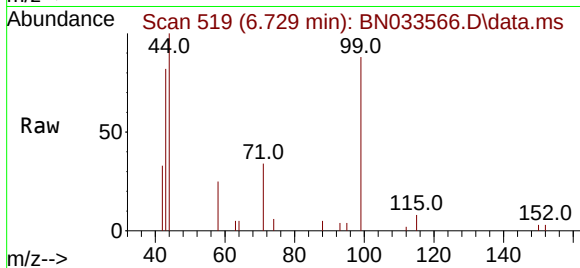
Tgt Ion:112 Resp: 2850
Ion Ratio Lower Upper
112 100
64 59.5 47.1 70.7
63 33.1 24.9 37.3





#5
Phenol-d6
Concen: 0.130 ng
RT: 6.729 min Scan# 519
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

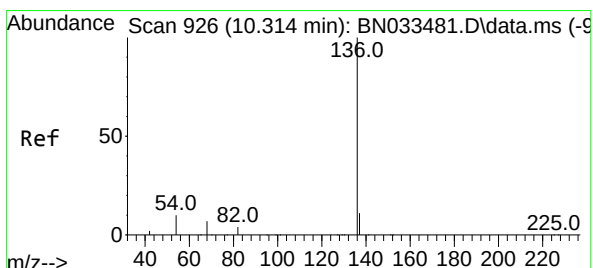
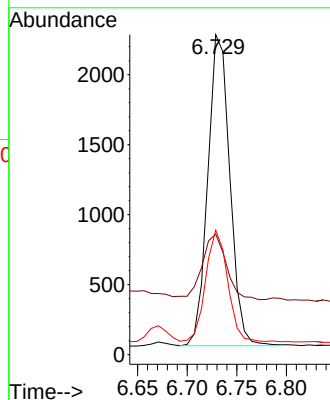
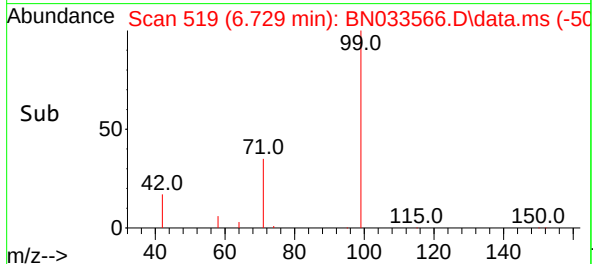
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0.5-1-081924



Tgt Ion: 99 Resp: 3430
Ion Ratio Lower Upper
99 100
42 23.0 16.6 24.8
71 35.7 26.2 39.4

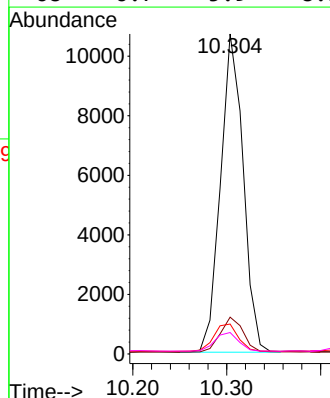
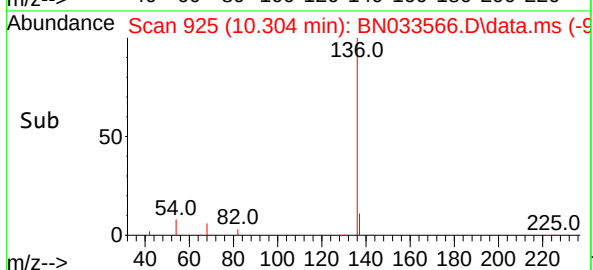
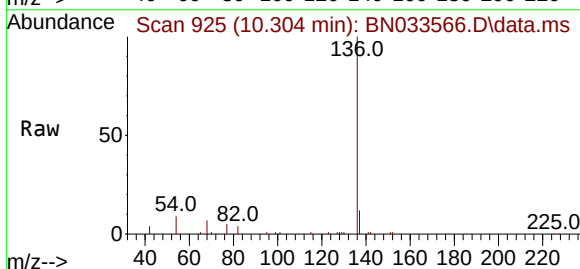
Manual Integrations
APPROVED

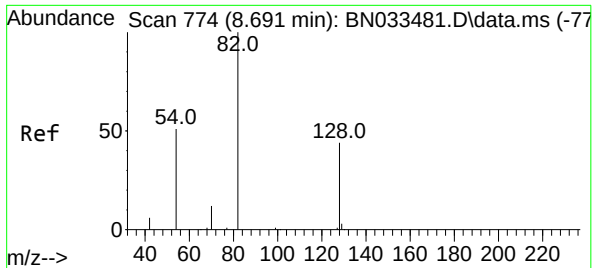
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

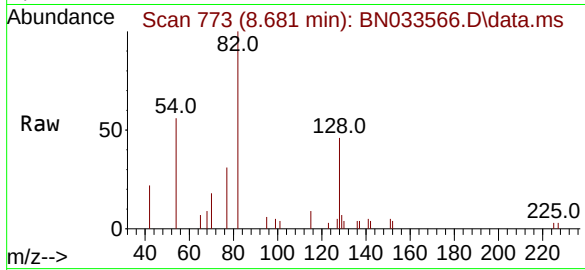
Tgt Ion:136 Resp: 17932
Ion Ratio Lower Upper
136 100
137 11.5 9.0 13.6
54 9.3 8.3 12.5
68 6.7 5.9 8.9





#8
Nitrobenzene-d5
Concen: 0.165 ng
RT: 8.681 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

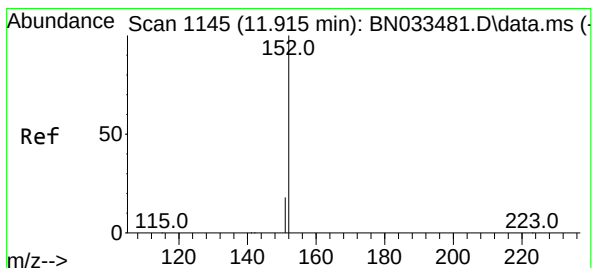
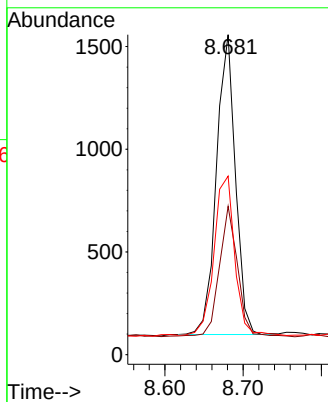
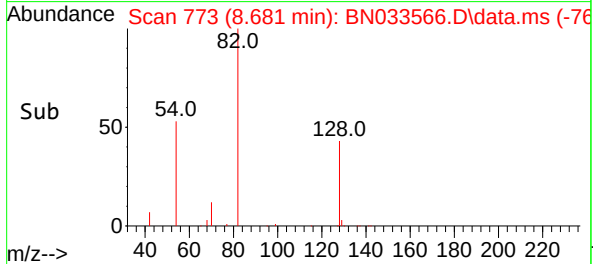
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0.5-1-081924



Tgt Ion: 82 Resp: 2450
Ion Ratio Lower Upper
82 100
128 46.3 36.0 54.0
54 55.8 42.0 63.0

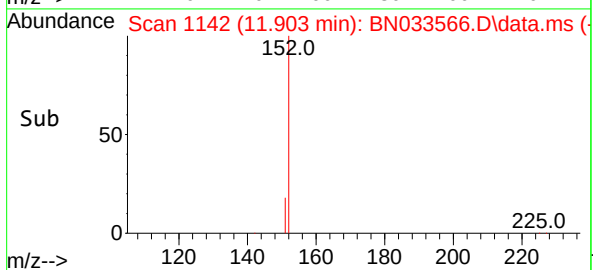
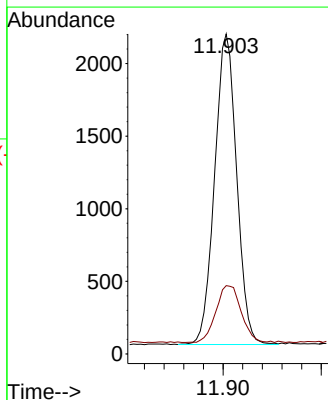
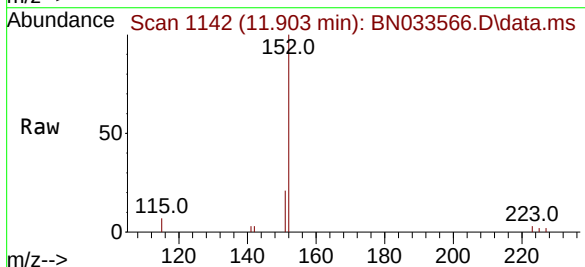
Manual Integrations
APPROVED

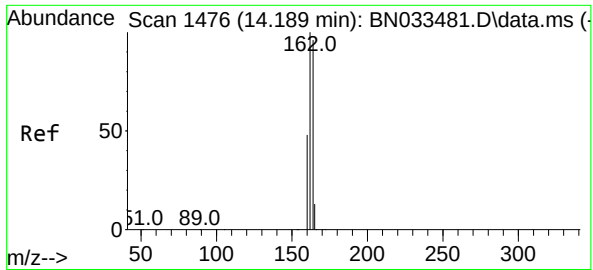
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#11
2-Methylnaphthalene-d10
Concen: 0.130 ng
RT: 11.903 min Scan# 1142
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

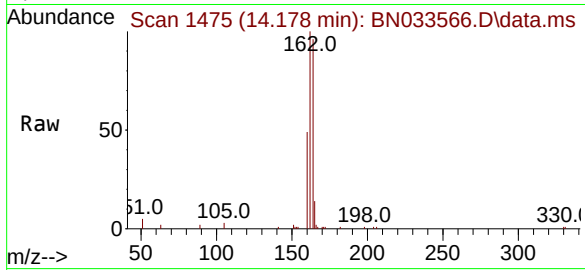
Tgt Ion:152 Resp: 3335
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1475
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

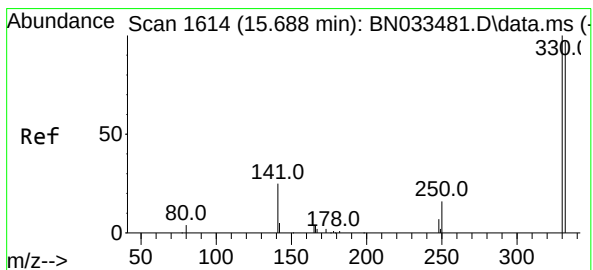
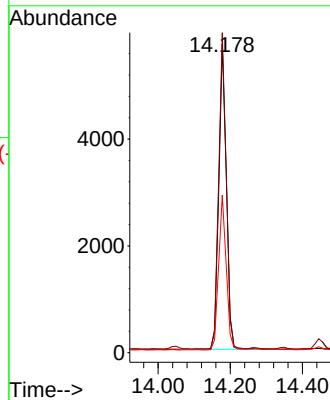
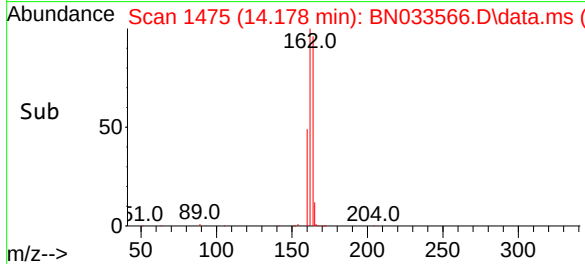
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0.5-1-081924



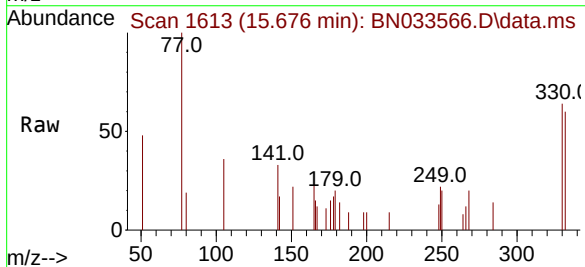
Tgt Ion:164 Resp: 8339
Ion Ratio Lower Upper
164 100
162 103.7 83.5 125.3
160 51.0 40.2 60.4

Manual Integrations
APPROVED

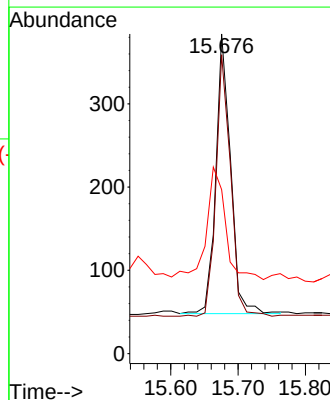
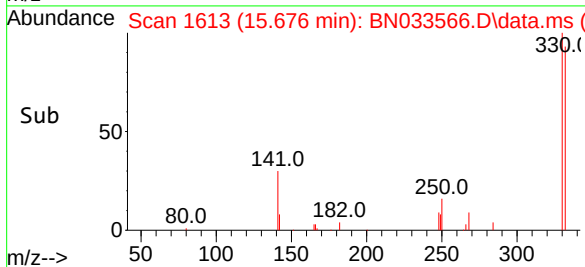
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

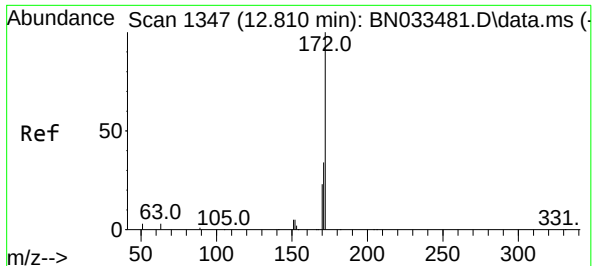


#14
2,4,6-Tribromophenol
Concen: 0.114 ng
RT: 15.676 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52



Tgt Ion:330 Resp: 510
Ion Ratio Lower Upper
330 100
332 92.4 77.5 116.3
141 52.2 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 0.132 ng

RT: 12.799 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033566.D

Acq: 22 Aug 2024 23:52

Instrument :

BNA_N

ClientSampleId :

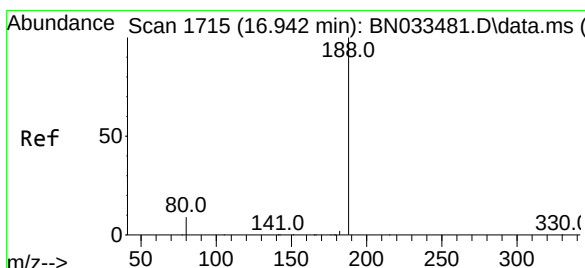
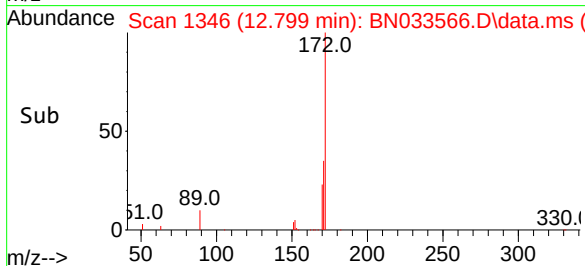
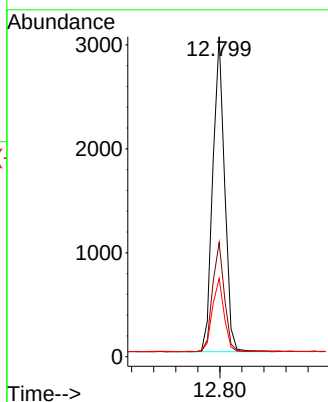
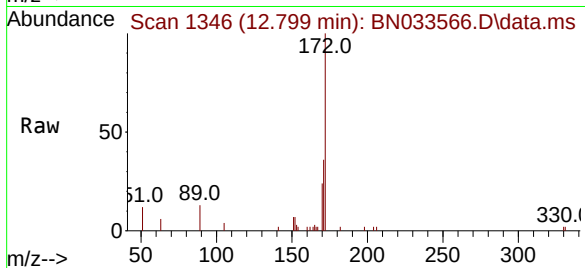
S-912-J-SO-0.5-1-081924

Tgt Ion:	172	Resp:	449
Ion	Ratio	Lower	Upper
172	100		
171	35.7	27.7	41.5
170	24.5	18.3	27.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#19

Phenanthrene-d10

Concen: 0.400 ng

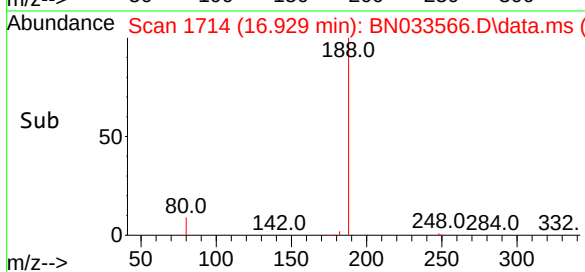
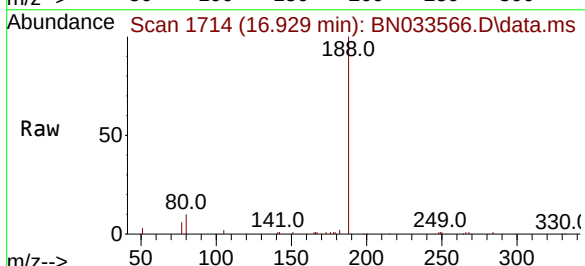
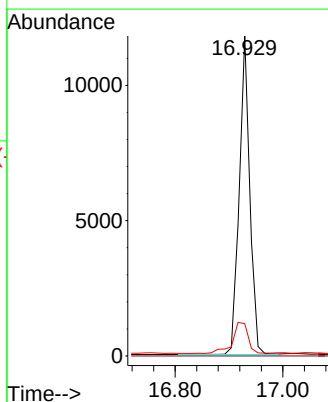
RT: 16.929 min Scan# 1714

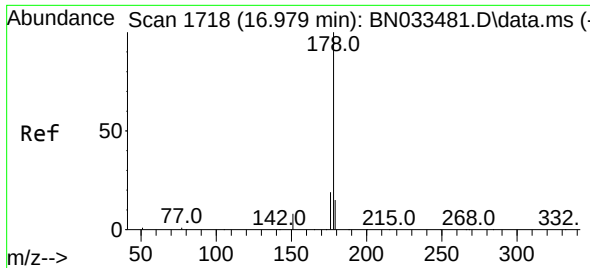
Delta R.T. -0.000 min

Lab File: BN033566.D

Acq: 22 Aug 2024 23:52

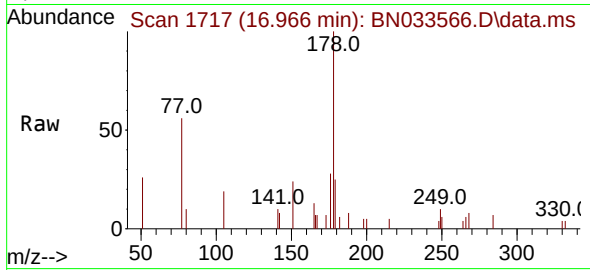
Tgt Ion:	188	Resp:	15941
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	7.8	11.8





#25
Phenanthrene
Concen: 0.035 ng m
RT: 16.966 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

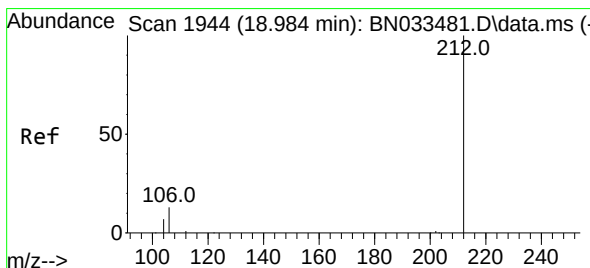
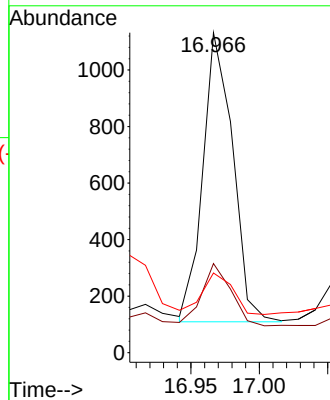
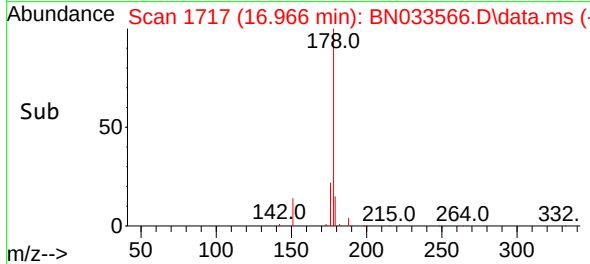
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0.5-1-081924



Tgt Ion:178 Resp: 155
Ion Ratio Lower Upper
178 100
176 20.9 15.3 22.9
179 14.4 12.3 18.5

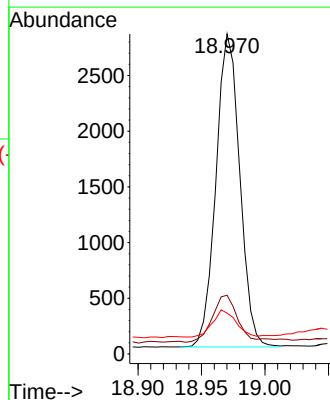
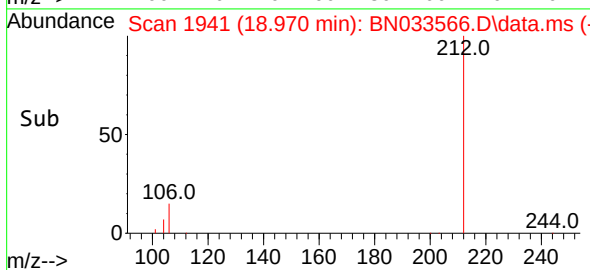
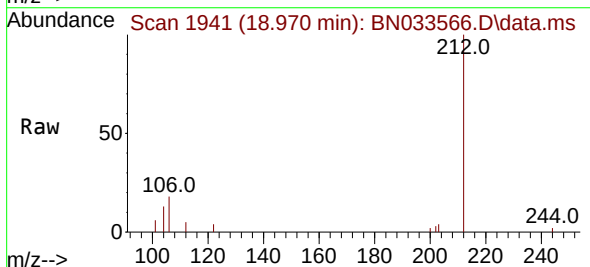
Manual Integrations
APPROVED

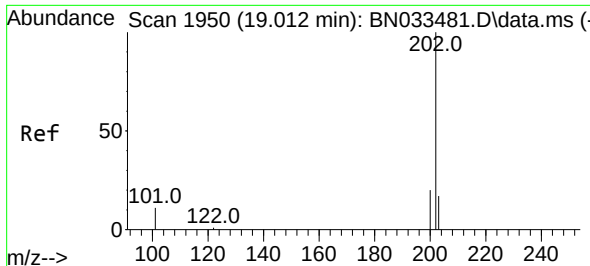
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#27
Fluoranthene-d10
Concen: 0.095 ng
RT: 18.970 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

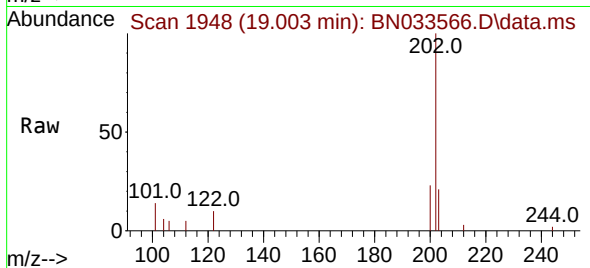
Tgt Ion:212 Resp: 3658
Ion Ratio Lower Upper
212 100
106 16.9 12.3 18.5
104 8.5 7.0 10.4





#28
Fluoranthene
Concen: 0.068 ng
RT: 19.003 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

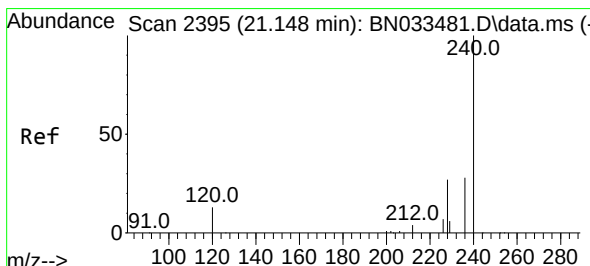
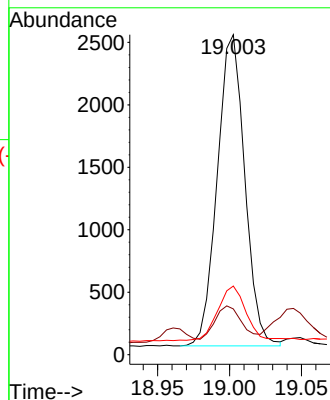
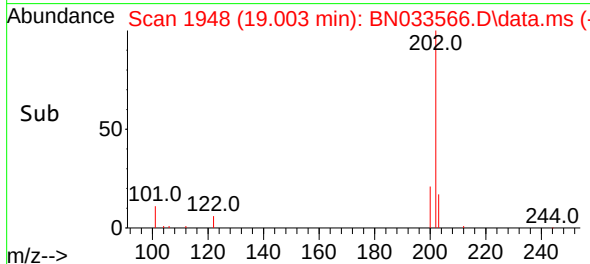
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0.5-1-081924



Tgt Ion:202 Resp: 331
Ion Ratio Lower Upper
202 100
101 11.0 9.5 14.3
203 19.2 13.8 20.6

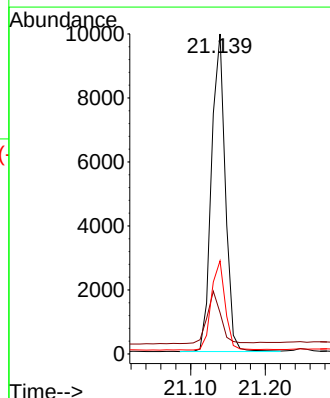
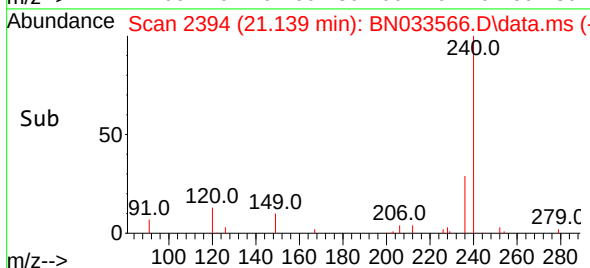
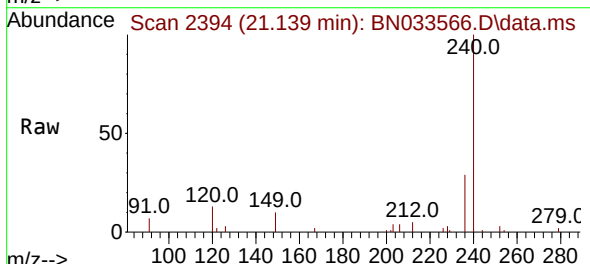
Manual Integrations
APPROVED

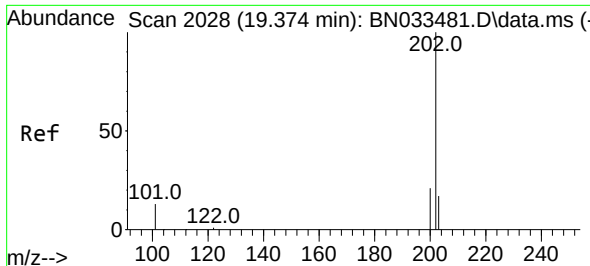
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

Tgt Ion:240 Resp: 12739
Ion Ratio Lower Upper
240 100
120 12.9 12.4 18.6
236 29.1 23.0 34.6





#30

Pyrene

Concen: 0.053 ng

RT: 19.365 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BN033566.D

Acq: 22 Aug 2024 23:52

Instrument :

BNA_N

ClientSampleId :

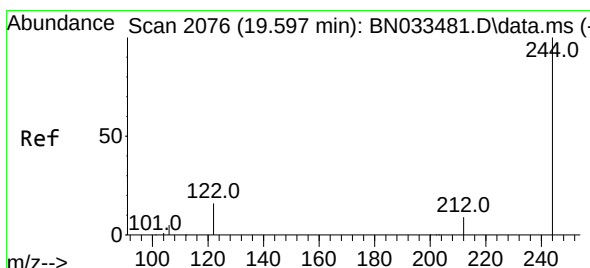
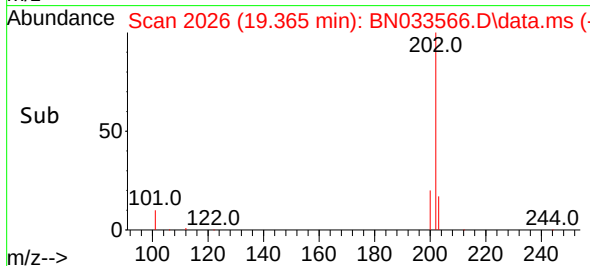
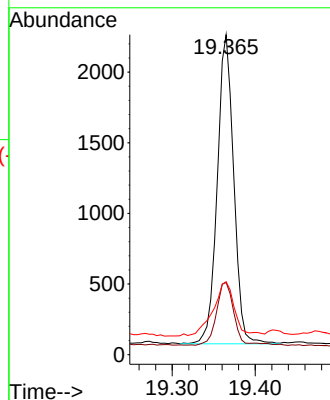
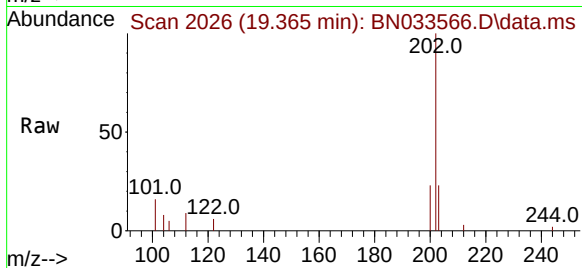
S-912-J-SO-0.5-1-081924

Tgt Ion:	202	Resp:	300
Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.6	24.8
203	23.2	14.2	21.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#31

Terphenyl-d14

Concen: 0.081 ng

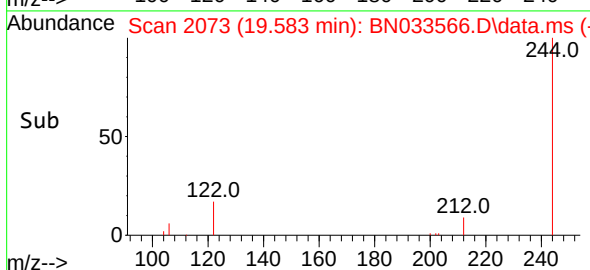
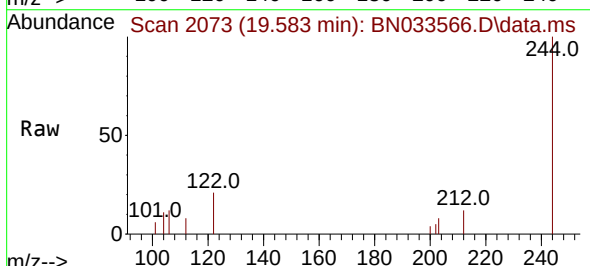
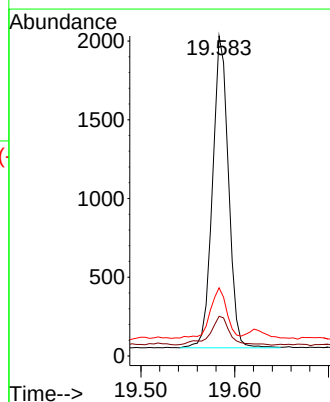
RT: 19.583 min Scan# 2073

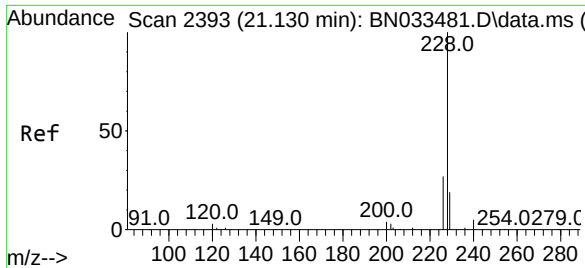
Delta R.T. -0.000 min

Lab File: BN033566.D

Acq: 22 Aug 2024 23:52

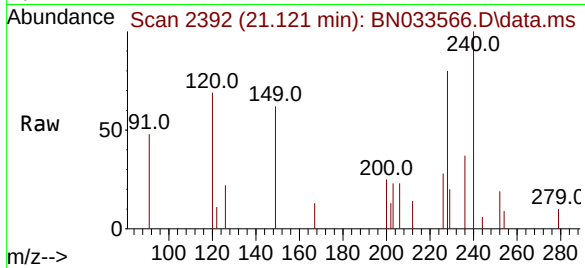
Tgt Ion:	244	Resp:	2336
Ion	Ratio	Lower	Upper
244	100		
212	12.4	7.8	11.6#
122	21.3	13.3	19.9#





#32
Benzo(a)anthracene
Concen: 0.034 ng
RT: 21.121 min Scan# 21121
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

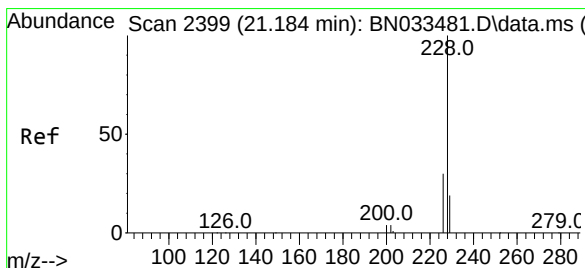
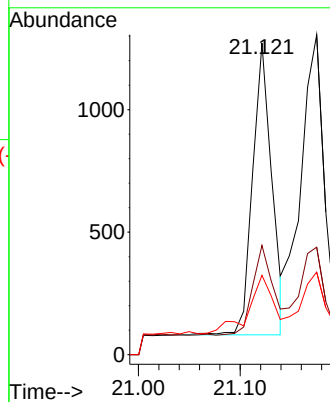
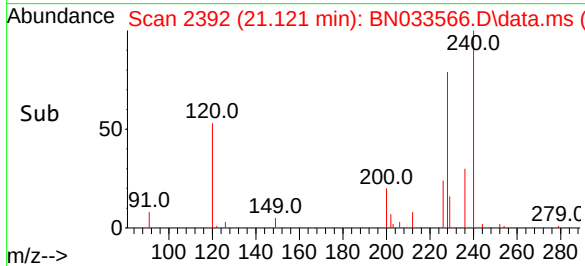
Instrument :
BNA_N
ClientSampleId :
S-912-J-SO-0.5-1-081924



Tgt Ion:228 Resp: 1564
Ion Ratio Lower Upper
228 100
226 35.1 21.8 32.6
229 25.5 15.8 23.6

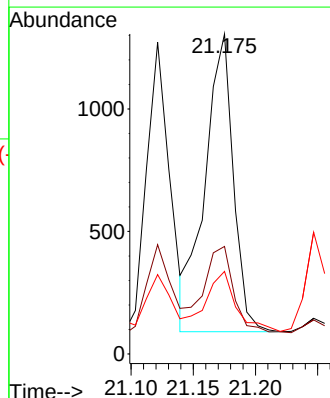
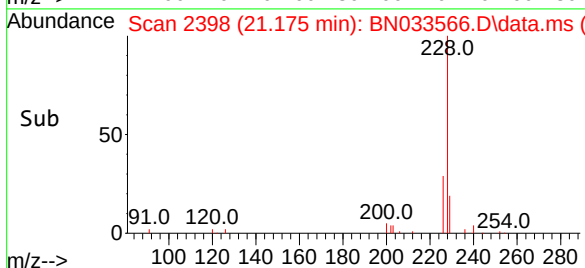
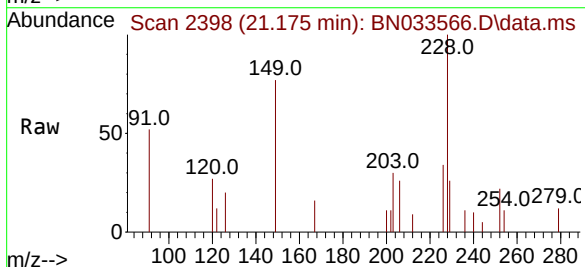
Manual Integrations
APPROVED

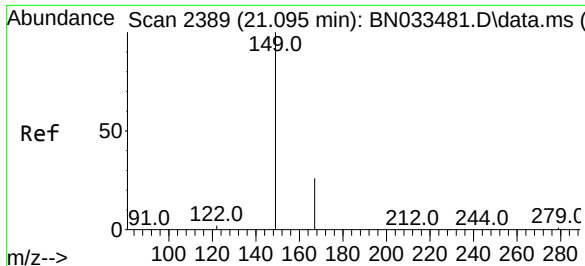
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#33
Chrysene
Concen: 0.042 ng
RT: 21.175 min Scan# 2398
Delta R.T. -0.000 min
Lab File: BN033566.D
Acq: 22 Aug 2024 23:52

Tgt Ion:228 Resp: 1927
Ion Ratio Lower Upper
228 100
226 33.6 23.8 35.8
229 25.8 15.6 23.4





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.058 ng m

RT: 21.085 min Scan# 2104

Delta R.T. -0.000 min

Lab File: BN033566.D

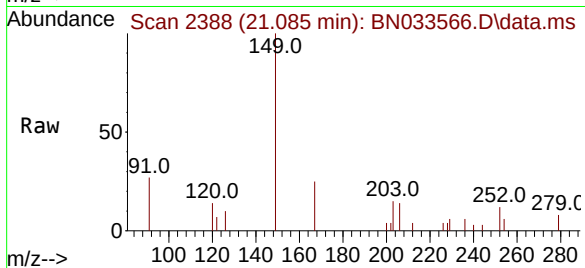
Acq: 22 Aug 2024 23:52

Instrument :

BNA_N

ClientSampleId :

S-912-J-SO-0.5-1-081924

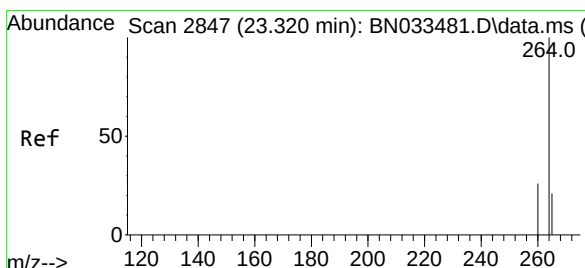
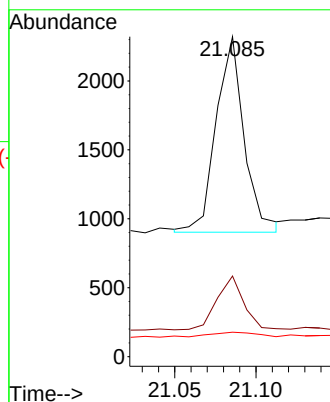
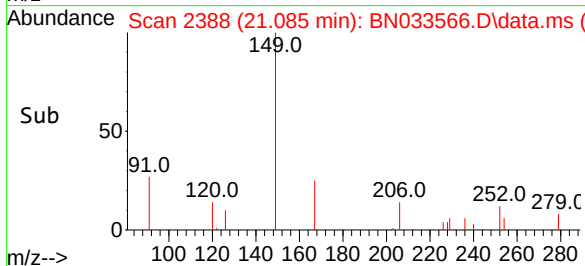


Tgt Ion:	149	Resp:	1704
Ion	Ratio	Lower	Upper
149	100		
167	108.2	21.5	32.3
279	60.2	2.2	3.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#35

Perylene-d12

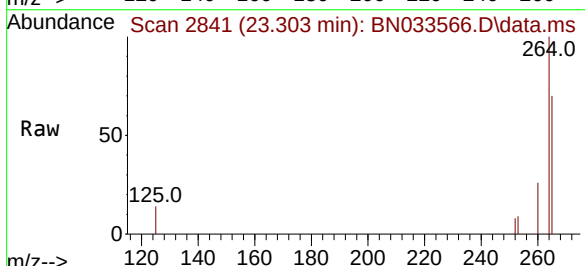
Concen: 0.400 ng

RT: 23.303 min Scan# 2841

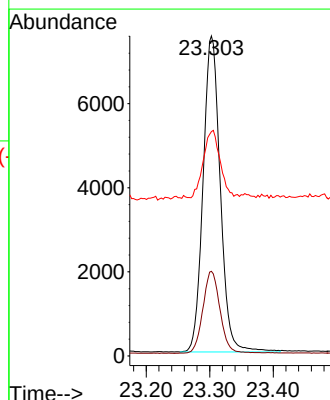
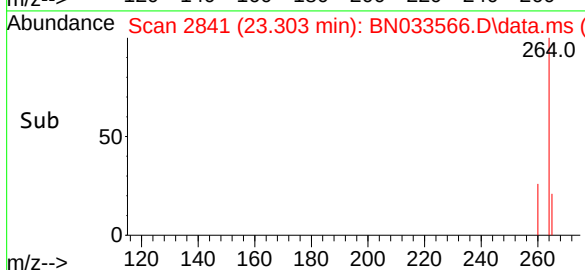
Delta R.T. -0.000 min

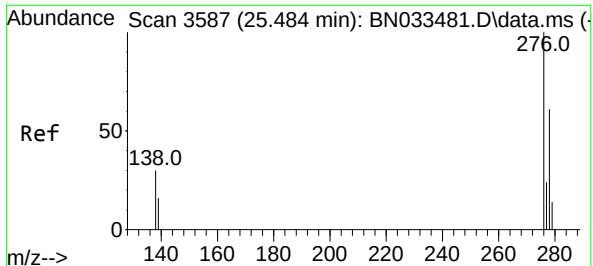
Lab File: BN033566.D

Acq: 22 Aug 2024 23:52



Tgt Ion:	264	Resp:	14091
Ion	Ratio	Lower	Upper
264	100		
260	26.4	20.8	31.2
265	70.1	52.2	78.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.021 ng

RT: 25.449 min Scan# 3575

Delta R.T. -0.000 min

Lab File: BN033566.D

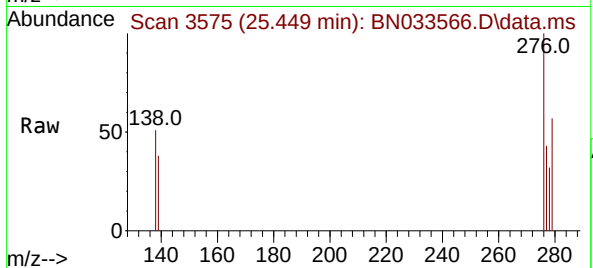
Acq: 22 Aug 2024 23:52

Instrument :

BNA_N

ClientSampleId :

S-912-J-SO-0.5-1-081924



Tgt Ion:276 Resp: 1204

Ion Ratio Lower Upper

276 100

138 28.7 24.4 36.6

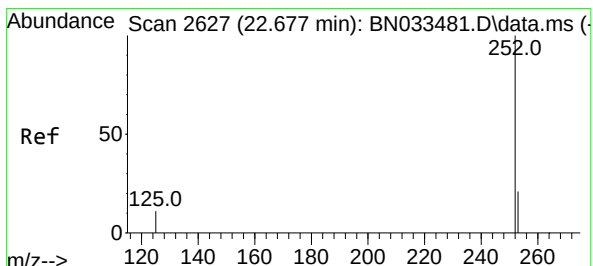
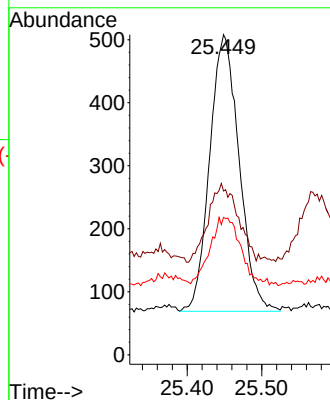
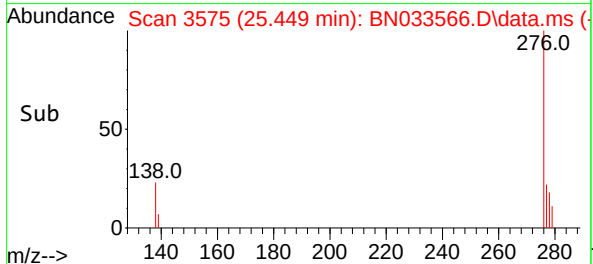
277 25.9 19.8 29.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#37

Benzo(b)fluoranthene

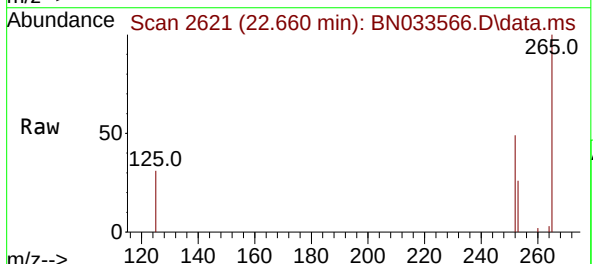
Concen: 0.052 ng

RT: 22.660 min Scan# 2621

Delta R.T. -0.000 min

Lab File: BN033566.D

Acq: 22 Aug 2024 23:52



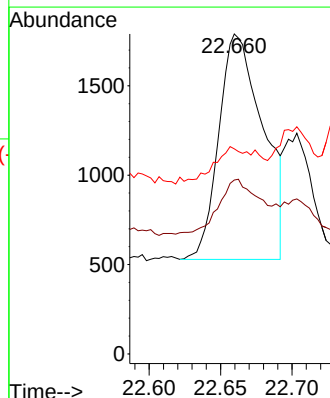
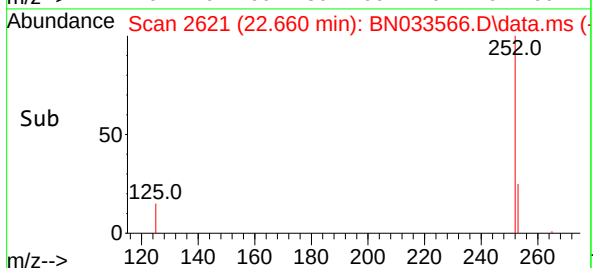
Tgt Ion:252 Resp: 2721

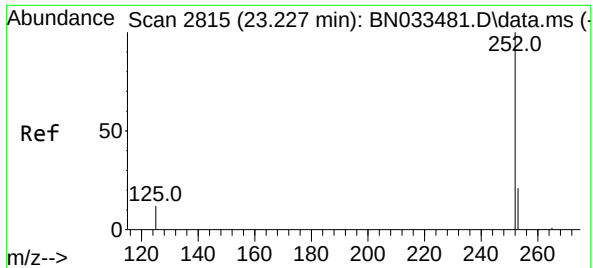
Ion Ratio Lower Upper

252 100

253 54.4 19.8 29.8#

125 64.1 13.9 20.9#





#39

Benzo(a)pyrene

Concen: 0.036 ng

RT: 23.206 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033566.D

Acq: 22 Aug 2024 23:52

Instrument :

BNA_N

ClientSampleId :

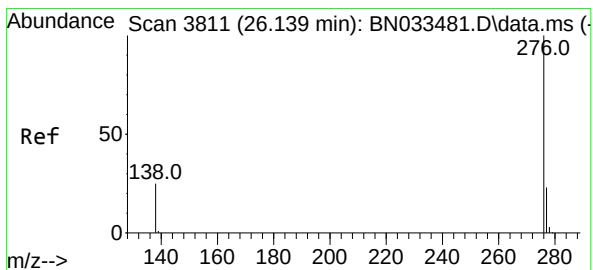
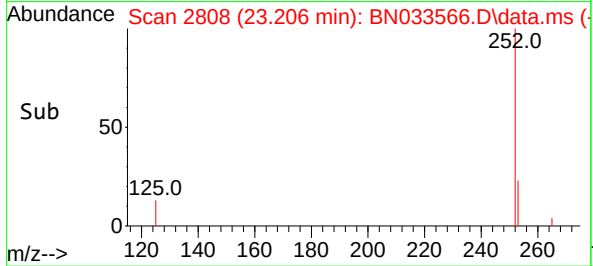
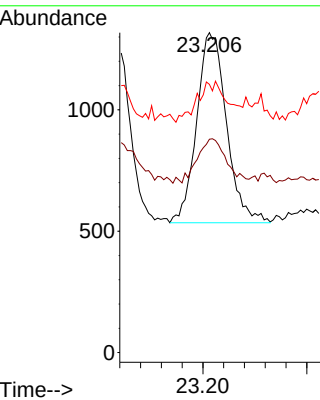
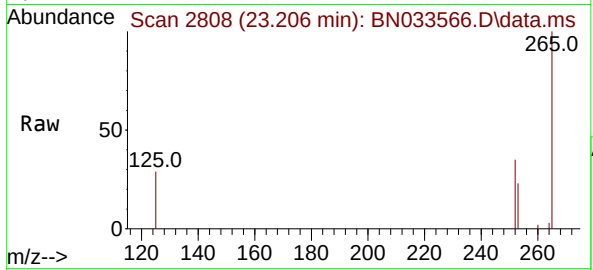
S-912-J-SO-0.5-1-081924

Tgt Ion:	252	Resp:	156
Ion Ratio	Lower	Upper	
252	100		
253	66.7	21.5	32.3
125	83.8	17.0	25.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#41

Benzo(g,h,i)perylene

Concen: 0.024 ng

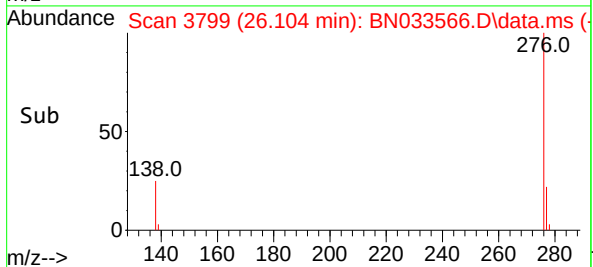
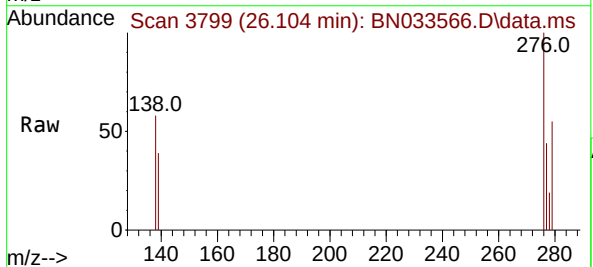
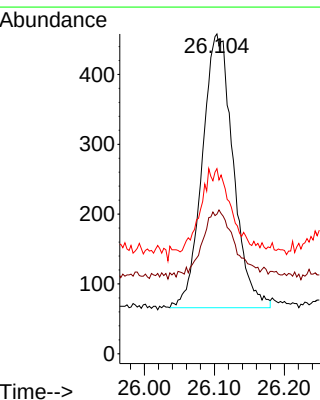
RT: 26.104 min Scan# 3799

Delta R.T. -0.000 min

Lab File: BN033566.D

Acq: 22 Aug 2024 23:52

Tgt Ion:	276	Resp:	1201
Ion Ratio	Lower	Upper	
276	100		
277	43.7	19.7	29.5
138	57.9	21.8	32.6





CALIBRATION SUMMARY

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

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN081924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 19 23:32:18 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN033479.D 0.2 =BN033480.D 0.4 =BN033481.D 0.8 =BN033482.D 1.6 =BN033483.D 3.2 =BN033484.D 5.0 =BN033485.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	0.523	0.513	0.329	0.524	0.488	0.452	0.393	0.460	16.21
3)	n-Nitrosodimet...	0.545	0.550	0.456	0.615	0.575	0.521	0.485	0.535	10.02
4) S	2-Fluorophenol	1.276	1.281	1.267	1.350	1.327	1.196	1.202	1.271	4.52
5) S	Phenol-d6	1.555	1.576	1.360	1.677	1.598	1.464	1.357	1.512	8.10
6)	bis(2-Chloroet...	1.170	1.144	0.753	1.227	1.166	1.067	0.980	1.072	15.13
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.341	0.324	0.303	0.352	0.345	0.322	0.334	0.332	4.96
9)	Naphthalene	1.082	1.068	0.947	1.155	1.127	1.042	1.062	1.069	6.23
10)	Hexachlorobuta...	0.217	0.213	0.192	0.230	0.225	0.207	0.209	0.213	5.86
11) SURR2	Methylnaphth...	0.577	0.566	0.492	0.616	0.603	0.566	0.585	0.572	6.97
12)	2-Methylnaphth...	0.665	0.667	0.586	0.732	0.716	0.678	0.693	0.677	6.98
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.212	0.202	0.185	0.220	0.226	0.223	0.237	0.215	8.02
15) S	2-Fluorobiphenyl	1.627	1.601	1.487	1.761	1.731	1.609	1.621	1.634	5.52
16)	Acenaphthylene	1.626	1.609	1.535	1.870	1.893	1.837	1.911	1.754	9.00
17)	Acenaphthene	1.185	1.177	1.104	1.325	1.322	1.249	1.277	1.234	6.67
18)	Fluorene	1.558	1.483	1.381	1.667	1.647	1.567	1.584	1.555	6.30
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.051	0.051	0.051	0.064	0.069	0.072	0.079	0.062	18.77
21)	4-Bromophenyl-...	0.241	0.231	0.222	0.255	0.255	0.246	0.250	0.243	5.16
22)	Hexachlorobenzene	0.271	0.260	0.249	0.281	0.280	0.266	0.271	0.268	4.22
23)	Atrazine	0.188	0.184	0.173	0.201	0.203	0.198	0.210	0.194	6.52
24)	Pentachlorophenol	0.114	0.098	0.097	0.118	0.122	0.128	0.137	0.116	12.80
25)	Phenanthrene	1.093	1.067	1.033	1.177	1.168	1.113	1.139	1.113	4.73
26)	Anthracene	0.931	0.912	0.876	1.035	1.046	1.035	1.057	0.985	7.65
27) SURR	Fluoranthene-d10	0.947	0.919	0.870	1.011	1.015	0.968	1.000	0.961	5.55
28)	Fluoranthene	1.178	1.153	1.106	1.303	1.313	1.266	1.288	1.230	6.71
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.756	1.763	1.704	1.901	1.855	1.751	1.767	1.785	3.82
31) S	Terphenyl-d14	0.907	0.896	0.862	0.966	0.943	0.890	0.900	0.909	3.80
32)	Benzo(a)anthra...	1.485	1.369	1.317	1.525	1.529	1.426	1.472	1.446	5.53
33)	Chrysene	1.435	1.392	1.331	1.557	1.514	1.403	1.430	1.437	5.30
34)	Bis(2-ethylhex...	1.206	0.914	0.814	0.870	0.869	0.845	0.889	0.915	14.43
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN081924.M

36)	Indeno(1,2,3-c...	1.616	1.580	1.535	1.779	1.759	1.661	1.694	1.661	5.45
37)	Benzo(b)fluora...	1.524	1.432	1.336	1.578	1.573	1.480	1.533	1.494	5.78
38)	Benzo(k)fluora...	1.439	1.393	1.324	1.556	1.576	1.492	1.512	1.470	6.14
39) C	Benzo(a)pyrene	1.228	1.162	1.096	1.309	1.317	1.251	1.290	1.236	6.63
40)	Dibenzo(a,h)an...	1.283	1.264	1.231	1.426	1.410	1.329	1.352	1.328	5.56
41)	Benzo(g,h,i)pe...	1.399	1.372	1.296	1.518	1.506	1.413	1.436	1.420	5.42

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033479.D
Acq On : 19 Aug 2024 16:16
Operator : MA/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Aug 19 23:22:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

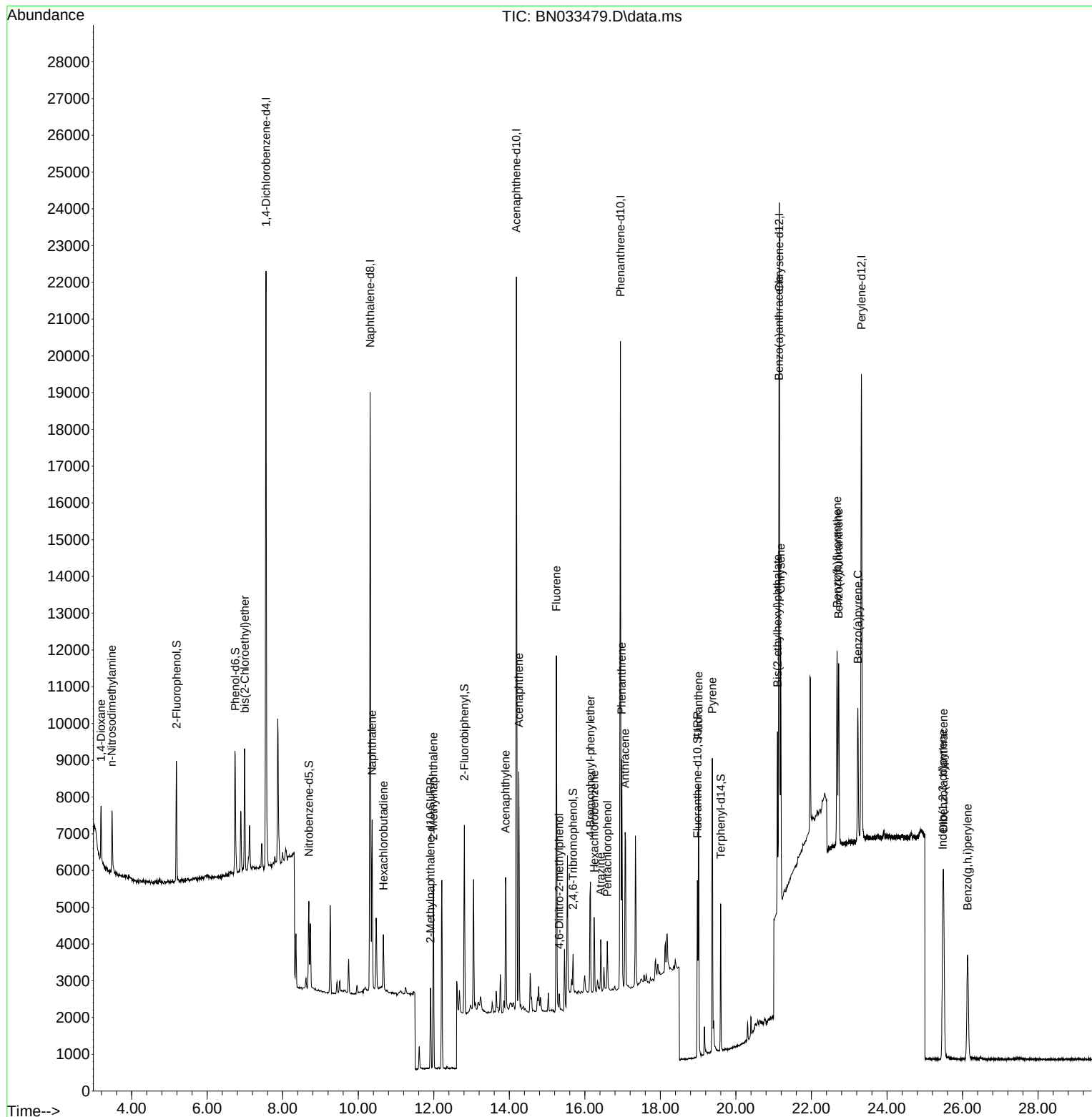
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	7803	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	20827	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	10562	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	22120	0.400	ng	0.00
29) Chrysene-d12	21.148	240	15512	0.400	ng	0.00
35) Perylene-d12	23.323	264	15840	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	2489	0.113	ng	0.00
5) Phenol-d6	6.743	99	3034	0.106	ng	0.00
8) Nitrobenzene-d5	8.691	82	1778	0.113	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	3002	0.096	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	561	0.104	ng	0.00
15) 2-Fluorobiphenyl	12.809	172	4295	0.100	ng	0.00
27) Fluoranthene-d10	18.984	212	5237	0.090	ng	0.00
31) Terphenyl-d14	19.597	244	3516	0.118	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.190	88	1020	0.121	ng	# 89
3) n-Nitrosodimethylamine	3.479	42	1063	0.098	ng	# 97
6) bis(2-Chloroethyl)ether	6.996	93	2282	0.102	ng	99
9) Naphthalene	10.368	128	5632	0.100	ng	97
10) Hexachlorobutadiene	10.667	225	1131	0.104	ng	# 100
12) 2-Methylnaphthalene	11.990	142	3460	0.091	ng	97
16) Acenaphthylene	13.900	152	4294	0.088	ng	100
17) Acenaphthene	14.253	154	3128	0.094	ng	99
18) Fluorene	15.247	166	4115	0.094	ng	97
20) 4,6-Dinitro-2-methylph...	15.322	198	282	0.102	ng	# 1
21) 4-Bromophenyl-phenylether	16.147	248	1335	0.101	ng	96
22) Hexachlorobenzene	16.247	284	1497	0.102	ng	100
23) Atrazine	16.420	200	1042	0.099	ng	95
24) Pentachlorophenol	16.594	266	633	0.105	ng	94
25) Phenanthrene	16.979	178	6046	0.096	ng	99
26) Anthracene	17.066	178	5150	0.092	ng	100
28) Fluoranthene	19.012	202	6515	0.085	ng	97
30) Pyrene	19.374	202	6809	0.109	ng	98
32) Benzo(a)anthracene	21.139	228	5757	0.100	ng	98
33) Chrysene	21.184	228	5565	0.097	ng	97
34) Bis(2-ethylhexyl)phtha...	21.103	149	4678	0.170	ng	97
36) Indeno(1,2,3-cd)pyrene	25.478	276	6399	0.097	ng	99
37) Benzo(b)fluoranthene	22.680	252	6036	0.102	ng	# 69
38) Benzo(k)fluoranthene	22.721	252	5699	0.095	ng	# 70
39) Benzo(a)pyrene	23.230	252	4861	0.097	ng	# 66
40) Dibenzo(a,h)anthracene	25.498	278	5079	0.098	ng	# 85
41) Benzo(g,h,i)perylene	26.133	276	5542	0.097	ng	# 88

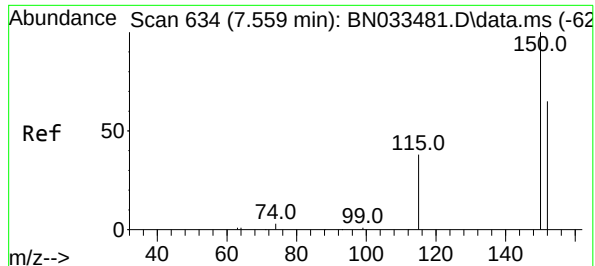
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033479.D
Acq On : 19 Aug 2024 16:16
Operator : MA/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Aug 19 23:22:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

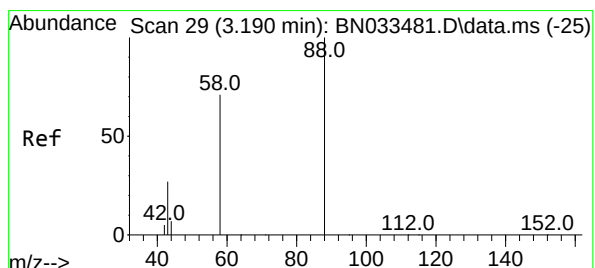
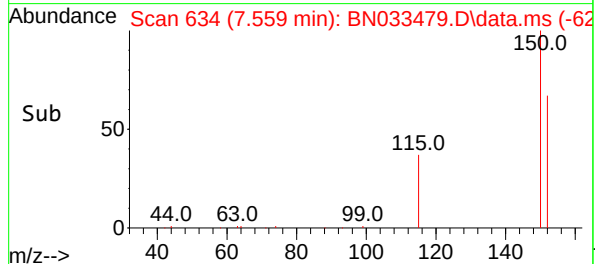
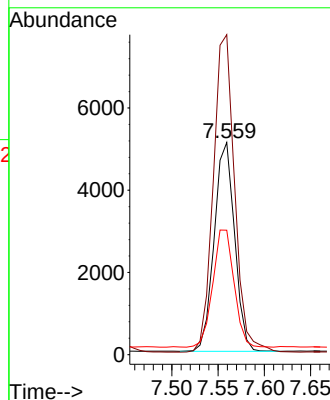
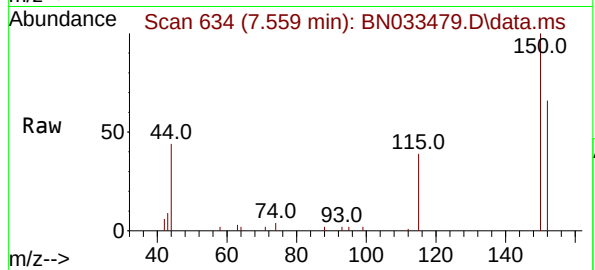




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

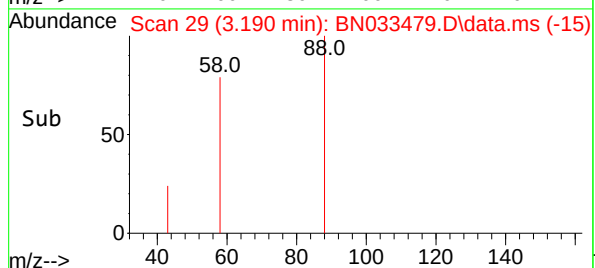
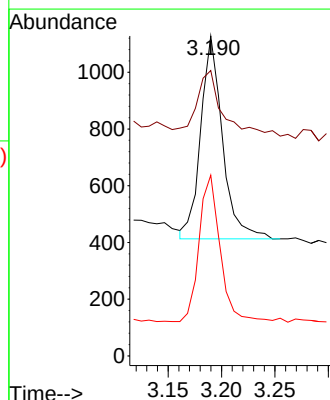
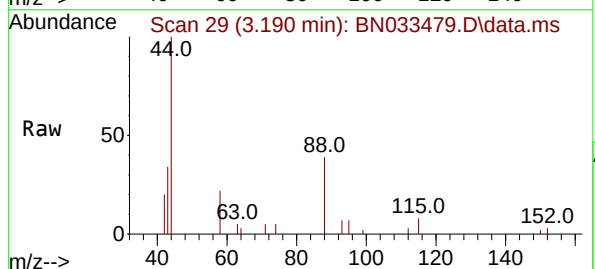
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

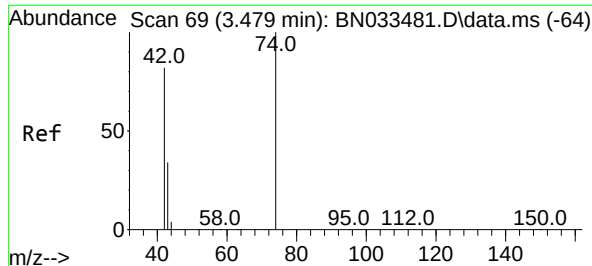
Tgt Ion:152 Resp: 7803
Ion Ratio Lower Upper
152 100
150 150.8 122.2 183.2
115 58.6 47.2 70.8



#2
1,4-Dioxane
Concen: 0.121 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion: 88 Resp: 1020
Ion Ratio Lower Upper
88 100
43 38.9 25.0 37.4#
58 69.0 62.5 93.7

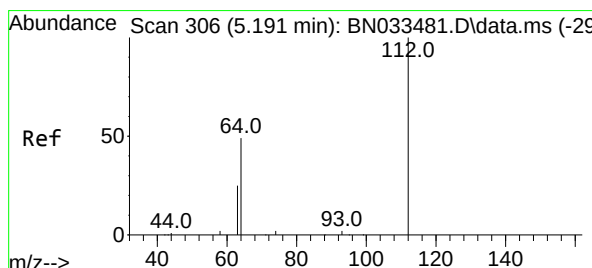
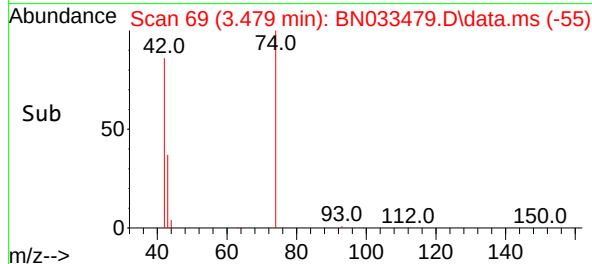
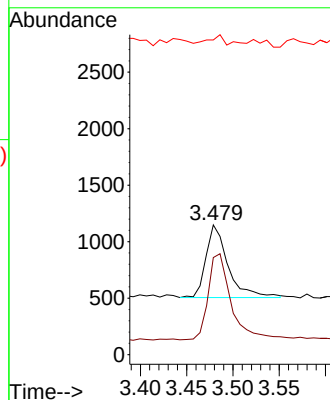
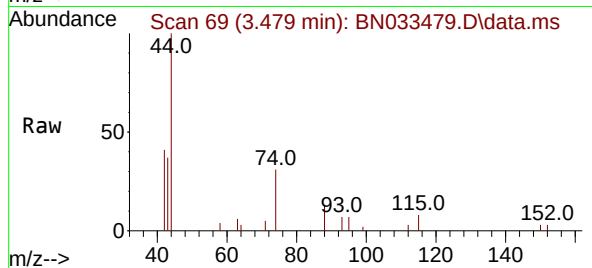




#3
n-Nitrosodimethylamine
Concen: 0.098 ng
RT: 3.479 min Scan# 69
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

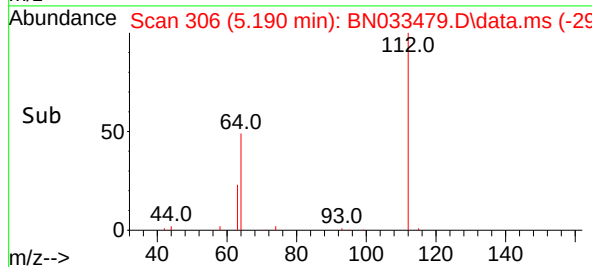
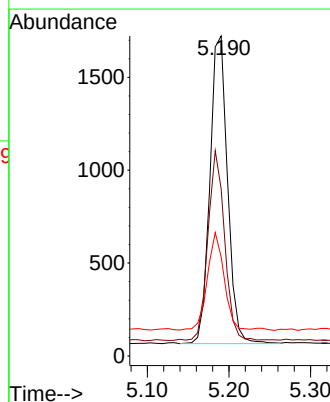
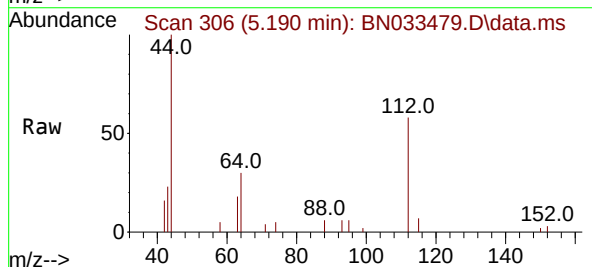
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

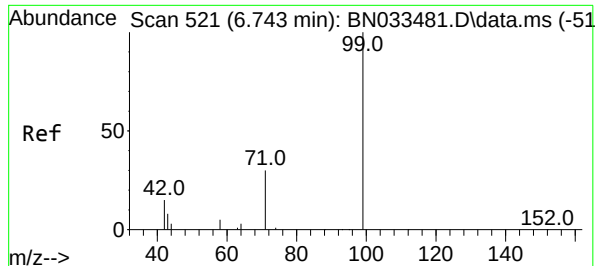
Tgt Ion: 42 Resp: 1063
Ion Ratio Lower Upper
42 100
74 123.1 100.2 150.2
44 14.2 5.3 7.9#



#4
2-Fluorophenol
Concen: 0.113 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion: 112 Resp: 2489
Ion Ratio Lower Upper
112 100
64 58.5 47.1 70.7
63 29.9 24.9 37.3

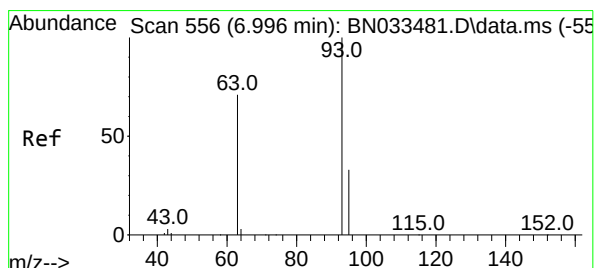
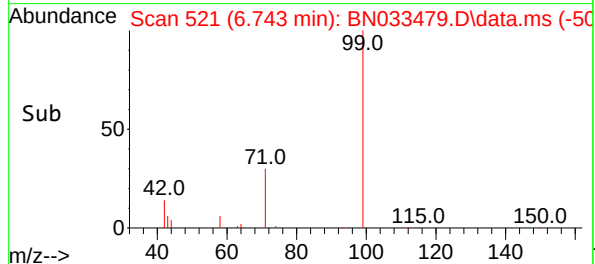
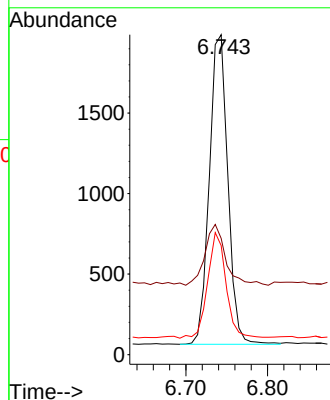
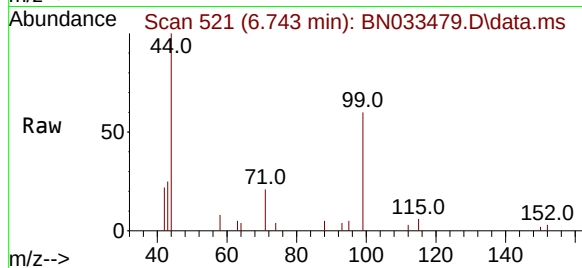




#5
Phenol-d6
Concen: 0.106 ng
RT: 6.743 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

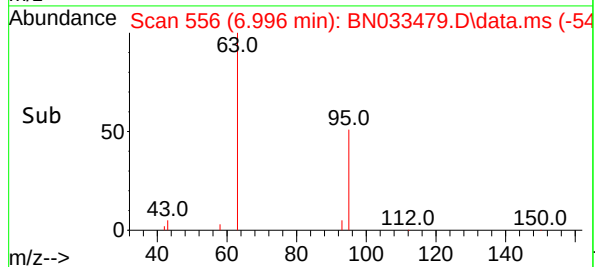
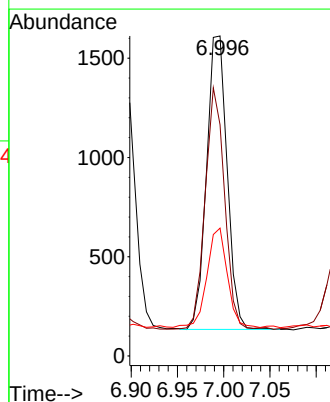
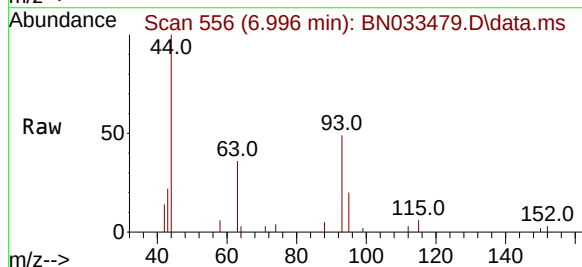
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

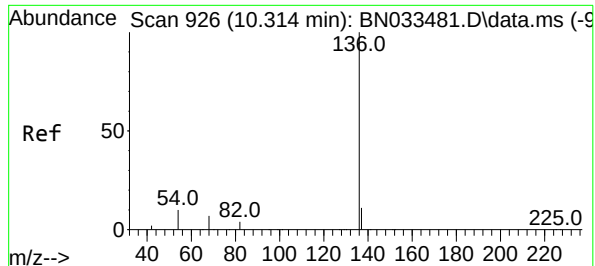
Tgt Ion: 99 Resp: 3034
Ion Ratio Lower Upper
99 100
42 21.8 16.6 24.8
71 34.0 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 6.996 min Scan# 556
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion: 93 Resp: 2282
Ion Ratio Lower Upper
93 100
63 78.0 63.0 94.4
95 33.4 26.0 39.0

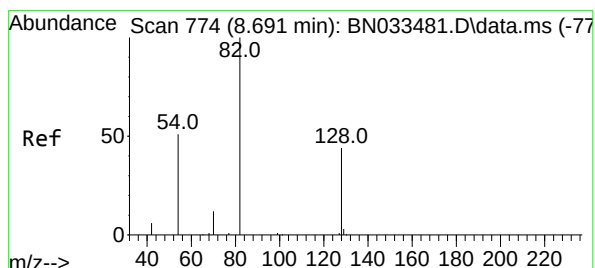
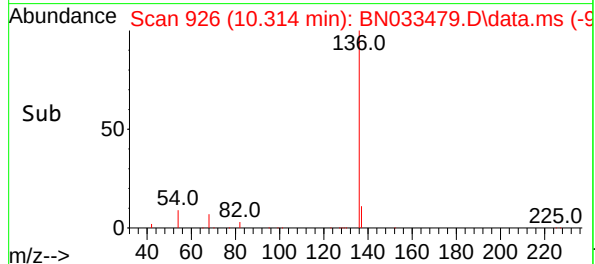
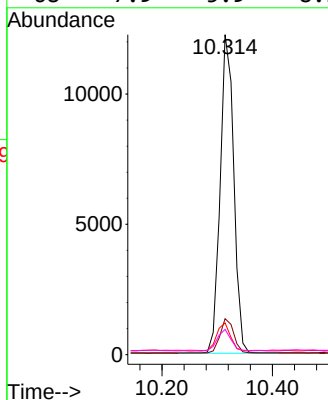
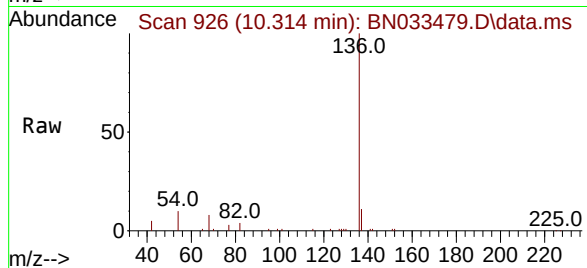




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

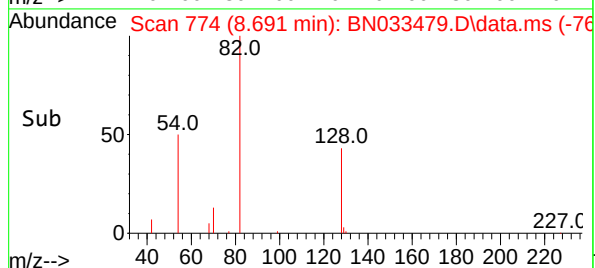
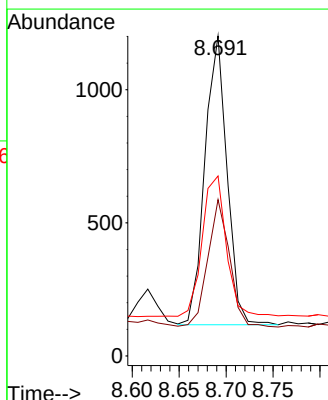
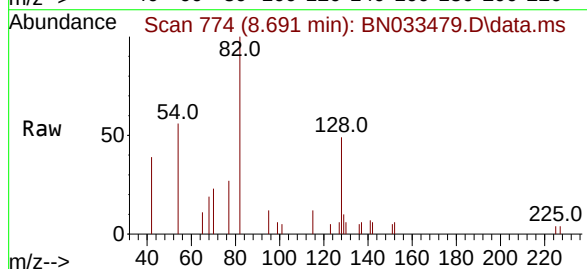
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

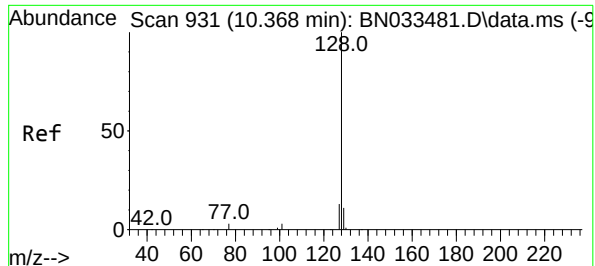
Tgt Ion:	136	Resp:	20827
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	10.0	8.3	12.5
68	7.9	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.113 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:	82	Resp:	1778
Ion	Ratio	Lower	Upper
82	100		
128	48.8	36.0	54.0
54	56.2	42.0	63.0

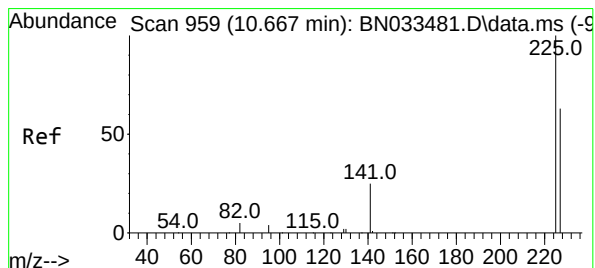
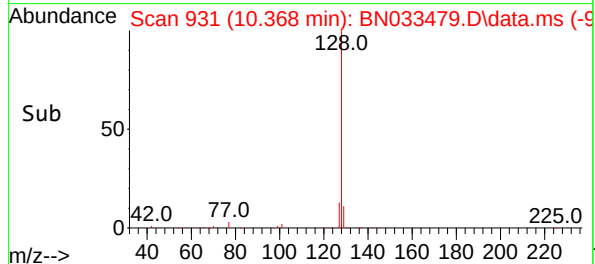
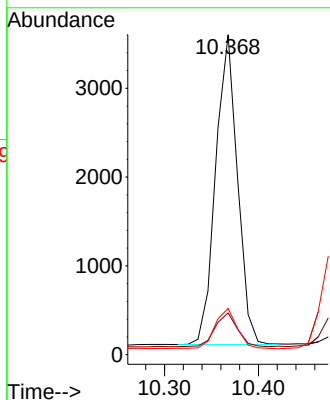
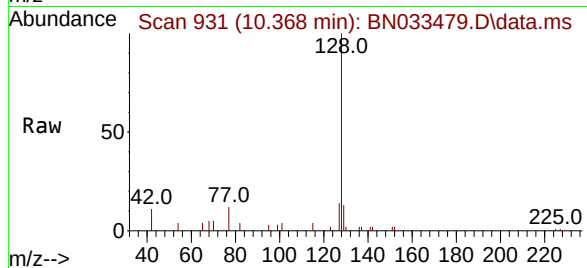




#9
Naphthalene
Concen: 0.100 ng
RT: 10.368 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

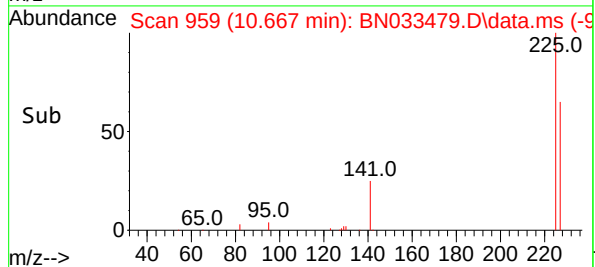
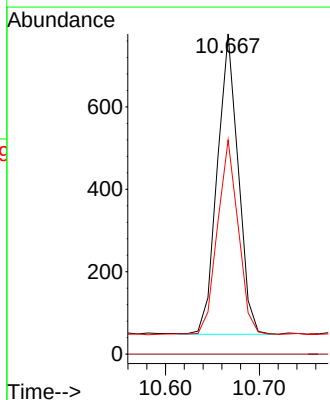
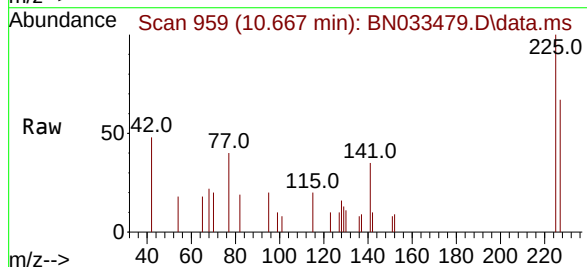
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

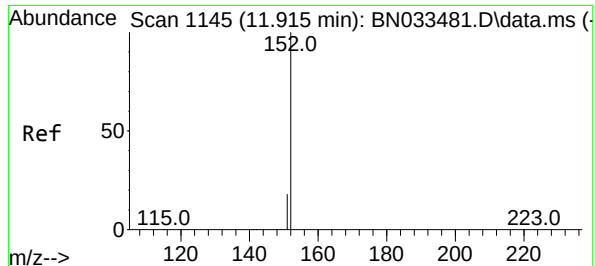
Tgt Ion:128 Resp: 5632
Ion Ratio Lower Upper
128 100
129 13.1 9.1 13.7
127 14.5 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.104 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:225 Resp: 1131
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.2 76.8

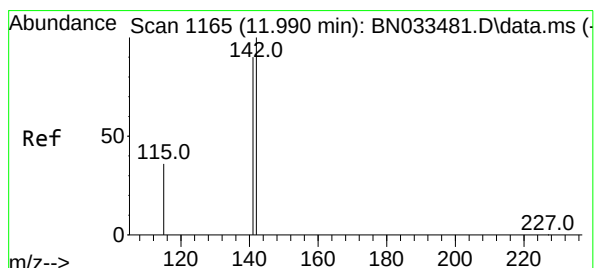
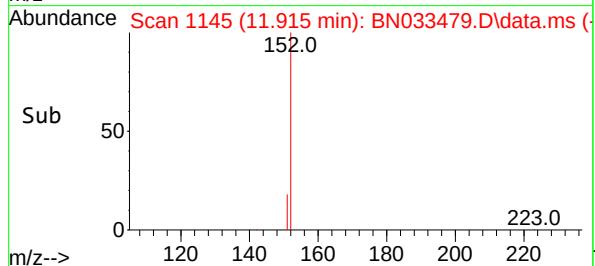
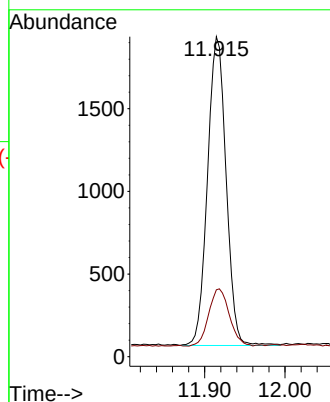
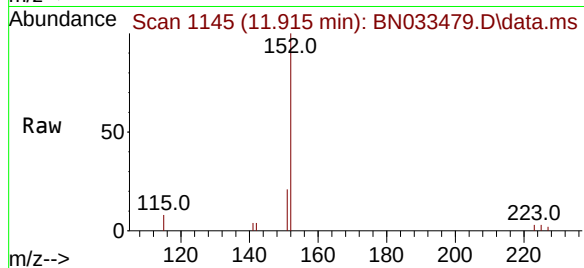




#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 11.915 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

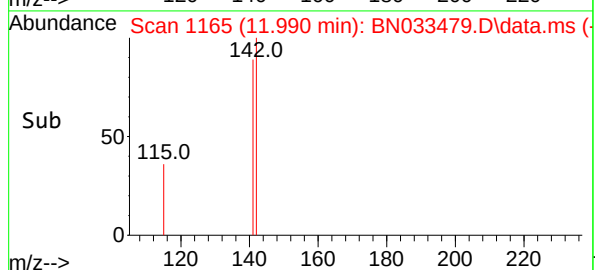
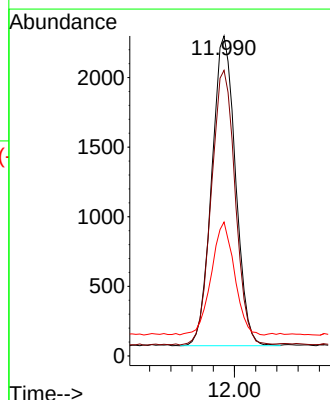
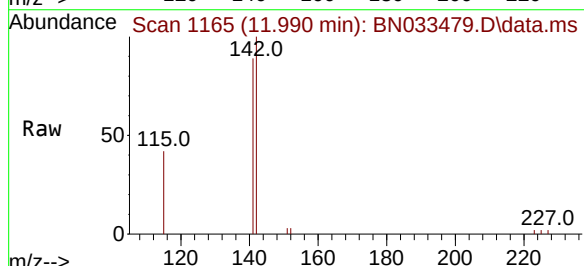
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

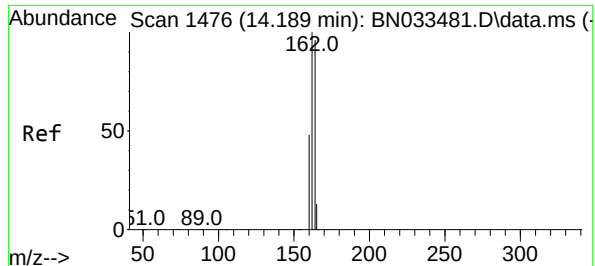
Tgt Ion:152 Resp: 3002
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.091 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:142 Resp: 3460
Ion Ratio Lower Upper
142 100
141 89.3 71.7 107.5
115 41.8 29.4 44.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.189 min Scan# 1476

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

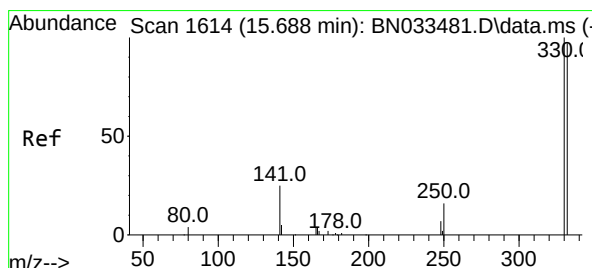
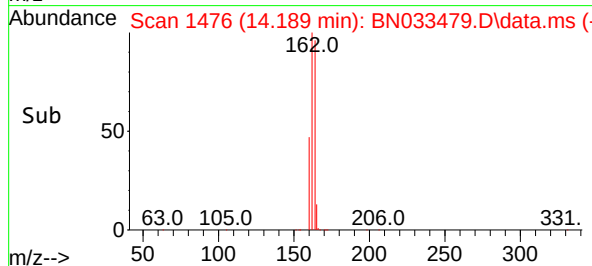
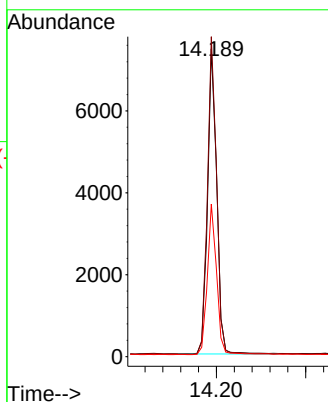
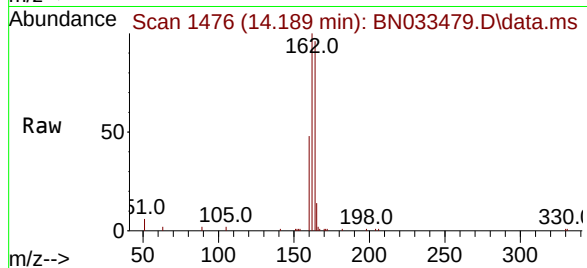
Tgt Ion:164 Resp: 10562

Ion Ratio Lower Upper

164 100

162 103.9 83.5 125.3

160 49.6 40.2 60.4



#14

2,4,6-Tribromophenol

Concen: 0.104 ng

RT: 15.688 min Scan# 1614

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

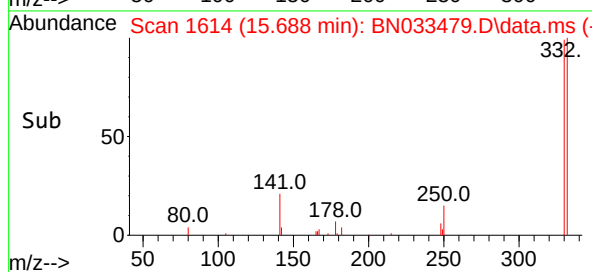
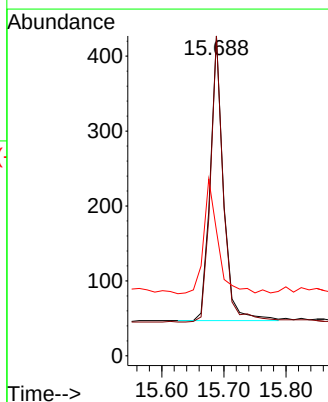
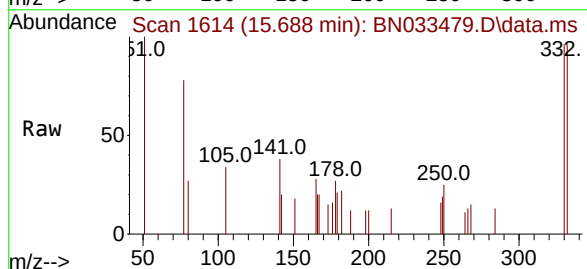
Tgt Ion:330 Resp: 561

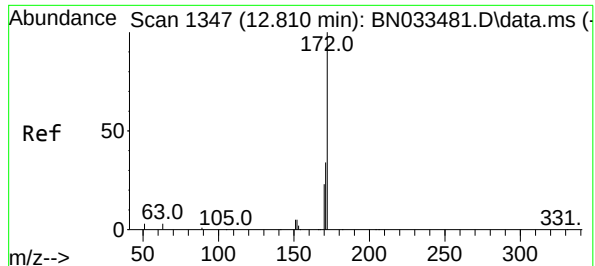
Ion Ratio Lower Upper

330 100

332 99.1 77.5 116.3

141 43.9 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 0.100 ng

RT: 12.809 min Scan# 1448

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

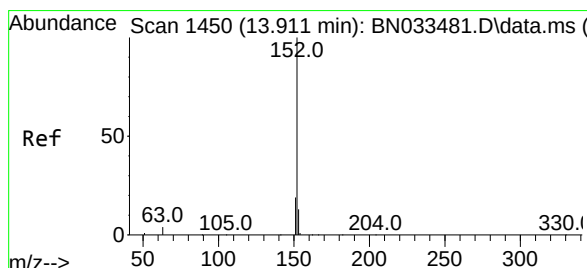
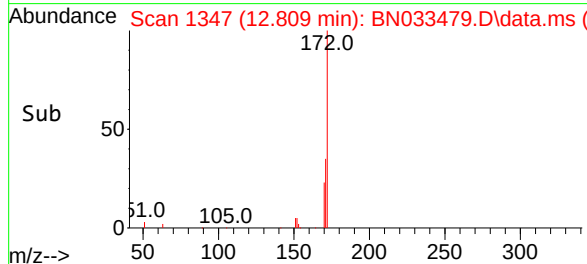
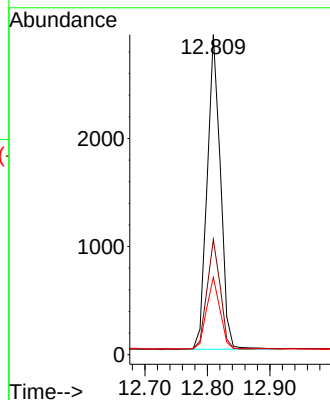
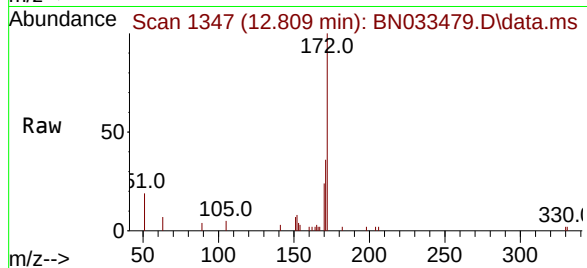
Tgt Ion:172 Resp: 4295

Ion Ratio Lower Upper

172 100

171 36.0 27.7 41.5

170 24.2 18.3 27.5



#16

Acenaphthylene

Concen: 0.088 ng

RT: 13.900 min Scan# 1449

Delta R.T. -0.011 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

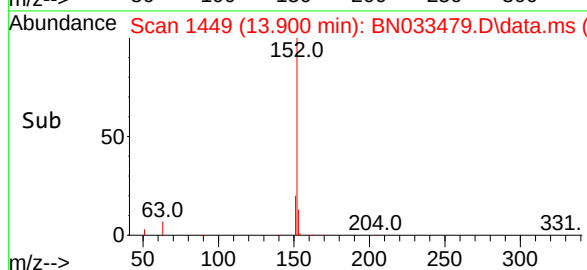
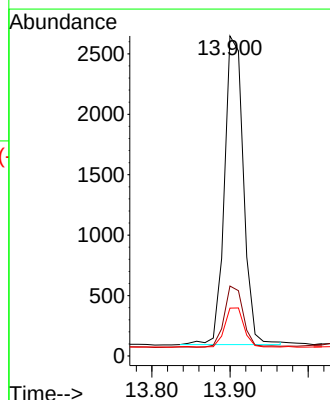
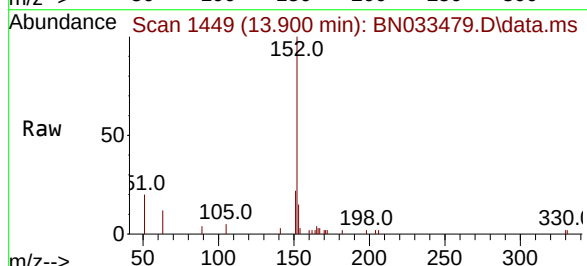
Tgt Ion:152 Resp: 4294

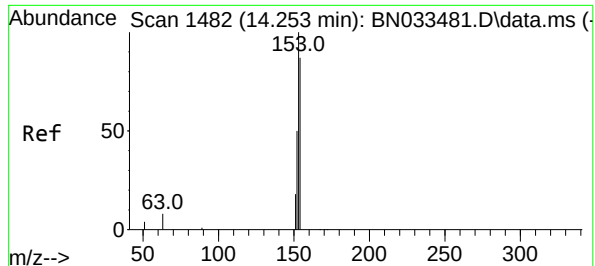
Ion Ratio Lower Upper

152 100

151 19.9 15.7 23.5

153 12.8 10.3 15.5





#17

Acenaphthene

Concen: 0.094 ng

RT: 14.253 min Scan# 1482

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

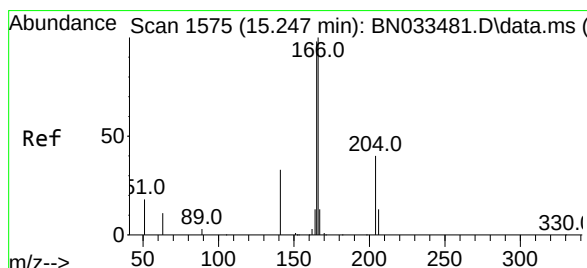
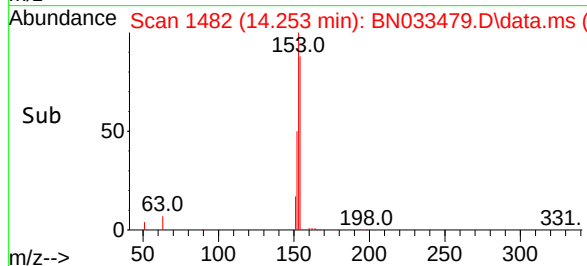
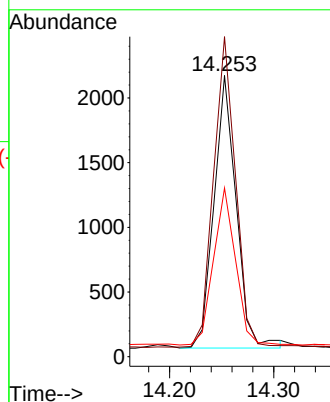
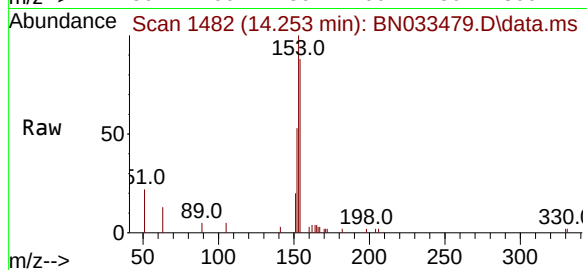
Tgt Ion:154 Resp: 3128

Ion Ratio Lower Upper

154 100

153 113.0 89.0 133.6

152 56.8 45.2 67.8



#18

Fluorene

Concen: 0.094 ng

RT: 15.247 min Scan# 1575

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

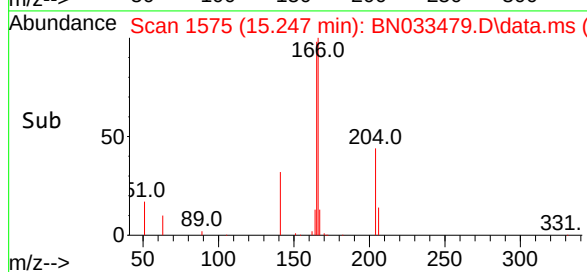
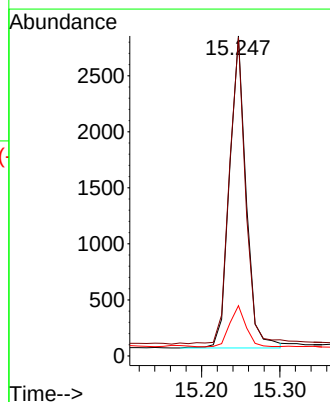
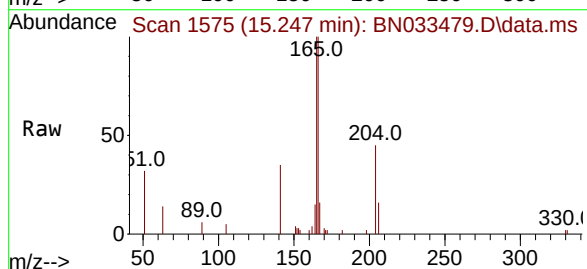
Tgt Ion:166 Resp: 4115

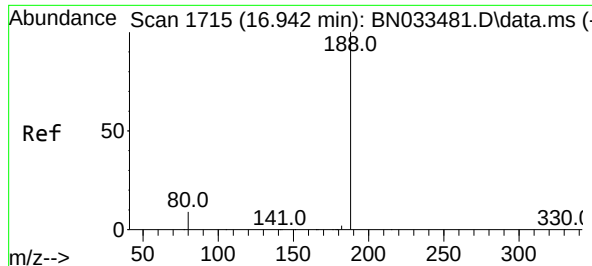
Ion Ratio Lower Upper

166 100

165 94.1 78.2 117.4

167 12.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

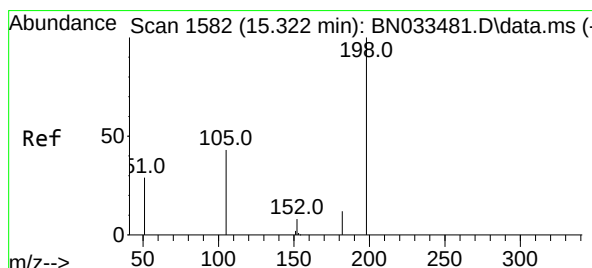
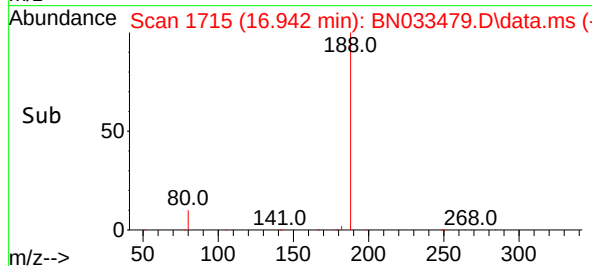
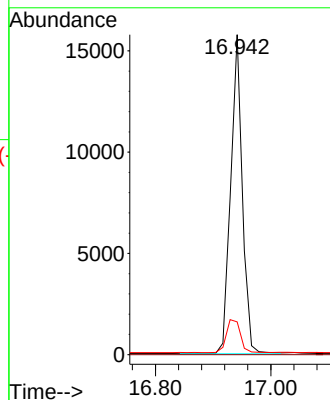
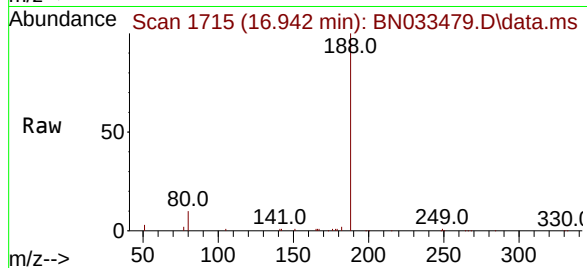
Tgt Ion:188 Resp: 22120

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 7.8 11.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.102 ng

RT: 15.322 min Scan# 1582

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

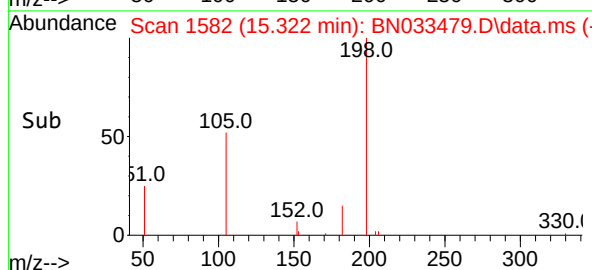
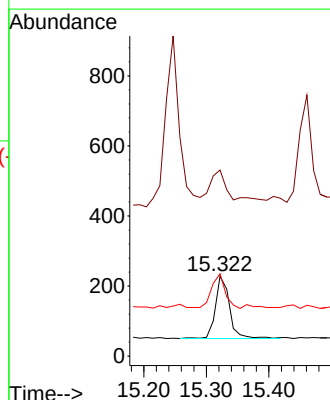
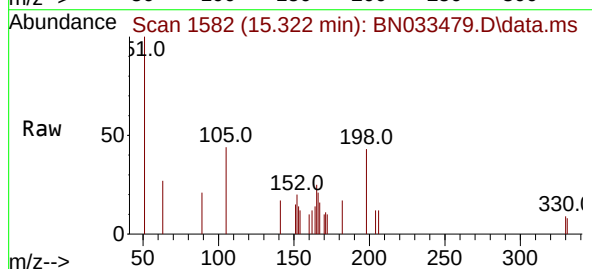
Tgt Ion:198 Resp: 282

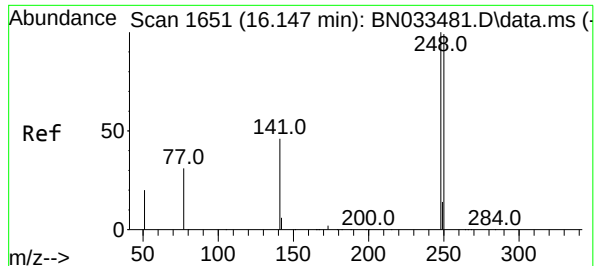
Ion Ratio Lower Upper

198 100

51 232.9 65.1 97.7#

105 103.1 44.8 67.2#

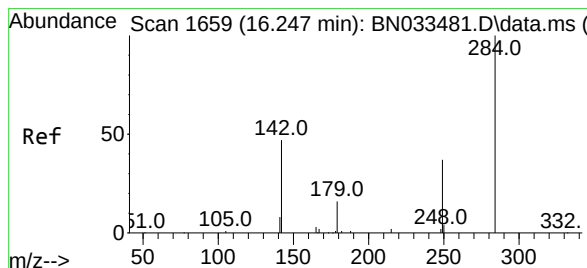
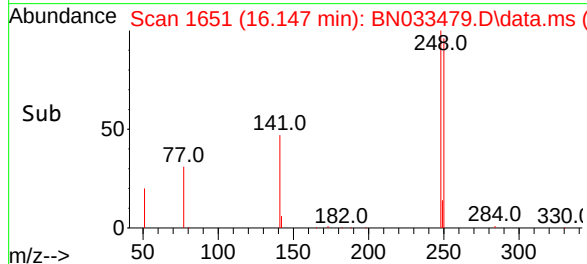
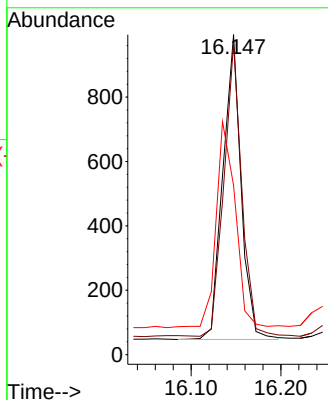
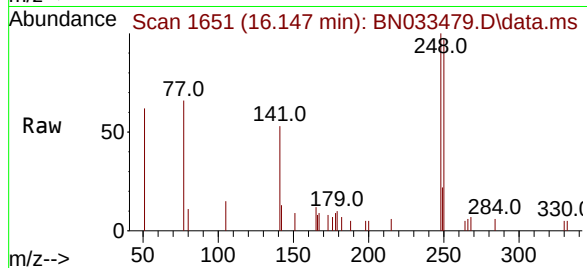




#21
4-Bromophenyl-phenylether
Concen: 0.101 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

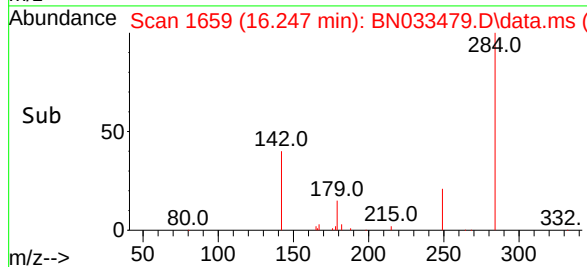
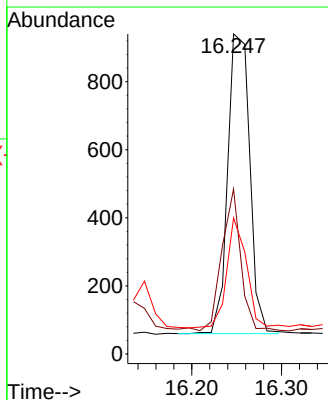
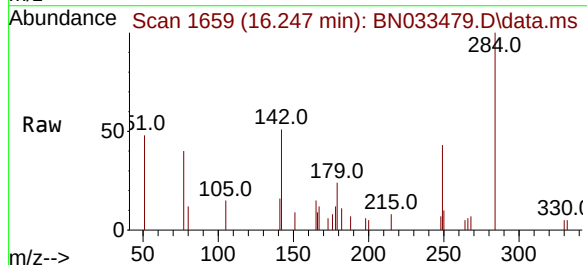
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

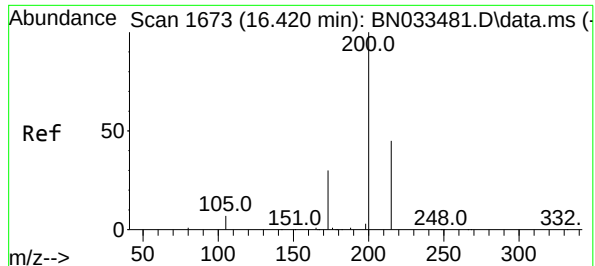
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.4	79.2	118.8
141	52.9	37.9	56.9



#22
Hexachlorobenzene
Concen: 0.102 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.0	31.8	47.6
249	32.6	26.0	39.0

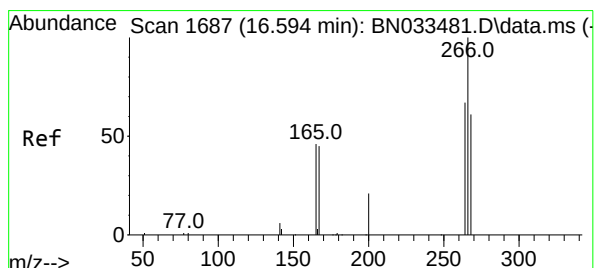
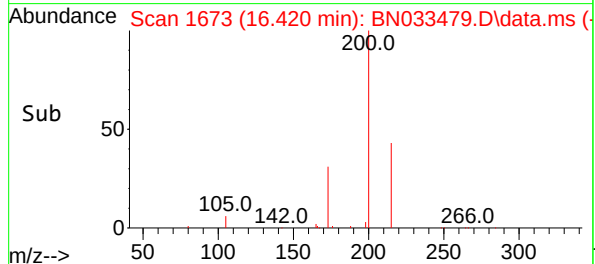
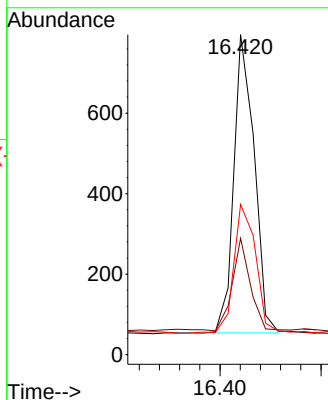
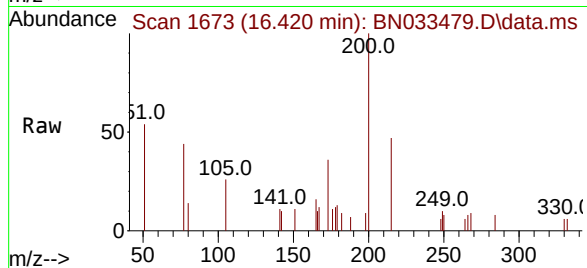




#23
Atrazine
Concen: 0.099 ng
RT: 16.420 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

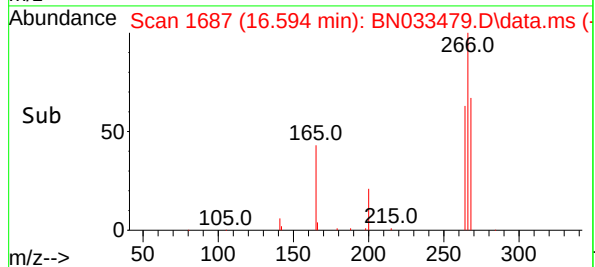
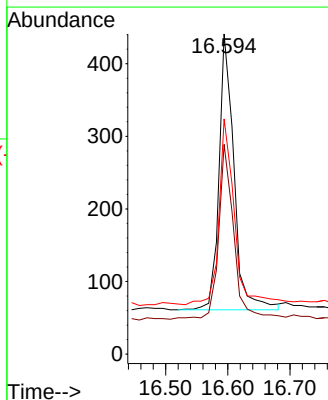
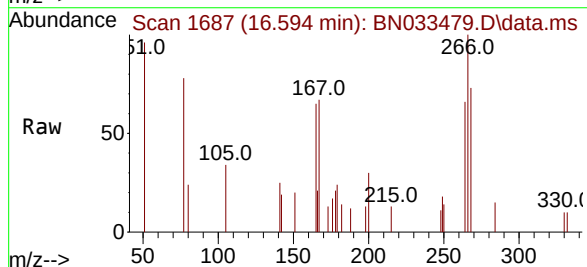
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

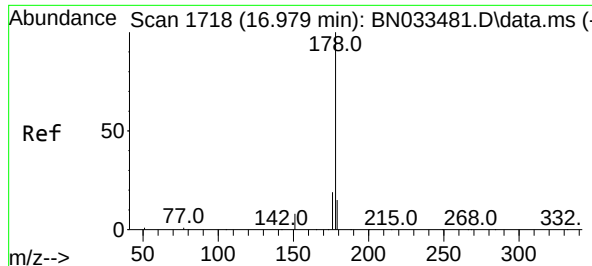
Tgt Ion:200 Resp: 1042
Ion Ratio Lower Upper
200 100
173 36.4 25.3 37.9
215 46.9 36.6 54.8



#24
Pentachlorophenol
Concen: 0.105 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:266 Resp: 633
Ion Ratio Lower Upper
266 100
264 61.3 51.9 77.9
268 69.5 51.0 76.4

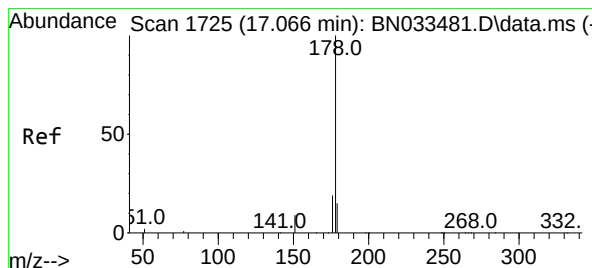
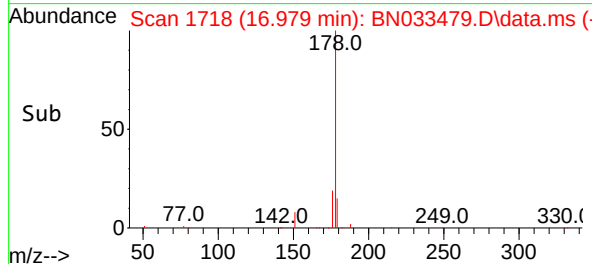
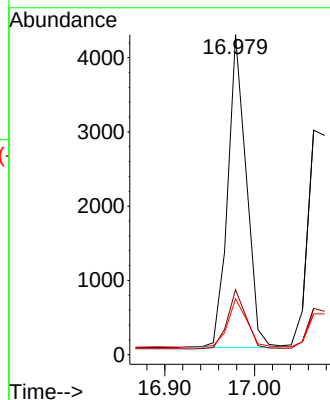
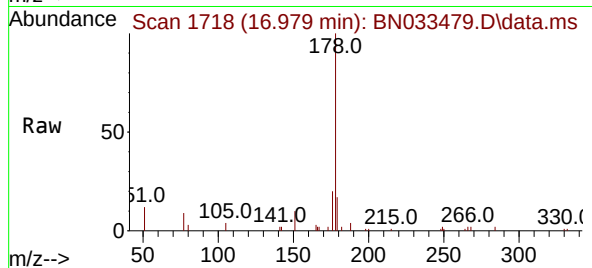




#25
Phenanthrene
Concen: 0.096 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

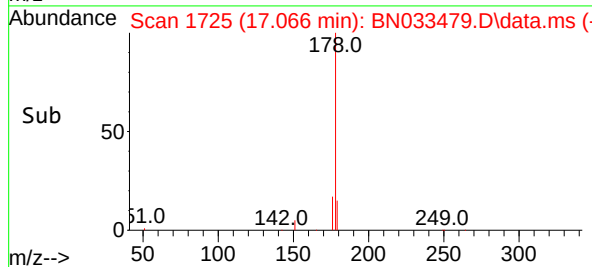
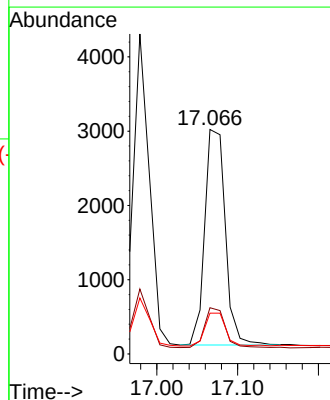
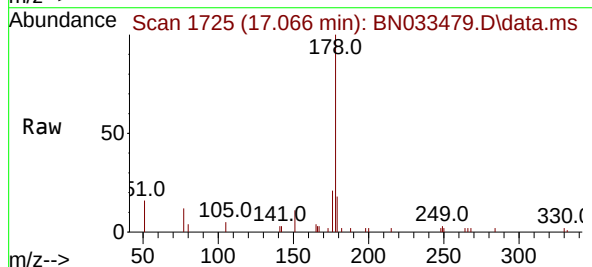
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

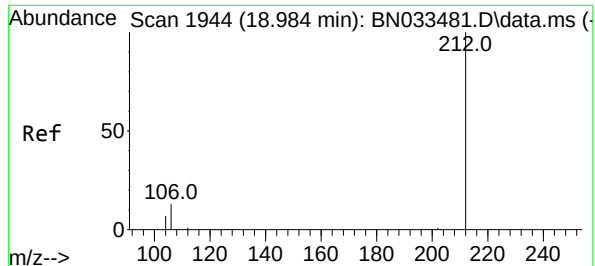
Tgt Ion:178 Resp: 6046
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 16.1 12.3 18.5



#26
Anthracene
Concen: 0.092 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:178 Resp: 5150
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.090 ng

RT: 18.984 min Scan# 1944

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

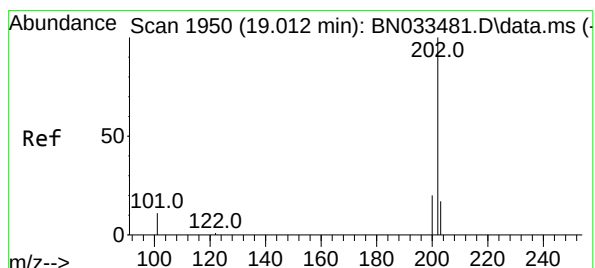
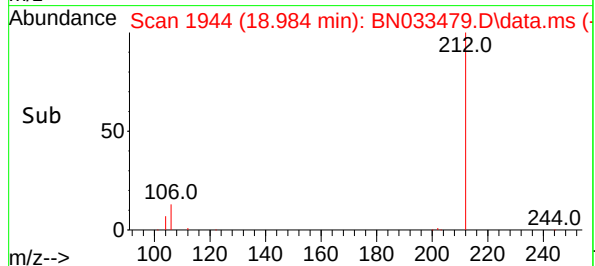
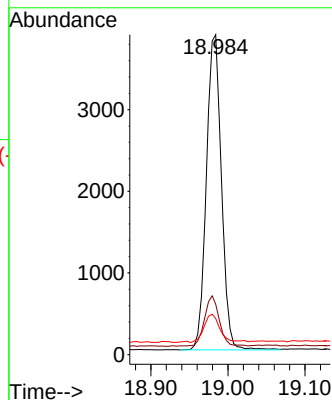
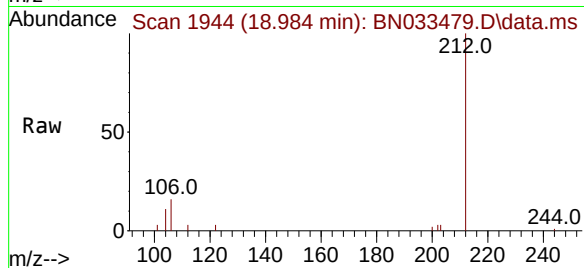
Tgt Ion:212 Resp: 5237

Ion Ratio Lower Upper

212 100

106 15.6 12.3 18.5

104 9.8 7.0 10.4



#28

Fluoranthene

Concen: 0.085 ng

RT: 19.012 min Scan# 1950

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

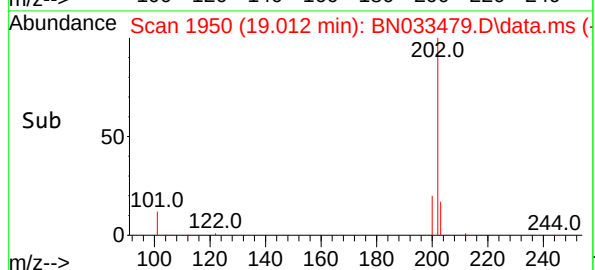
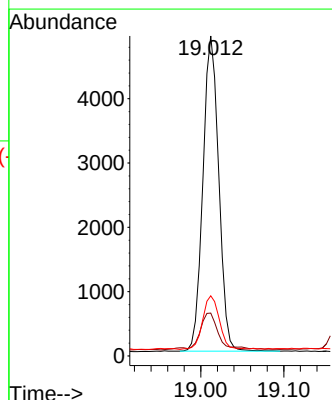
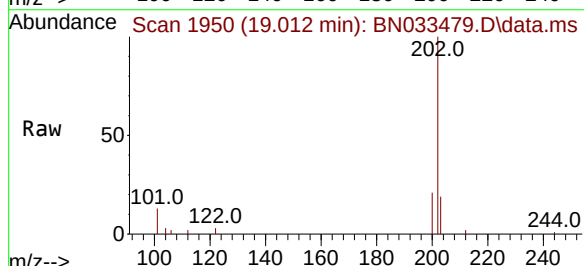
Tgt Ion:202 Resp: 6515

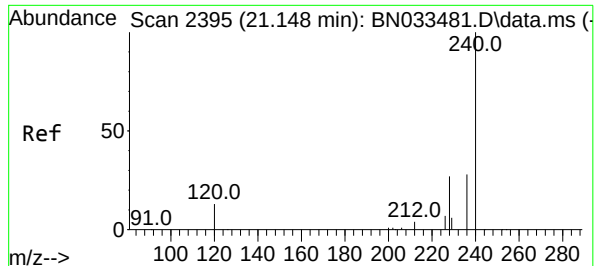
Ion Ratio Lower Upper

202 100

101 14.2 9.5 14.3

203 17.8 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

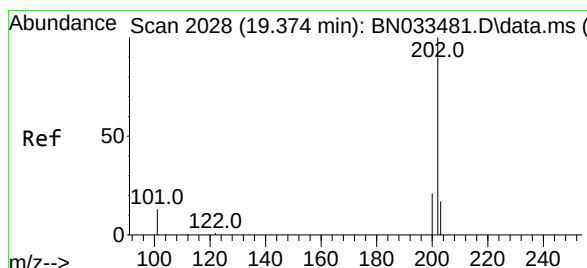
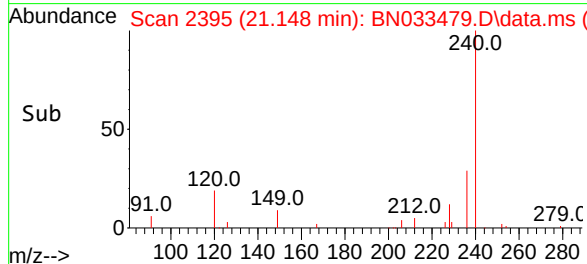
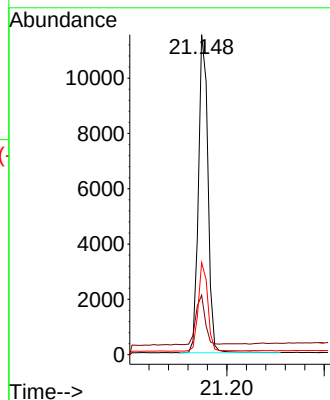
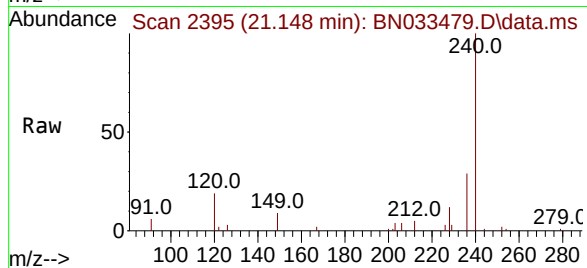
Tgt Ion:240 Resp: 15512

Ion Ratio Lower Upper

240 100

120 18.6 12.4 18.6

236 28.8 23.0 34.6



#30

Pyrene

Concen: 0.109 ng

RT: 19.374 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

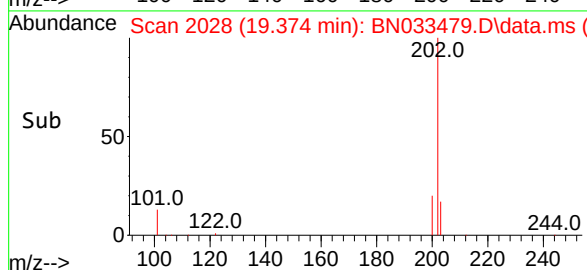
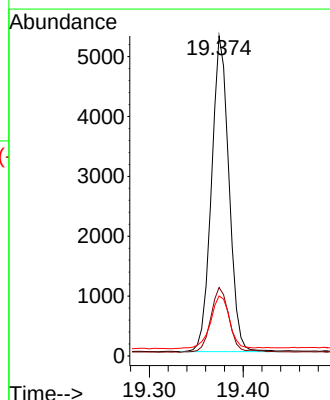
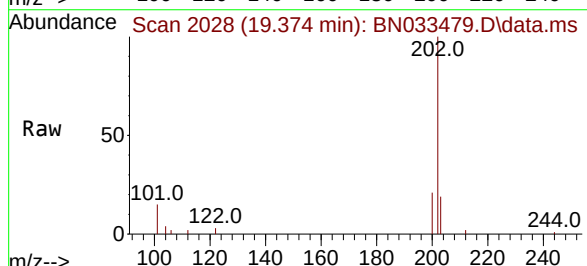
Tgt Ion:202 Resp: 6809

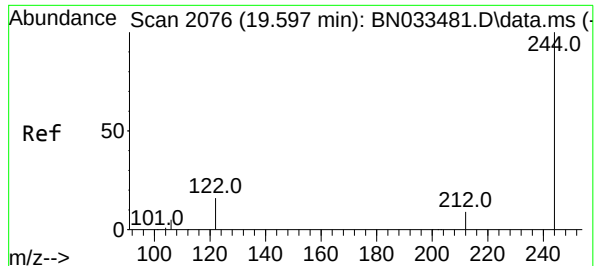
Ion Ratio Lower Upper

202 100

200 21.6 16.6 24.8

203 18.4 14.2 21.4





#31

Terphenyl-d14

Concen: 0.118 ng

RT: 19.597 min Scan# 2076

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

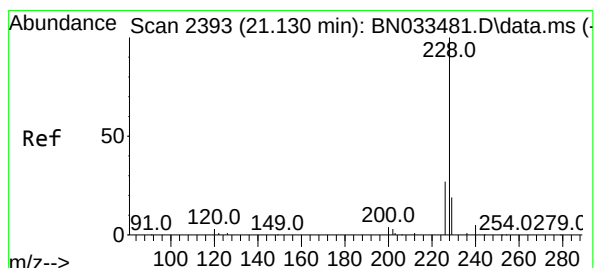
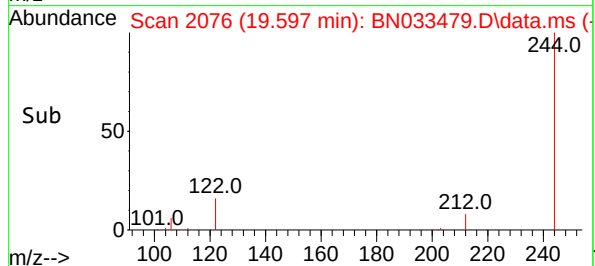
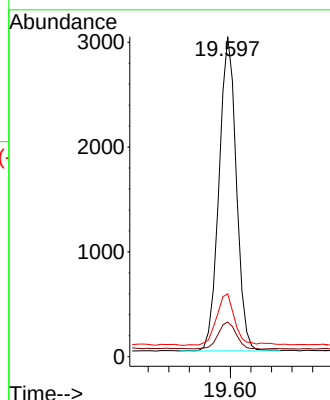
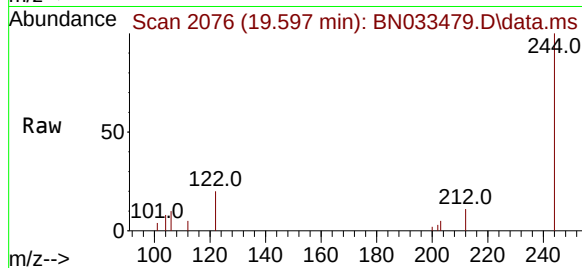
Tgt Ion:244 Resp: 3516

Ion Ratio Lower Upper

244 100

212 10.8 7.8 11.6

122 19.7 13.3 19.9



#32

Benzo(a)anthracene

Concen: 0.100 ng

RT: 21.139 min Scan# 2394

Delta R.T. 0.009 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

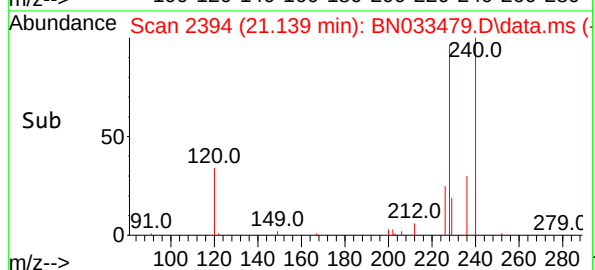
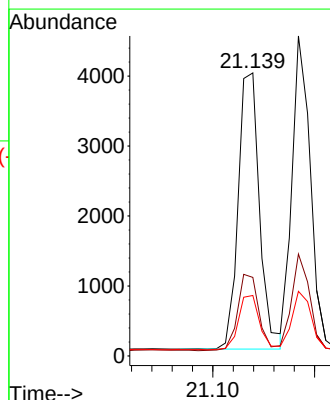
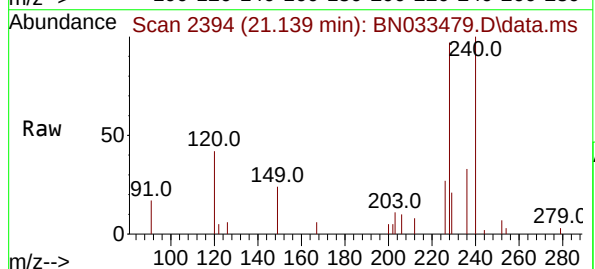
Tgt Ion:228 Resp: 5757

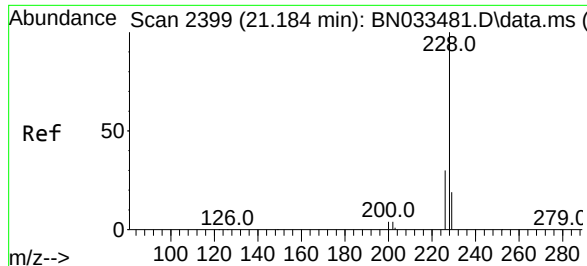
Ion Ratio Lower Upper

228 100

226 27.8 21.8 32.6

229 21.4 15.8 23.6





#33

Chrysene

Concen: 0.097 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

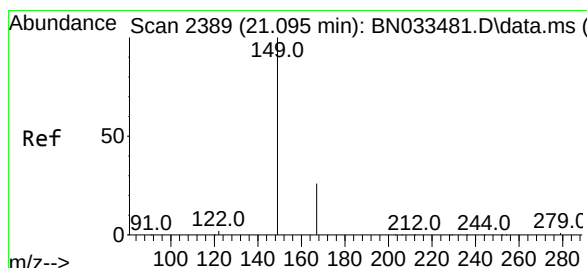
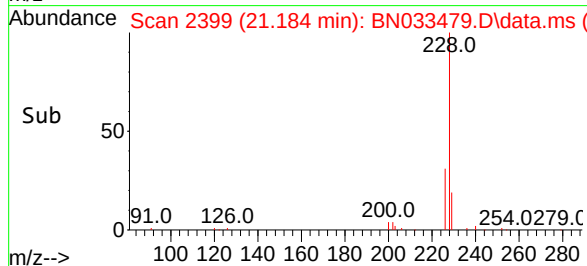
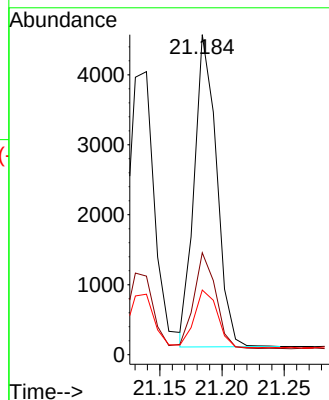
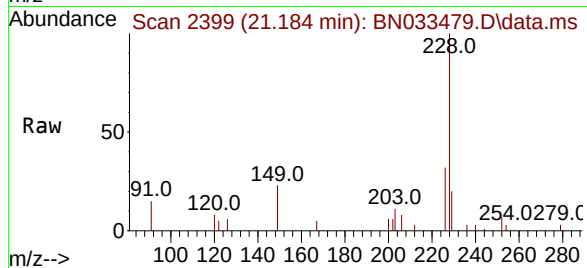
Tgt Ion:228 Resp: 5565

Ion Ratio Lower Upper

228 100

226 31.9 23.8 35.8

229 20.2 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.170 ng

RT: 21.103 min Scan# 2390

Delta R.T. 0.009 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

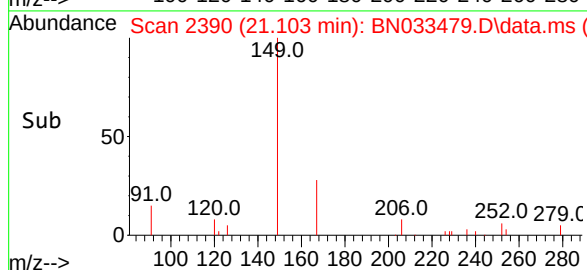
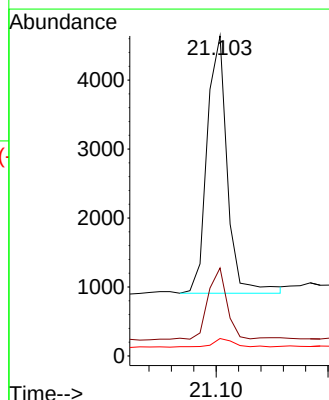
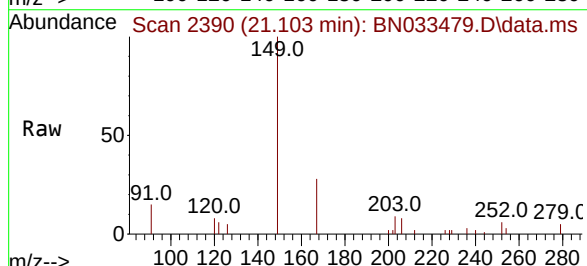
Tgt Ion:149 Resp: 4678

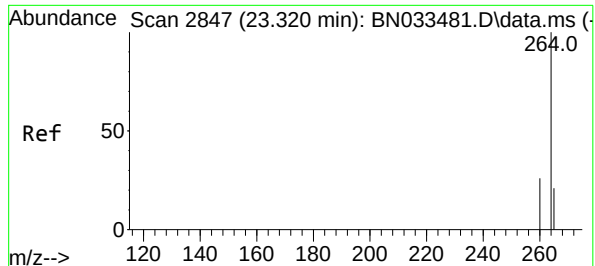
Ion Ratio Lower Upper

149 100

167 25.4 21.5 32.3

279 3.1 2.2 3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.323 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN033479.D

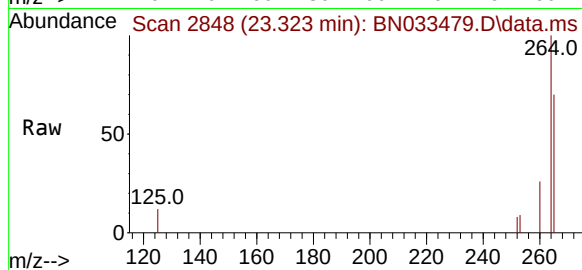
Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



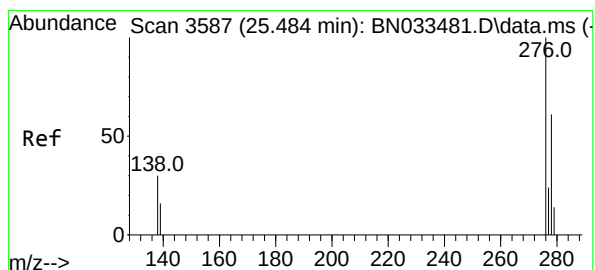
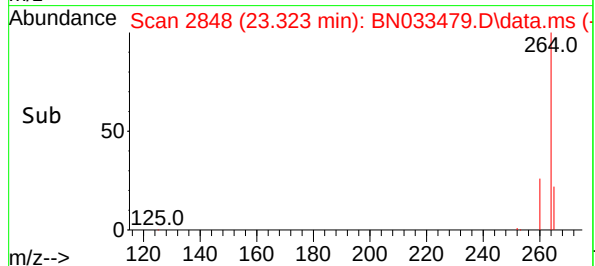
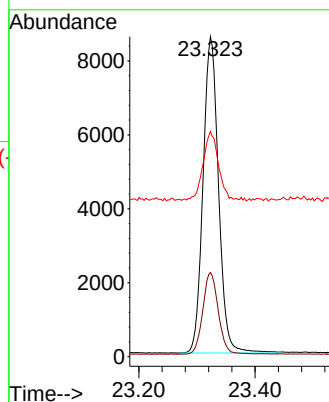
Tgt Ion:264 Resp: 15840

Ion Ratio Lower Upper

264 100

260 26.3 20.8 31.2

265 70.4 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.097 ng

RT: 25.478 min Scan# 3585

Delta R.T. -0.006 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

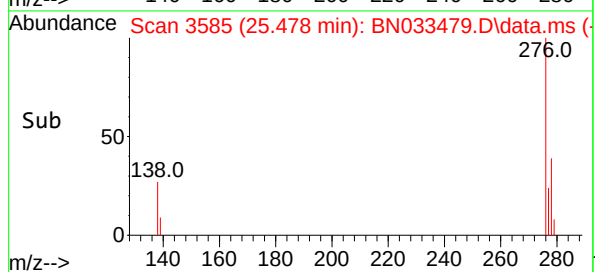
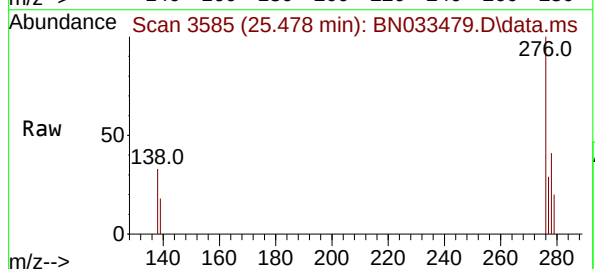
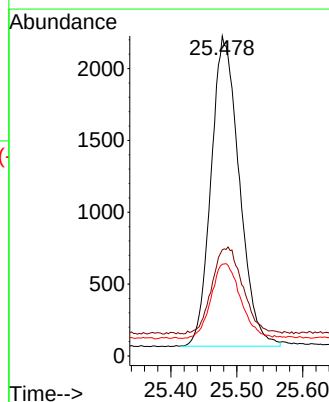
Tgt Ion:276 Resp: 6399

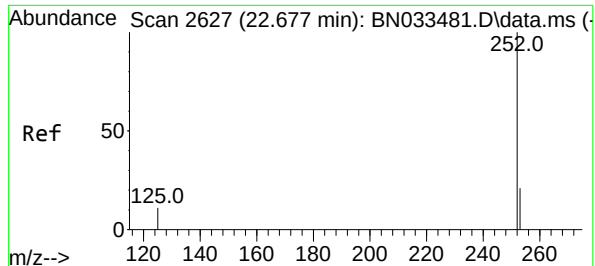
Ion Ratio Lower Upper

276 100

138 30.6 24.4 36.6

277 25.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.102 ng

RT: 22.680 min Scan# 2628

Delta R.T. 0.003 min

Lab File: BN033479.D

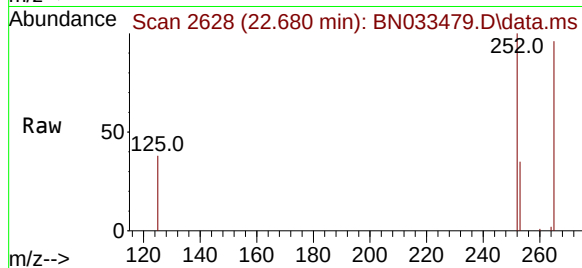
Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



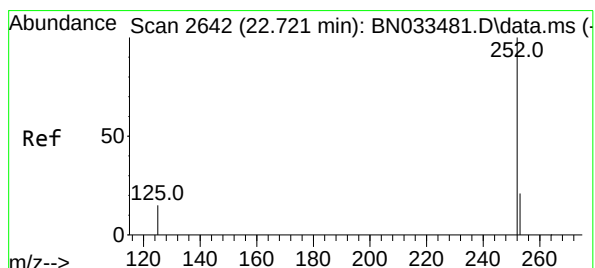
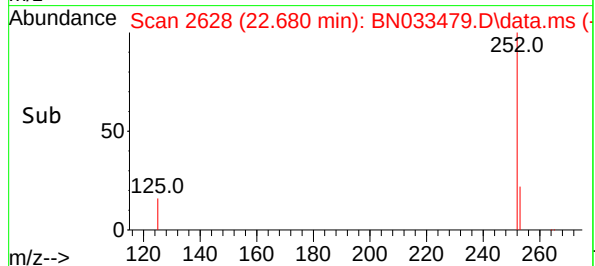
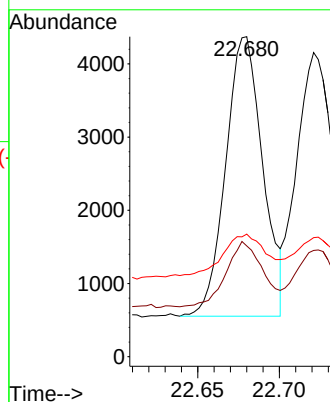
Tgt Ion:252 Resp: 6036

Ion Ratio Lower Upper

252 100

253 34.6 19.8 29.8#

125 38.3 13.9 20.9#



#38

Benzo(k)fluoranthene

Concen: 0.095 ng

RT: 22.721 min Scan# 2642

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

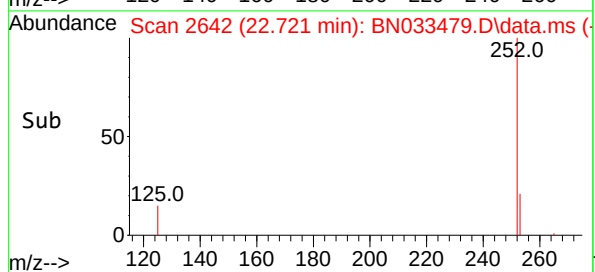
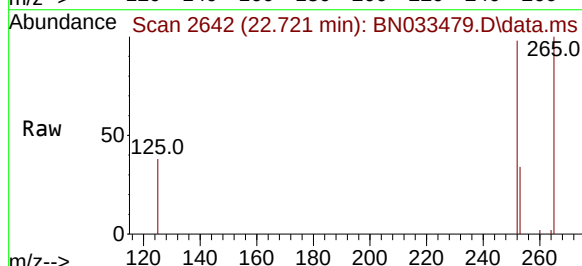
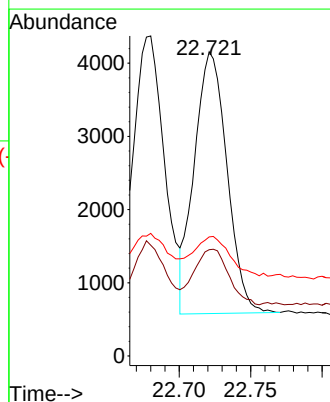
Tgt Ion:252 Resp: 5699

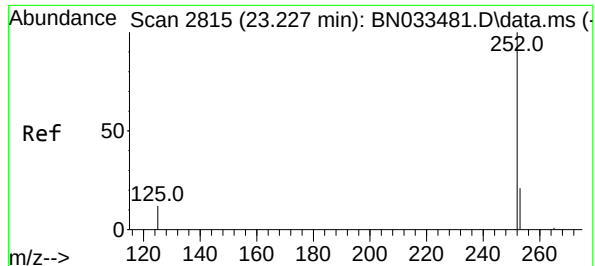
Ion Ratio Lower Upper

252 100

253 34.9 19.8 29.8#

125 39.1 15.8 23.8#





#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.230 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

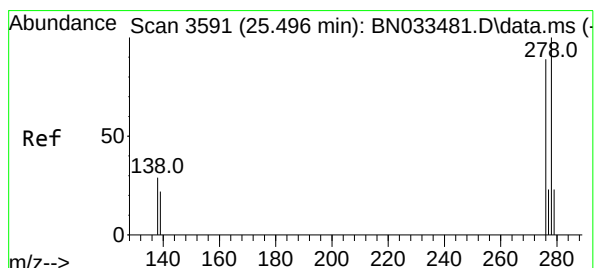
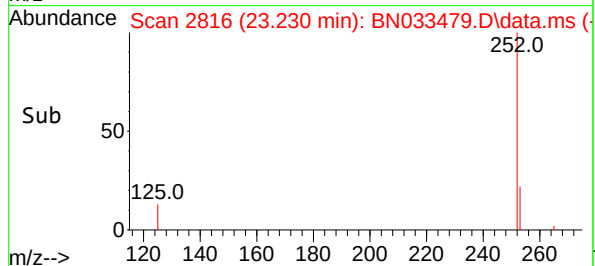
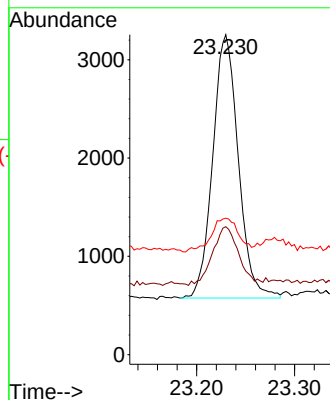
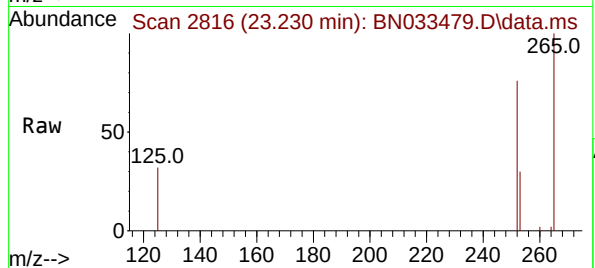
Tgt Ion:252 Resp: 4861

Ion Ratio Lower Upper

252 100

253 40.0 21.5 32.3#

125 42.6 17.0 25.4#



#40

Dibenzo(a,h)anthracene

Concen: 0.098 ng

RT: 25.498 min Scan# 3592

Delta R.T. 0.003 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

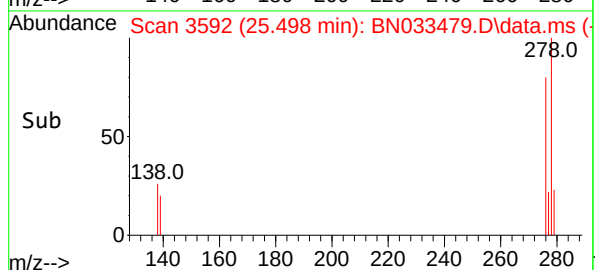
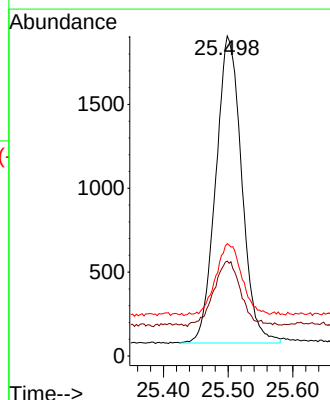
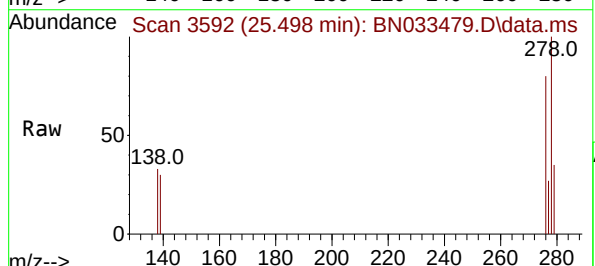
Tgt Ion:278 Resp: 5079

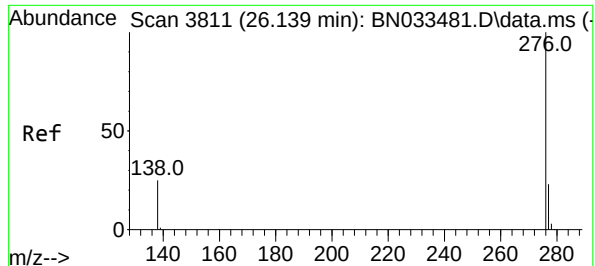
Ion Ratio Lower Upper

278 100

139 29.7 19.1 28.7#

279 35.1 21.0 31.4#





#41

Benzo(g,h,i)perylene

Concen: 0.097 ng

RT: 26.133 min Scan# 3809

Delta R.T. -0.006 min

Lab File: BN033479.D

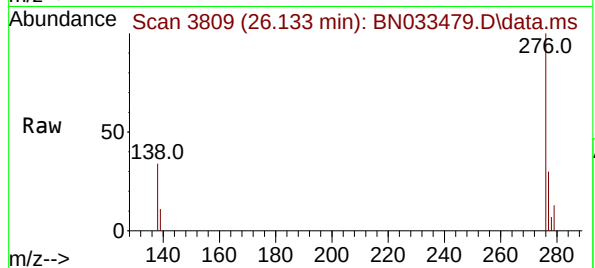
Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



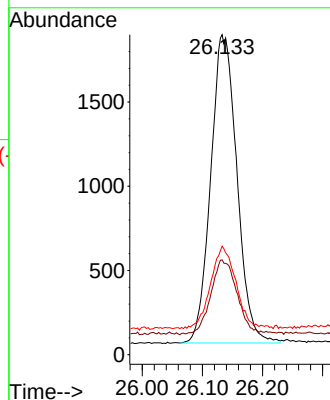
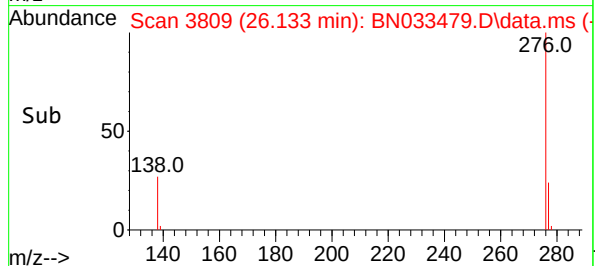
Tgt Ion:276 Resp: 5542

Ion Ratio Lower Upper

276 100

277 29.6 19.7 29.5#

138 33.9 21.8 32.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033480.D
 Acq On : 19 Aug 2024 16:52
 Operator : MA/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024

Quant Time: Aug 19 23:22:19 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Aug 19 23:20:26 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	7894	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	21153	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	11095	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	23305	0.400	ng	0.00
29) Chrysene-d12	21.148	240	15592	0.400	ng	0.00
35) Perylene-d12	23.323	264	15116	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	5055	0.228	ng	0.00
5) Phenol-d6	6.743	99	6221	0.214	ng	0.00
8) Nitrobenzene-d5	8.692	82	3428	0.214	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	5985	0.188	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	1123	0.198	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	8881	0.198	ng	0.00
27) Fluoranthene-d10	18.980	212	10713	0.175	ng	0.00
31) Terphenyl-d14	19.598	244	6989	0.233	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.190	88	2026	0.238	ng	95
3) n-Nitrosodimethylamine	3.479	42	2169	0.197	ng	# 99
6) bis(2-Chloroethyl)ether	6.996	93	4514	0.200	ng	99
9) Naphthalene	10.368	128	11298	0.197	ng	99
10) Hexachlorobutadiene	10.667	225	2251	0.204	ng	# 100
12) 2-Methylnaphthalene	11.990	142	7058	0.184	ng	99
16) Acenaphthylene	13.911	152	8927	0.175	ng	100
17) Acenaphthene	14.253	154	6529	0.186	ng	100
18) Fluorene	15.247	166	8225	0.179	ng	99
20) 4,6-Dinitro-2-methylph...	15.322	198	589	0.203	ng	# 58
21) 4-Bromophenyl-phenylether	16.147	248	2696	0.194	ng	97
22) Hexachlorobenzene	16.247	284	3027	0.195	ng	100
23) Atrazine	16.421	200	2139	0.193	ng	98
24) Pentachlorophenol	16.594	266	1137	0.179	ng	97
25) Phenanthrene	16.979	178	12438	0.187	ng	100
26) Anthracene	17.078	178	10626	0.180	ng	100
28) Fluoranthene	19.012	202	13434	0.166	ng	99
30) Pyrene	19.375	202	13742	0.219	ng	99
32) Benzo(a)anthracene	21.131	228	10672	0.184	ng	99
33) Chrysene	21.184	228	10851	0.188	ng	98
34) Bis(2-ethylhexyl)phtha...	21.104	149	7125	0.257	ng	99
36) Indeno(1,2,3-cd)pyrene	25.481	276	11942	0.191	ng	99
37) Benzo(b)fluoranthene	22.677	252	10821	0.192	ng	# 90
38) Benzo(k)fluoranthene	22.721	252	10527m	0.184	ng	
39) Benzo(a)pyrene	23.227	252	8779	0.184	ng	# 87
40) Dibenzo(a,h)anthracene	25.496	278	9553	0.193	ng	95
41) Benzo(g,h,i)perylene	26.136	276	10368	0.190	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033480.D
 Acq On : 19 Aug 2024 16:52
 Operator : MA/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

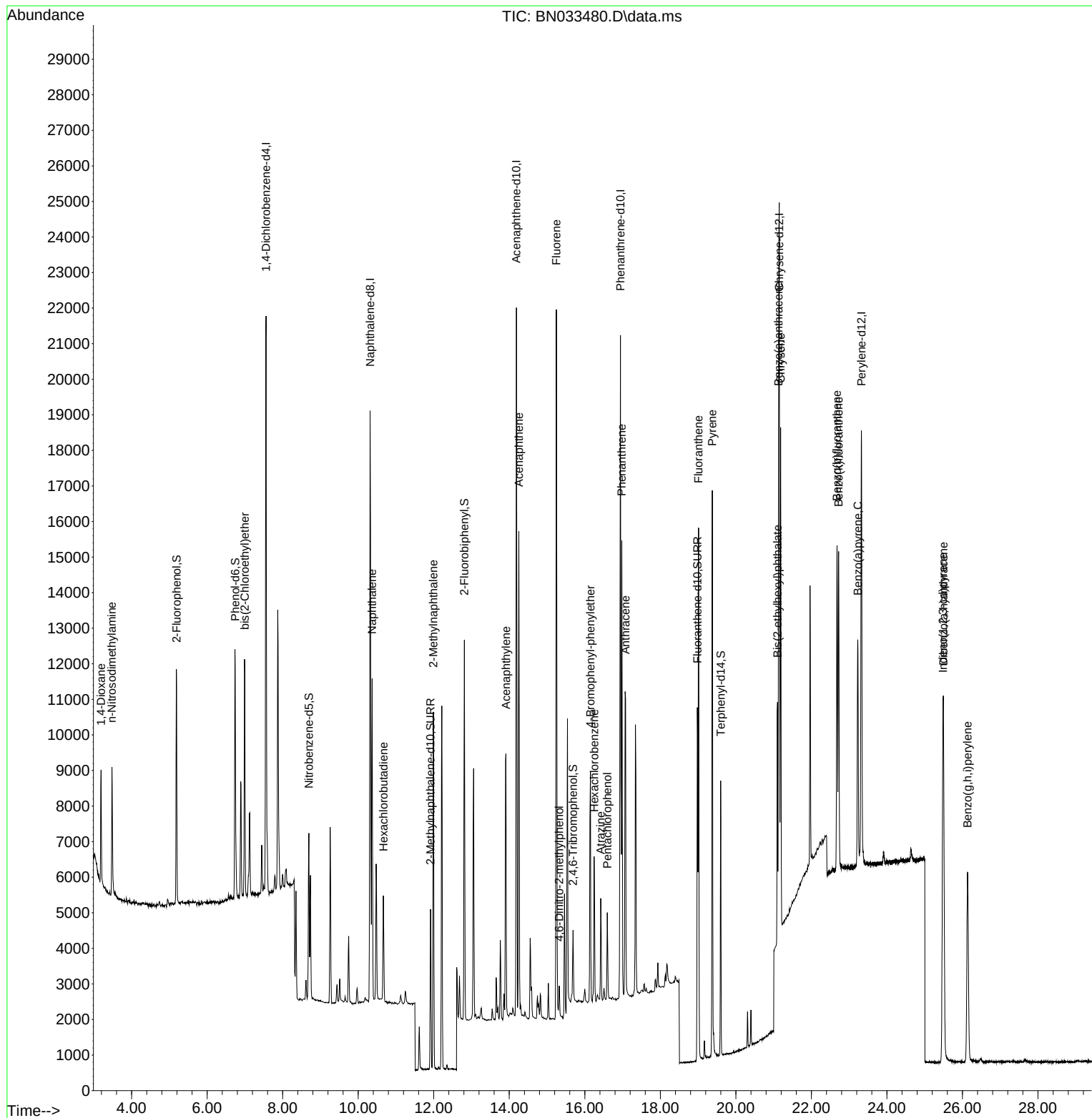
Manual Integrations

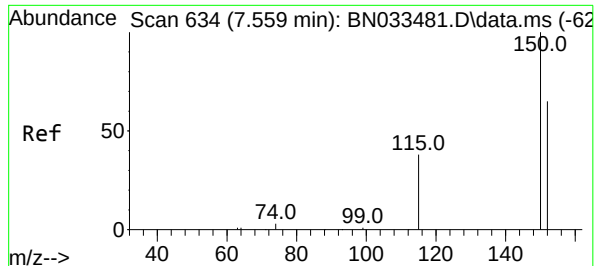
APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024

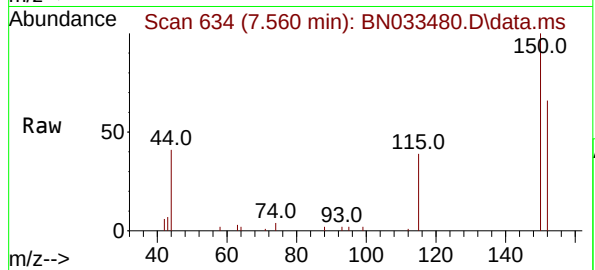
Quant Time: Aug 19 23:22:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:20:26 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

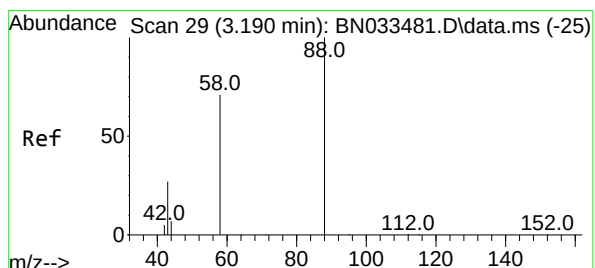
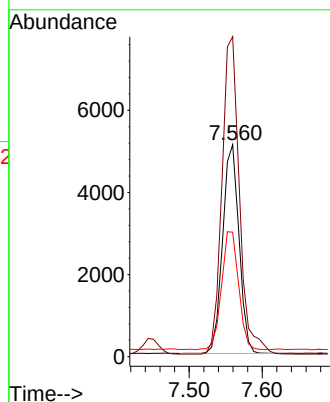
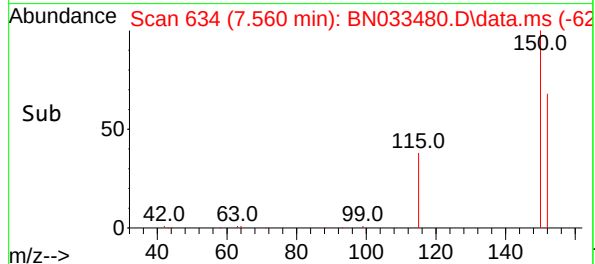
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 7894
Ion Ratio Lower Upper
152 100
150 150.9 122.2 183.2
115 58.7 47.2 70.8

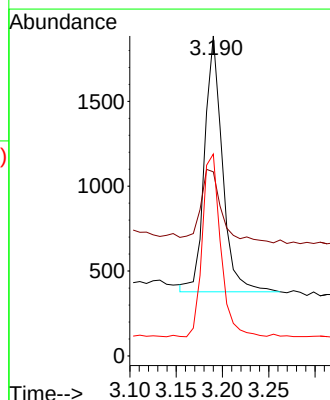
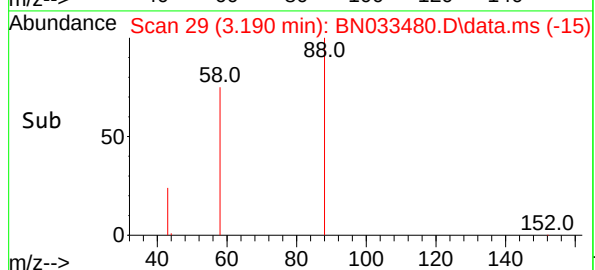
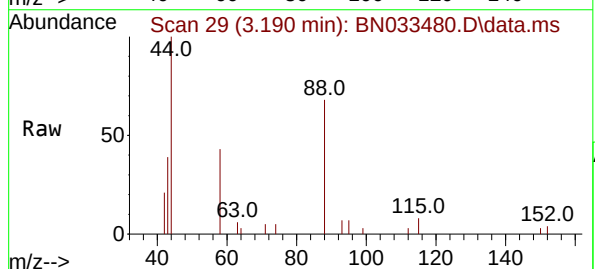
Manual Integrations
APPROVED

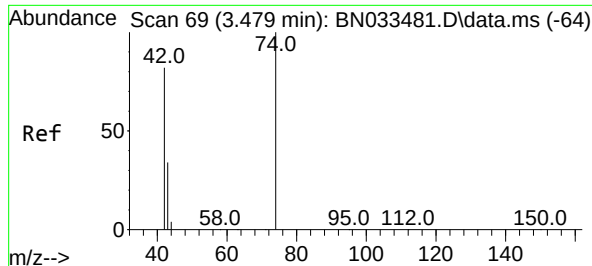
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#2
1,4-Dioxane
Concen: 0.238 ng
RT: 3.190 min Scan# 29
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion: 88 Resp: 2026
Ion Ratio Lower Upper
88 100
43 34.3 25.0 37.4
58 73.6 62.5 93.7





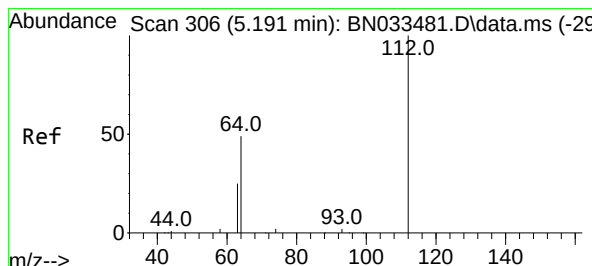
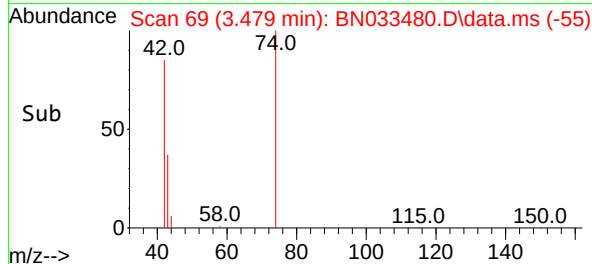
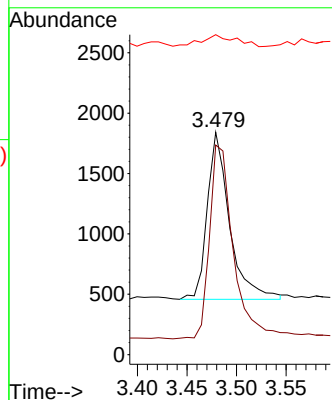
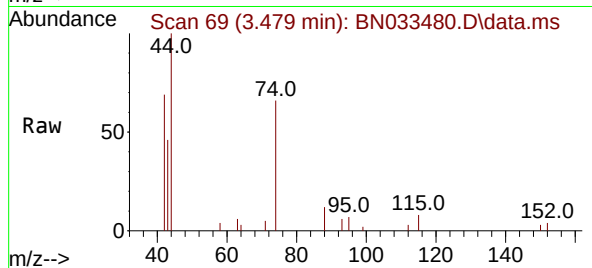
#3
n-Nitrosodimethylamine
Concen: 0.197 ng
RT: 3.479 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Instrument :
BNA_N
Client Sample Id :
SSTDICC0.2

Tgt Ion: 42 Resp: 2169
Ion Ratio Lower Upper
42 100
74 124.3 100.2 150.2
44 10.2 5.3 7.9

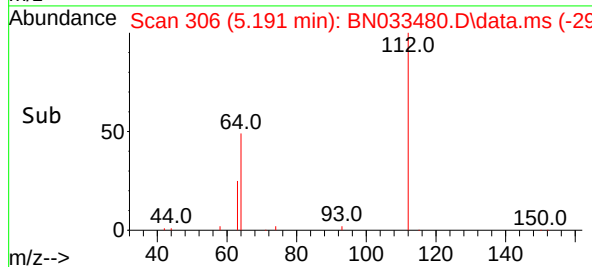
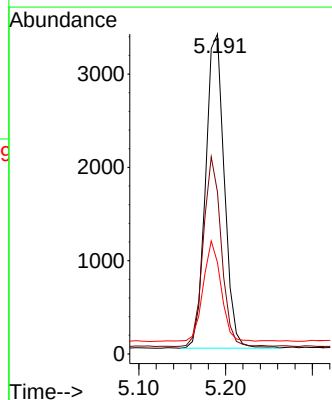
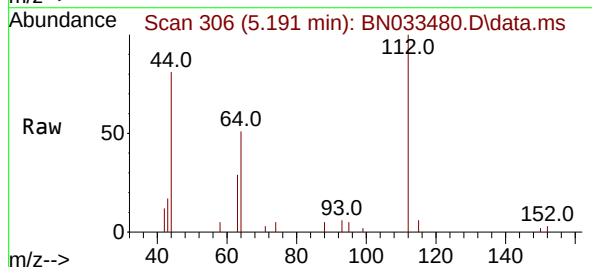
Manual Integrations
APPROVED

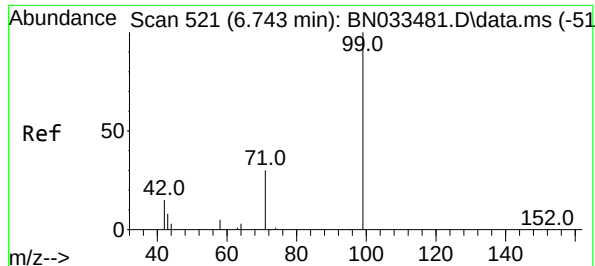
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#4
2-Fluorophenol
Concen: 0.228 ng
RT: 5.191 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

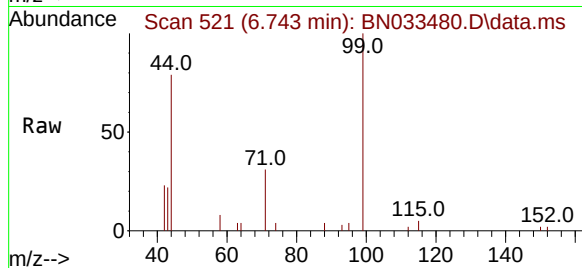
Tgt Ion:112 Resp: 5055
Ion Ratio Lower Upper
112 100
64 57.6 47.1 70.7
63 30.5 24.9 37.3





#5
Phenol-d6
Concen: 0.214 ng
RT: 6.743 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

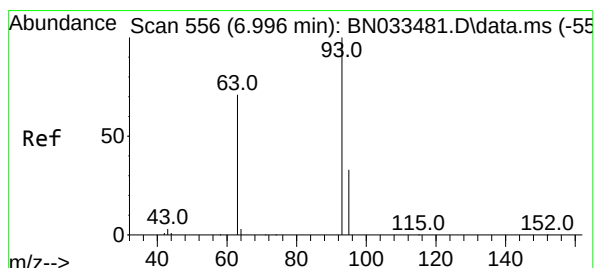
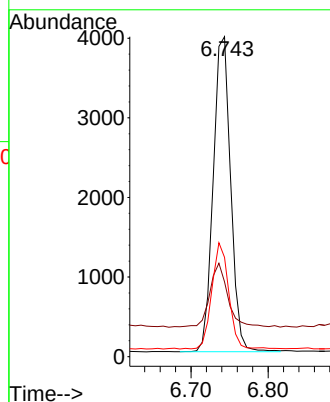
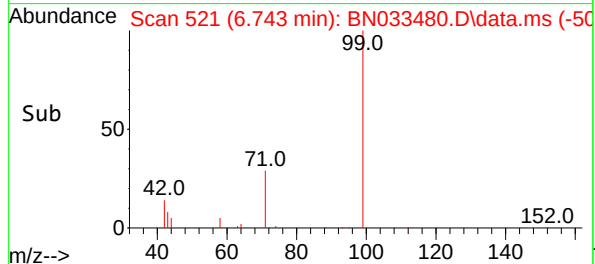
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 99 Resp: 622
Ion Ratio Lower Upper
99 100
42 21.1 16.6 24.8
71 32.5 26.2 39.4

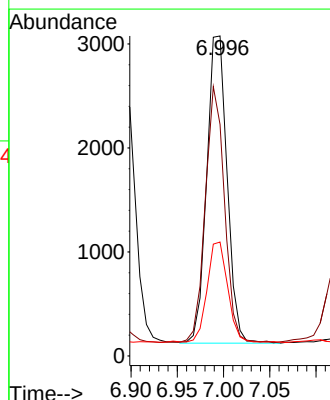
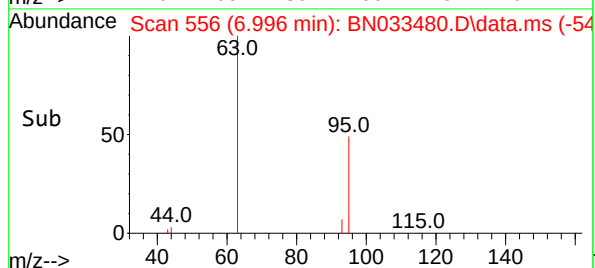
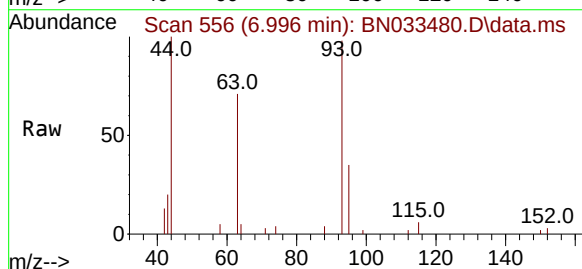
Manual Integrations
APPROVED

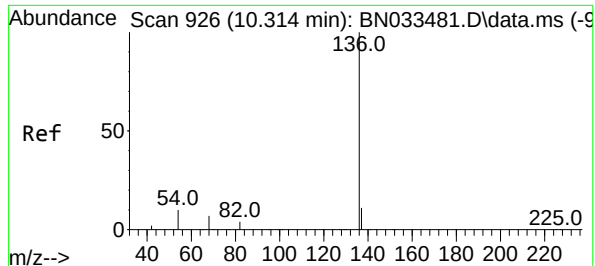
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.200 ng
RT: 6.996 min Scan# 556
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

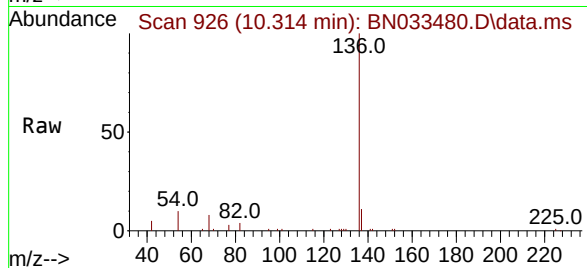
Tgt Ion: 93 Resp: 4514
Ion Ratio Lower Upper
93 100
63 79.2 63.0 94.4
95 32.9 26.0 39.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

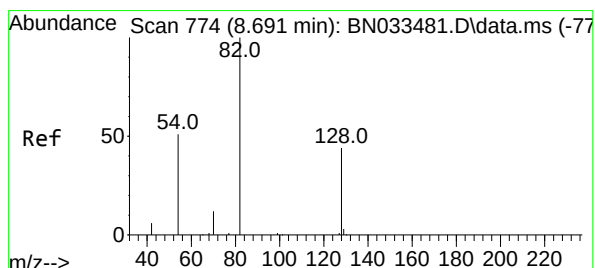
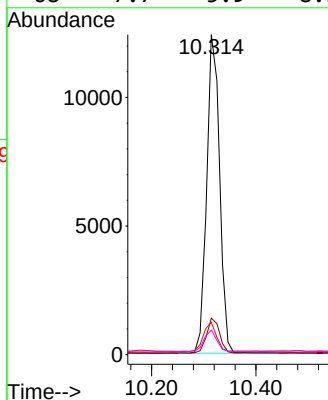
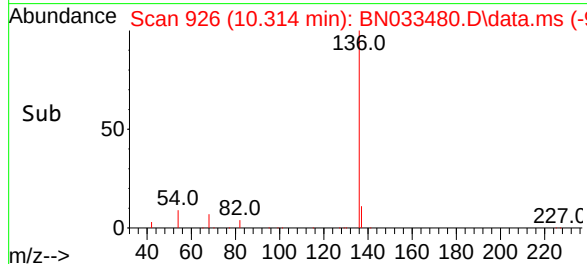
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:136 Resp: 2115
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 10.1 8.3 12.5
68 7.7 5.9 8.9

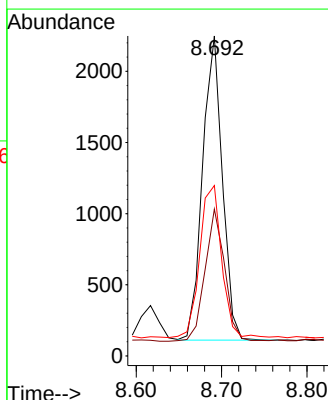
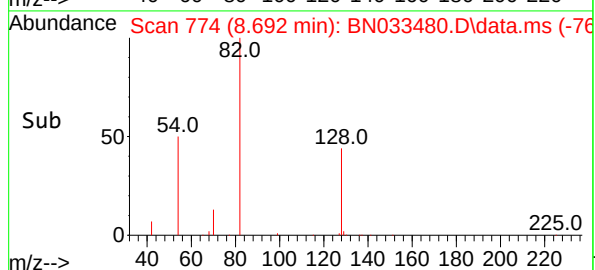
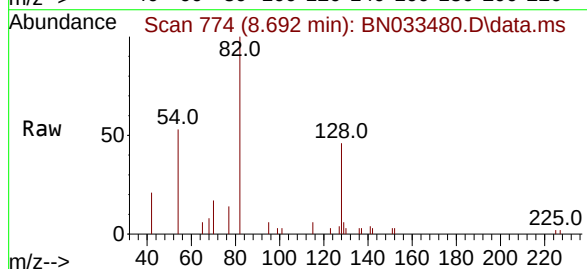
Manual Integrations
APPROVED

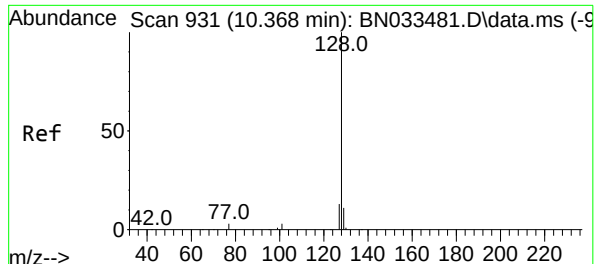
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#8
Nitrobenzene-d5
Concen: 0.214 ng
RT: 8.692 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion: 82 Resp: 3428
Ion Ratio Lower Upper
82 100
128 45.9 36.0 54.0
54 53.2 42.0 63.0





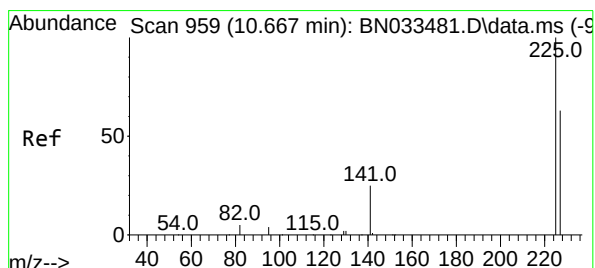
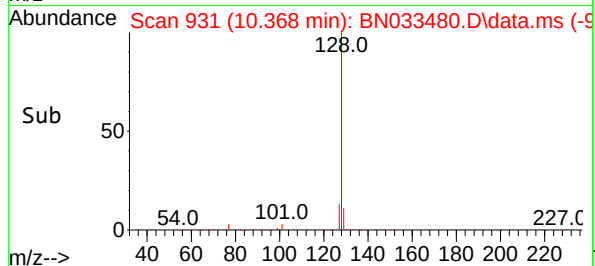
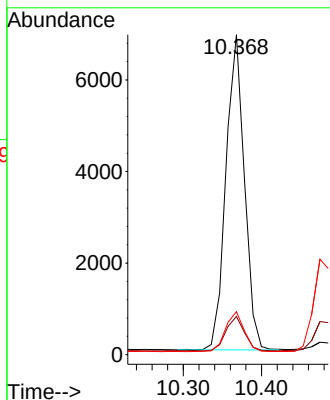
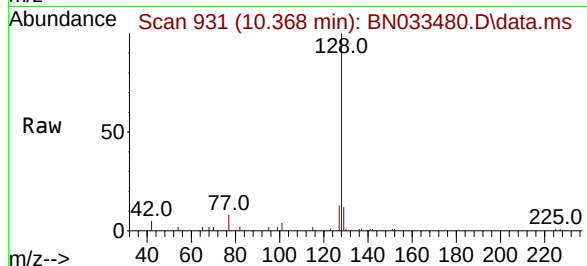
#9
Naphthalene
Concen: 0.197 ng
RT: 10.368 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 11298
Ion Ratio Lower Upper
128 100
129 11.9 9.1 13.7
127 13.5 10.7 16.1

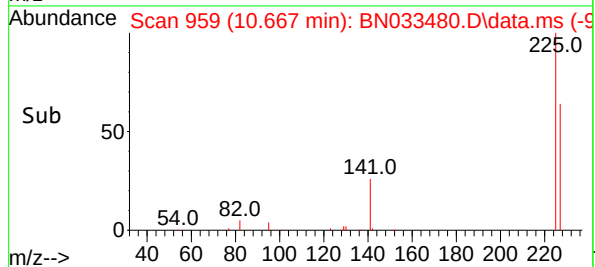
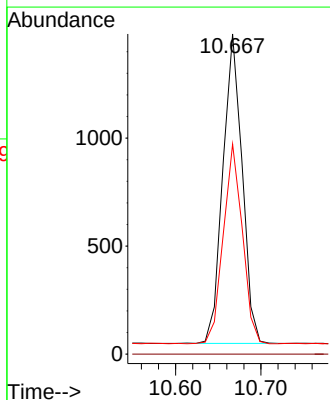
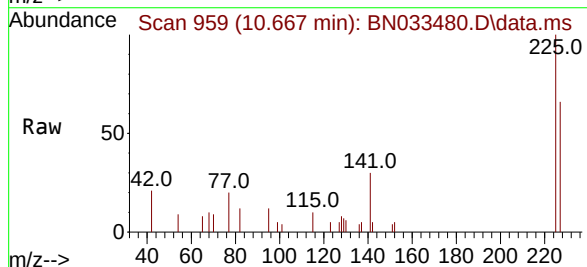
Manual Integrations
APPROVED

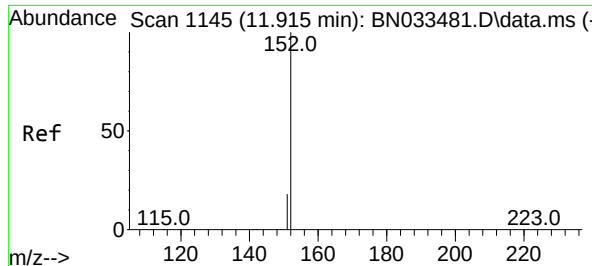
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#10
Hexachlorobutadiene
Concen: 0.204 ng
RT: 10.667 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

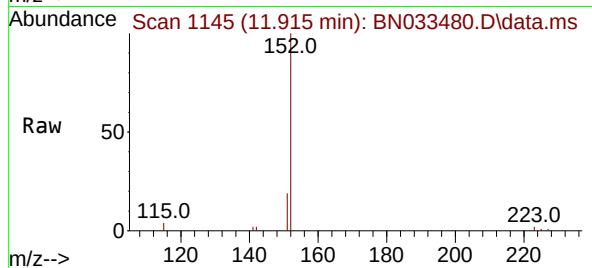
Tgt Ion:225 Resp: 2251
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.2 76.8





#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 11.915 min Scan# 1145
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

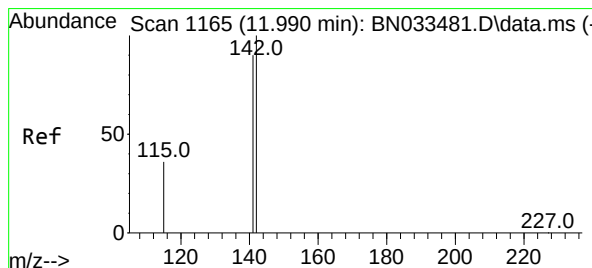
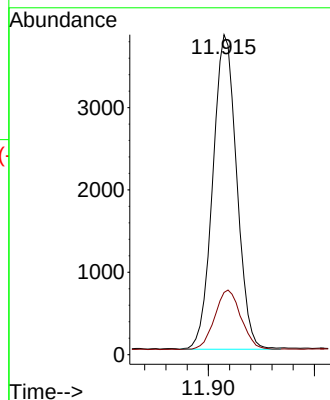
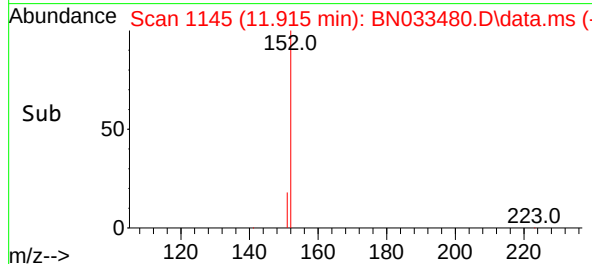
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 598
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0

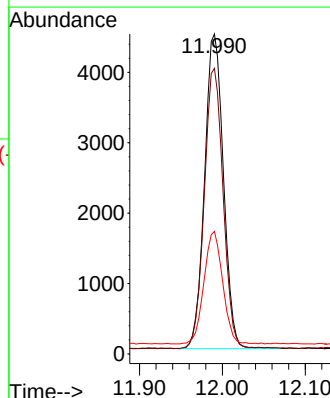
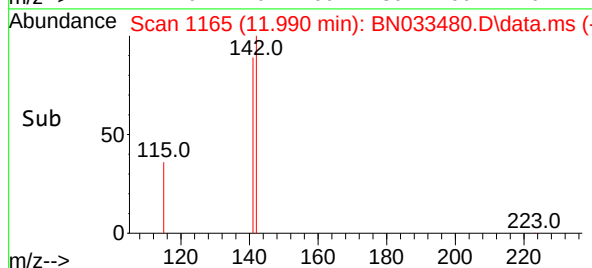
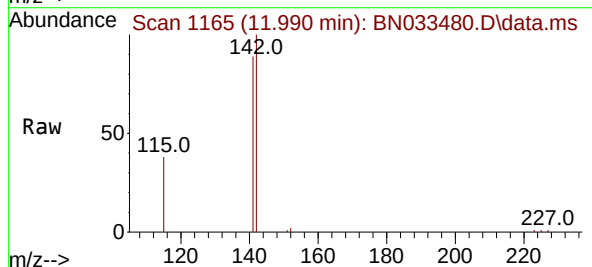
Manual Integrations
APPROVED

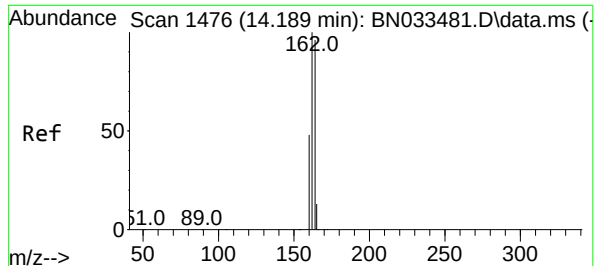
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#12
2-Methylnaphthalene
Concen: 0.184 ng
RT: 11.990 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

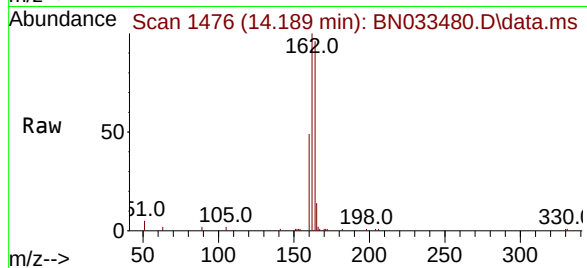
Tgt Ion:142 Resp: 7058
Ion Ratio Lower Upper
142 100
141 89.3 71.7 107.5
115 38.3 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

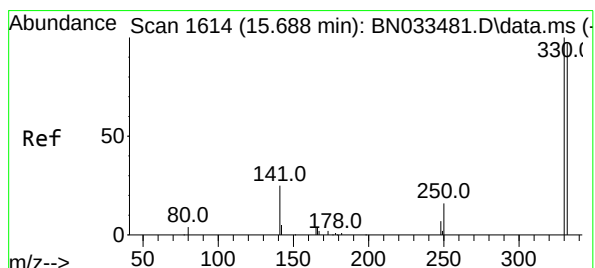
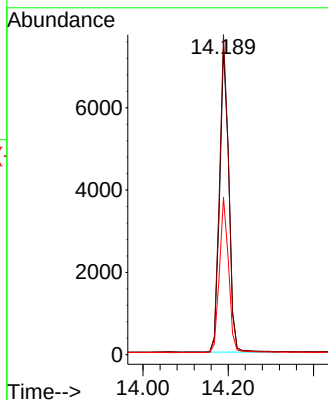
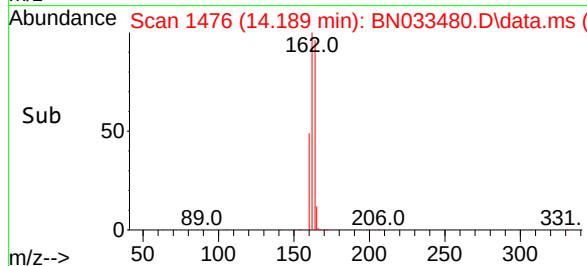
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



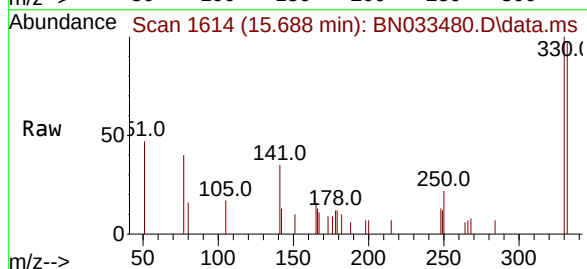
Tgt Ion:164 Resp: 1109
Ion Ratio Lower Upper
164 100
162 104.3 83.5 125.3
160 51.3 40.2 60.4

Manual Integrations
APPROVED

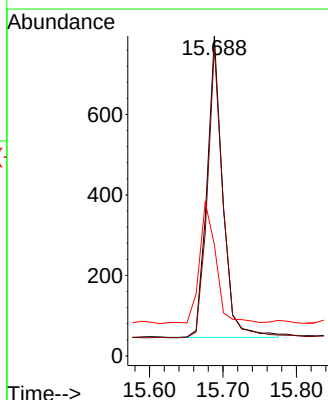
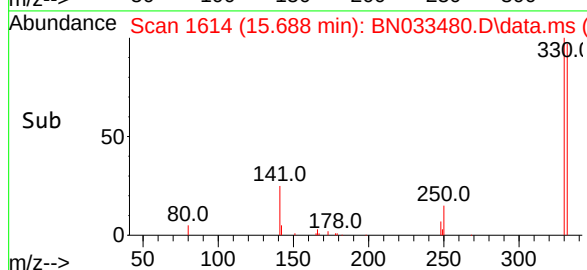
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

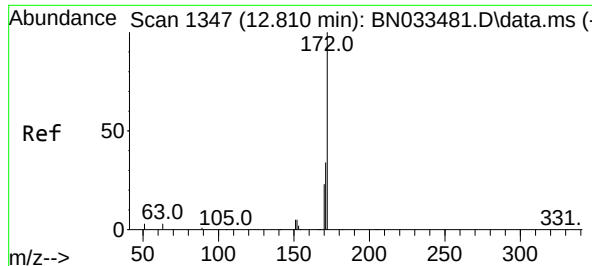


#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52



Tgt Ion:330 Resp: 1123
Ion Ratio Lower Upper
330 100
332 96.5 77.5 116.3
141 42.3 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 0.198 ng

RT: 12.810 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

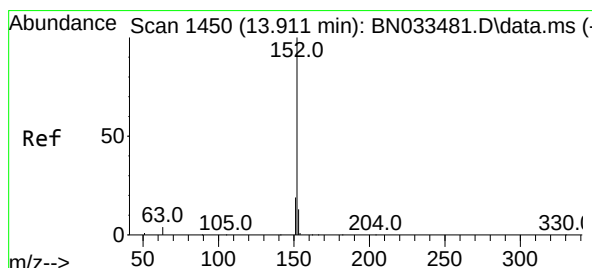
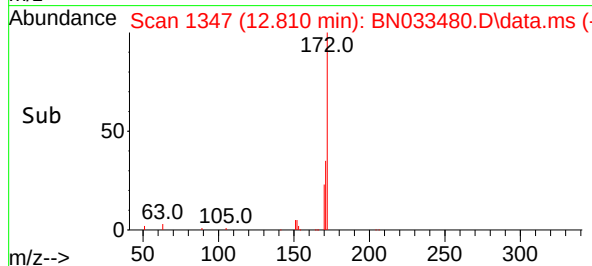
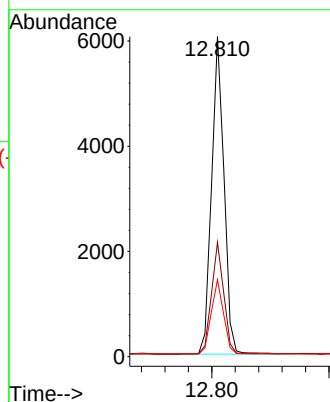
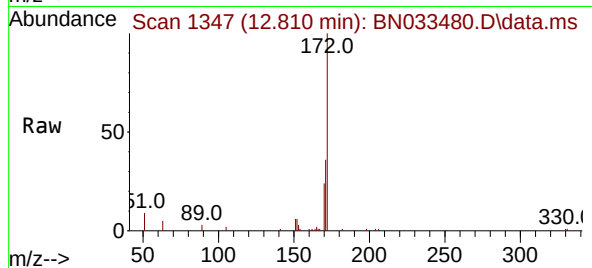
SSTDICC0.2

Tgt Ion:172	Resp:	888
Ion Ratio	Lower	Upper
172	100	
171	35.7	27.7 41.5
170	24.0	18.3 27.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#16

Acenaphthylene

Concen: 0.175 ng

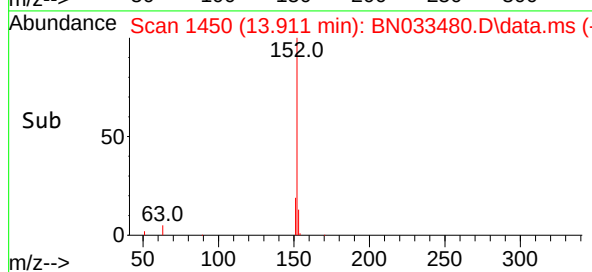
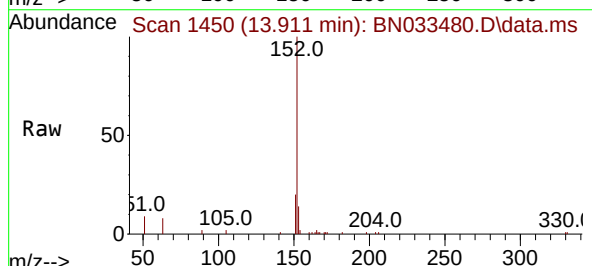
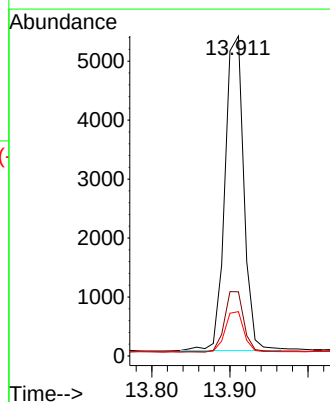
RT: 13.911 min Scan# 1450

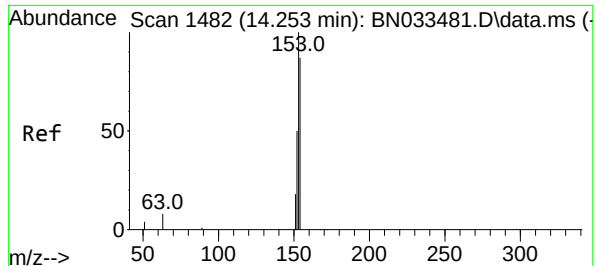
Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

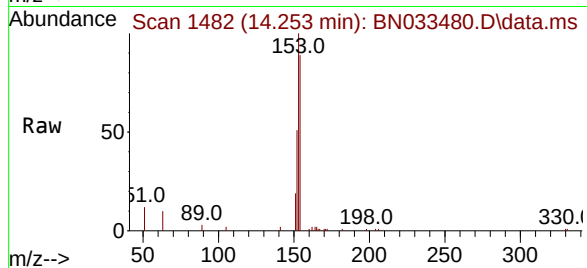
Tgt Ion:152	Resp:	8927
Ion Ratio	Lower	Upper
152	100	
151	19.5	15.7 23.5
153	12.7	10.3 15.5





#17
Acenaphthene
Concen: 0.186 ng
RT: 14.253 min Scan# 1482
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

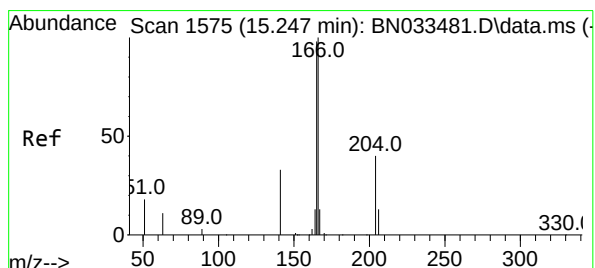
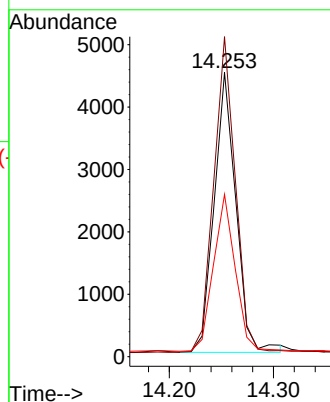
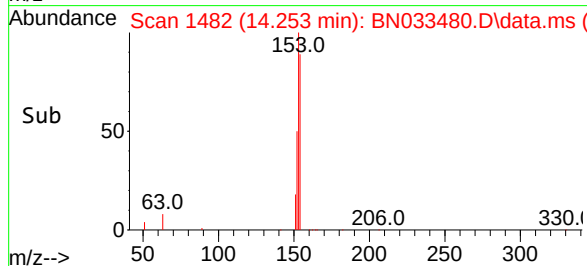
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 6529
Ion Ratio Lower Upper
154 100
153 111.0 89.0 133.6
152 55.9 45.2 67.8

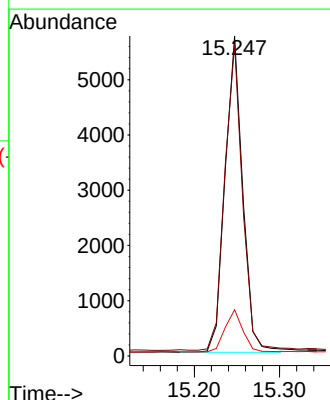
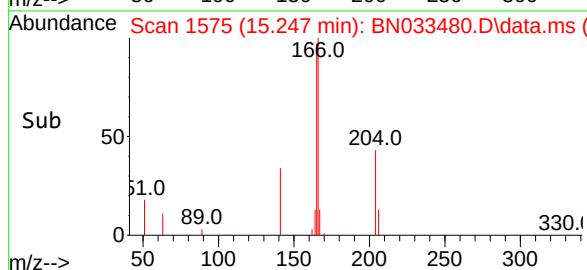
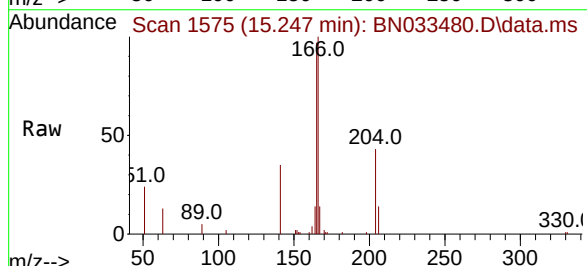
Manual Integrations
APPROVED

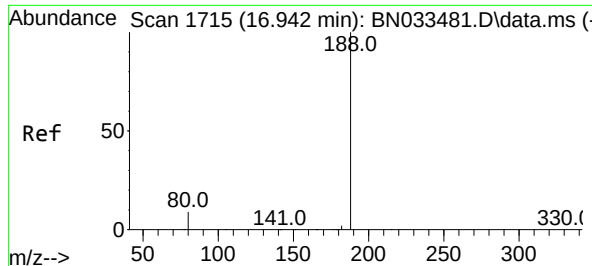
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#18
Fluorene
Concen: 0.179 ng
RT: 15.247 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:166 Resp: 8225
Ion Ratio Lower Upper
166 100
165 96.7 78.2 117.4
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

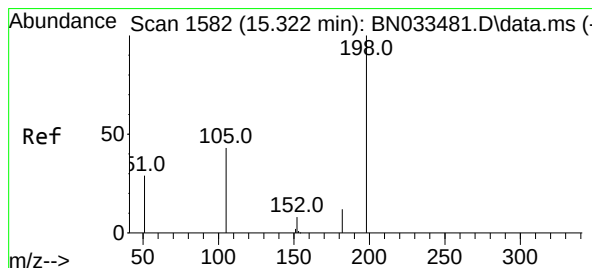
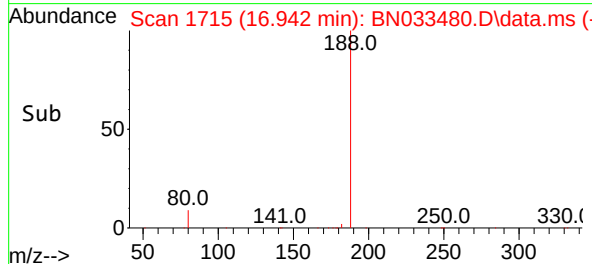
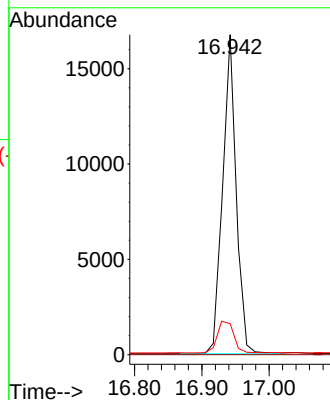
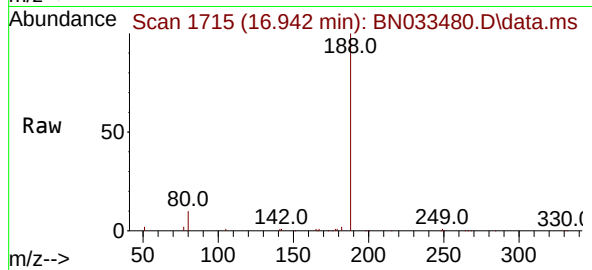
SSTDICC0.2

Tgt Ion:	188	Resp:	2330
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.7	7.8	11.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.203 ng

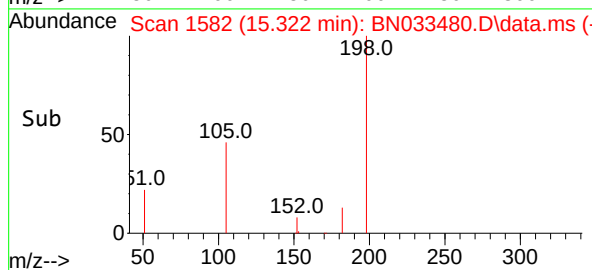
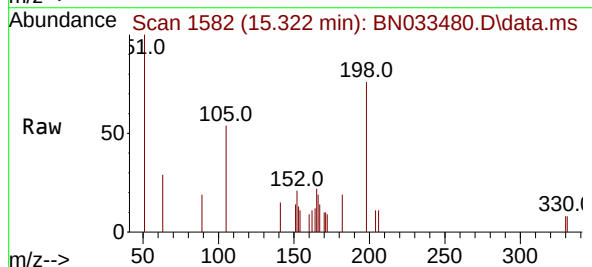
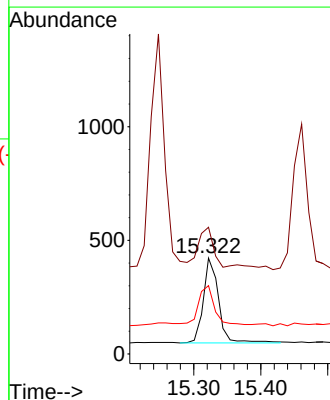
RT: 15.322 min Scan# 1582

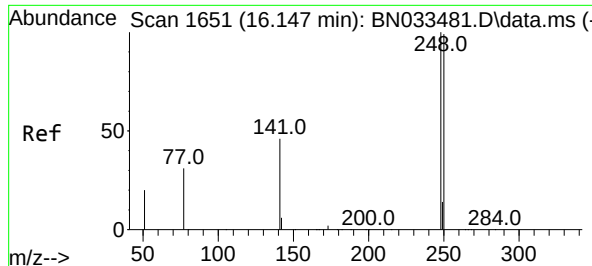
Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Tgt Ion:	198	Resp:	589
Ion Ratio	Lower	Upper	
198	100		
51	132.2	65.1	97.7#
105	71.3	44.8	67.2#





#21
4-Bromophenyl-phenylether
Concen: 0.194 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

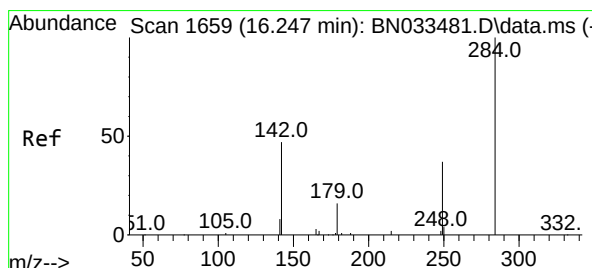
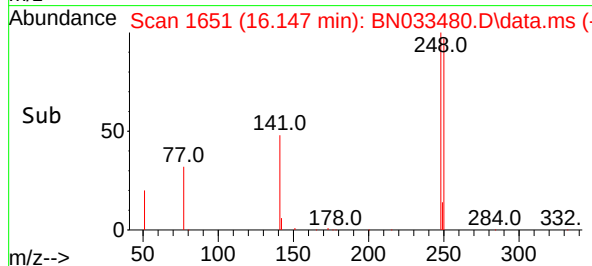
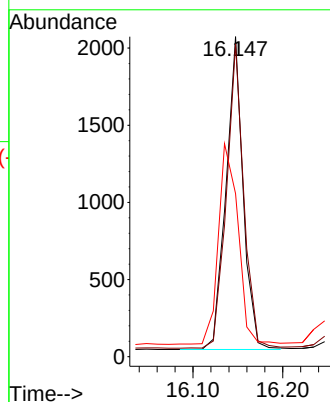
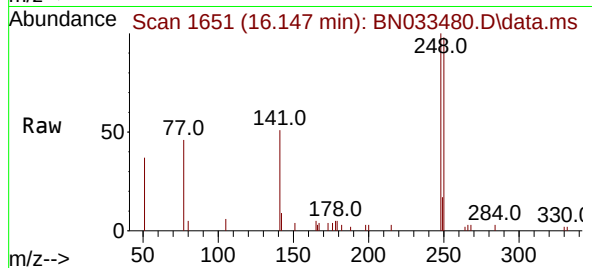
ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.7	79.2	118.8
141	51.0	37.9	56.9

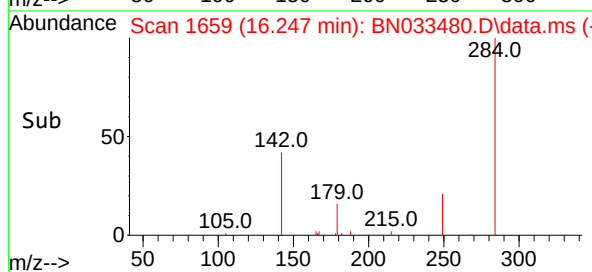
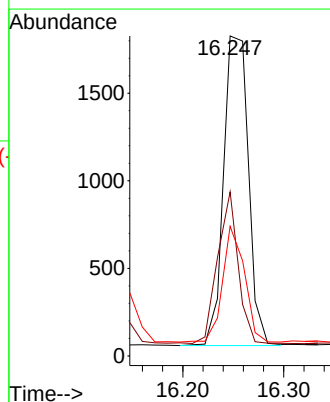
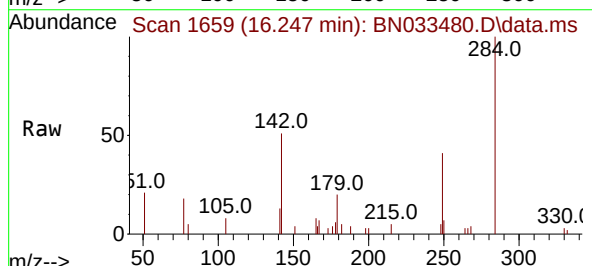
Manual Integrations
APPROVED

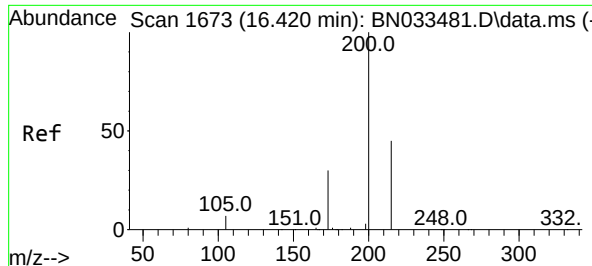
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#22
Hexachlorobenzene
Concen: 0.195 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

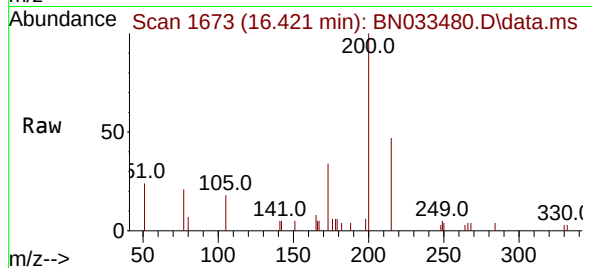
Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.0	31.8	47.6
249	32.7	26.0	39.0





#23
Atrazine
Concen: 0.193 ng
RT: 16.421 min Scan# 1673
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

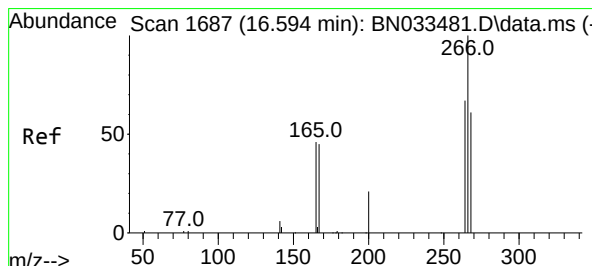
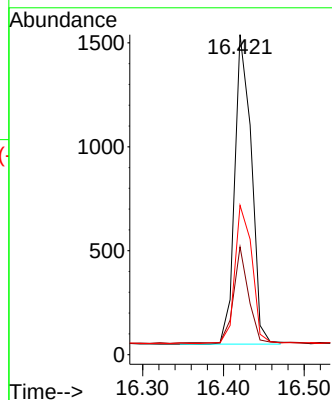
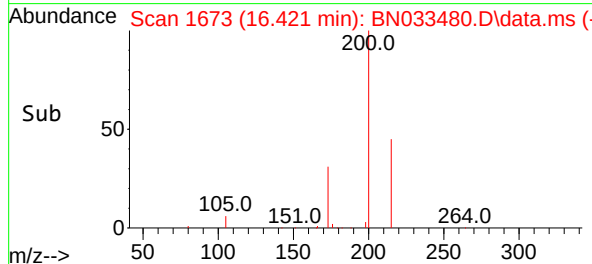
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 2139
Ion Ratio Lower Upper
200 100
173 33.7 25.3 37.9
215 46.7 36.6 54.8

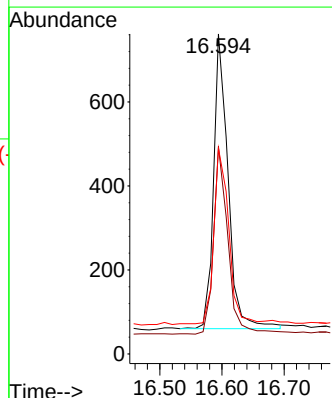
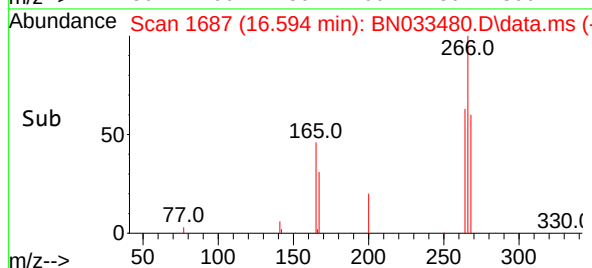
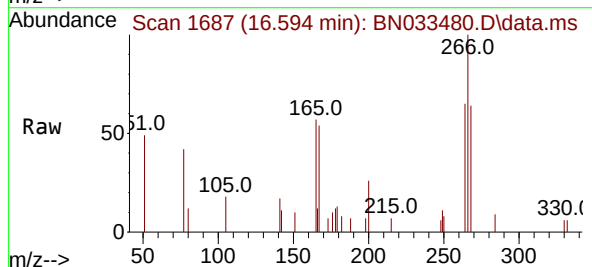
Manual Integrations
APPROVED

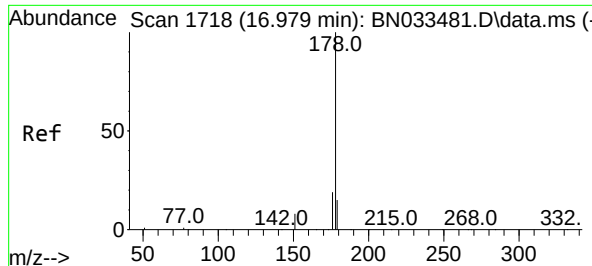
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#24
Pentachlorophenol
Concen: 0.179 ng
RT: 16.594 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

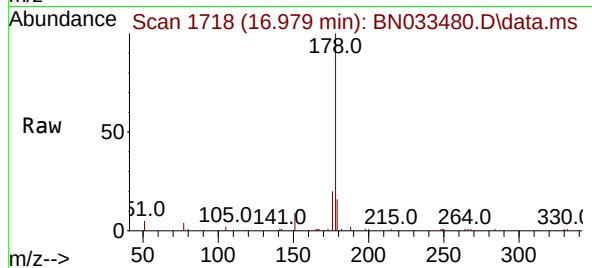
Tgt Ion:266 Resp: 1137
Ion Ratio Lower Upper
266 100
264 63.3 51.9 77.9
268 61.2 51.0 76.4





#25
Phenanthrene
Concen: 0.187 ng
RT: 16.979 min Scan# 1718
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

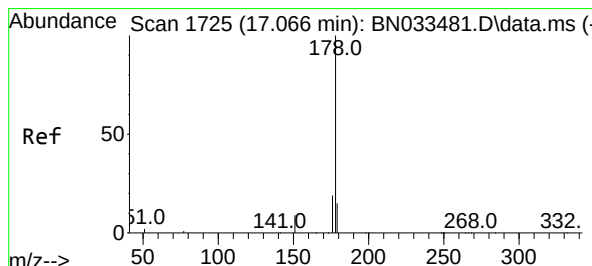
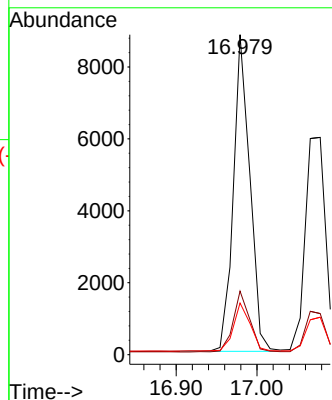
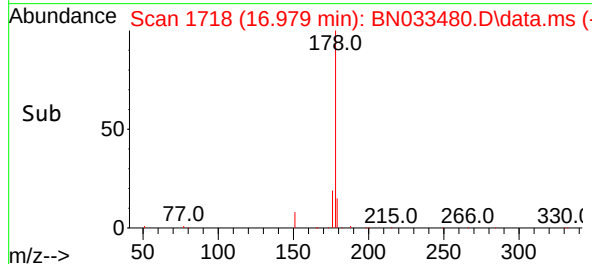
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 12438
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.5 12.3 18.5

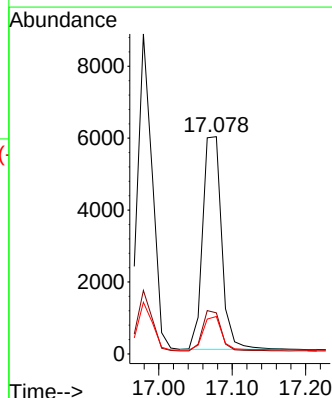
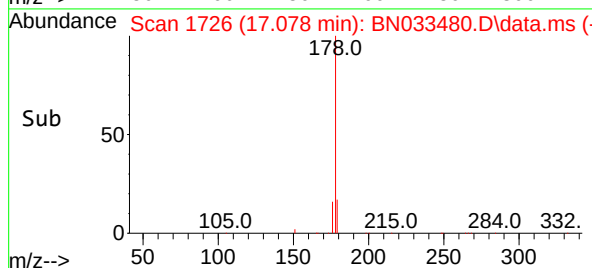
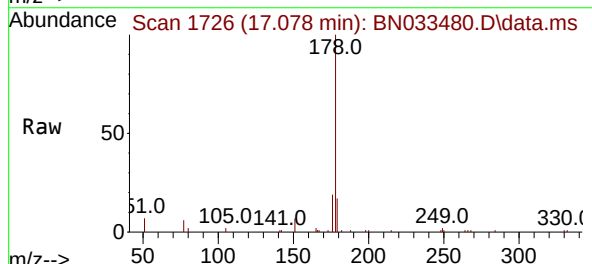
Manual Integrations
APPROVED

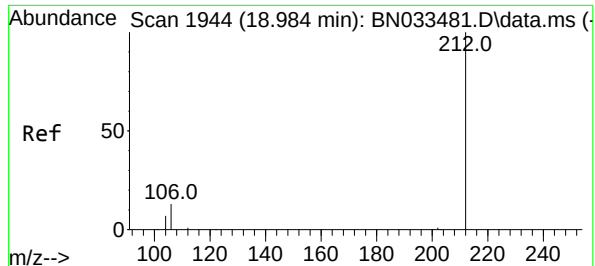
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#26
Anthracene
Concen: 0.180 ng
RT: 17.078 min Scan# 1726
Delta R.T. 0.013 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:178 Resp: 10626
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.175 ng

RT: 18.980 min Scan# 1943

Delta R.T. -0.005 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

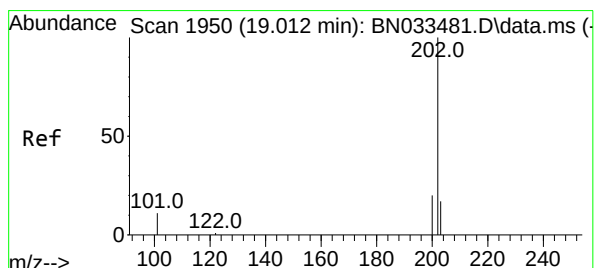
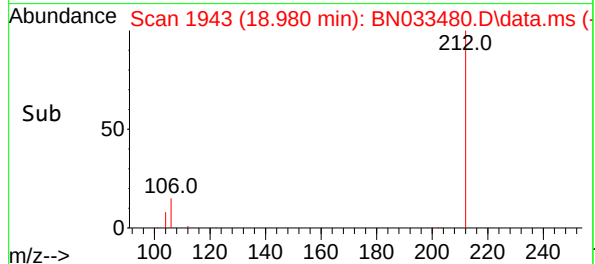
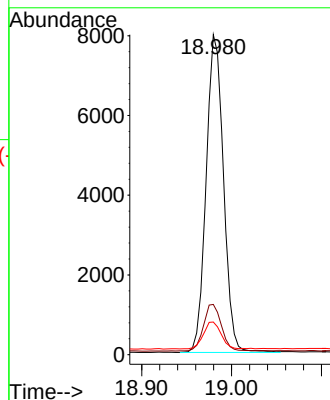
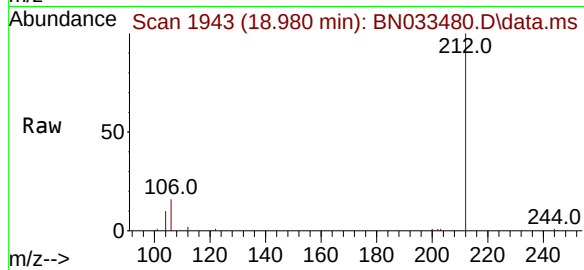
SSTDIC0.2

Tgt Ion:	212	Resp:	1071
Ion Ratio	Lower	Upper	
212	100		
106	15.0	12.3	18.5
104	8.7	7.0	10.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#28

Fluoranthene

Concen: 0.166 ng

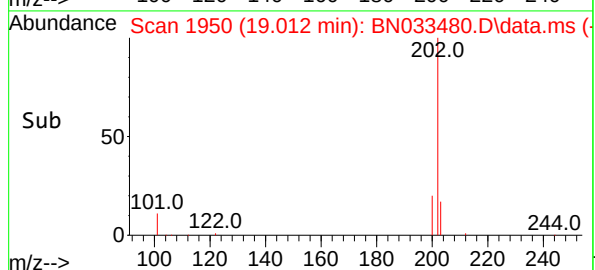
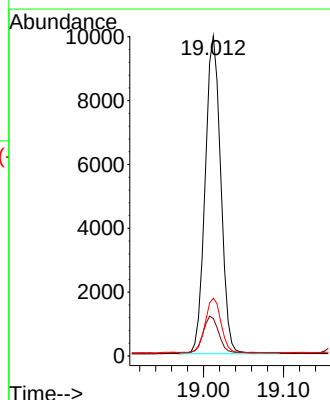
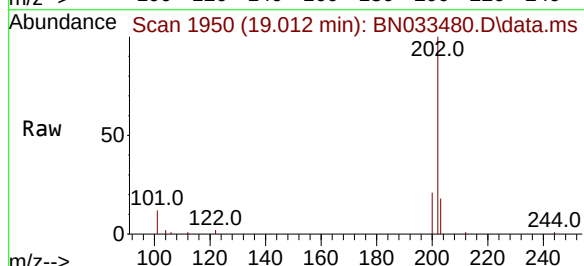
RT: 19.012 min Scan# 1950

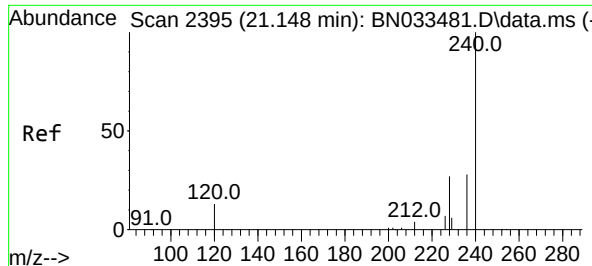
Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Tgt Ion:	202	Resp:	13434
Ion Ratio	Lower	Upper	
202	100		
101	12.4	9.5	14.3
203	17.1	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

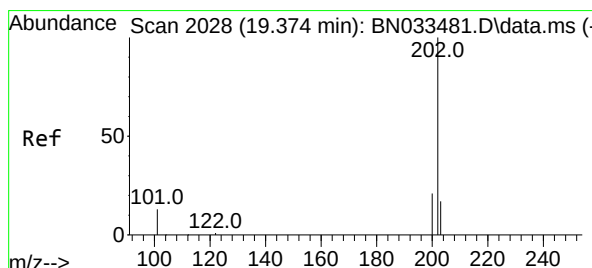
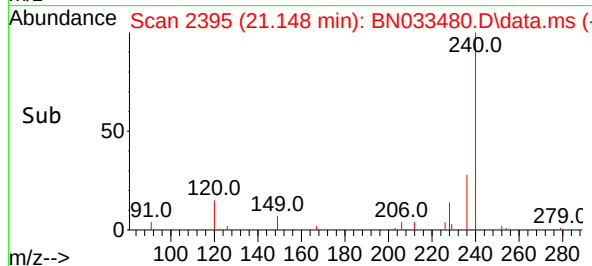
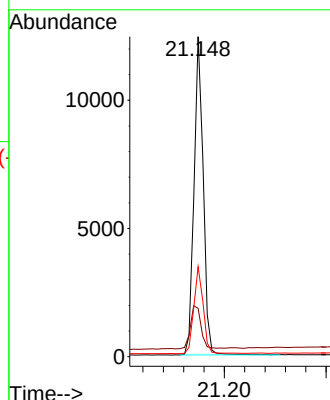
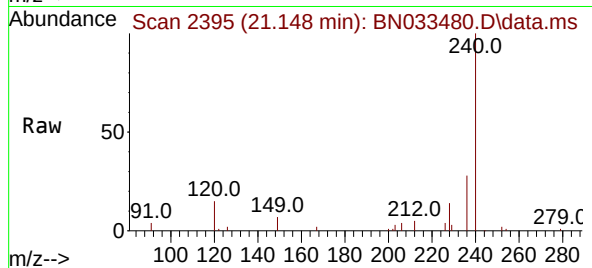
ClientSampleId :

SSTDIC0.2

Tgt Ion:	240	Resp:	15592
Ion Ratio	Lower	Upper	
240	100		
120	15.1	12.4	18.6
236	28.1	23.0	34.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#30

Pyrene

Concen: 0.219 ng

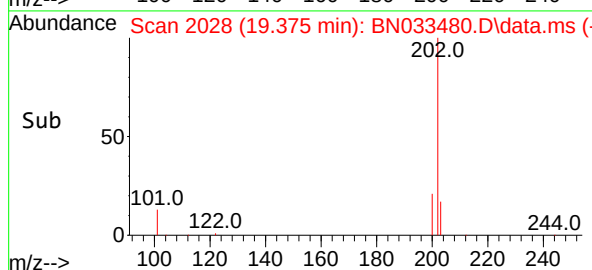
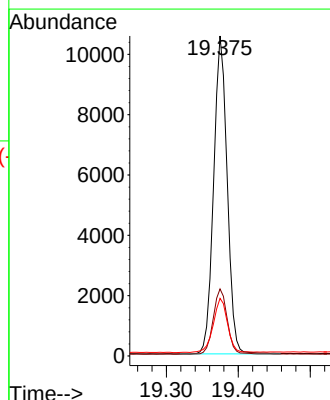
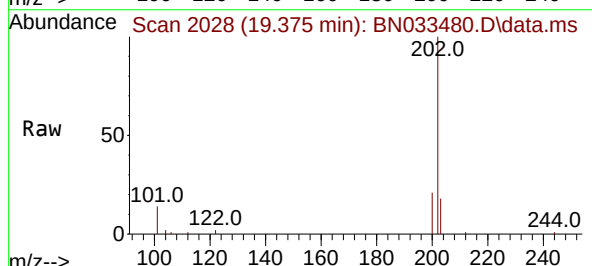
RT: 19.375 min Scan# 2028

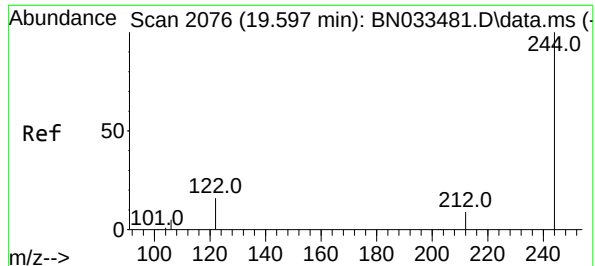
Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

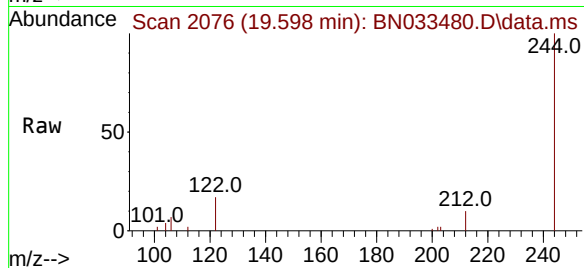
Tgt Ion:	202	Resp:	13742
Ion Ratio	Lower	Upper	
202	100		
200	21.2	16.6	24.8
203	18.0	14.2	21.4





#31
Terphenyl-d14
Concen: 0.233 ng
RT: 19.598 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

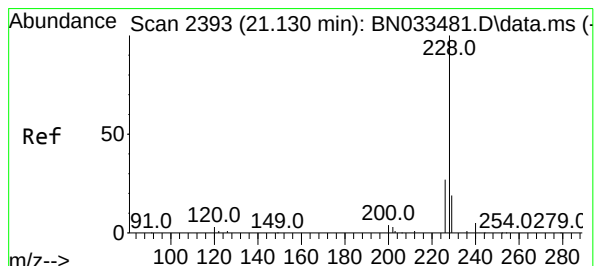
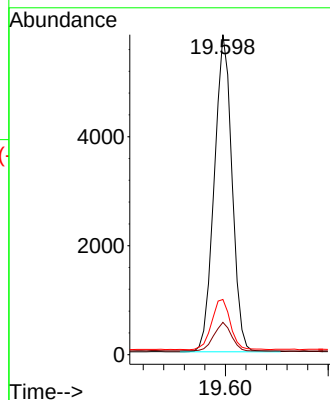
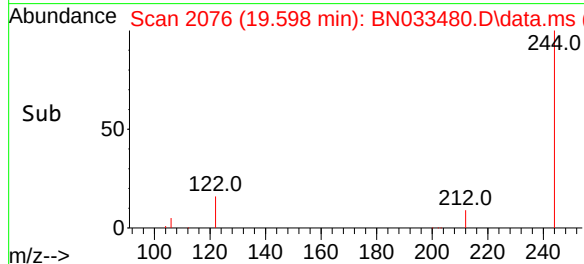
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:244 Resp: 6989
Ion Ratio Lower Upper
244 100
212 10.1 7.8 11.6
122 17.3 13.3 19.9

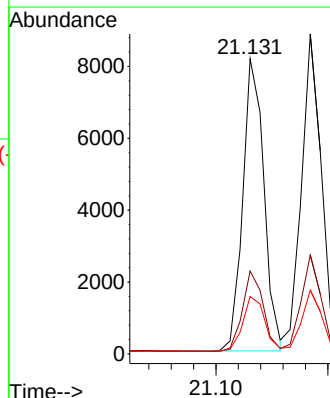
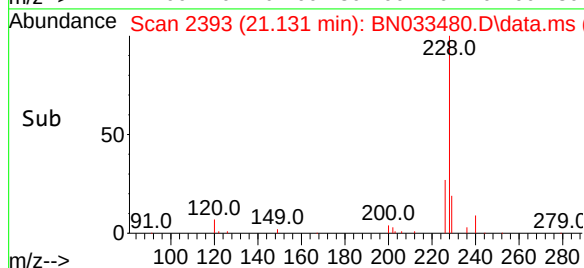
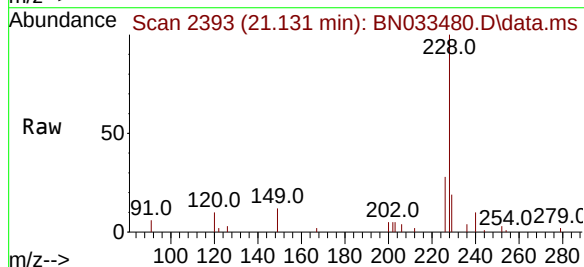
Manual Integrations
APPROVED

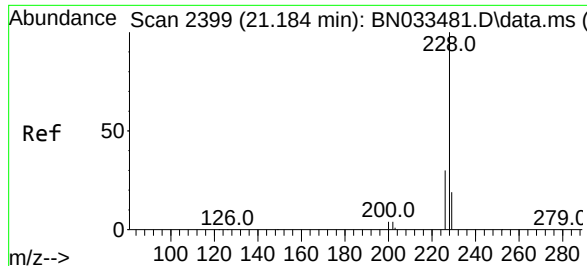
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#32
Benzo(a)anthracene
Concen: 0.184 ng
RT: 21.131 min Scan# 2393
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:228 Resp: 10672
Ion Ratio Lower Upper
228 100
226 28.1 21.8 32.6
229 19.5 15.8 23.6





#33

Chrysene

Concen: 0.188 ng

RT: 21.184 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

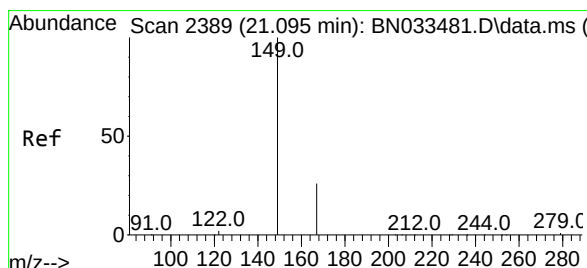
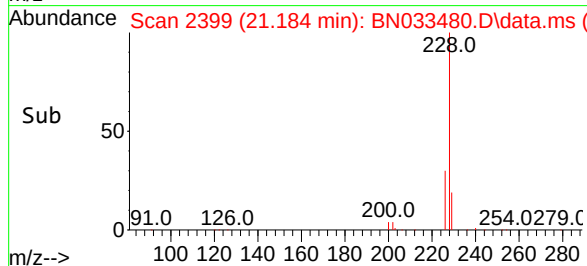
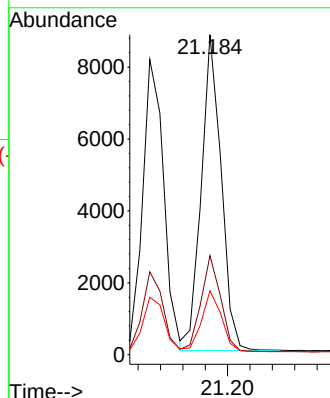
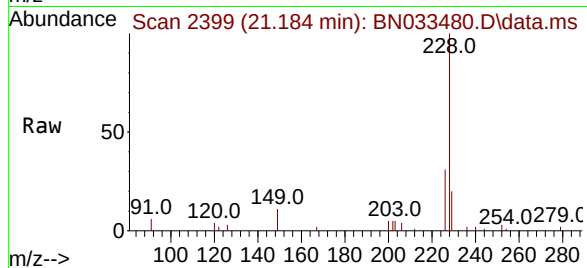
SSTDICC0.2

Tgt Ion:	228	Resp:	1085
Ion Ratio	Lower	Upper	
228	100		
226	30.9	23.8	35.8
229	19.9	15.6	23.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.257 ng

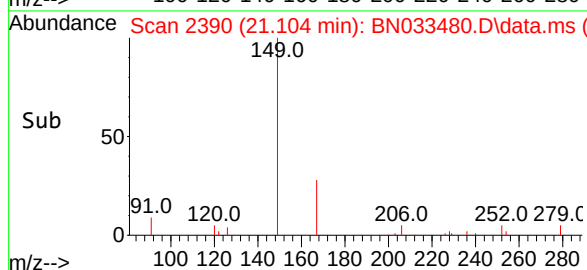
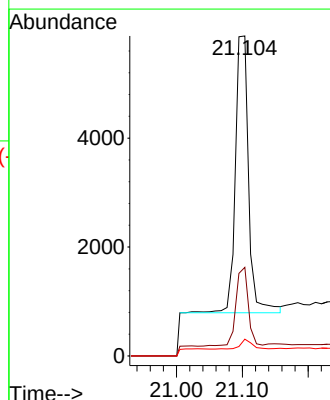
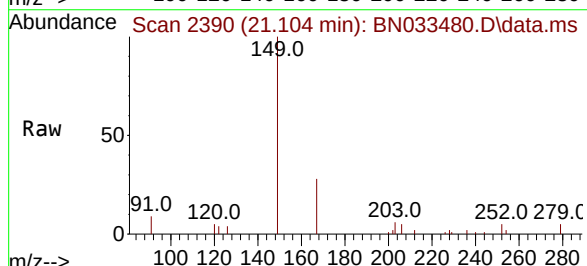
RT: 21.104 min Scan# 2390

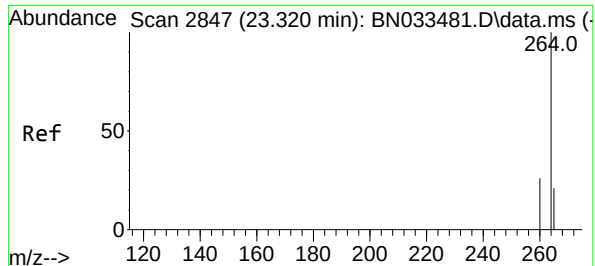
Delta R.T. 0.009 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Tgt Ion:	149	Resp:	7125
Ion Ratio	Lower	Upper	
149	100		
167	26.5	21.5	32.3
279	2.9	2.2	3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.323 min Scan# 2848

Delta R.T. 0.003 min

Lab File: BN033480.D

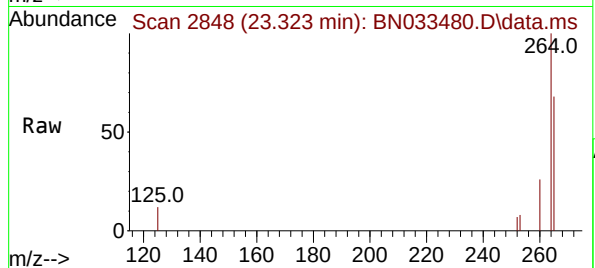
Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2



Tgt Ion:264 Resp: 15110

Ion Ratio Lower Upper

264 100

260 26.3 20.8 31.2

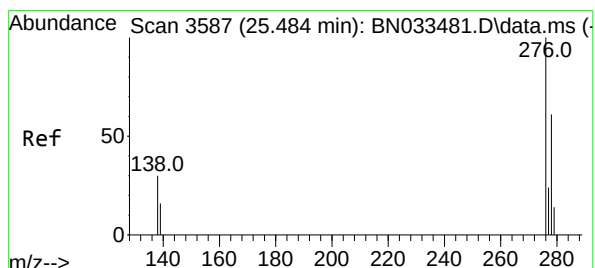
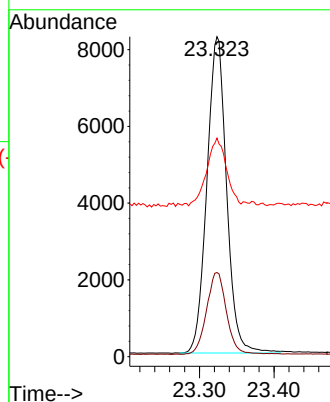
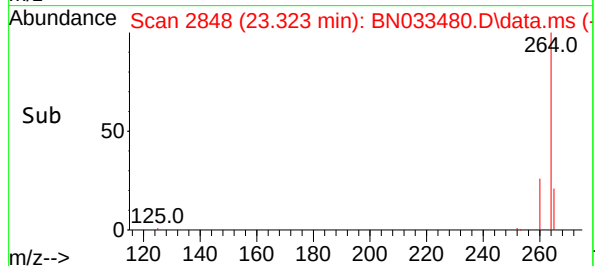
265 68.3 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.191 ng

RT: 25.481 min Scan# 3586

Delta R.T. -0.003 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

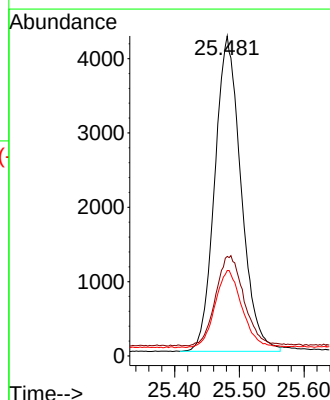
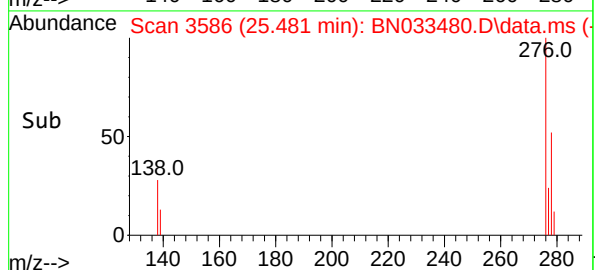
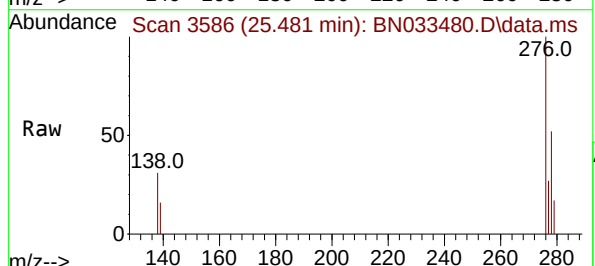
Tgt Ion:276 Resp: 11942

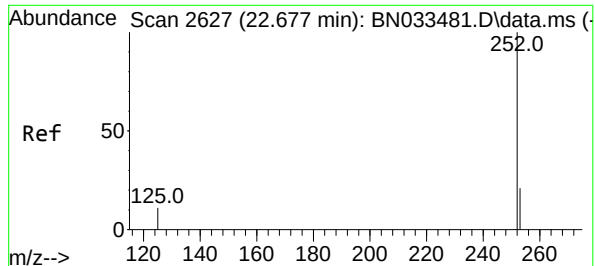
Ion Ratio Lower Upper

276 100

138 30.9 24.4 36.6

277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.192 ng

RT: 22.677 min Scan# 2627

Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

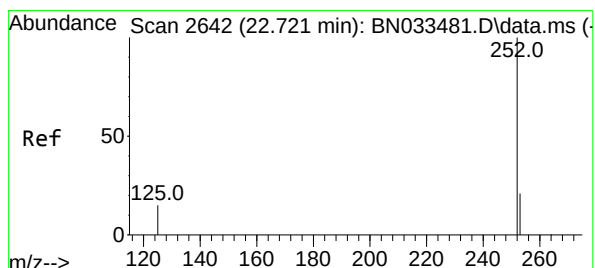
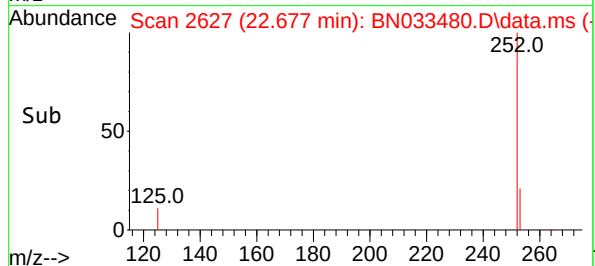
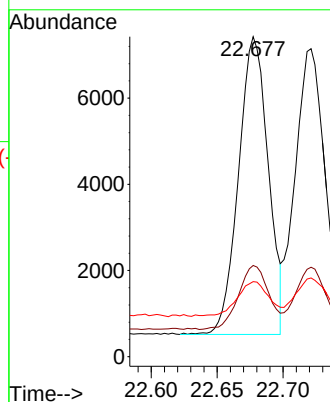
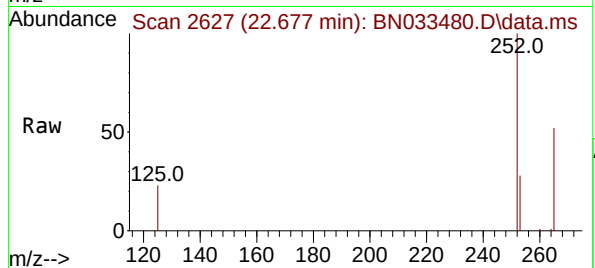
Tgt Ion:	252	Resp:	1082
Ion Ratio	Lower	Upper	
252	100		
253	28.5	19.8	29.8
125	23.5	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#38

Benzo(k)fluoranthene

Concen: 0.184 ng m

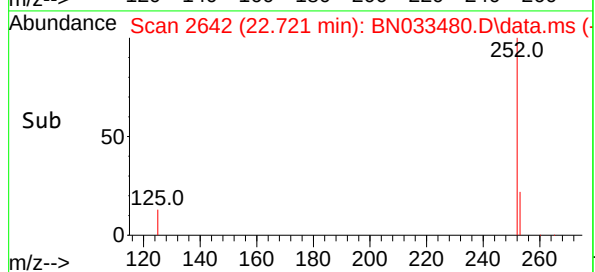
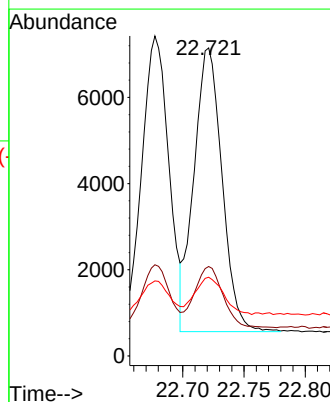
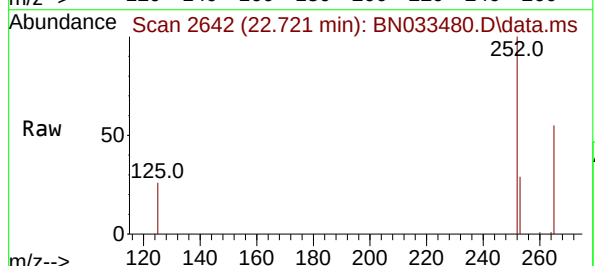
RT: 22.721 min Scan# 2642

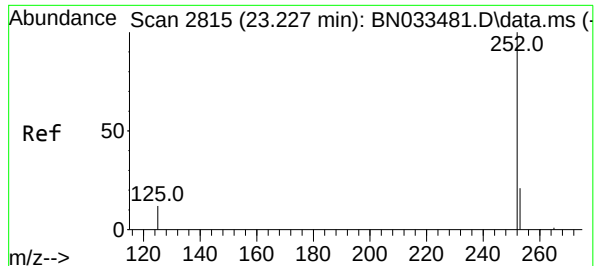
Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Tgt Ion:	252	Resp:	10527
Ion Ratio	Lower	Upper	
252	100		
253	29.0	19.8	29.8
125	25.6	15.8	23.8





#39

Benzo(a)pyrene

Concen: 0.184 ng

RT: 23.227 min Scan# 2815

Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

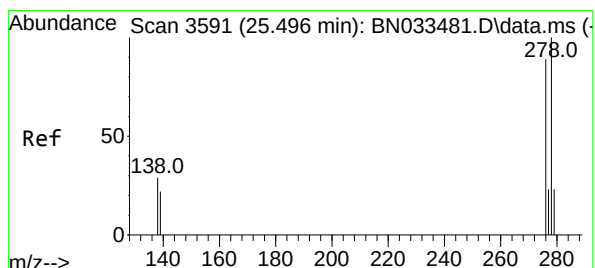
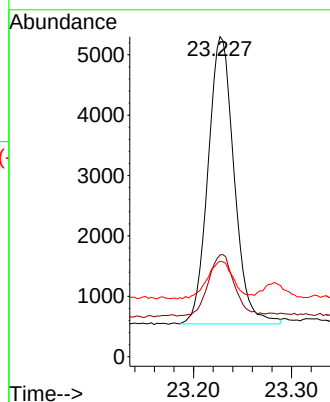
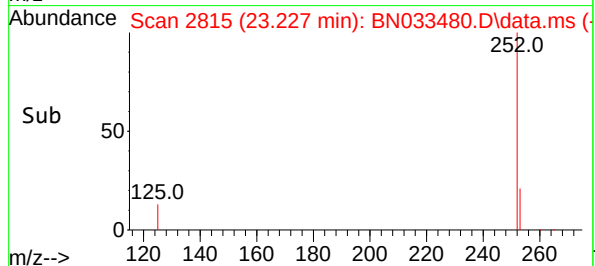
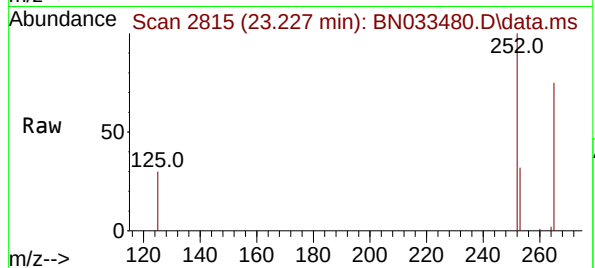
Tgt Ion:	252	Resp:	8779
Ion Ratio	Lower	Upper	
252	100		
253	31.8	21.5	32.3
125	29.9	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.193 ng

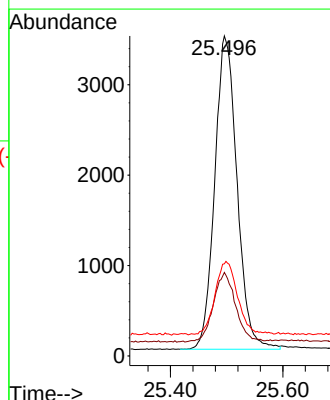
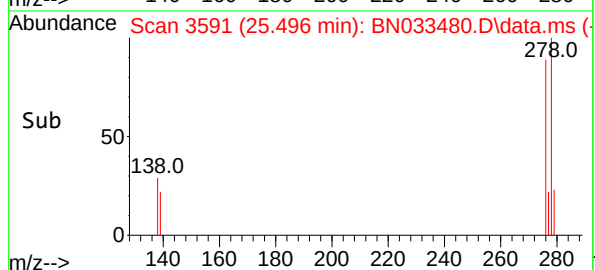
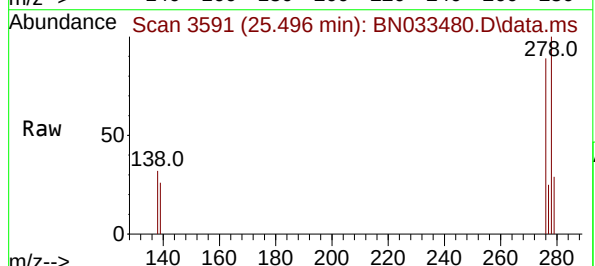
RT: 25.496 min Scan# 3591

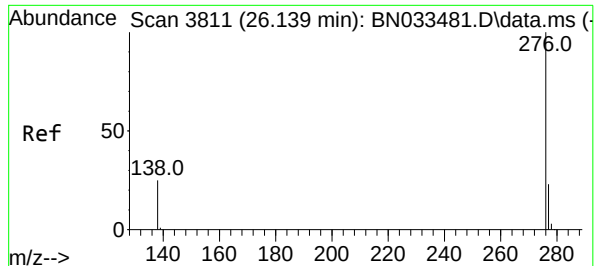
Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Tgt Ion:	278	Resp:	9553
Ion Ratio	Lower	Upper	
278	100		
139	26.1	19.1	28.7
279	28.8	21.0	31.4





#41

Benzo(g,h,i)perylene

Concen: 0.190 ng

RT: 26.136 min Scan# 3811

Delta R.T. -0.003 min

Lab File: BN033480.D

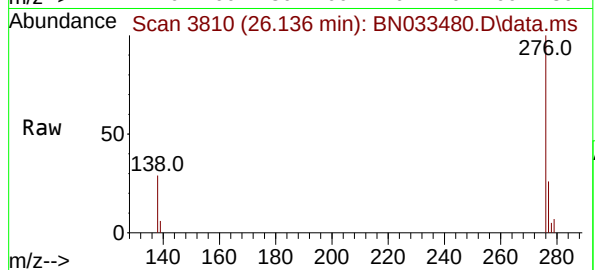
Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 1036

Ion Ratio Lower Upper

276 100

277 26.2 19.7 29.5

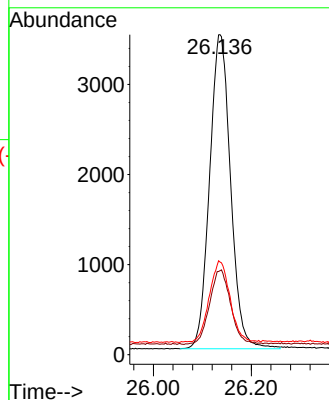
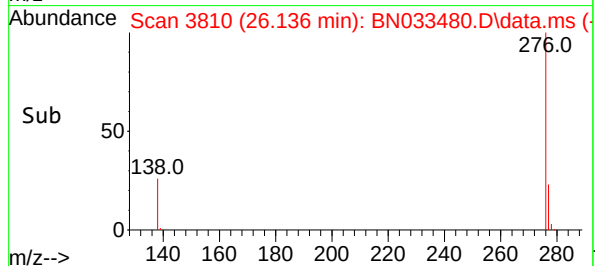
138 29.0 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033481.D
 Acq On : 19 Aug 2024 17:28
 Operator : MA/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

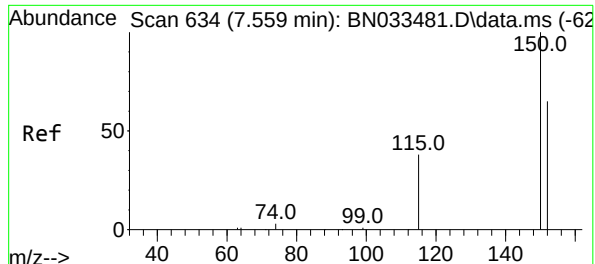
Quant Time: Aug 19 23:22:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:20:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	12893	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	24390	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	12011	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	24497	0.400	ng	0.00
29) Chrysene-d12	21.148	240	16119	0.400	ng	0.00
35) Perylene-d12	23.320	264	15903	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	16332	0.450	ng	0.00
5) Phenol-d6	6.743	99	17540	0.370	ng	0.00
8) Nitrobenzene-d5	8.691	82	7402	0.401	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	12006	0.327	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	2219	0.362	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	17864	0.367	ng	0.00
27) Fluoranthene-d10	18.984	212	21323	0.332	ng	0.00
31) Terphenyl-d14	19.597	244	13894	0.447	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.190	88	4244	0.306	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.479	42	5877	0.327	ng	100
6) bis(2-Chloroethyl)ether	6.996	93	9709	0.263	ng	100
9) Naphthalene	10.368	128	23095	0.349	ng	100
10) Hexachlorobutadiene	10.667	225	4688	0.369	ng	# 100
12) 2-Methylnaphthalene	11.990	142	14284	0.323	ng	100
16) Acenaphthylene	13.911	152	18435	0.334	ng	100
17) Acenaphthene	14.253	154	13259	0.349	ng	100
18) Fluorene	15.247	166	16584	0.334	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	1253	0.410	ng	100
21) 4-Bromophenyl-phenylether	16.147	248	5430	0.372	ng	100
22) Hexachlorobenzene	16.247	284	6099	0.374	ng	100
23) Atrazine	16.420	200	4249	0.365	ng	100
24) Pentachlorophenol	16.594	266	2368	0.354	ng	100
25) Phenanthrene	16.979	178	25297	0.361	ng	100
26) Anthracene	17.066	178	21458	0.347	ng	100
28) Fluoranthene	19.012	202	27103	0.319	ng	100
30) Pyrene	19.374	202	27468	0.423	ng	100
32) Benzo(a)anthracene	21.130	228	21232	0.355	ng	100
33) Chrysene	21.184	228	21457	0.360	ng	100
34) Bis(2-ethylhexyl)phtha...	21.095	149	13125	0.459	ng	98
36) Indeno(1,2,3-cd)pyrene	25.484	276	24410	0.370	ng	100
37) Benzo(b)fluoranthene	22.677	252	21250	0.358	ng	100
38) Benzo(k)fluoranthene	22.721	252	21063	0.350	ng	100
39) Benzo(a)pyrene	23.227	252	17428	0.348	ng	100
40) Dibenzo(a,h)anthracene	25.496	278	19569	0.375	ng	100
41) Benzo(g,h,i)perylene	26.139	276	20604	0.359	ng	100

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

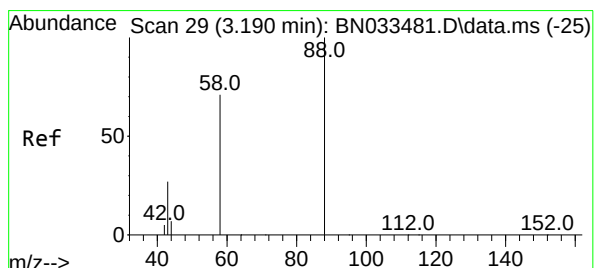
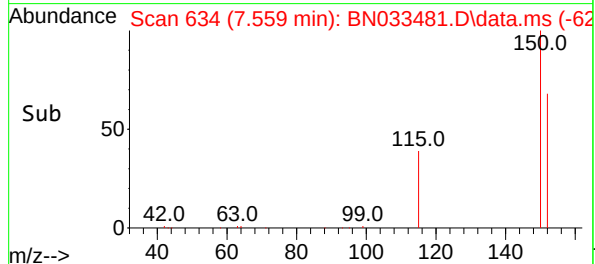
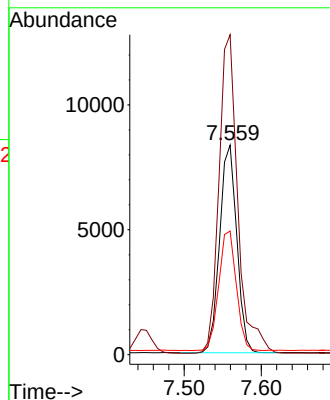
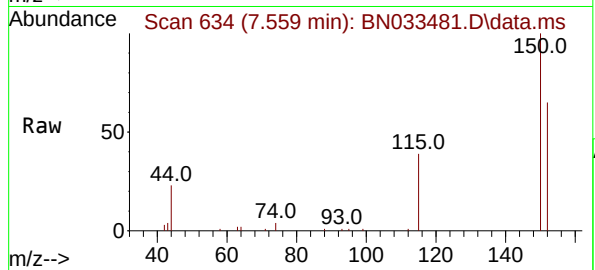
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

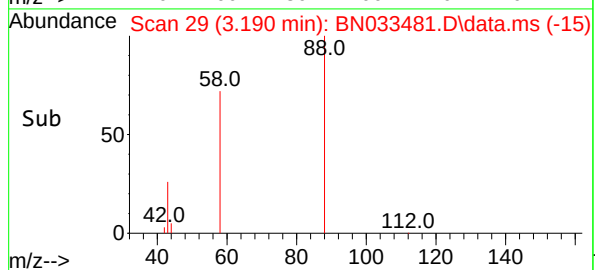
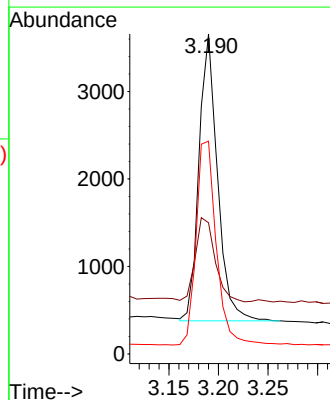
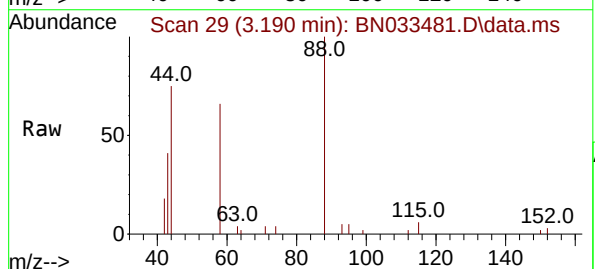
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

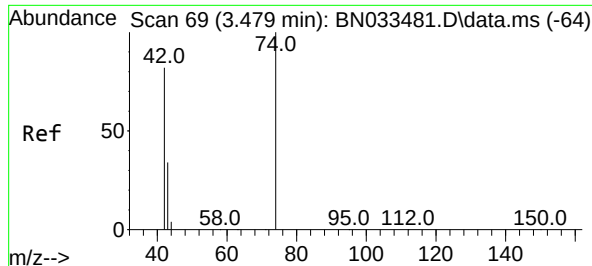
Tgt Ion:152 Resp: 12893
Ion Ratio Lower Upper
152 100
150 152.7 122.2 183.2
115 59.0 47.2 70.8



#2
1,4-Dioxane
Concen: 0.306 ng
RT: 3.190 min Scan# 29
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion: 88 Resp: 4244
Ion Ratio Lower Upper
88 100
43 31.2 25.0 37.4
58 78.1 62.5 93.7

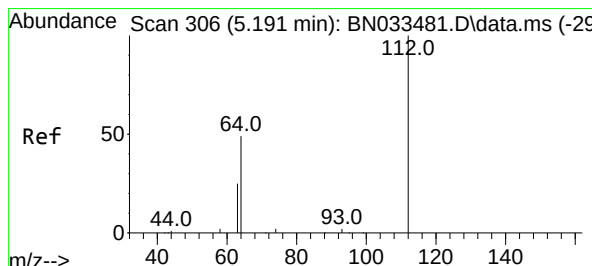
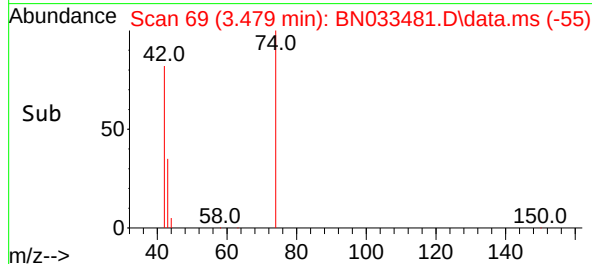
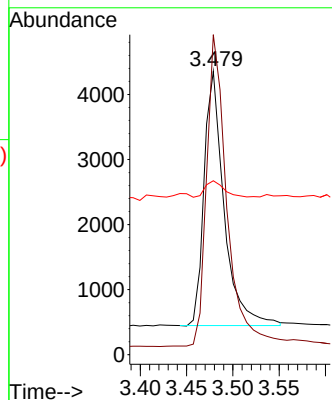
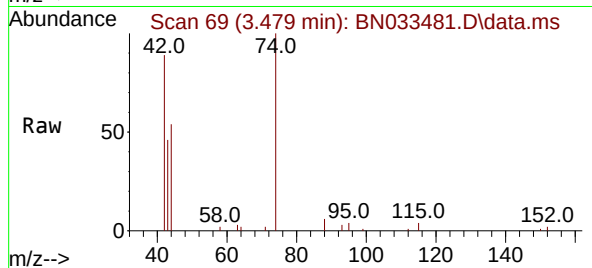




#3
n-Nitrosodimethylamine
Concen: 0.327 ng
RT: 3.479 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

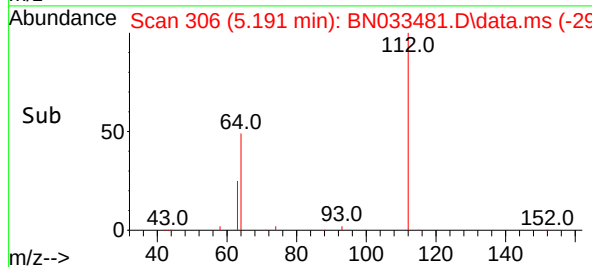
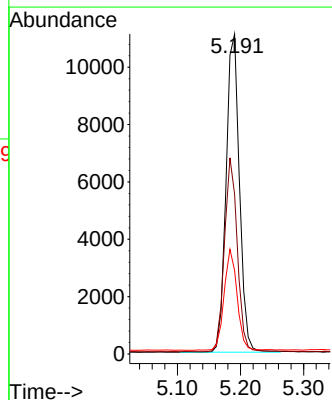
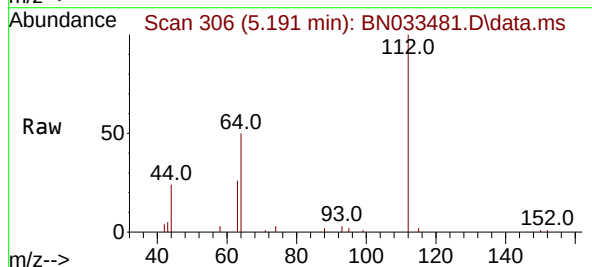
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

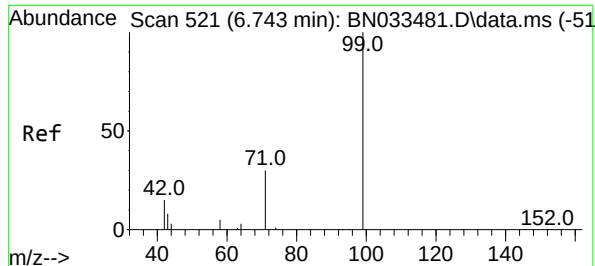
Tgt Ion: 42 Resp: 5877
Ion Ratio Lower Upper
42 100
74 125.2 100.2 150.2
44 6.6 5.3 7.9



#4
2-Fluorophenol
Concen: 0.450 ng
RT: 5.191 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion: 112 Resp: 16332
Ion Ratio Lower Upper
112 100
64 59.0 47.1 70.7
63 31.0 24.9 37.3

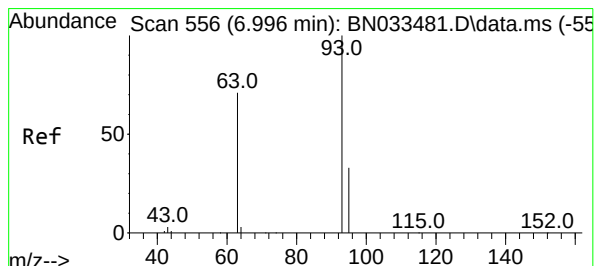
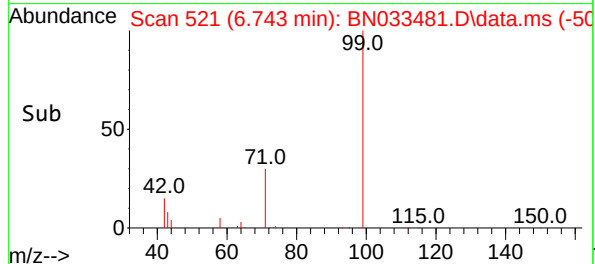
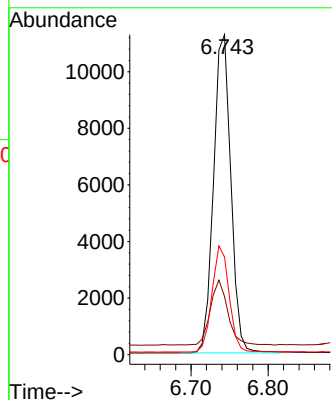
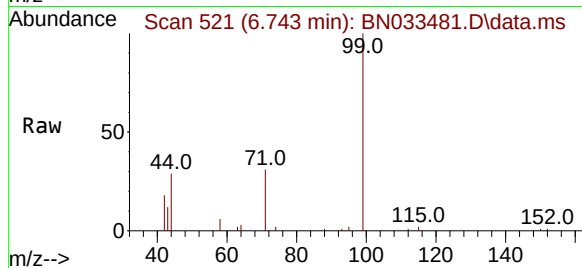




#5
Phenol-d6
Concen: 0.370 ng
RT: 6.743 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

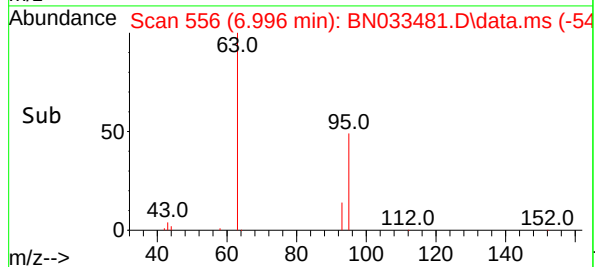
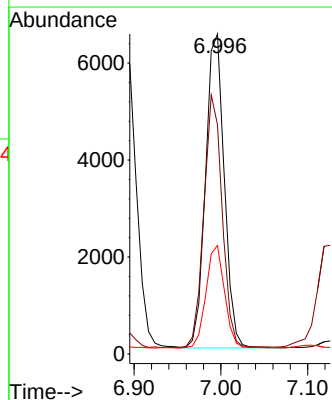
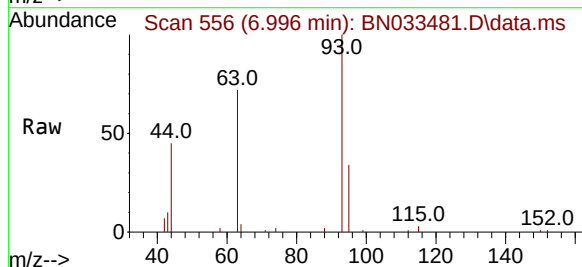
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

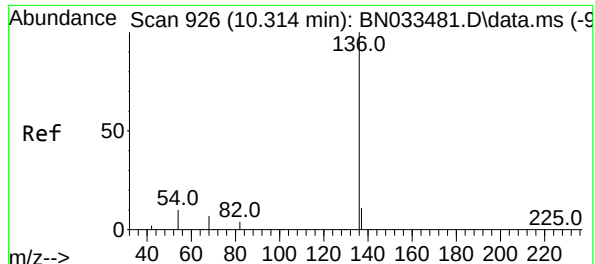
Tgt Ion: 99 Resp: 17540
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 32.9 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 0.263 ng
RT: 6.996 min Scan# 556
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion: 93 Resp: 9709
Ion Ratio Lower Upper
93 100
63 78.6 63.0 94.4
95 32.4 26.0 39.0

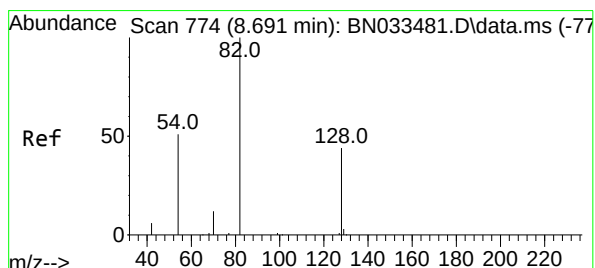
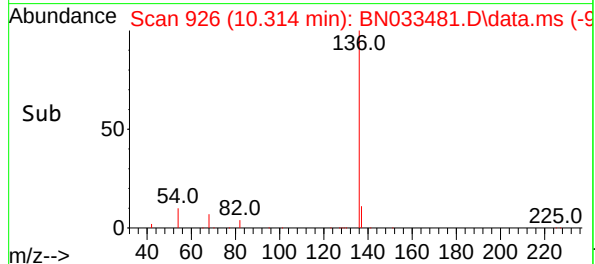
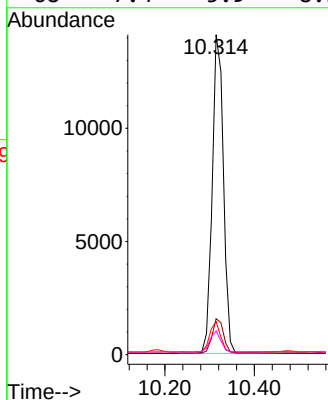
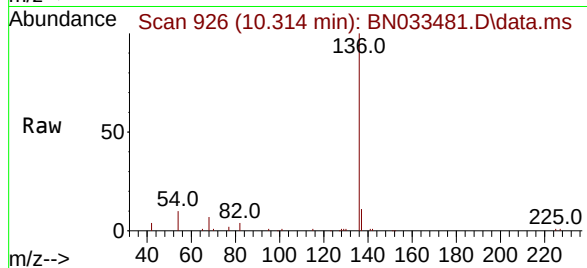




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

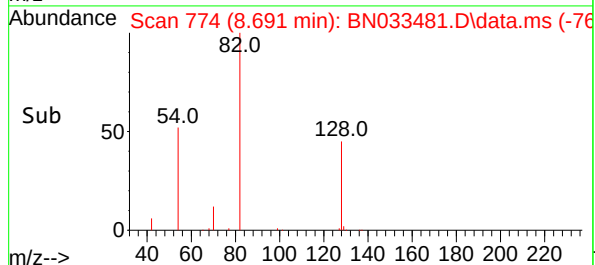
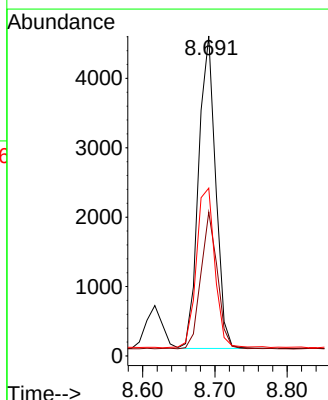
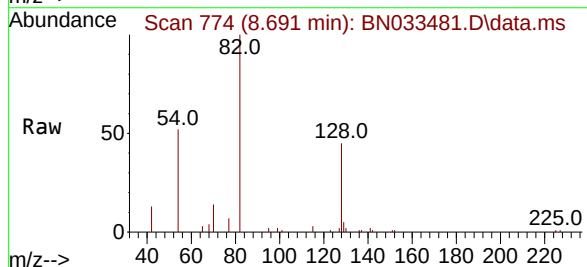
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

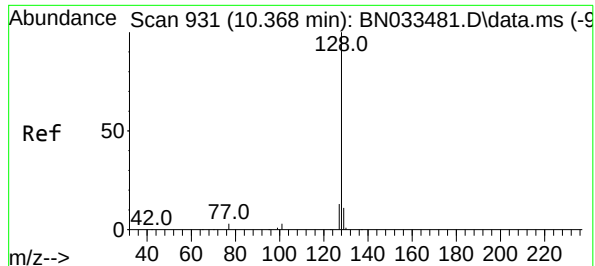
Tgt Ion:	136	Resp:	24390
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	10.4	8.3	12.5
68	7.4	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.401 ng
RT: 8.691 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:	82	Resp:	7402
Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.0	54.0
54	52.5	42.0	63.0





#9
Naphthalene

Concen: 0.349 ng

RT: 10.368 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

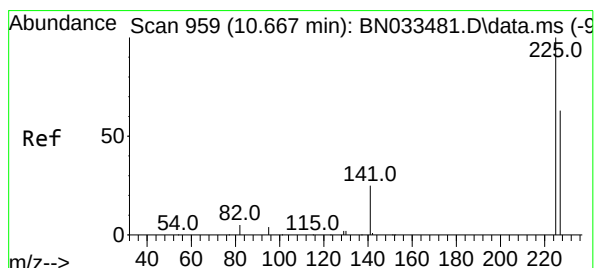
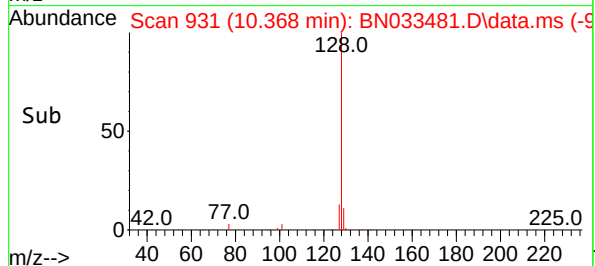
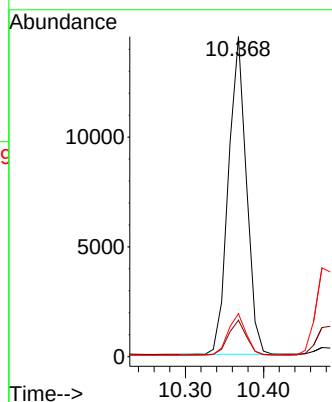
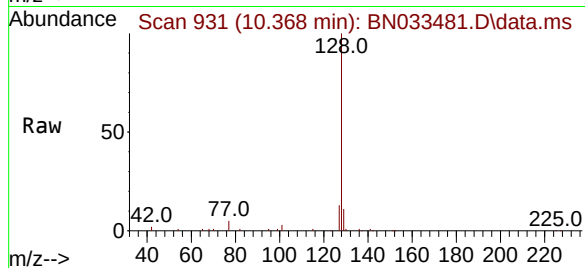
Tgt Ion:128 Resp: 23095

Ion Ratio Lower Upper

128 100

129 11.4 9.1 13.7

127 13.4 10.7 16.1



#10

Hexachlorobutadiene

Concen: 0.369 ng

RT: 10.667 min Scan# 959

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

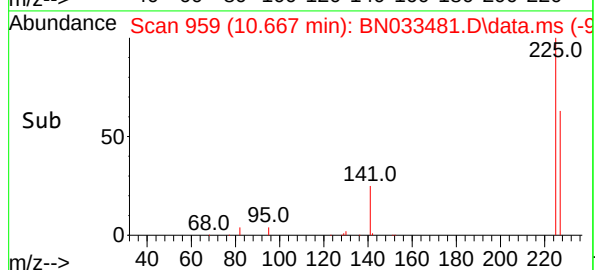
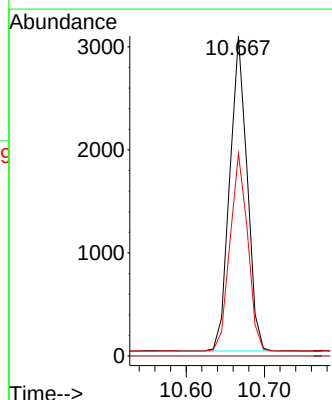
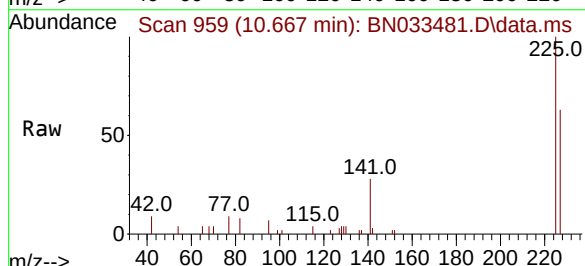
Tgt Ion:225 Resp: 4688

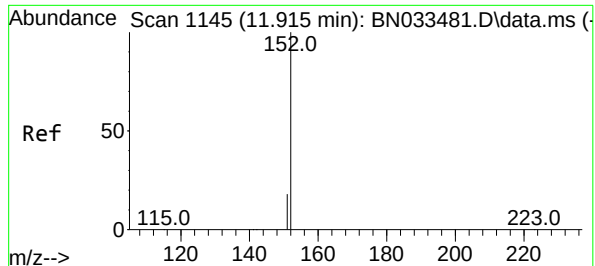
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.0 51.2 76.8

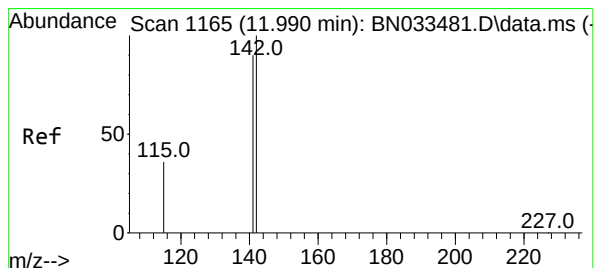
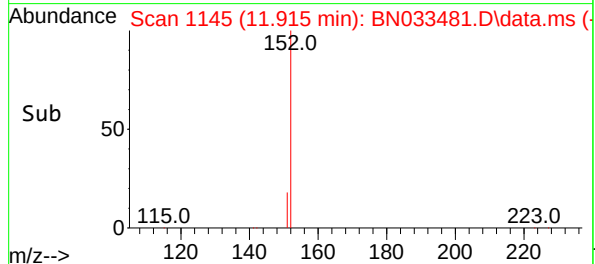
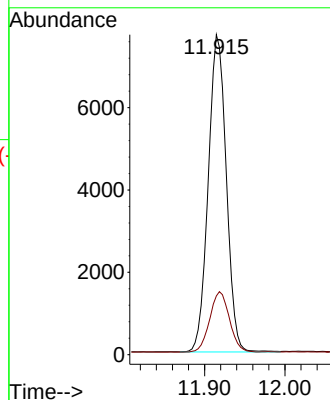
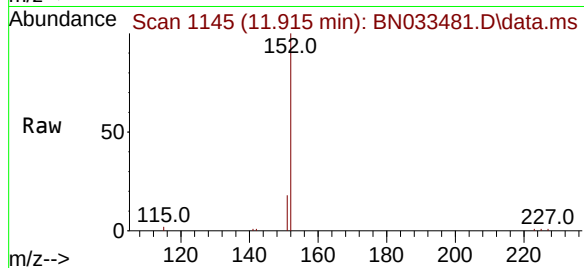




#11
2-Methylnaphthalene-d10
Concen: 0.327 ng
RT: 11.915 min Scan# 1145
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

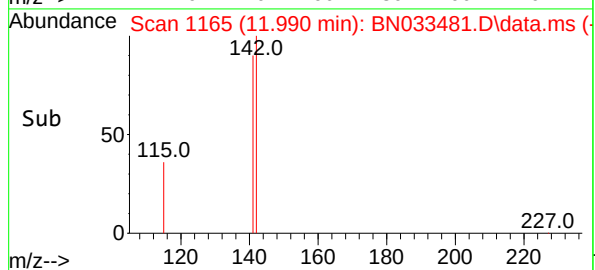
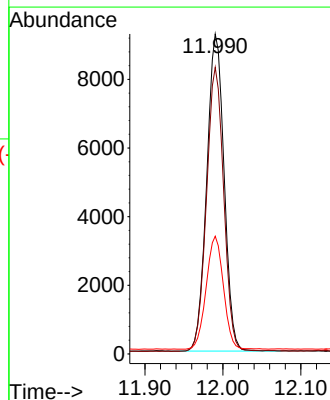
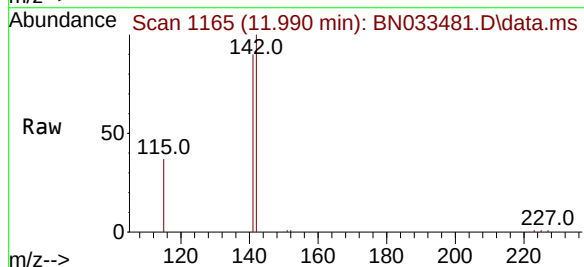
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

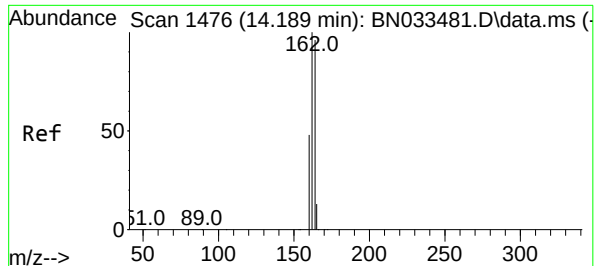
Tgt Ion:152 Resp: 12006
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.323 ng
RT: 11.990 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:142 Resp: 14284
Ion Ratio Lower Upper
142 100
141 89.6 71.7 107.5
115 36.8 29.4 44.2

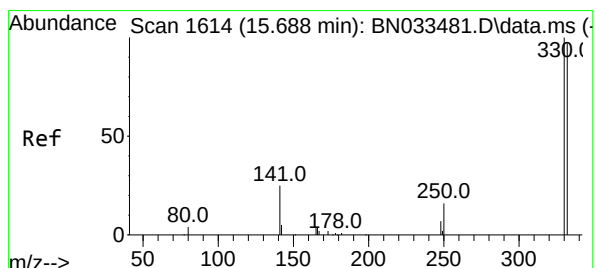
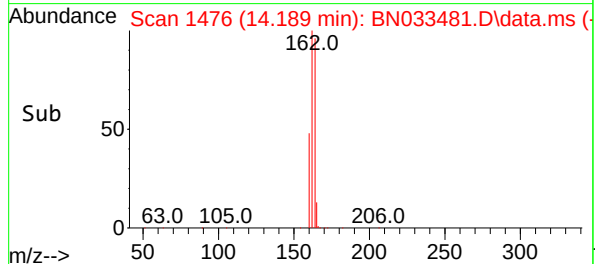
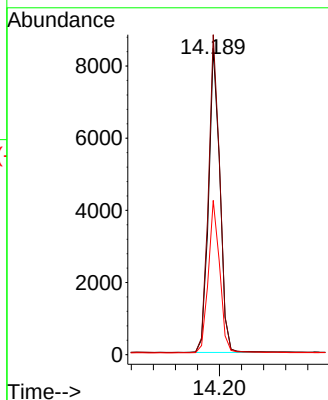
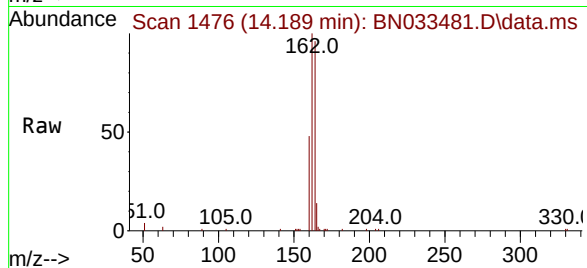




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

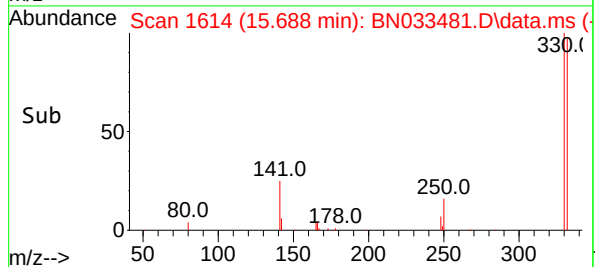
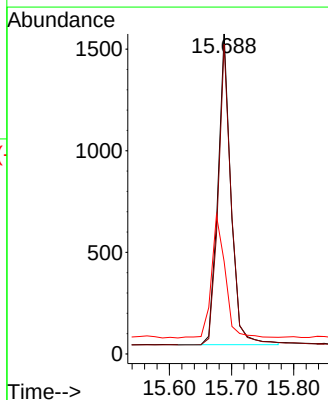
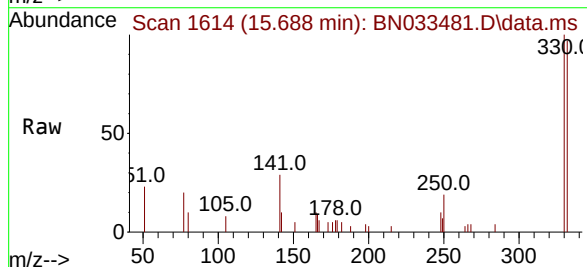
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

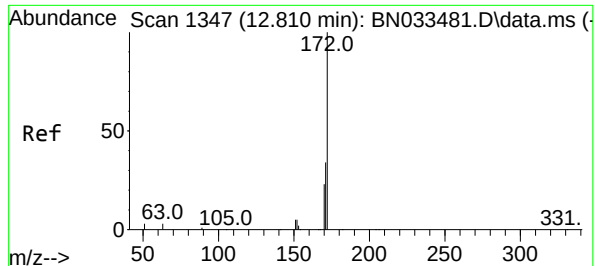
Tgt Ion:164 Resp: 12011
Ion Ratio Lower Upper
164 100
162 104.4 83.5 125.3
160 50.3 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.362 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:330 Resp: 2219
Ion Ratio Lower Upper
330 100
332 96.9 77.5 116.3
141 42.4 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 0.367 ng

RT: 12.810 min Scan# 1347

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

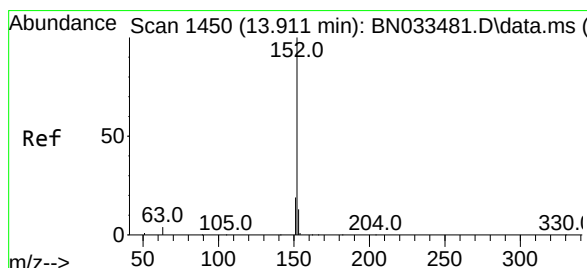
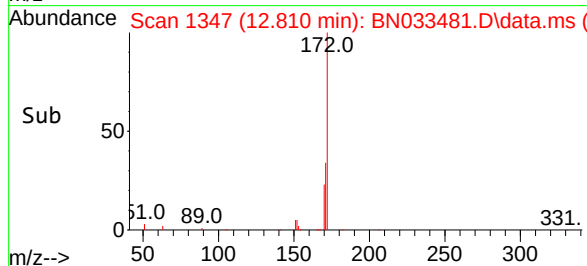
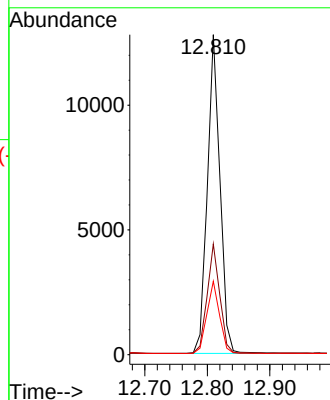
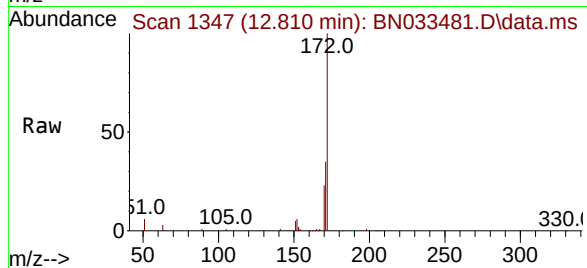
Tgt Ion:172 Resp: 17864

Ion Ratio Lower Upper

172 100

171 34.6 27.7 41.5

170 22.9 18.3 27.5



#16

Acenaphthylene

Concen: 0.334 ng

RT: 13.911 min Scan# 1450

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

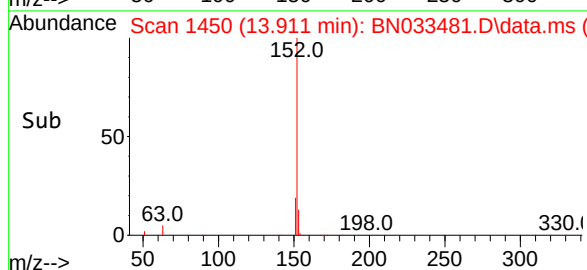
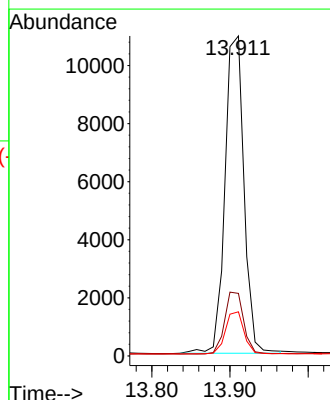
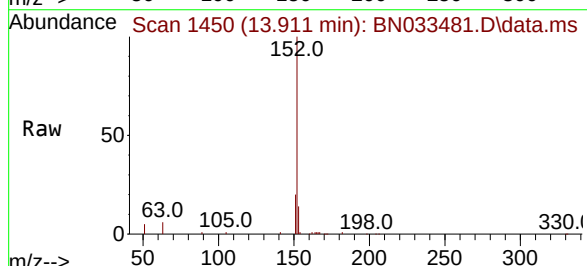
Tgt Ion:152 Resp: 18435

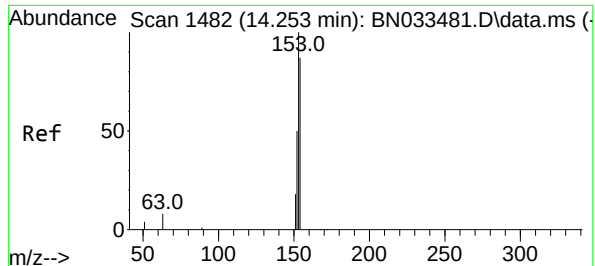
Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

153 12.9 10.3 15.5





#17

Acenaphthene

Concen: 0.349 ng

RT: 14.253 min Scan# 1482

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

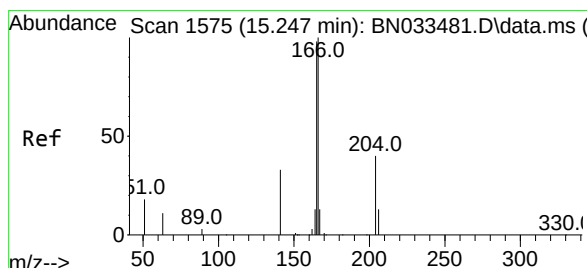
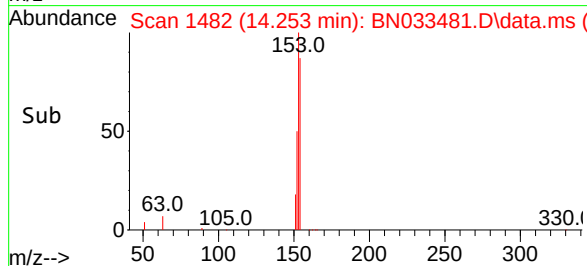
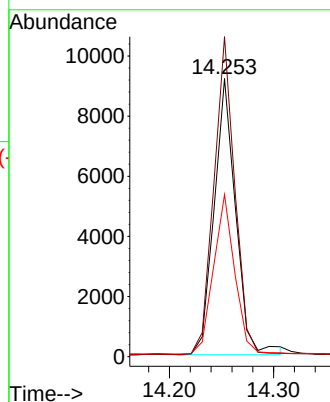
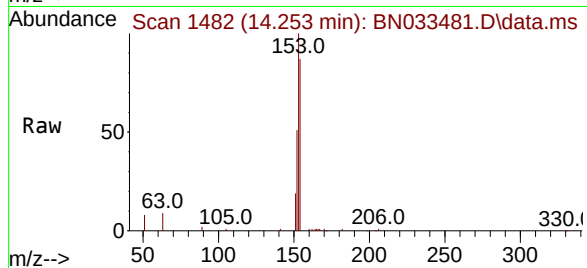
Tgt Ion:154 Resp: 13259

Ion Ratio Lower Upper

154 100

153 111.3 89.0 133.6

152 56.5 45.2 67.8



#18

Fluorene

Concen: 0.334 ng

RT: 15.247 min Scan# 1575

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

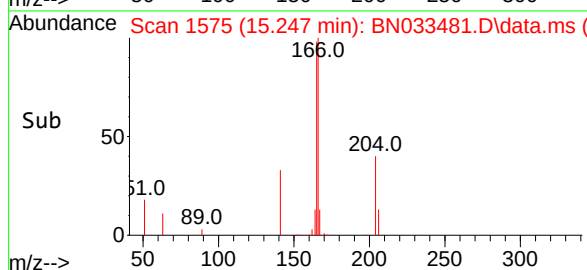
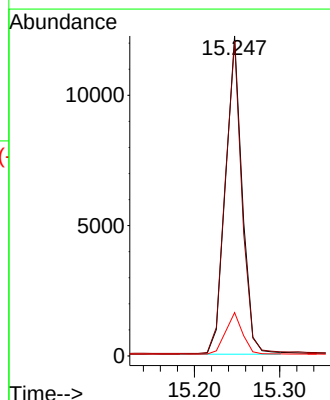
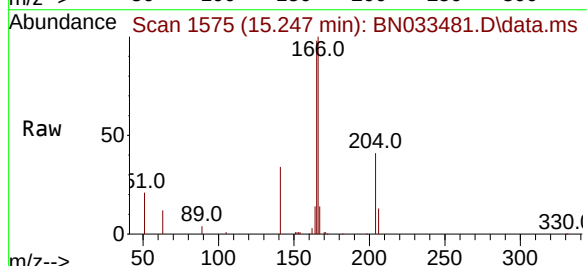
Tgt Ion:166 Resp: 16584

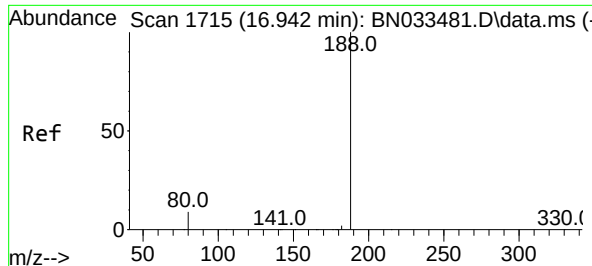
Ion Ratio Lower Upper

166 100

165 97.8 78.2 117.4

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

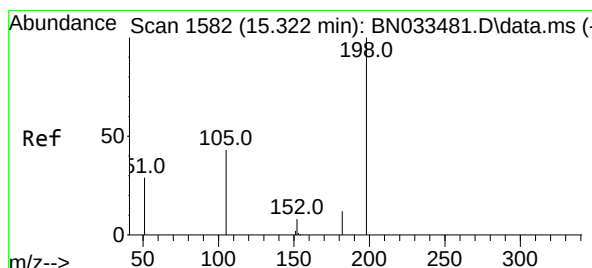
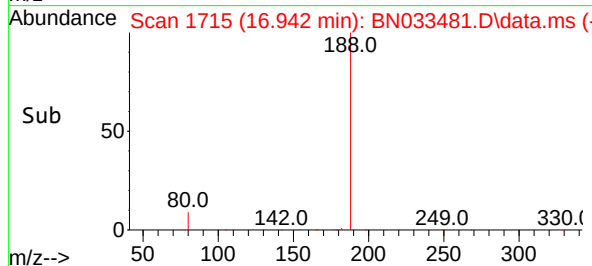
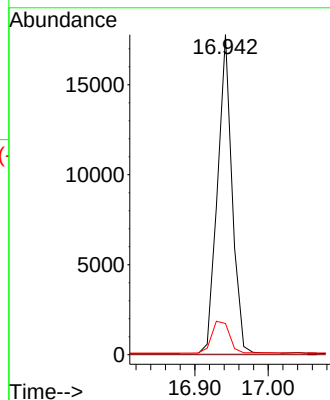
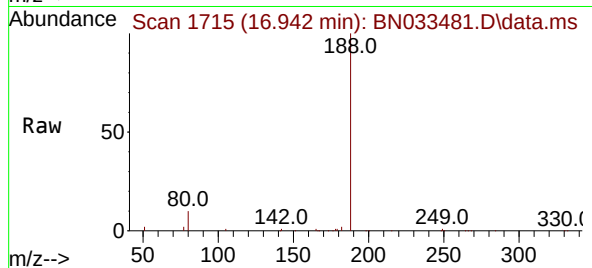
Tgt Ion:188 Resp: 24497

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.8 7.8 11.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.410 ng

RT: 15.322 min Scan# 1582

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

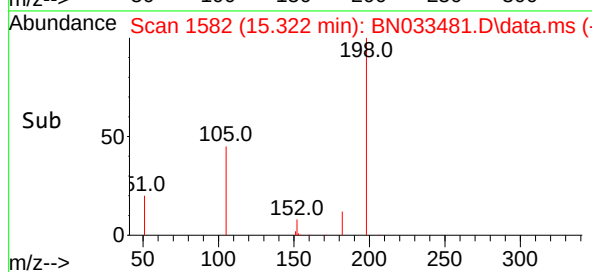
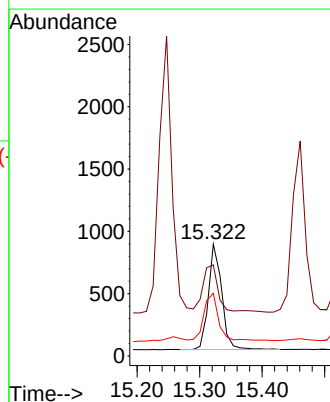
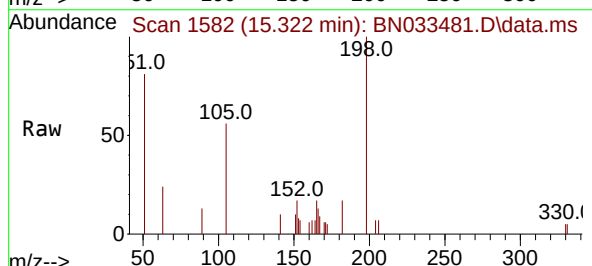
Tgt Ion:198 Resp: 1253

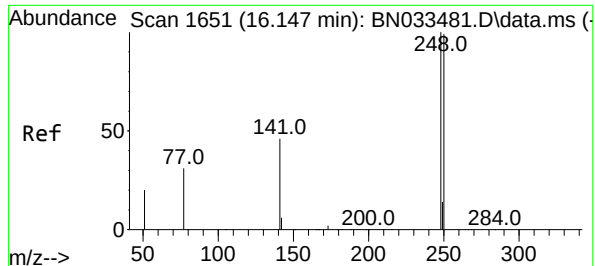
Ion Ratio Lower Upper

198 100

51 81.4 65.1 97.7

105 56.0 44.8 67.2

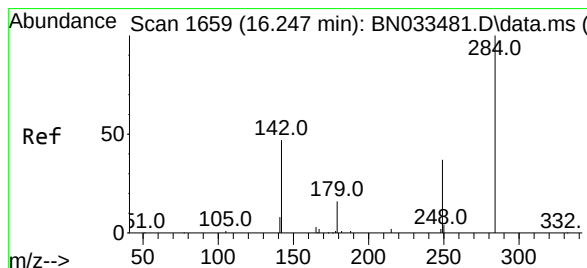
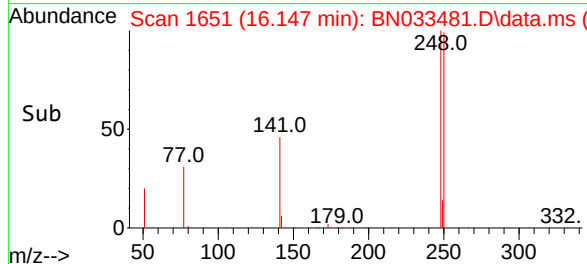
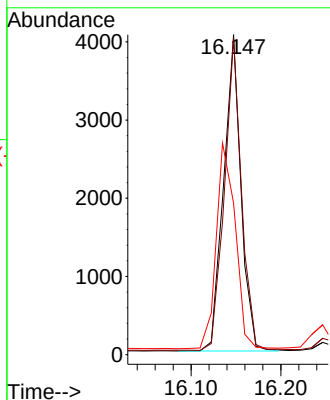
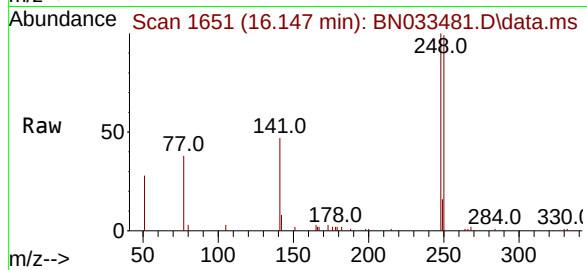




#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

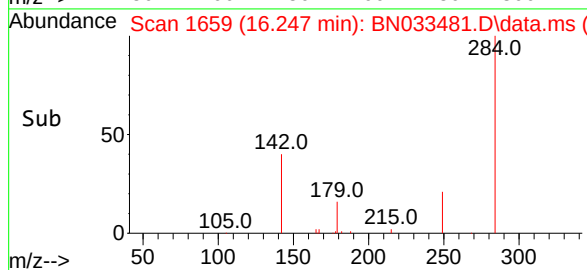
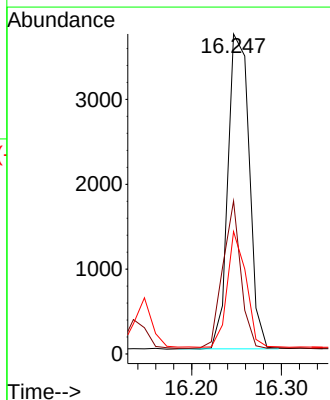
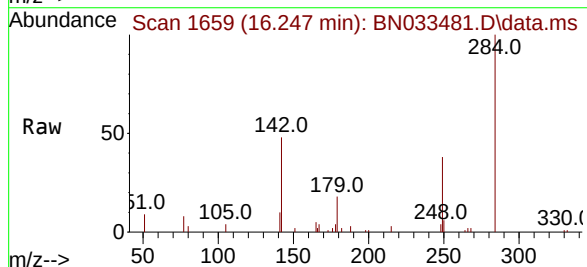
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

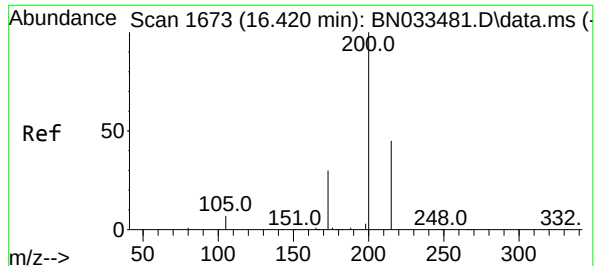
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.0	79.2	118.8
141	47.4	37.9	56.9



#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.7	31.8	47.6
249	32.5	26.0	39.0





#23

Atrazine

Concen: 0.365 ng

RT: 16.420 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

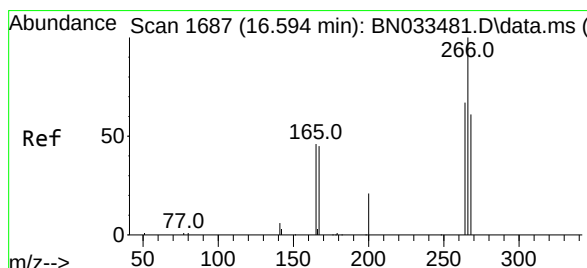
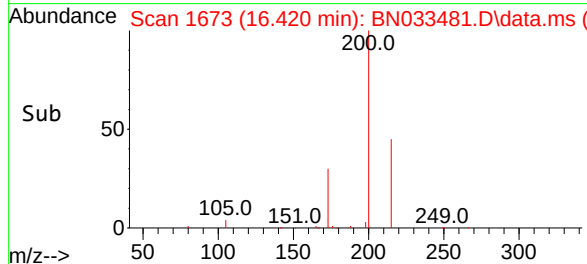
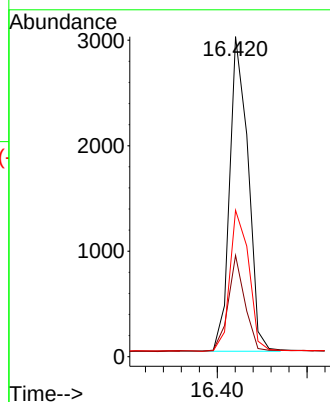
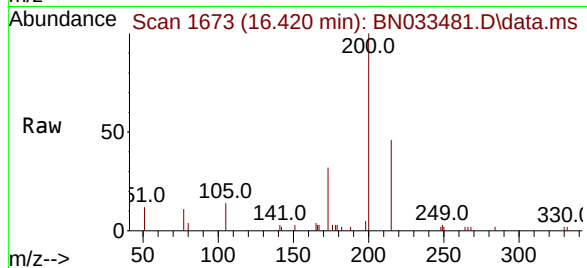
Tgt Ion:200 Resp: 4249

Ion Ratio Lower Upper

200 100

173 31.6 25.3 37.9

215 45.7 36.6 54.8



#24

Pentachlorophenol

Concen: 0.354 ng

RT: 16.594 min Scan# 1687

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

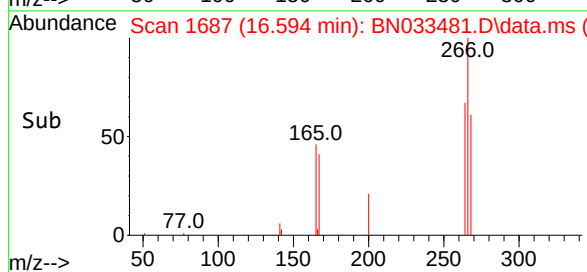
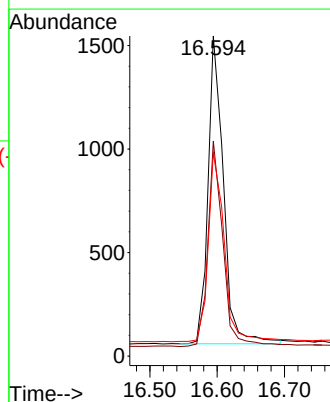
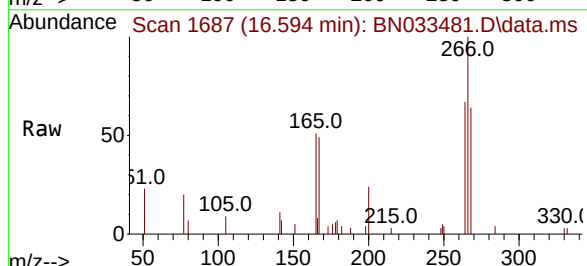
Tgt Ion:266 Resp: 2368

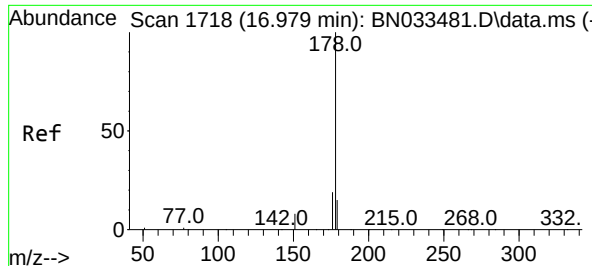
Ion Ratio Lower Upper

266 100

264 64.9 51.9 77.9

268 63.7 51.0 76.4

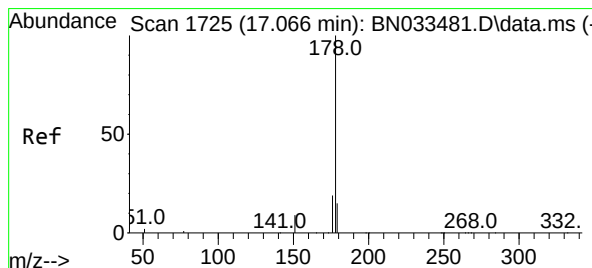
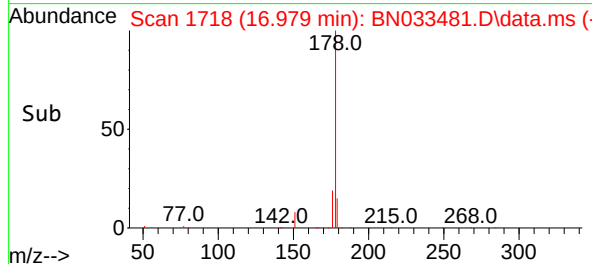
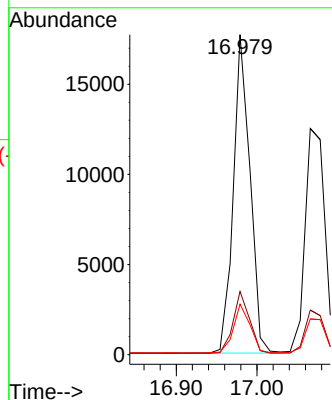
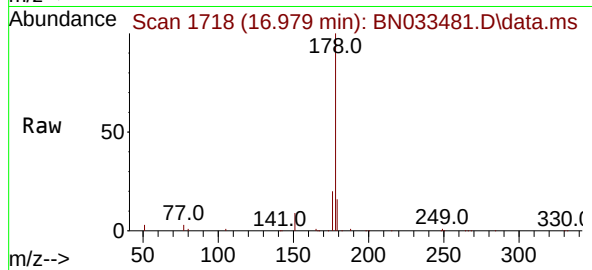




#25
Phenanthrene
Concen: 0.361 ng
RT: 16.979 min Scan# 1718
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

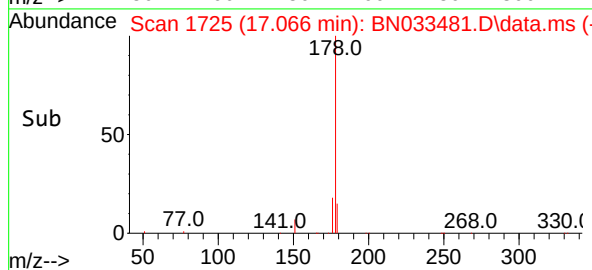
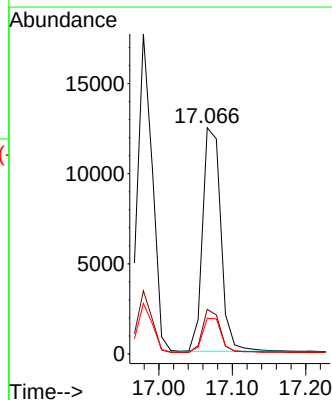
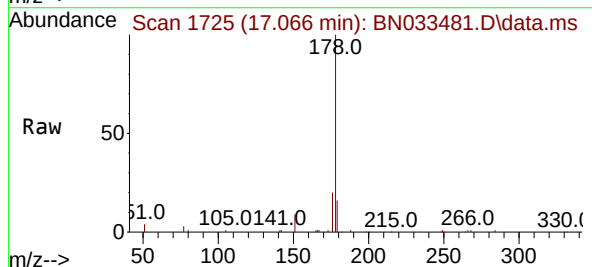
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

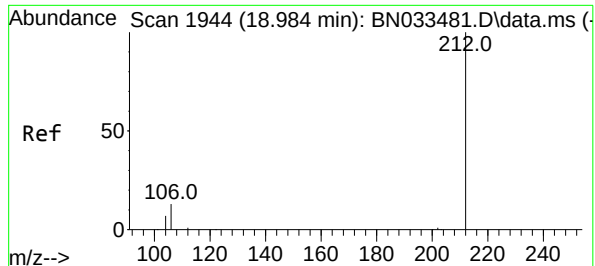
Tgt Ion:178 Resp: 25297
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.347 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:178 Resp: 21458
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.332 ng

RT: 18.984 min Scan# 1944

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

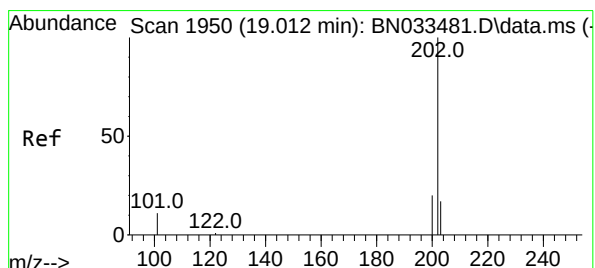
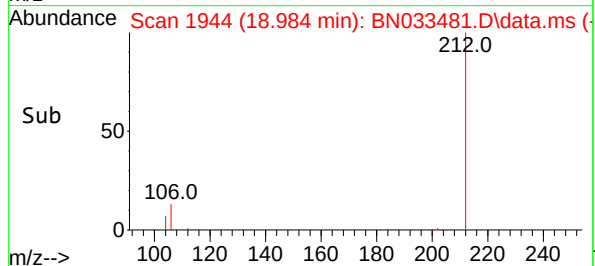
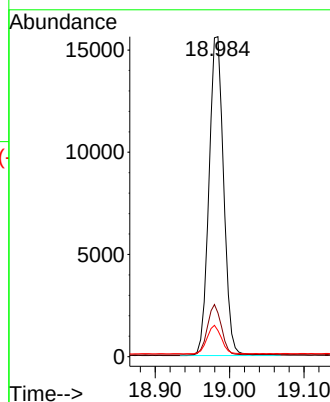
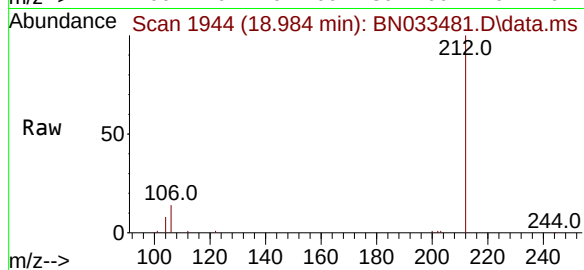
Tgt Ion:212 Resp: 21323

Ion Ratio Lower Upper

212 100

106 15.4 12.3 18.5

104 8.7 7.0 10.4



#28

Fluoranthene

Concen: 0.319 ng

RT: 19.012 min Scan# 1950

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

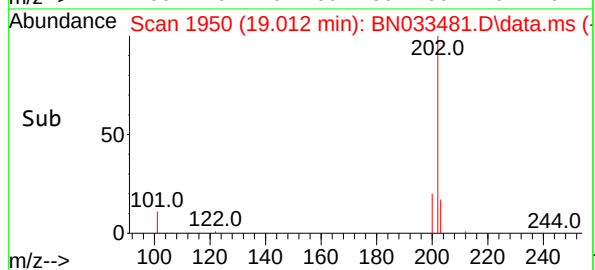
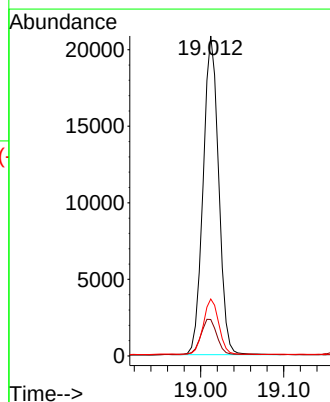
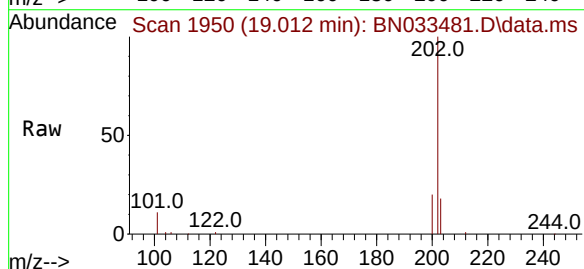
Tgt Ion:202 Resp: 27103

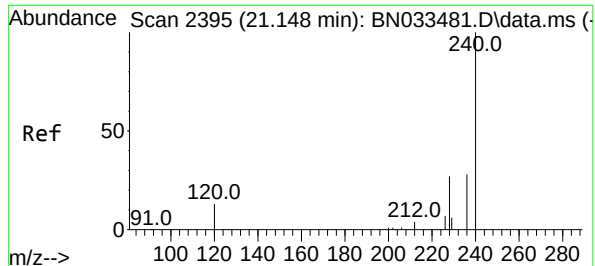
Ion Ratio Lower Upper

202 100

101 11.9 9.5 14.3

203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

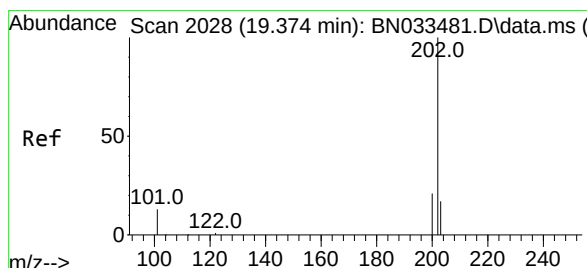
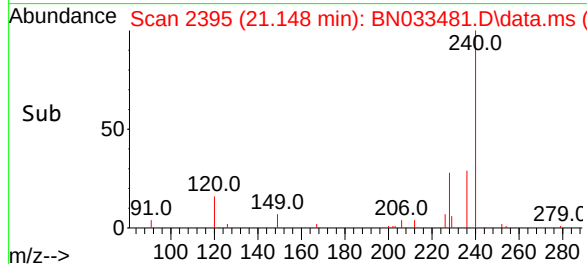
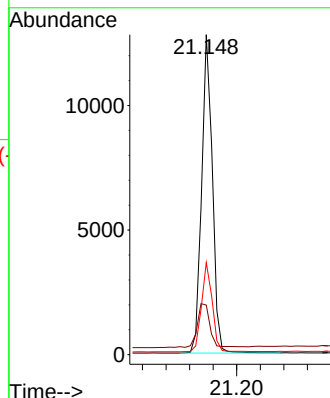
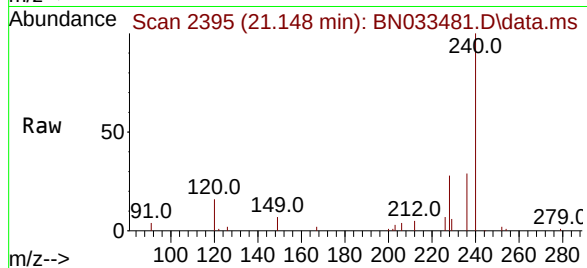
Tgt Ion:240 Resp: 16119

Ion Ratio Lower Upper

240 100

120 15.5 12.4 18.6

236 28.8 23.0 34.6



#30

Pyrene

Concen: 0.423 ng

RT: 19.374 min Scan# 2028

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

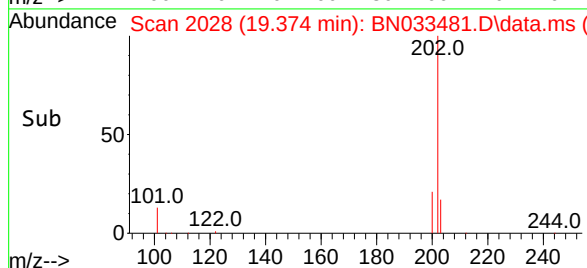
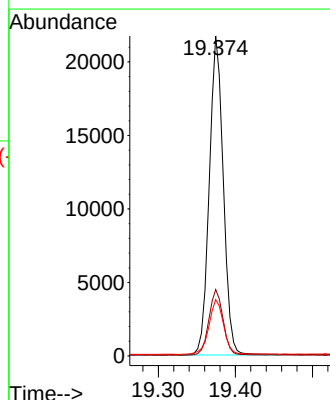
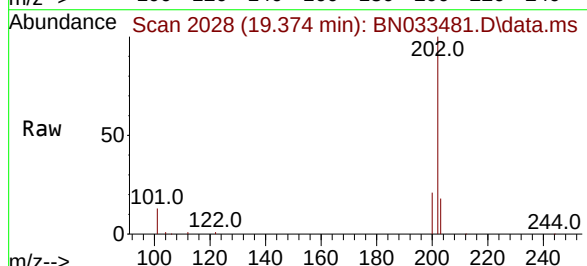
Tgt Ion:202 Resp: 27468

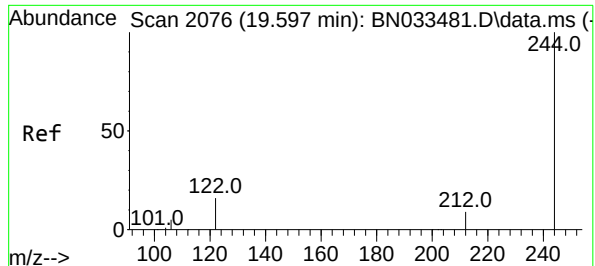
Ion Ratio Lower Upper

202 100

200 20.7 16.6 24.8

203 17.8 14.2 21.4

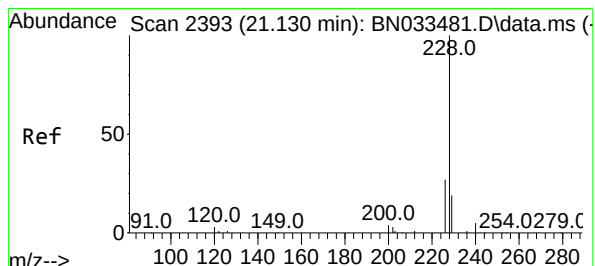
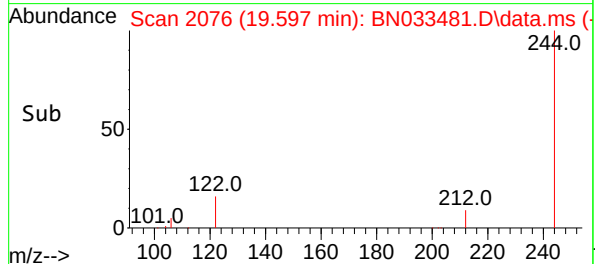
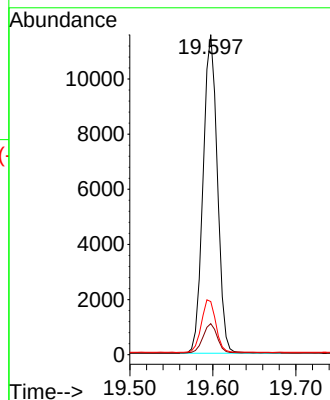
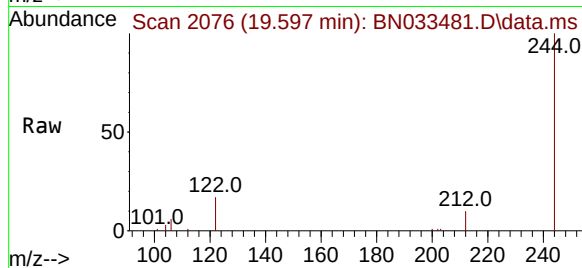




#31
Terphenyl-d14
Concen: 0.447 ng
RT: 19.597 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

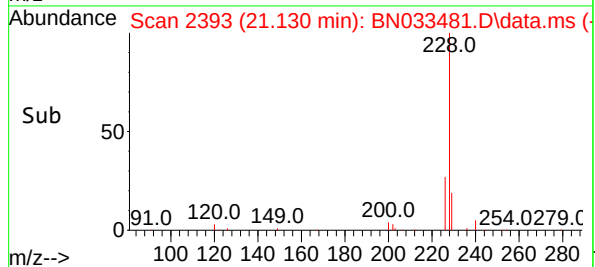
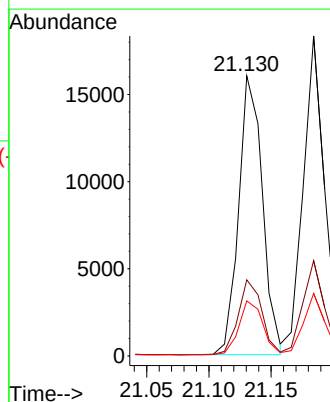
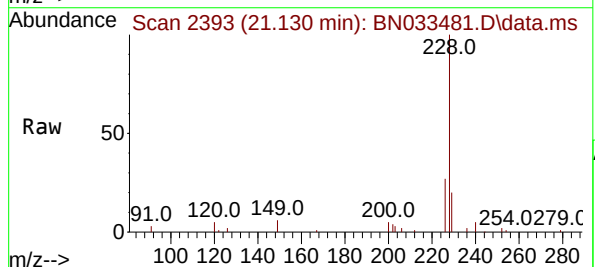
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

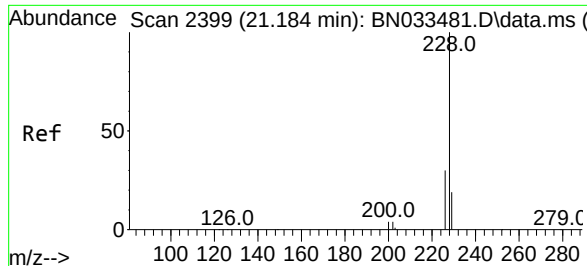
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.8	11.6
122	16.6	13.3	19.9



#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 21.130 min Scan# 2393
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.8	32.6
229	19.7	15.8	23.6





#33

Chrysene

Concen: 0.360 ng

RT: 21.184 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

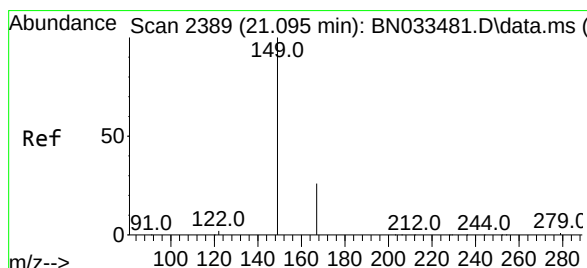
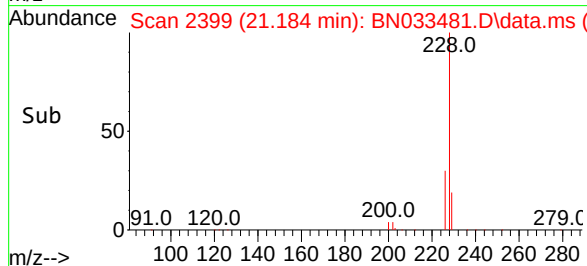
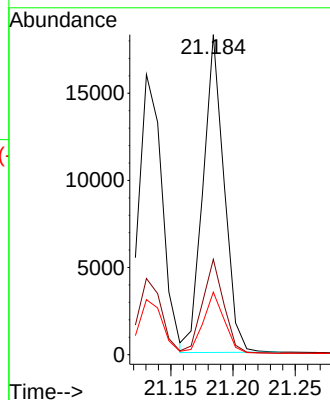
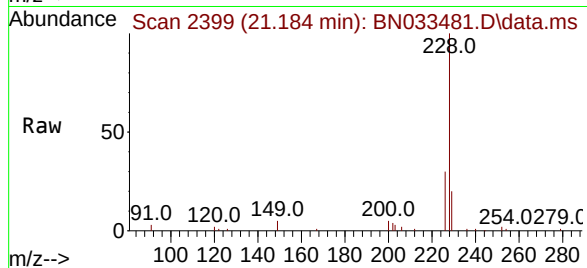
Tgt Ion:228 Resp: 21457

Ion Ratio Lower Upper

228 100

226 29.8 23.8 35.8

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.459 ng

RT: 21.095 min Scan# 2389

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

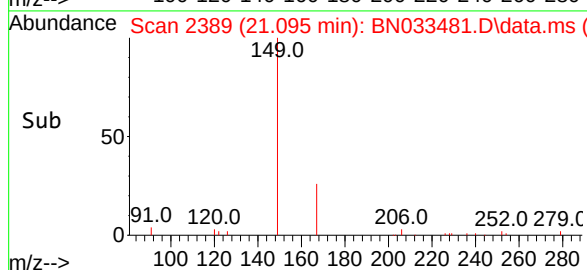
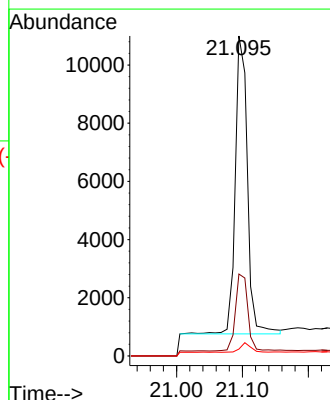
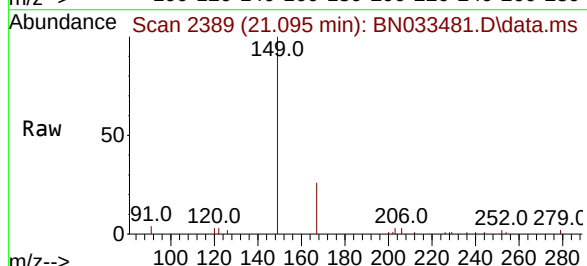
Tgt Ion:149 Resp: 13125

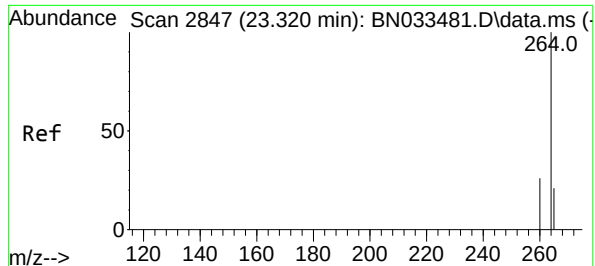
Ion Ratio Lower Upper

149 100

167 25.9 21.5 32.3

279 2.7 2.2 3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.320 min Scan# 2847

Delta R.T. 0.000 min

Lab File: BN033481.D

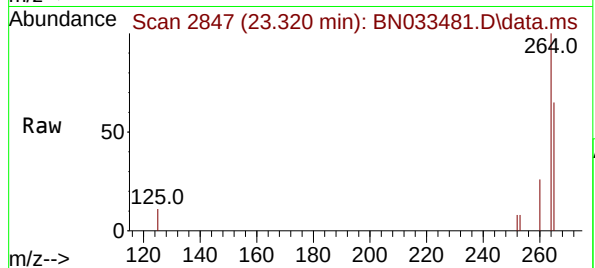
Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



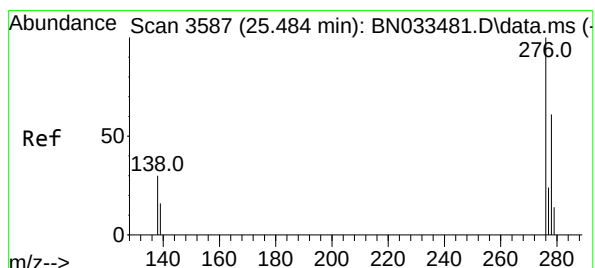
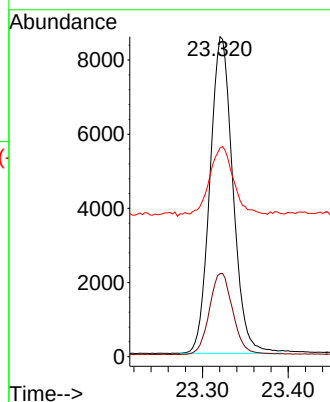
Tgt Ion:264 Resp: 15903

Ion Ratio Lower Upper

264 100

260 26.0 20.8 31.2

265 65.2 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.370 ng

RT: 25.484 min Scan# 3587

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

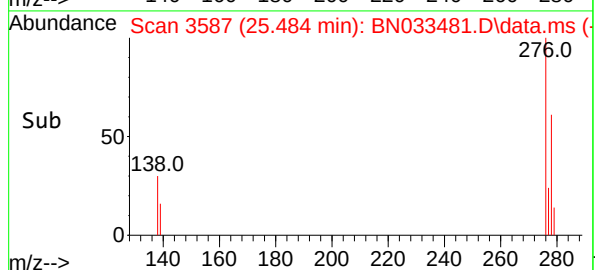
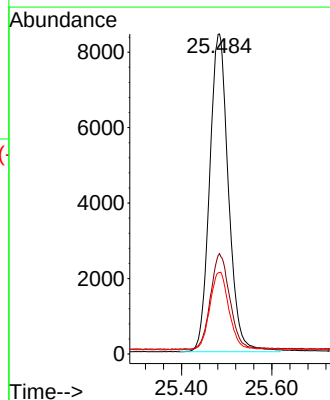
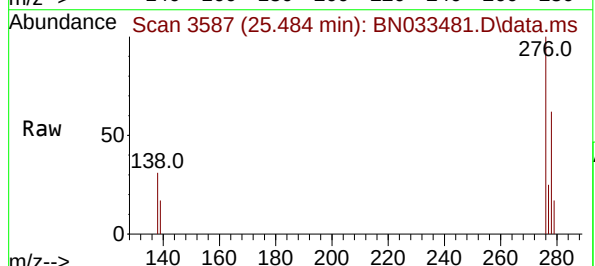
Tgt Ion:276 Resp: 24410

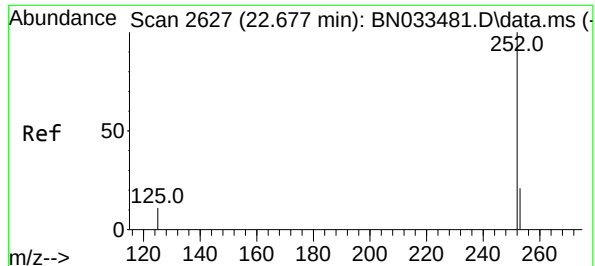
Ion Ratio Lower Upper

276 100

138 30.5 24.4 36.6

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.358 ng

RT: 22.677 min Scan# 2627

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

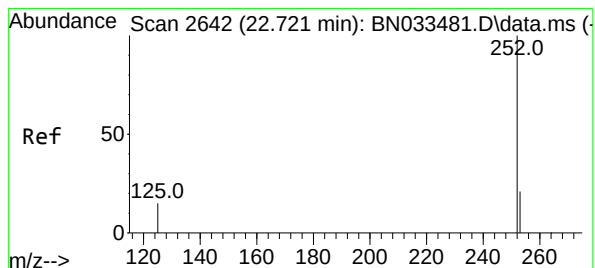
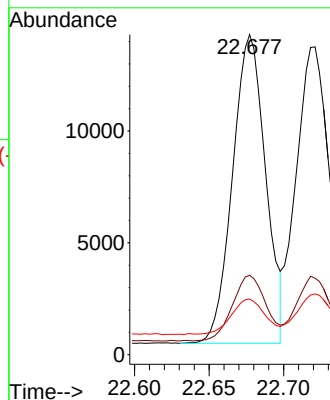
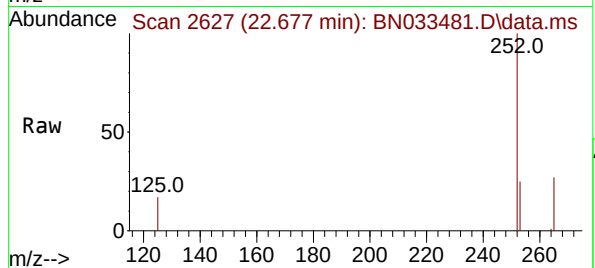
Tgt Ion:252 Resp: 21250

Ion Ratio Lower Upper

252 100

253 24.8 19.8 29.8

125 17.4 13.9 20.9



#38

Benzo(k)fluoranthene

Concen: 0.350 ng

RT: 22.721 min Scan# 2642

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

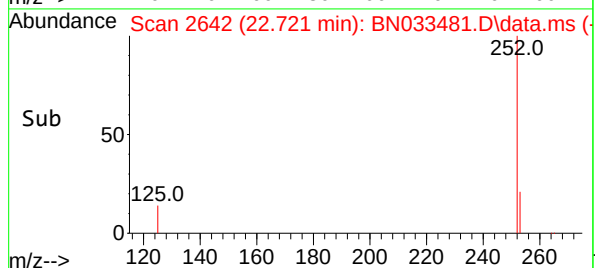
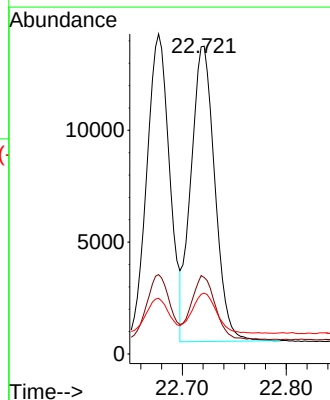
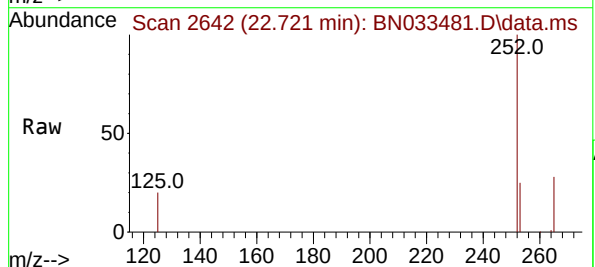
Tgt Ion:252 Resp: 21063

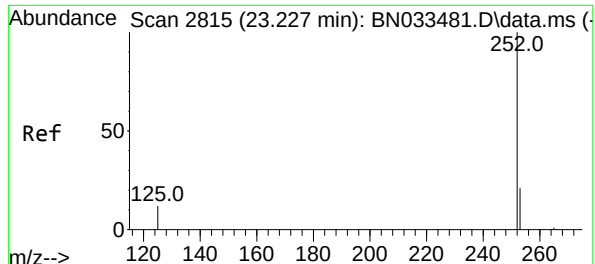
Ion Ratio Lower Upper

252 100

253 24.8 19.8 29.8

125 19.8 15.8 23.8





#39

Benzo(a)pyrene

Concen: 0.348 ng

RT: 23.227 min Scan# 2815

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

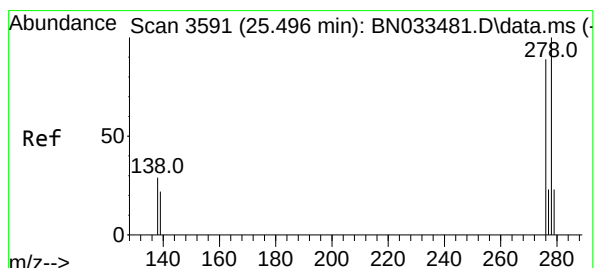
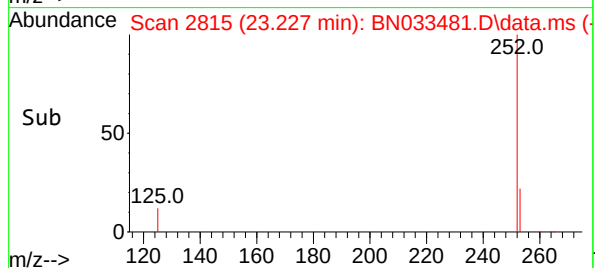
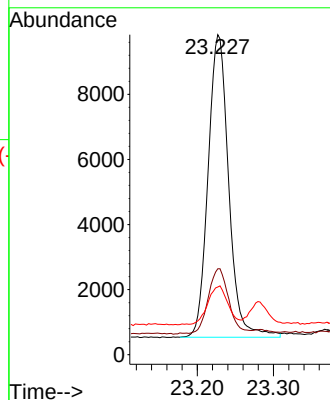
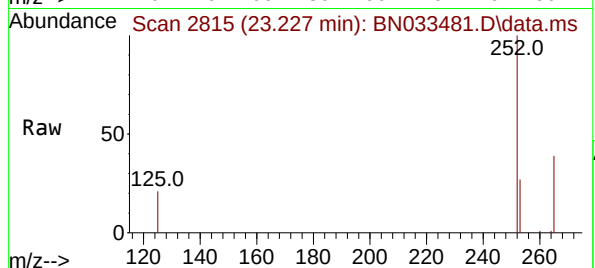
Tgt Ion:252 Resp: 17428

Ion Ratio Lower Upper

252 100

253 26.9 21.5 32.3

125 21.2 17.0 25.4



#40

Dibenzo(a,h)anthracene

Concen: 0.375 ng

RT: 25.496 min Scan# 3591

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

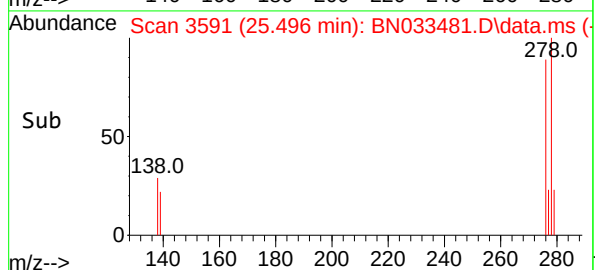
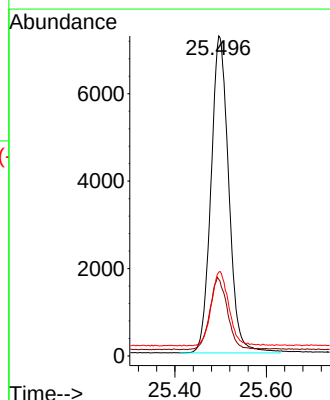
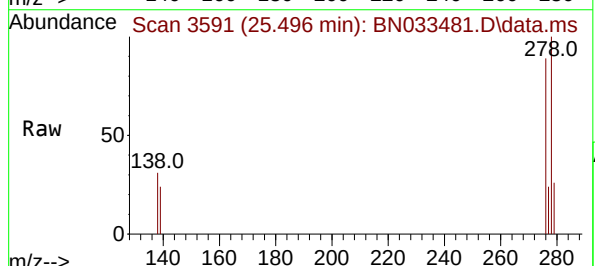
Tgt Ion:278 Resp: 19569

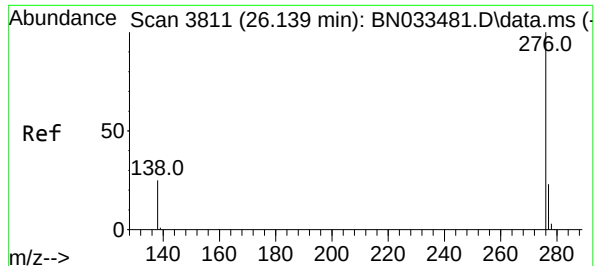
Ion Ratio Lower Upper

278 100

139 23.9 19.1 28.7

279 26.2 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.359 ng

RT: 26.139 min Scan# 3811

Delta R.T. 0.000 min

Lab File: BN033481.D

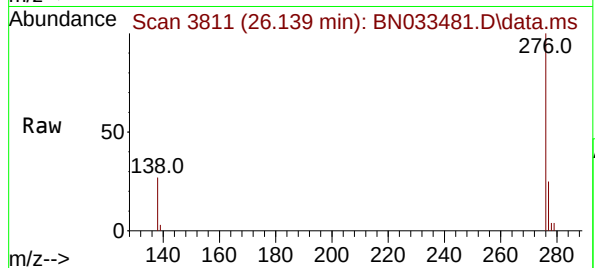
Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



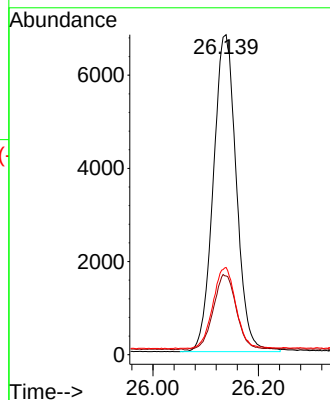
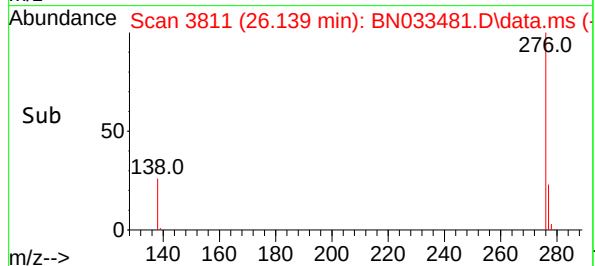
Tgt Ion:276 Resp: 20604

Ion Ratio Lower Upper

276 100

277 24.6 19.7 29.5

138 27.2 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033482.D
Acq On : 19 Aug 2024 18:05
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Aug 19 23:22:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

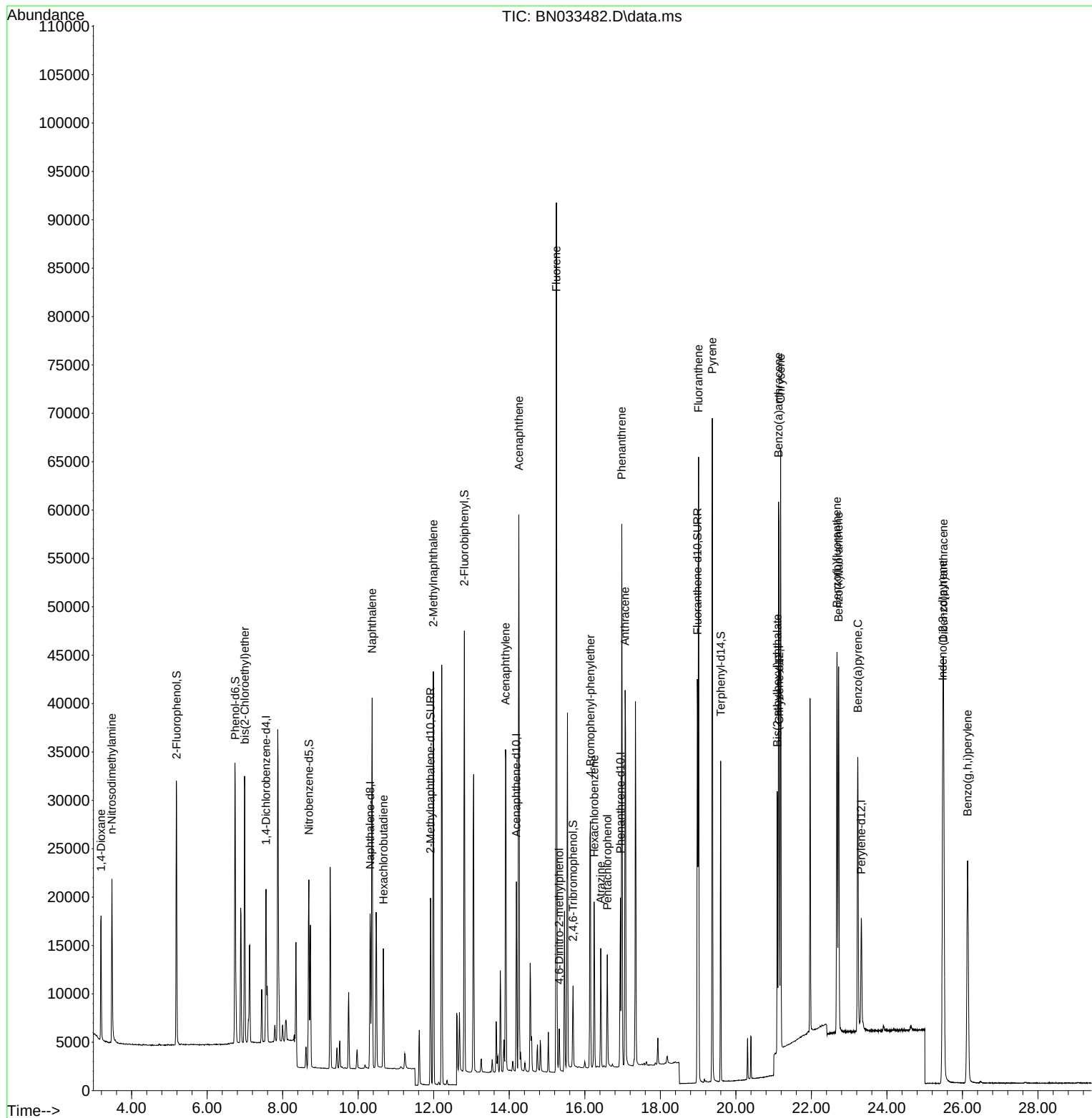
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	7632	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	20426	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	10526	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	22134	0.400	ng	0.00
29) Chrysene-d12	21.148	240	15199	0.400	ng	0.00
35) Perylene-d12	23.320	264	14574	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	20603	0.960	ng	0.00
5) Phenol-d6	6.743	99	25598	0.913	ng	0.00
8) Nitrobenzene-d5	8.691	82	14373	0.929	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	25169	0.820	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	4621	0.860	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	37063	0.870	ng	0.00
27) Fluoranthene-d10	18.980	212	44745	0.771	ng	0.00
31) Terphenyl-d14	19.597	244	29355	1.002	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.190	88	8005	0.974	ng	99
3) n-Nitrosodimethylamine	3.479	42	9391	0.883	ng	97
6) bis(2-Chloroethyl)ether	6.996	93	18731	0.856	ng	99
9) Naphthalene	10.368	128	47199	0.852	ng	99
10) Hexachlorobutadiene	10.667	225	9402	0.884	ng	# 100
12) 2-Methylnaphthalene	11.990	142	29902	0.806	ng	98
16) Acenaphthylene	13.900	152	39367	0.814	ng	100
17) Acenaphthene	14.253	154	27891	0.838	ng	99
18) Fluorene	15.247	166	35084	0.805	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	2836	1.027	ng	# 78
21) 4-Bromophenyl-phenylether	16.147	248	11281	0.854	ng	97
22) Hexachlorobenzene	16.247	284	12452	0.844	ng	99
23) Atrazine	16.420	200	8886	0.845	ng	99
24) Pentachlorophenol	16.594	266	5244	0.869	ng	98
25) Phenanthrene	16.979	178	52082	0.822	ng	100
26) Anthracene	17.066	178	45804	0.819	ng	99
28) Fluoranthene	19.012	202	57702	0.751	ng	100
30) Pyrene	19.374	202	57799	0.944	ng	100
32) Benzo(a)anthracene	21.130	228	46368	0.822	ng	99
33) Chrysene	21.184	228	47324	0.841	ng	99
34) Bis(2-ethylhexyl)phtha...	21.095	149	26434	0.980	ng	99
36) Indeno(1,2,3-cd)pyrene	25.478	276	51859	0.858	ng	99
37) Benzo(b)fluoranthene	22.677	252	46009	0.846	ng	95
38) Benzo(k)fluoranthene	22.721	252	45348	0.822	ng	# 94
39) Benzo(a)pyrene	23.227	252	38156	0.831	ng	# 93
40) Dibenzo(a,h)anthracene	25.499	278	41569	0.869	ng	96
41) Benzo(g,h,i)perylene	26.136	276	44249	0.842	ng	98

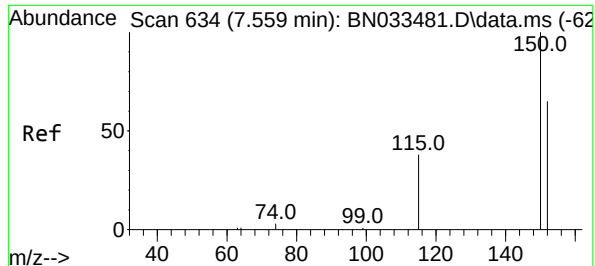
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033482.D
Acq On : 19 Aug 2024 18:05
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Aug 19 23:22:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

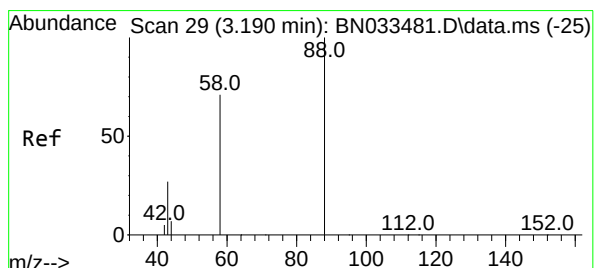
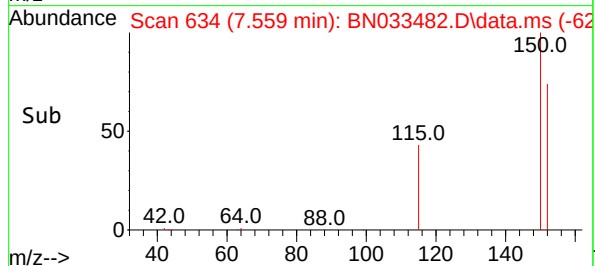
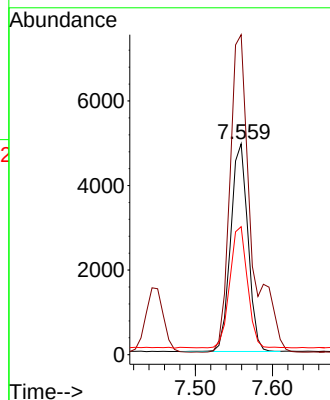
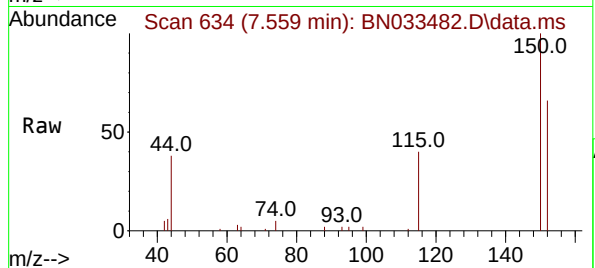




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

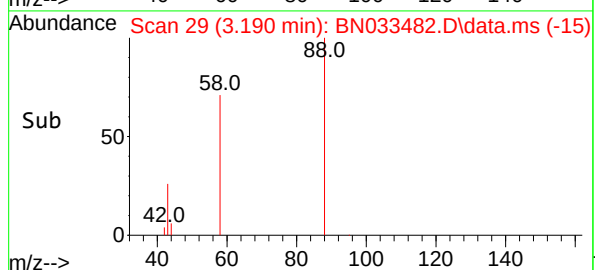
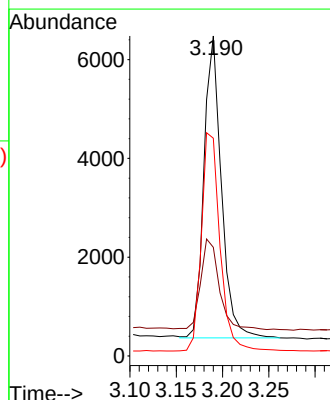
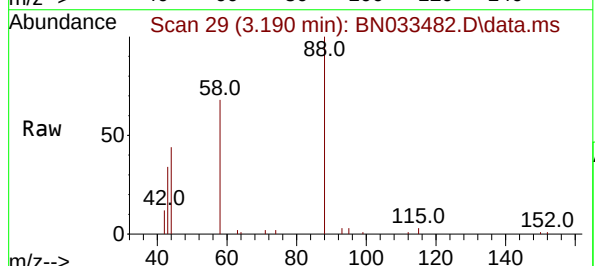
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

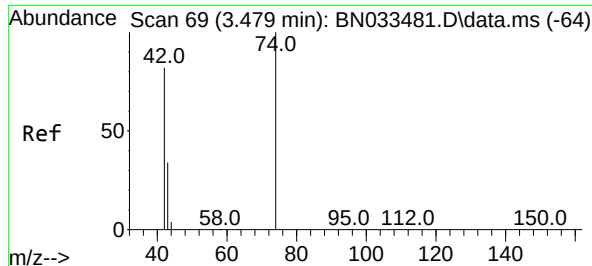
Tgt Ion:152 Resp: 7632
Ion Ratio Lower Upper
152 100
150 151.8 122.2 183.2
115 60.8 47.2 70.8



#2
1,4-Dioxane
Concen: 0.974 ng
RT: 3.190 min Scan# 29
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion: 88 Resp: 8005
Ion Ratio Lower Upper
88 100
43 31.8 25.0 37.4
58 77.2 62.5 93.7

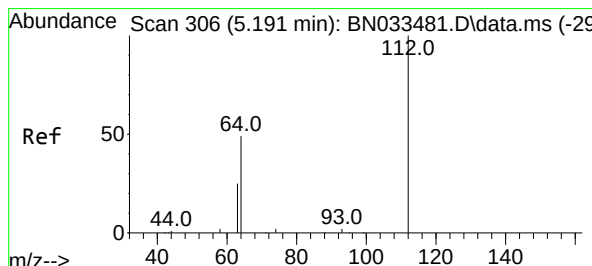
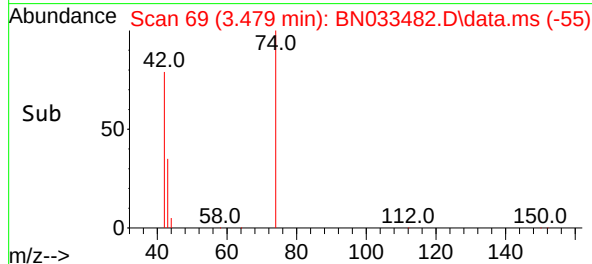
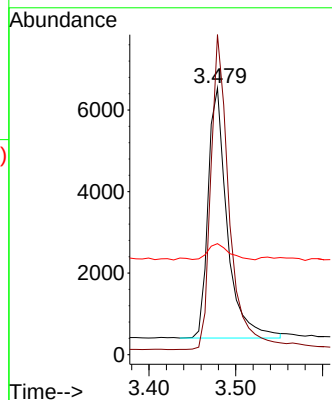
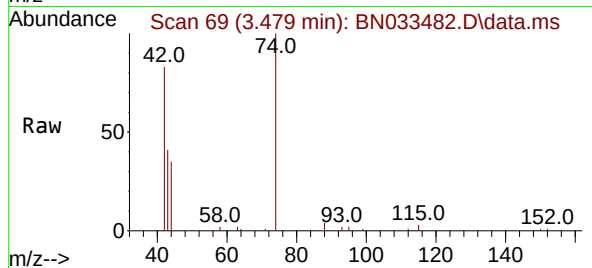




#3
n-Nitrosodimethylamine
Concen: 0.883 ng
RT: 3.479 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

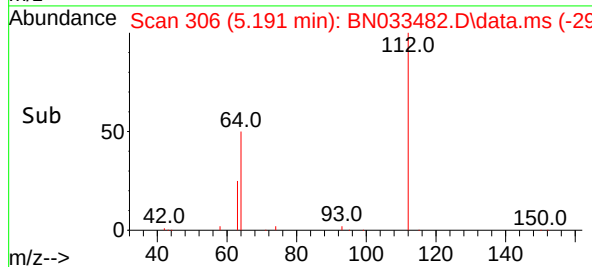
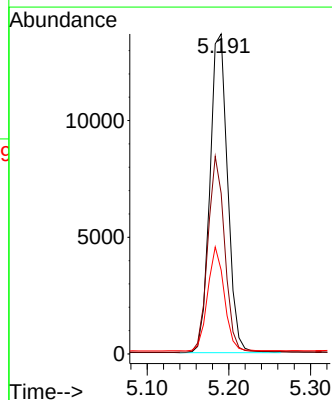
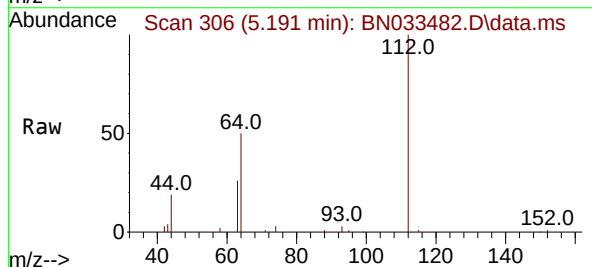
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

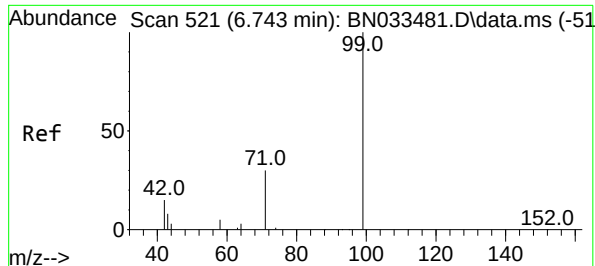
Tgt Ion: 42 Resp: 9391
Ion Ratio Lower Upper
42 100
74 121.6 100.2 150.2
44 6.9 5.3 7.9



#4
2-Fluorophenol
Concen: 0.960 ng
RT: 5.191 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion: 112 Resp: 20603
Ion Ratio Lower Upper
112 100
64 58.5 47.1 70.7
63 30.7 24.9 37.3

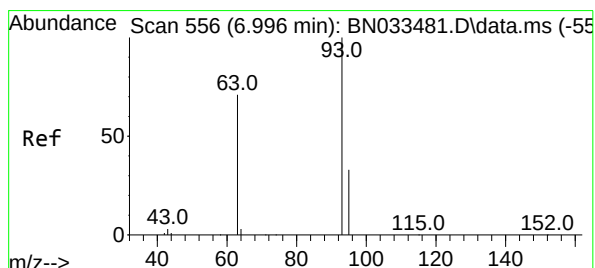
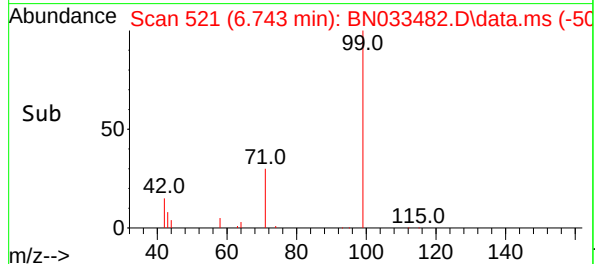
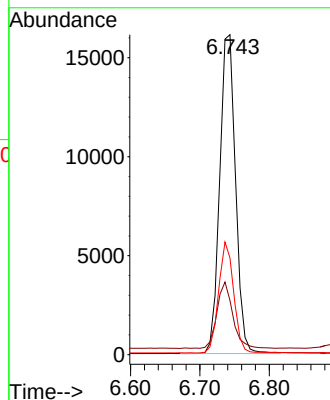
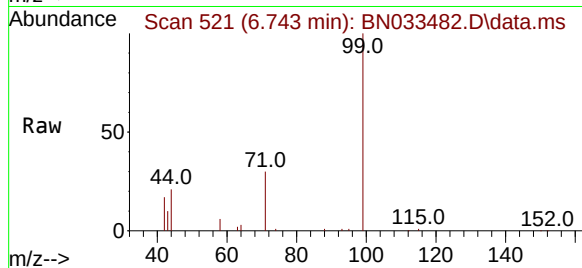




#5
Phenol-d6
Concen: 0.913 ng
RT: 6.743 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

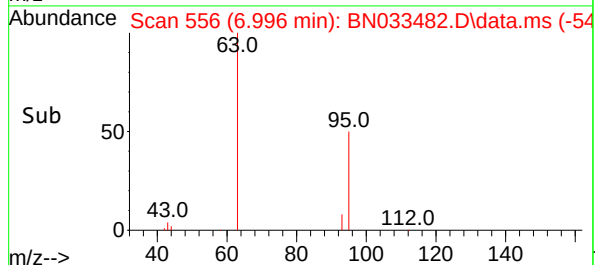
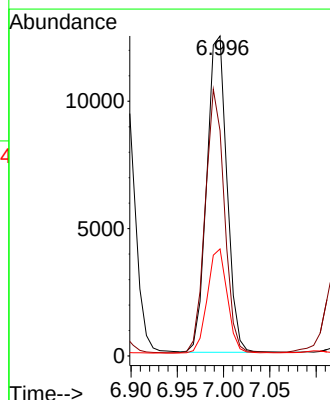
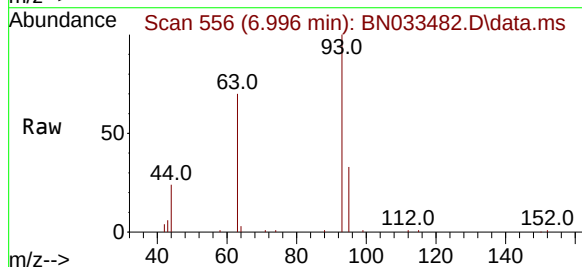
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

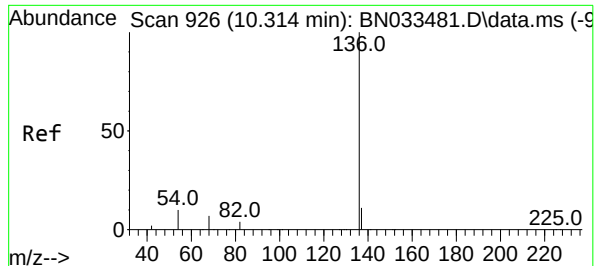
Tgt Ion: 99 Resp: 25598
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 33.1 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 0.856 ng
RT: 6.996 min Scan# 556
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion: 93 Resp: 18731
Ion Ratio Lower Upper
93 100
63 79.6 63.0 94.4
95 32.7 26.0 39.0

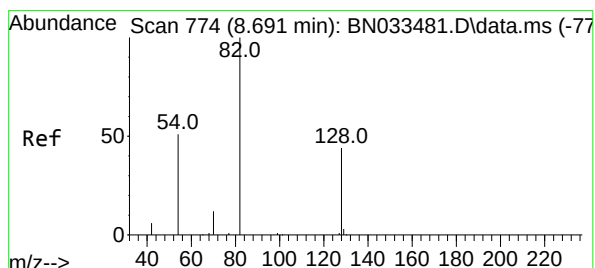
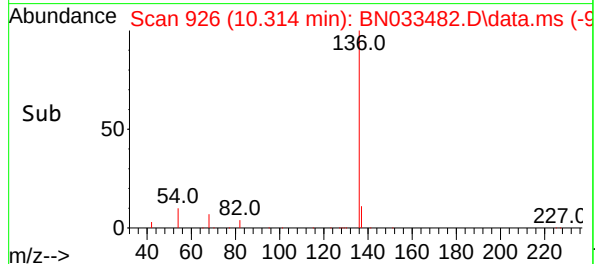
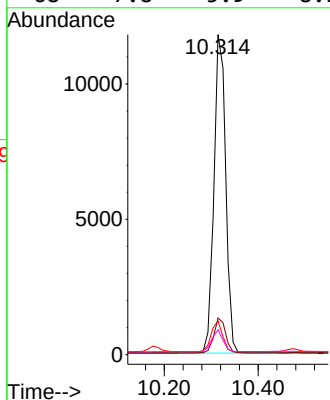
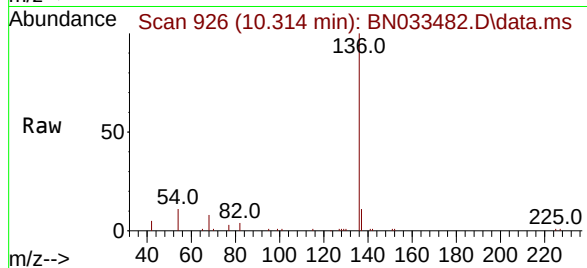




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

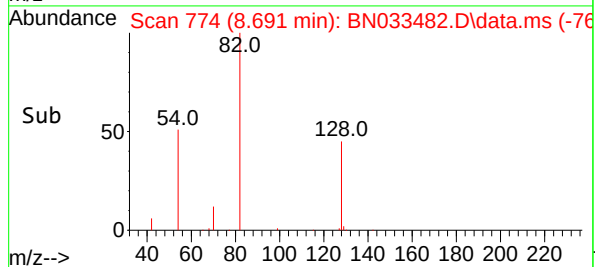
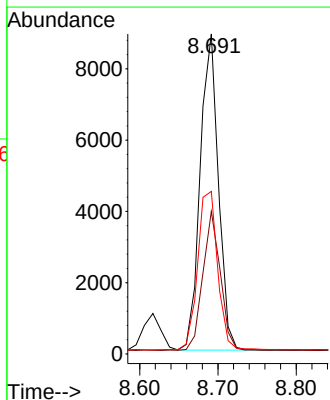
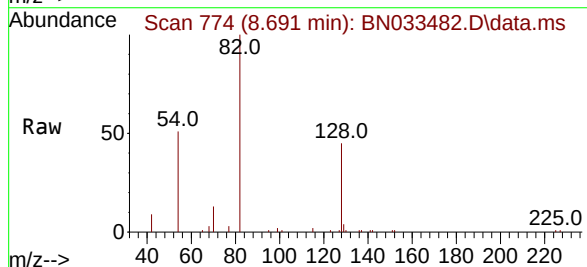
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

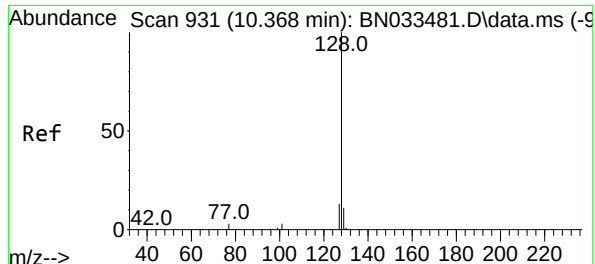
Tgt Ion:	136	Resp:	20426
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	10.5	8.3	12.5
68	7.8	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.929 ng
RT: 8.691 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:	82	Resp:	14373
Ion	Ratio	Lower	Upper
82	100		
128	44.5	36.0	54.0
54	50.8	42.0	63.0

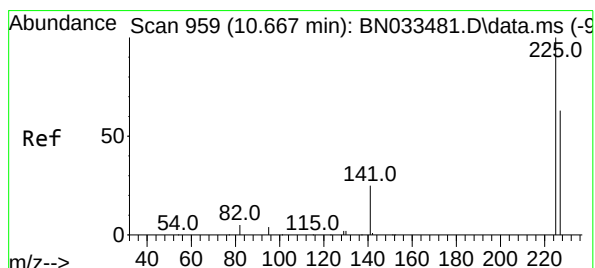
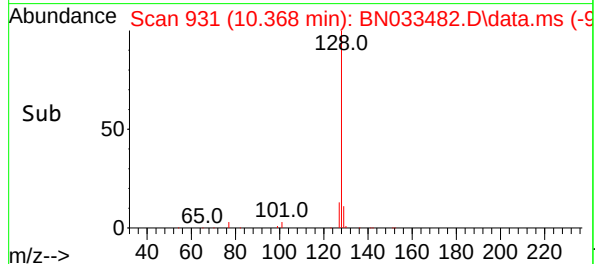
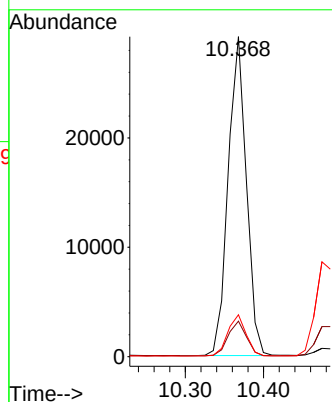
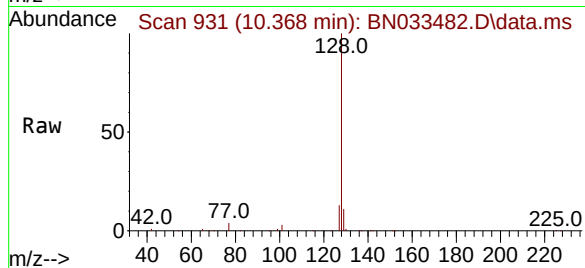




#9
Naphthalene
Concen: 0.852 ng
RT: 10.368 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

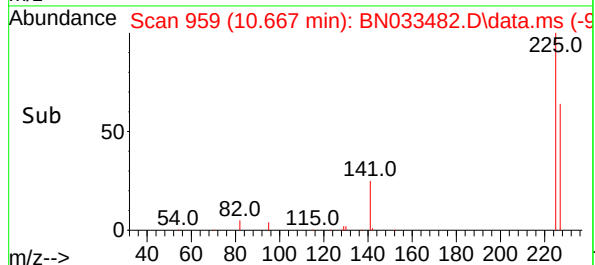
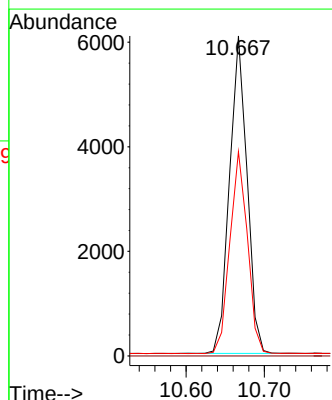
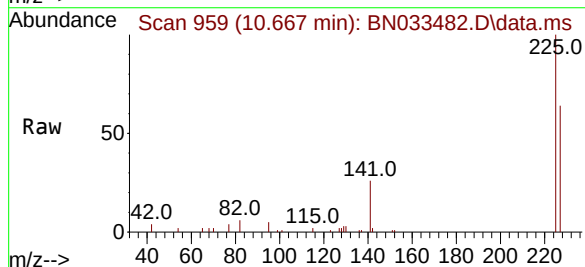
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

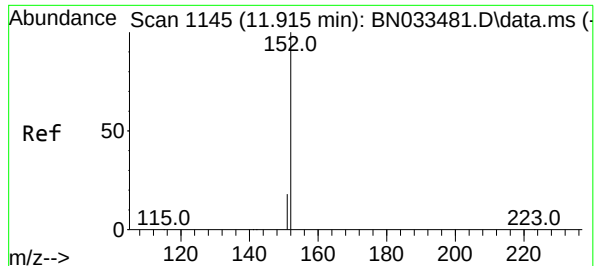
Tgt Ion:128 Resp: 47199
Ion Ratio Lower Upper
128 100
129 11.1 9.1 13.7
127 13.1 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.884 ng
RT: 10.667 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:225 Resp: 9402
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 51.2 76.8

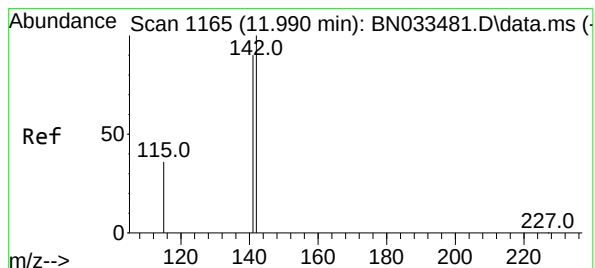
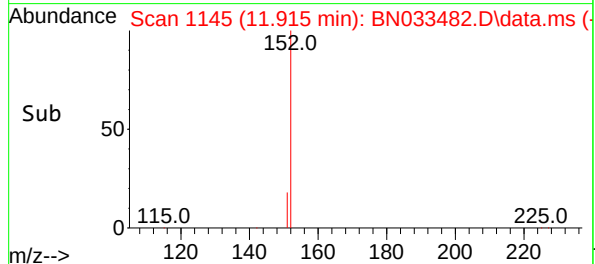
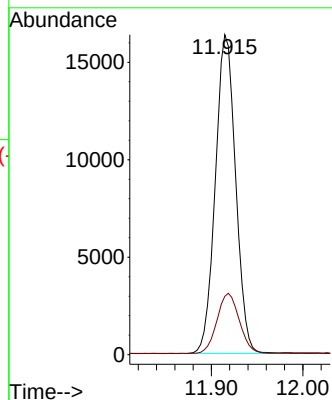
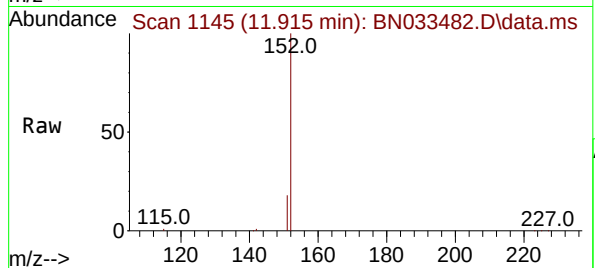




#11
2-Methylnaphthalene-d10
Concen: 0.820 ng
RT: 11.915 min Scan# 1145
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

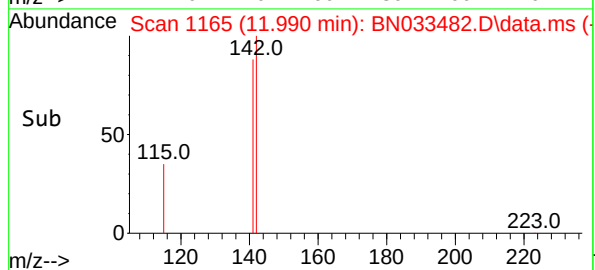
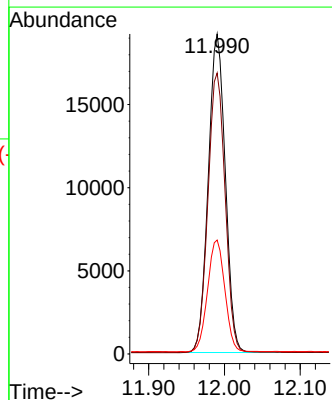
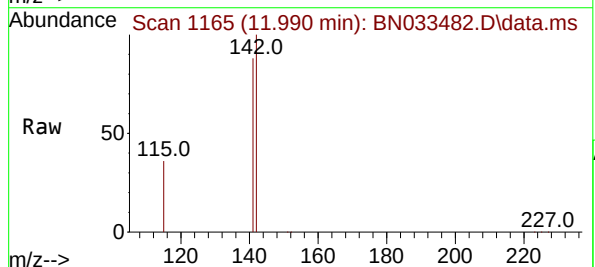
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

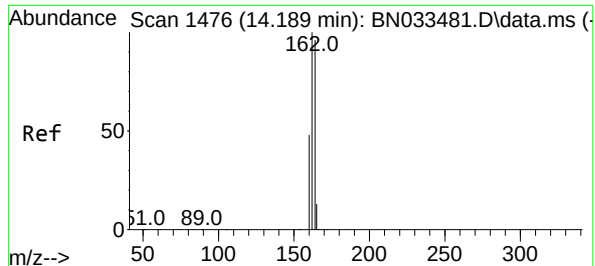
Tgt Ion:152 Resp: 25169
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.806 ng
RT: 11.990 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:142 Resp: 29902
Ion Ratio Lower Upper
142 100
141 87.8 71.7 107.5
115 35.6 29.4 44.2

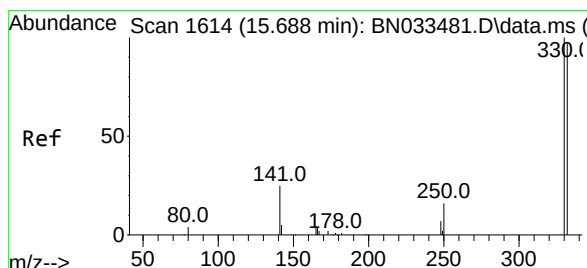
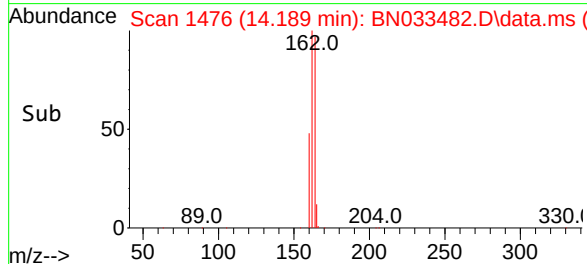
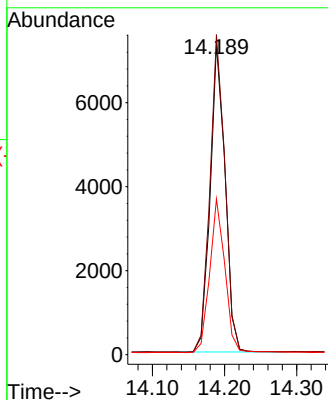
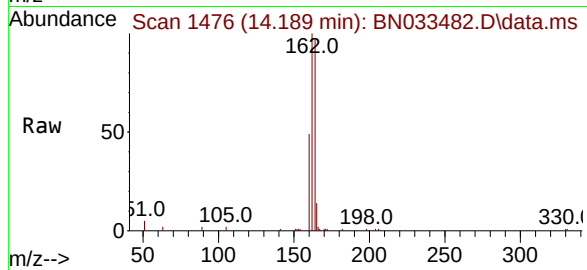




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

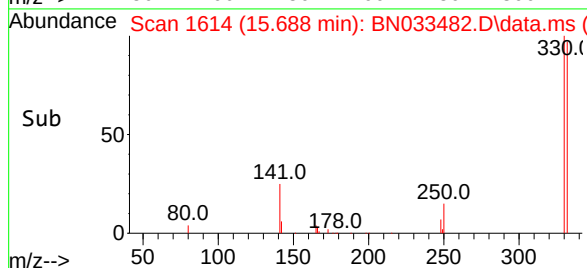
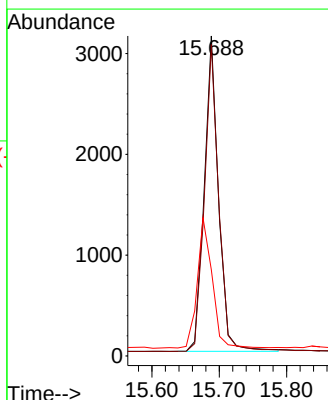
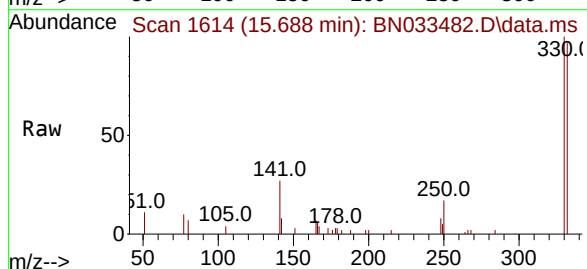
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

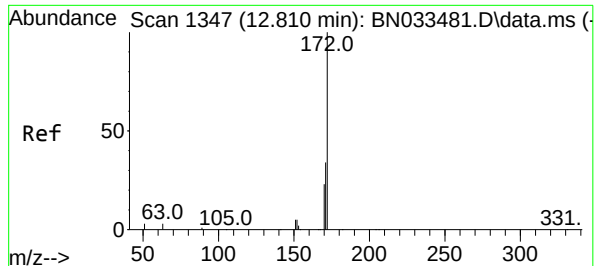
Tgt Ion:164 Resp: 10526
Ion Ratio Lower Upper
164 100
162 103.0 83.5 125.3
160 50.1 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.860 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:330 Resp: 4621
Ion Ratio Lower Upper
330 100
332 97.1 77.5 116.3
141 42.6 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 0.870 ng

RT: 12.810 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

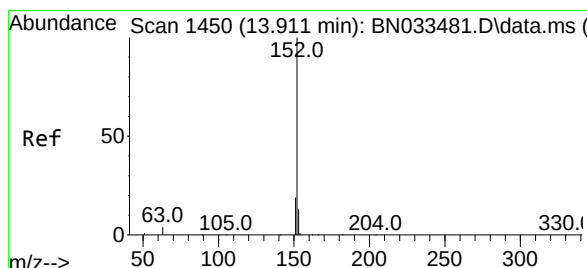
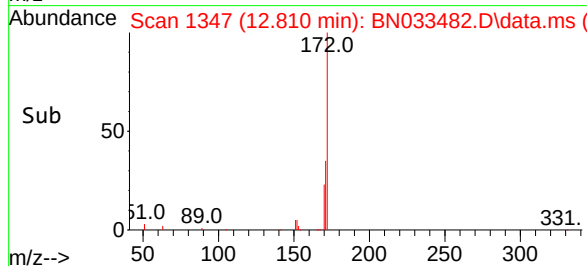
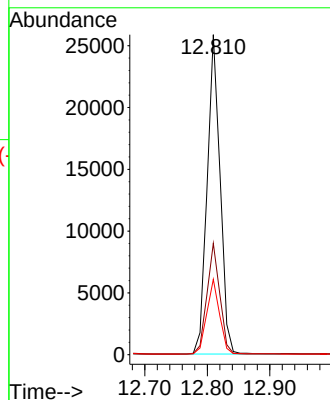
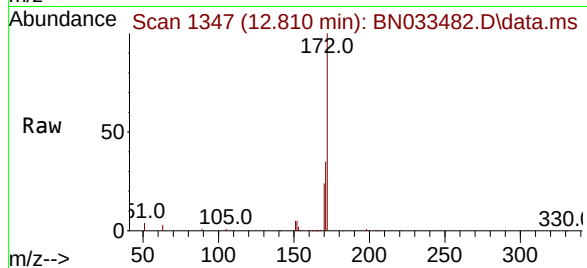
Tgt Ion:172 Resp: 37063

Ion Ratio Lower Upper

172 100

171 34.8 27.7 41.5

170 23.5 18.3 27.5



#16

Acenaphthylene

Concen: 0.814 ng

RT: 13.900 min Scan# 1449

Delta R.T. -0.011 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

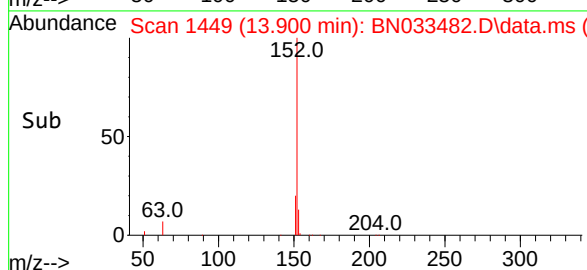
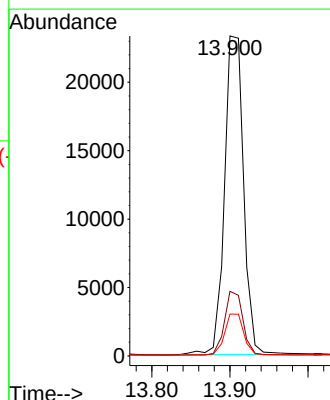
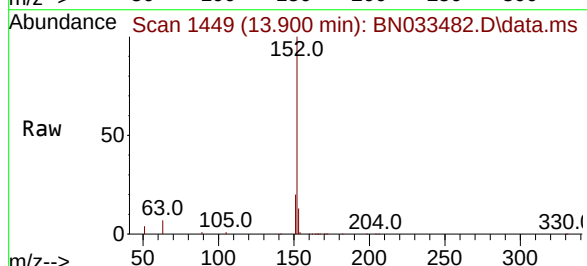
Tgt Ion:152 Resp: 39367

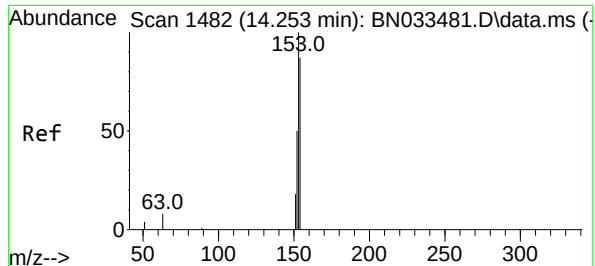
Ion Ratio Lower Upper

152 100

151 19.3 15.7 23.5

153 13.0 10.3 15.5





#17

Acenaphthene

Concen: 0.838 ng

RT: 14.253 min Scan# 1482

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

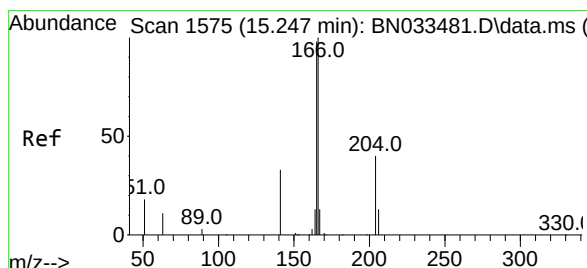
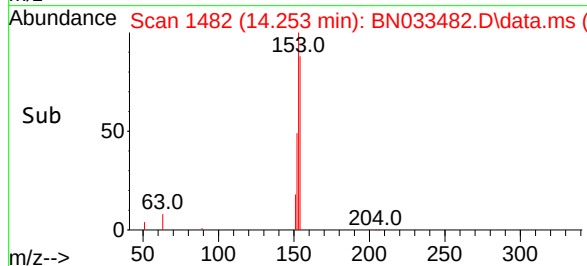
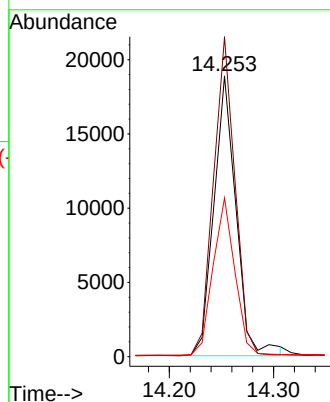
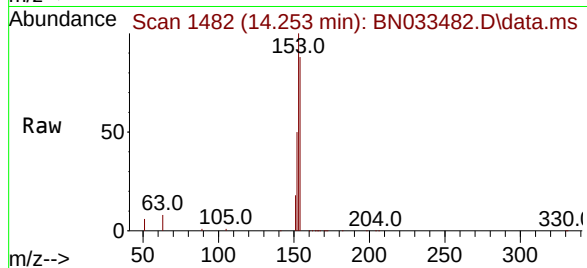
Tgt Ion:154 Resp: 27891

Ion Ratio Lower Upper

154 100

153 110.4 89.0 133.6

152 55.3 45.2 67.8



#18

Fluorene

Concen: 0.805 ng

RT: 15.247 min Scan# 1575

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

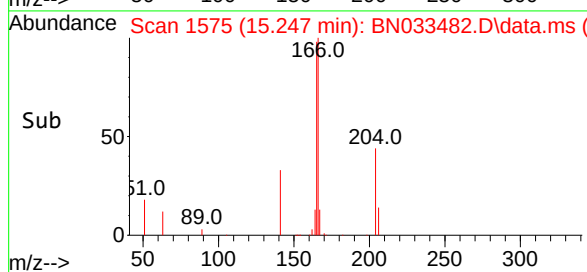
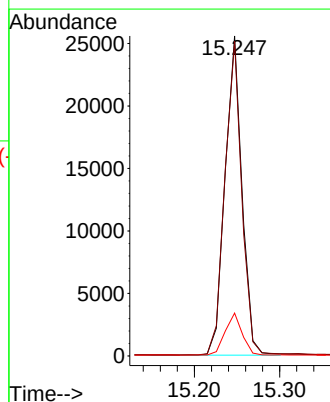
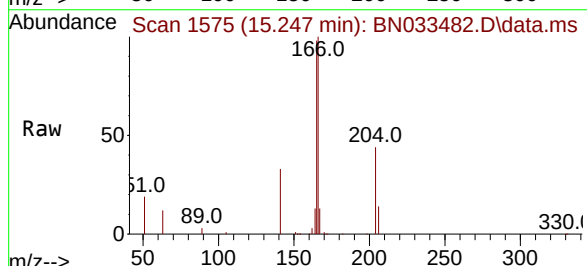
Tgt Ion:166 Resp: 35084

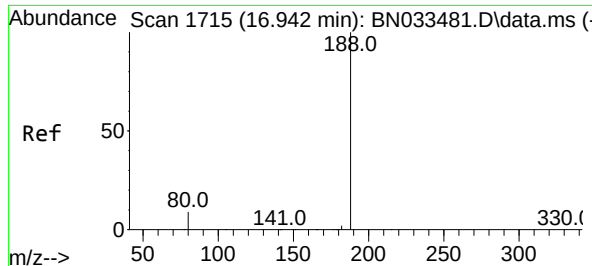
Ion Ratio Lower Upper

166 100

165 98.0 78.2 117.4

167 13.2 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

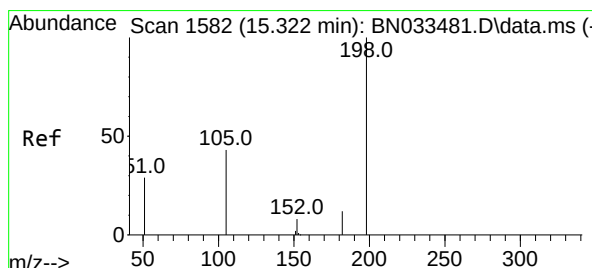
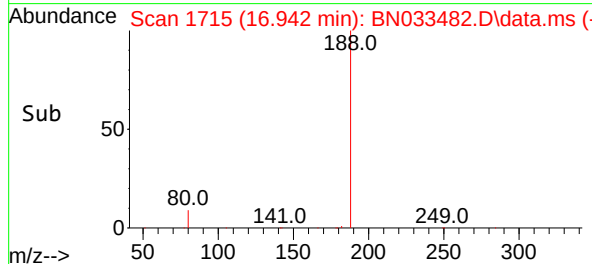
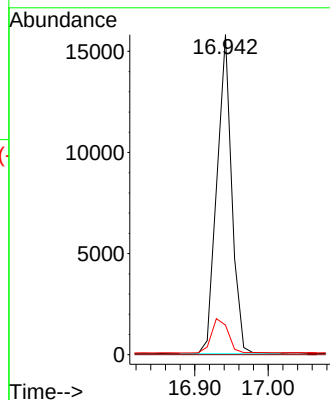
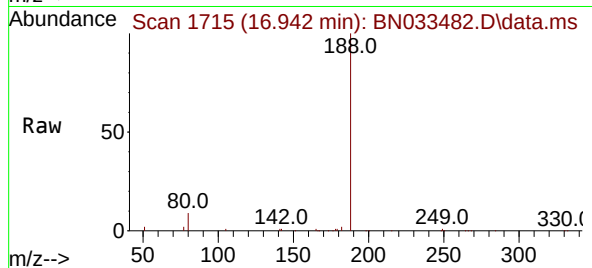
Tgt Ion:188 Resp: 22134

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.2 7.8 11.8



#20

4,6-Dinitro-2-methylphenol

Concen: 1.027 ng

RT: 15.322 min Scan# 1582

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

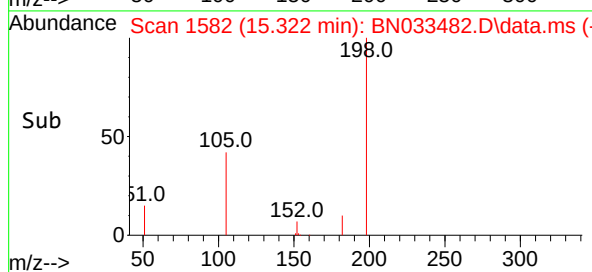
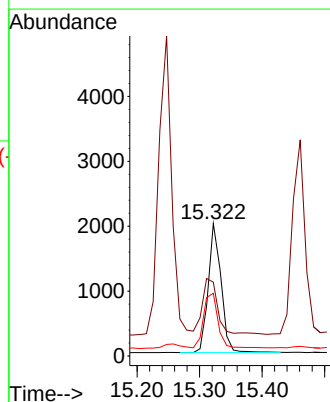
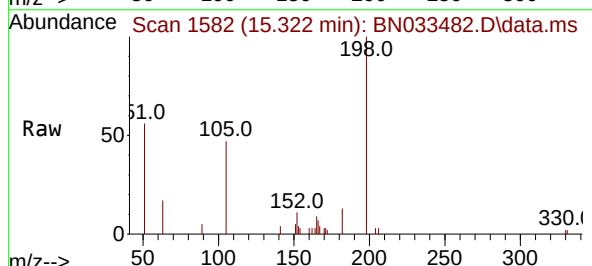
Tgt Ion:198 Resp: 2836

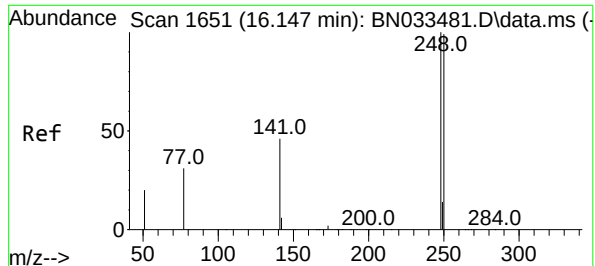
Ion Ratio Lower Upper

198 100

51 55.6 65.1 97.7#

105 47.3 44.8 67.2

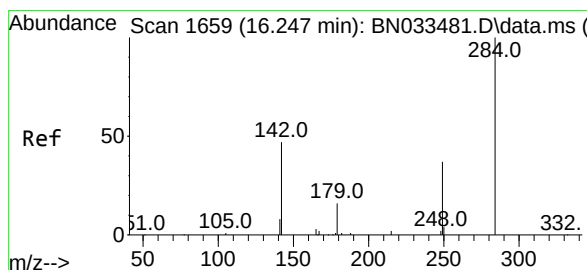
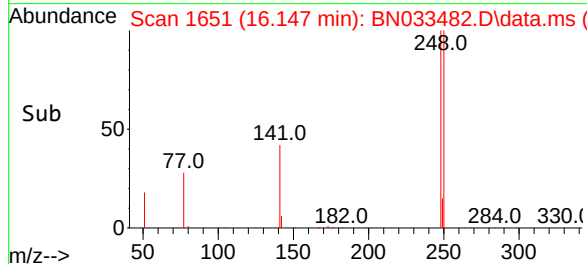
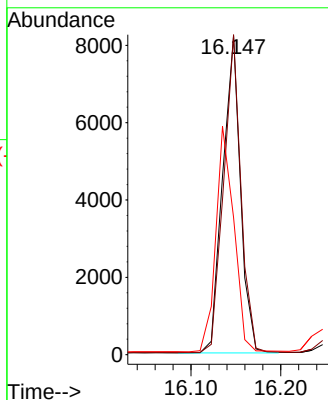
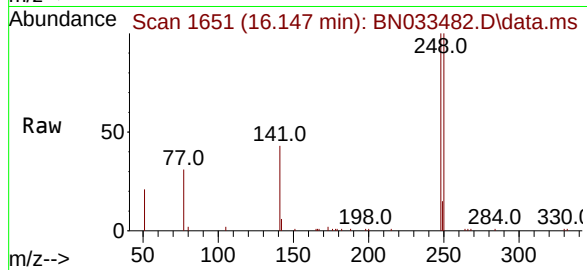




#21
4-Bromophenyl-phenylether
Concen: 0.854 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

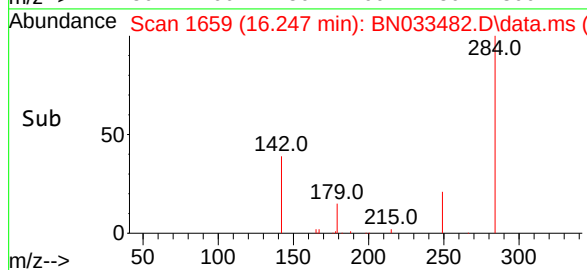
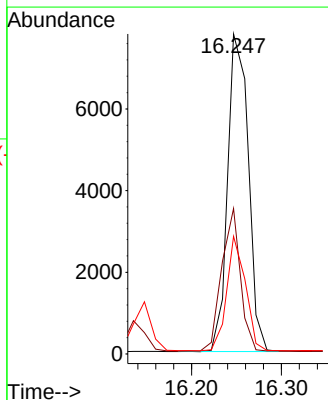
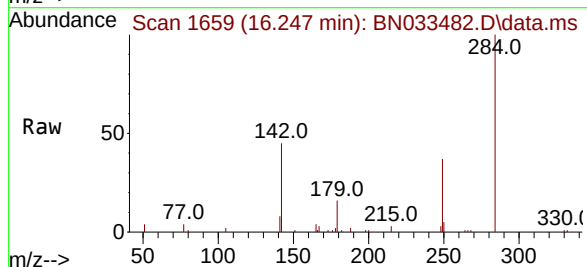
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

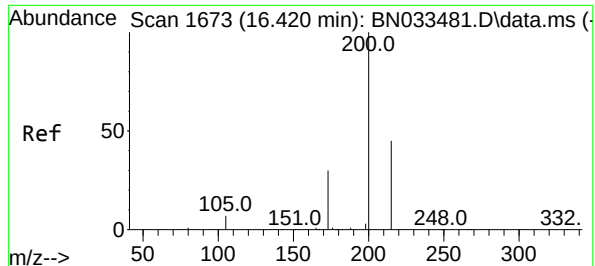
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.3	79.2	118.8
141	43.0	37.9	56.9



#22
Hexachlorobenzene
Concen: 0.844 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.5	31.8	47.6
249	32.6	26.0	39.0





#23

Atrazine

Concen: 0.845 ng

RT: 16.420 min Scan# 1673

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

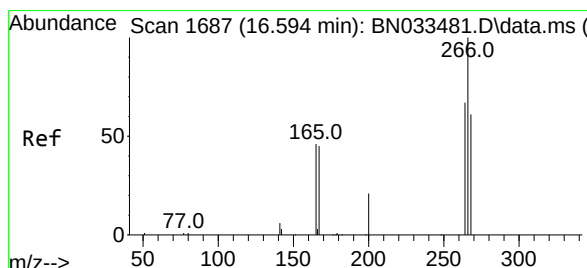
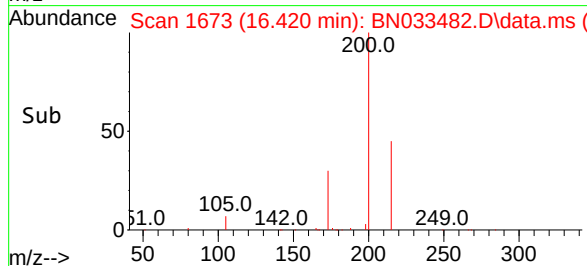
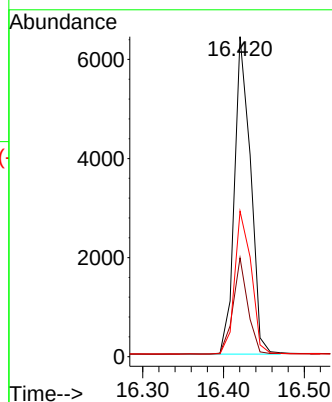
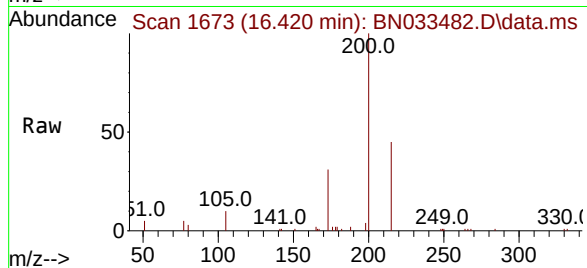
Tgt Ion:200 Resp: 8886

Ion Ratio Lower Upper

200 100

173 30.9 25.3 37.9

215 45.4 36.6 54.8



#24

Pentachlorophenol

Concen: 0.869 ng

RT: 16.594 min Scan# 1687

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

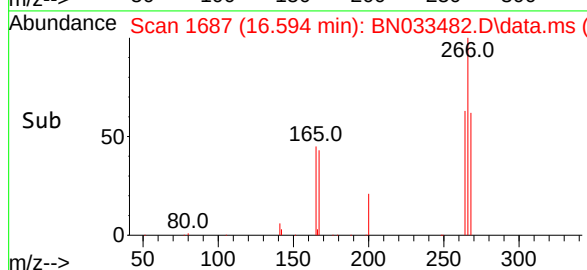
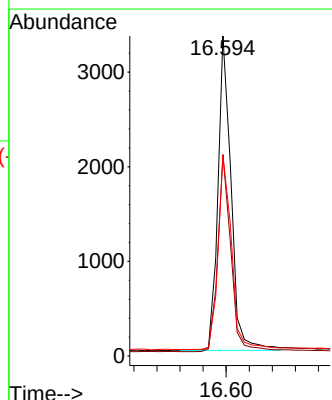
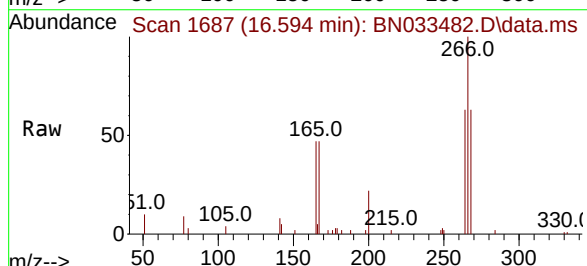
Tgt Ion:266 Resp: 5244

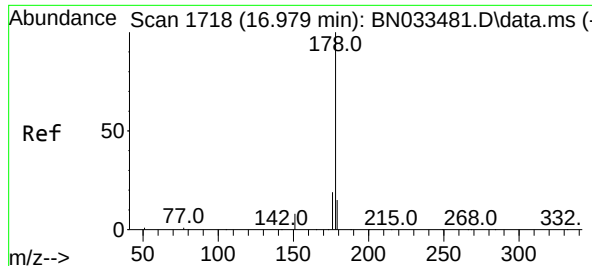
Ion Ratio Lower Upper

266 100

264 62.2 51.9 77.9

268 63.3 51.0 76.4

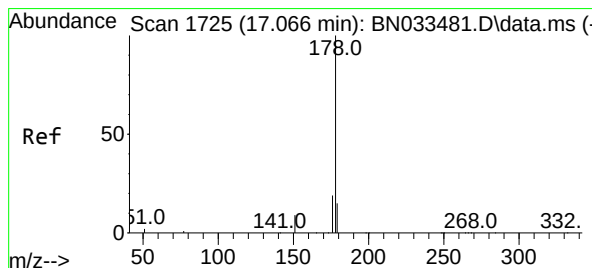
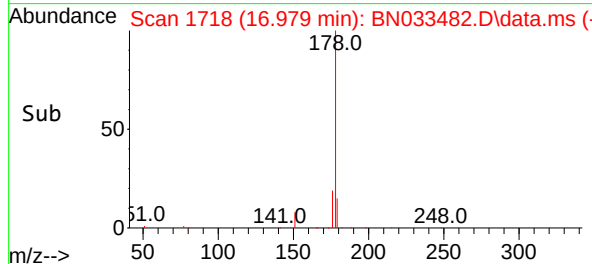
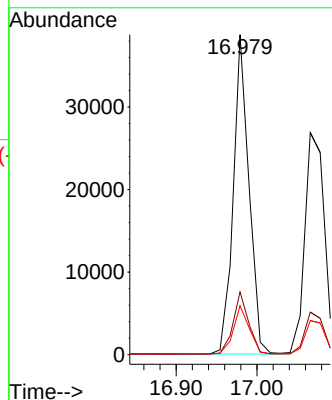
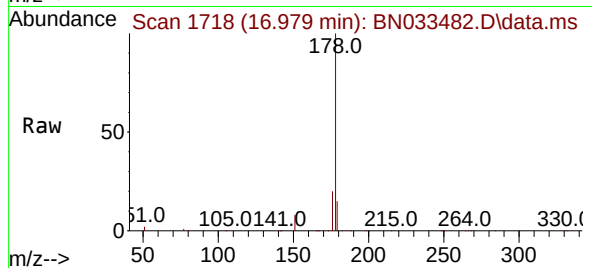




#25
Phenanthrene
Concen: 0.822 ng
RT: 16.979 min Scan# 1718
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

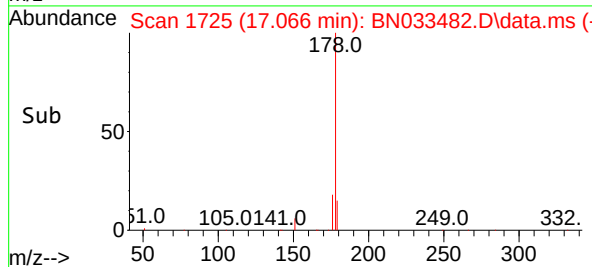
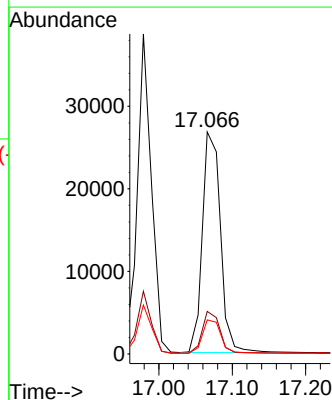
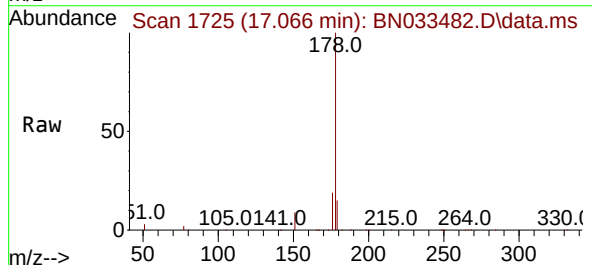
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

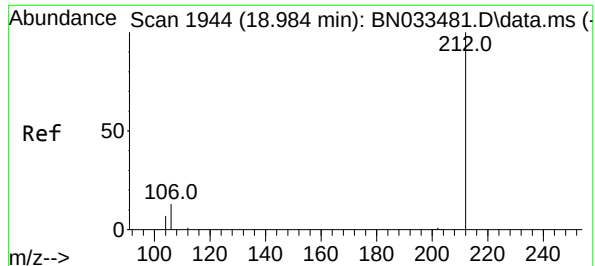
Tgt Ion:178 Resp: 52082
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.2 12.3 18.5



#26
Anthracene
Concen: 0.819 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:178 Resp: 45804
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.771 ng

RT: 18.980 min Scan# 1944

Delta R.T. -0.005 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

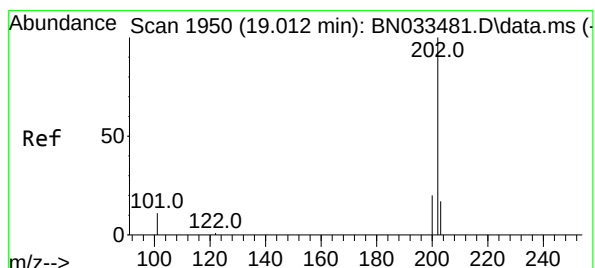
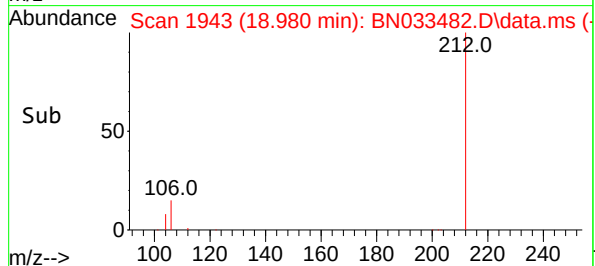
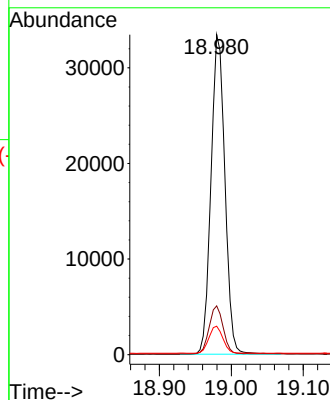
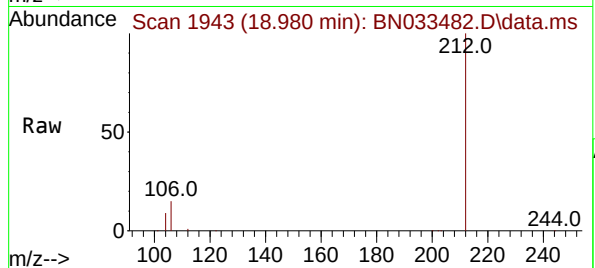
Tgt Ion:212 Resp: 44745

Ion Ratio Lower Upper

212 100

106 15.1 12.3 18.5

104 8.6 7.0 10.4



#28

Fluoranthene

Concen: 0.751 ng

RT: 19.012 min Scan# 1950

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

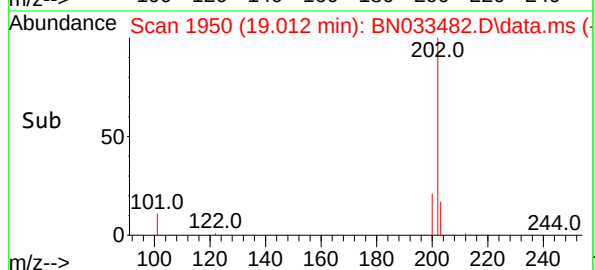
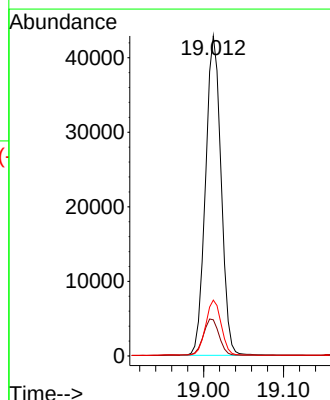
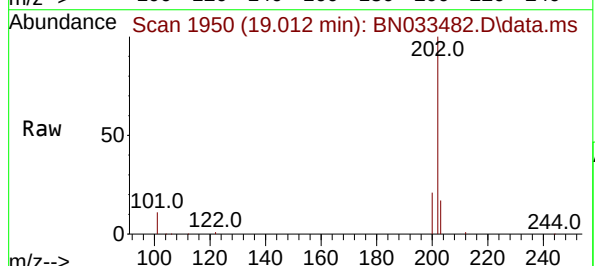
Tgt Ion:202 Resp: 57702

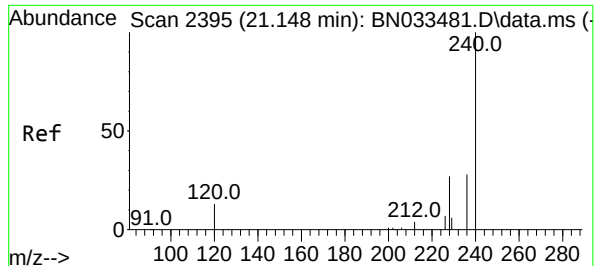
Ion Ratio Lower Upper

202 100

101 11.9 9.5 14.3

203 17.1 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

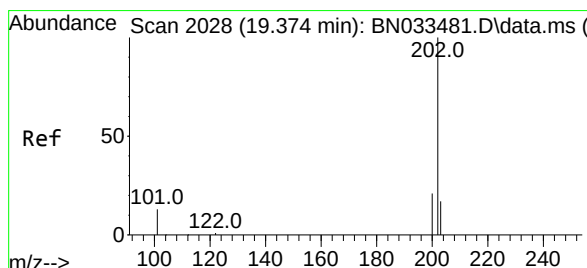
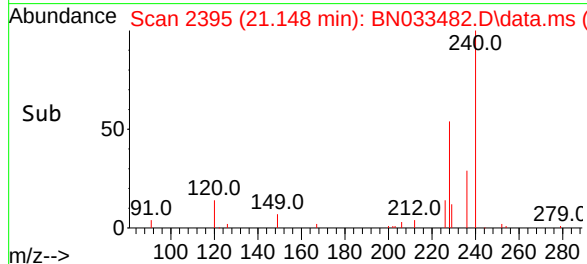
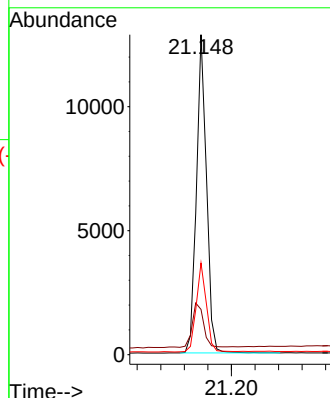
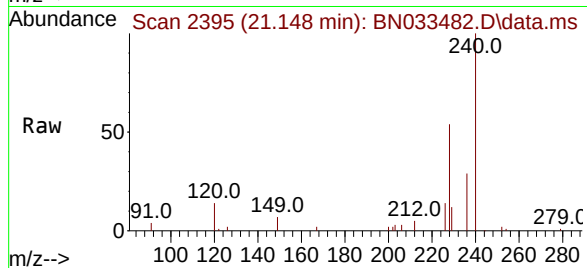
Tgt Ion:240 Resp: 15199

Ion Ratio Lower Upper

240 100

120 14.1 12.4 18.6

236 28.6 23.0 34.6



#30

Pyrene

Concen: 0.944 ng

RT: 19.374 min Scan# 2028

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

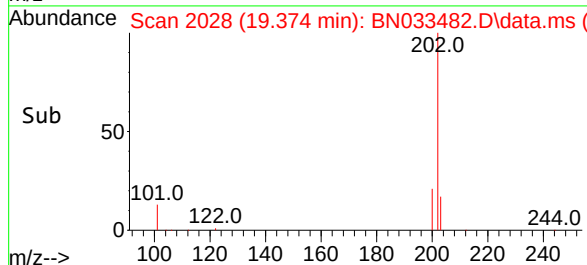
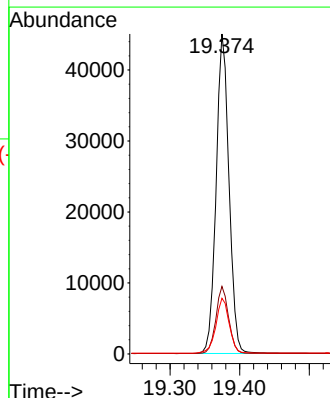
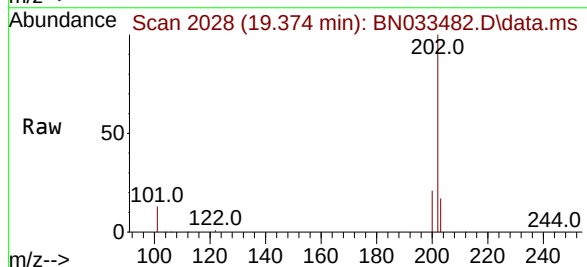
Tgt Ion:202 Resp: 57799

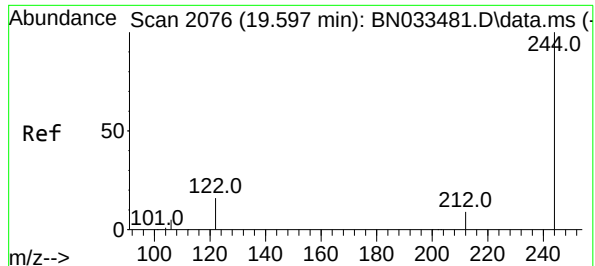
Ion Ratio Lower Upper

202 100

200 20.8 16.6 24.8

203 17.7 14.2 21.4

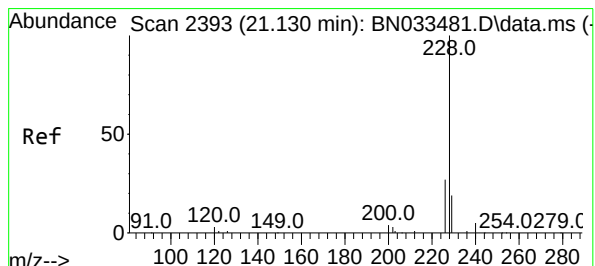
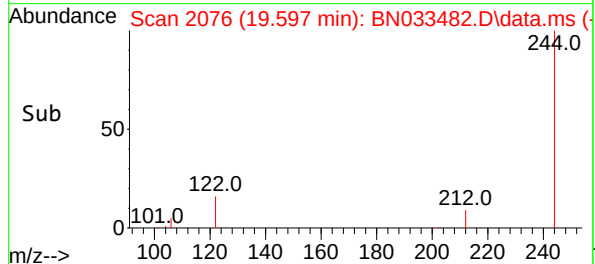
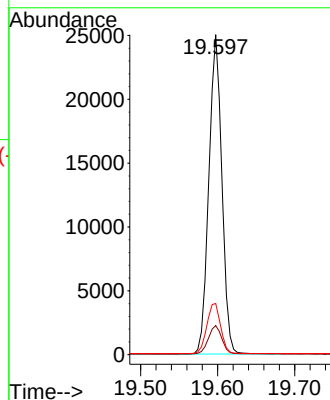
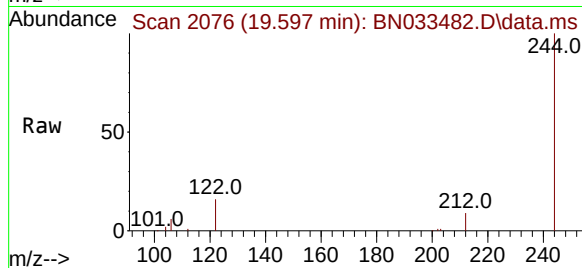




#31
Terphenyl-d14
Concen: 1.002 ng
RT: 19.597 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

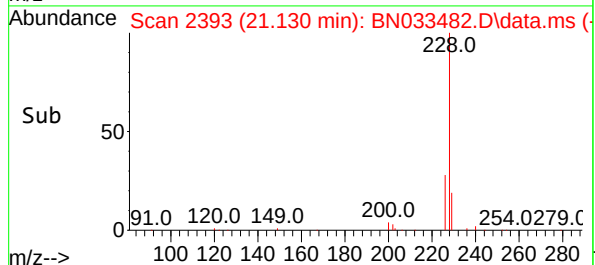
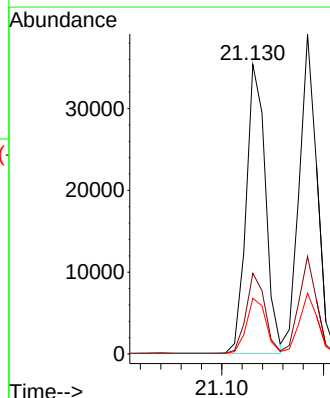
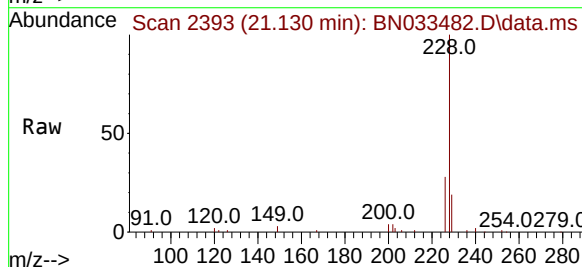
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

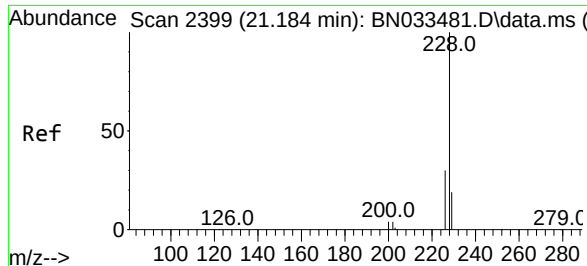
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.8	11.6
122	16.0	13.3	19.9



#32
Benzo(a)anthracene
Concen: 0.822 ng
RT: 21.130 min Scan# 2393
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	21.8	32.6
229	19.2	15.8	23.6





#33

Chrysene

Concen: 0.841 ng

RT: 21.184 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

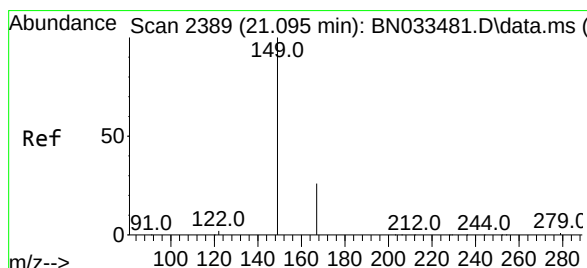
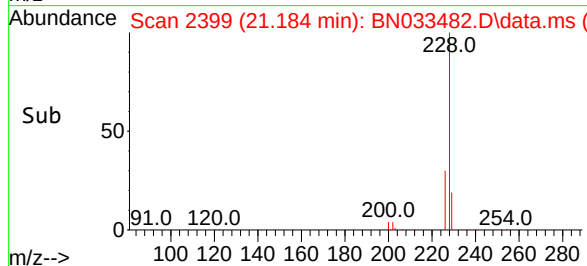
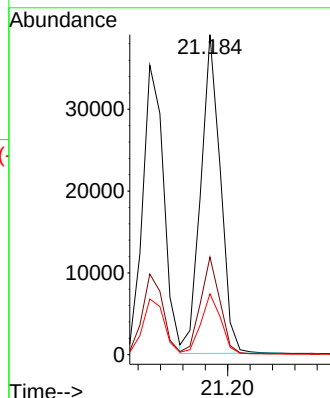
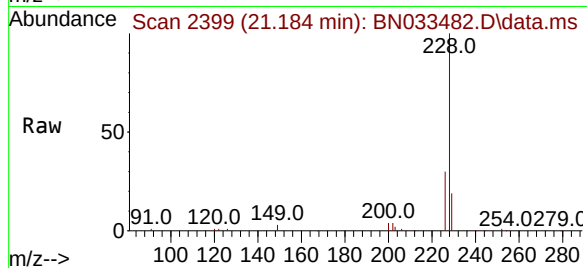
Tgt Ion:228 Resp: 47324

Ion Ratio Lower Upper

228 100

226 30.5 23.8 35.8

229 19.0 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.980 ng

RT: 21.095 min Scan# 2389

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

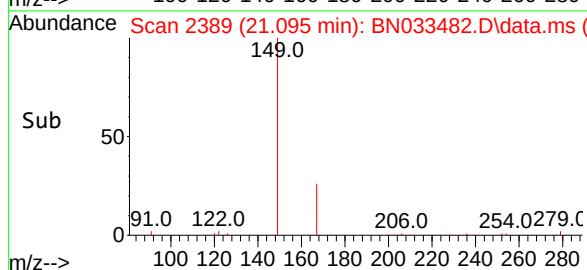
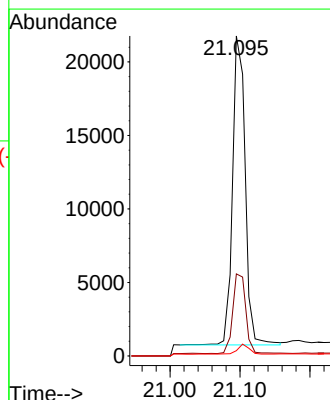
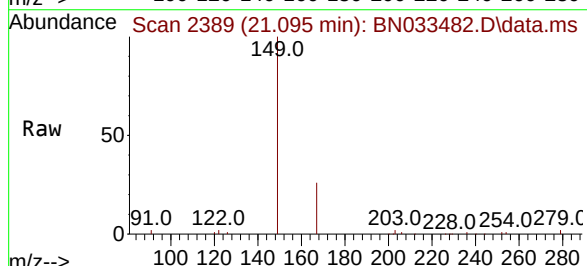
Tgt Ion:149 Resp: 26434

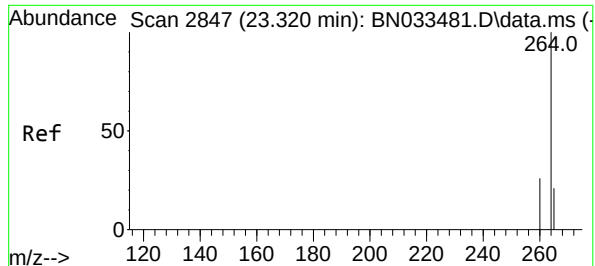
Ion Ratio Lower Upper

149 100

167 26.4 21.5 32.3

279 2.8 2.2 3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.320 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

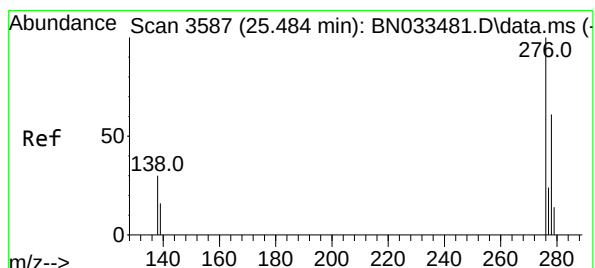
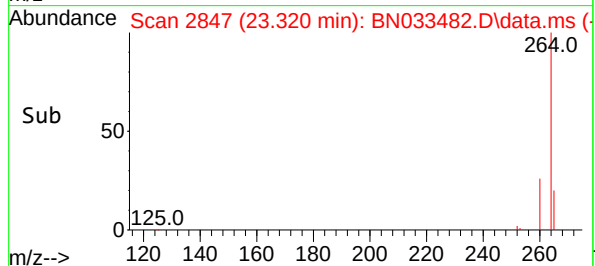
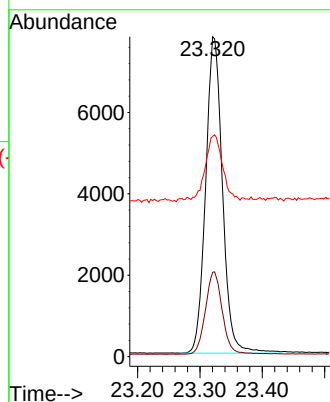
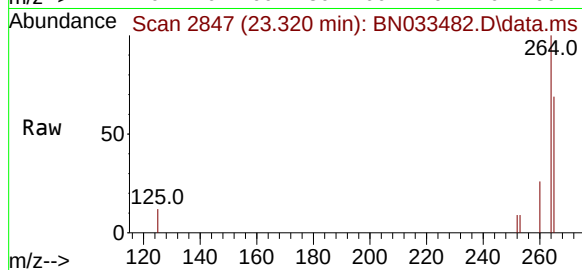
Tgt Ion:264 Resp: 14574

Ion Ratio Lower Upper

264 100

260 26.4 20.8 31.2

265 68.9 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.858 ng

RT: 25.478 min Scan# 3585

Delta R.T. -0.006 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

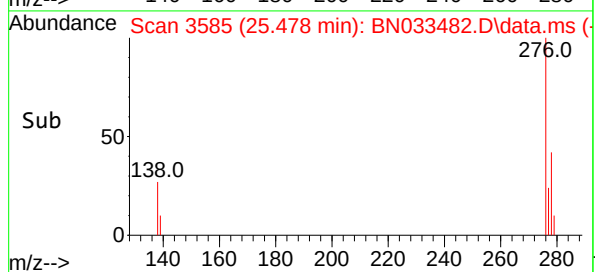
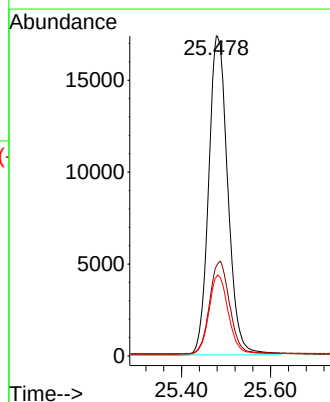
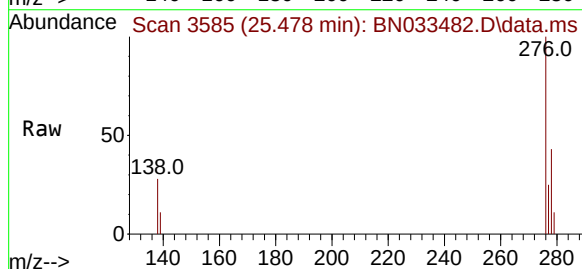
Tgt Ion:276 Resp: 51859

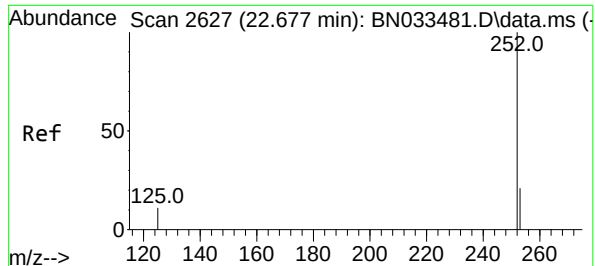
Ion Ratio Lower Upper

276 100

138 30.1 24.4 36.6

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.846 ng

RT: 22.677 min Scan# 2627

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

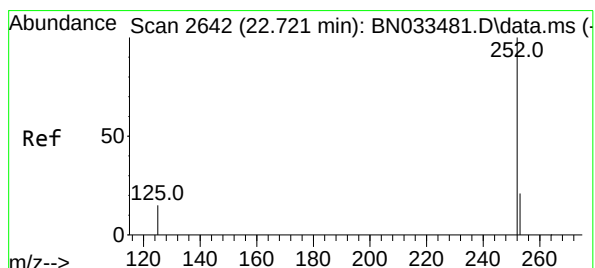
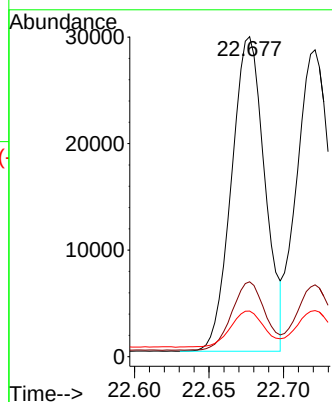
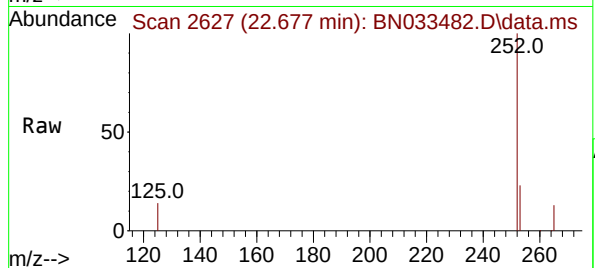
Tgt Ion:252 Resp: 46009

Ion Ratio Lower Upper

252 100

253 23.4 19.8 29.8

125 14.2 13.9 20.9



#38

Benzo(k)fluoranthene

Concen: 0.822 ng

RT: 22.721 min Scan# 2642

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

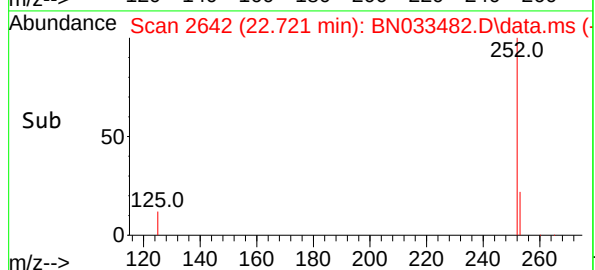
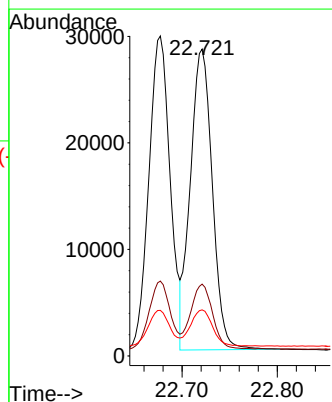
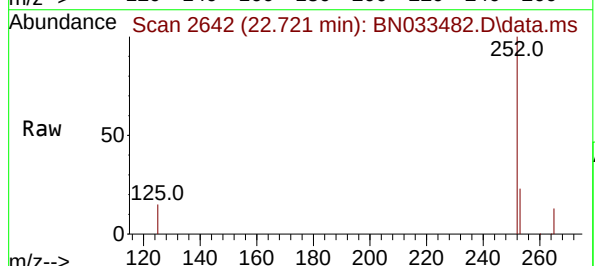
Tgt Ion:252 Resp: 45348

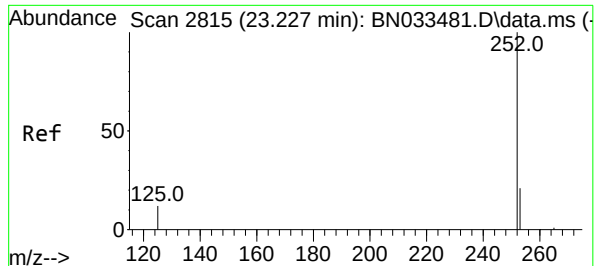
Ion Ratio Lower Upper

252 100

253 23.4 19.8 29.8

125 15.0 15.8 23.8#





#39

Benzo(a)pyrene

Concen: 0.831 ng

RT: 23.227 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033482.D

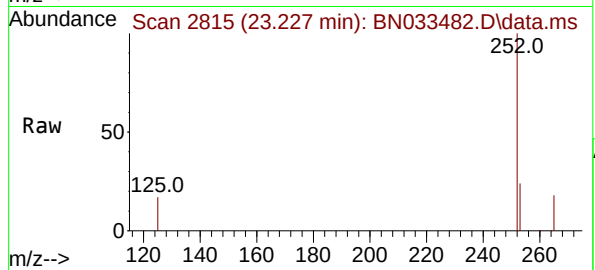
Acq: 19 Aug 2024 18:05

Instrument :

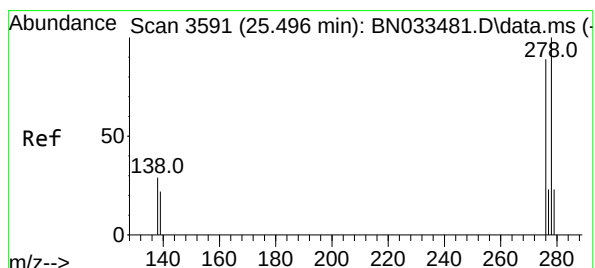
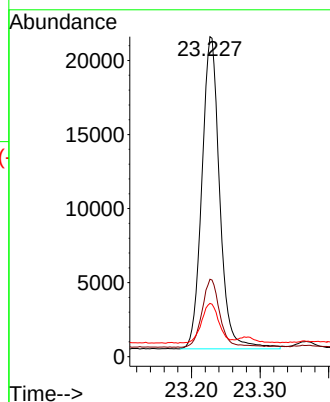
BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:	252	Resp:	38156
Ion Ratio	Lower	Upper	
252	100		
253	24.2	21.5	32.3
125	16.7	17.0	25.4#



#40

Dibenzo(a,h)anthracene

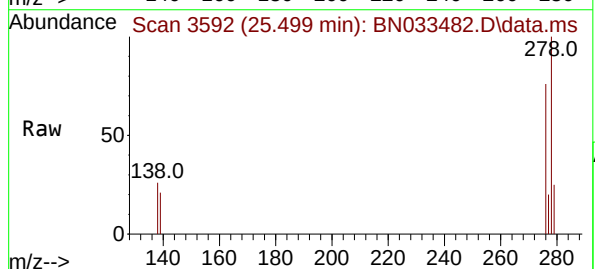
Concen: 0.869 ng

RT: 25.499 min Scan# 3592

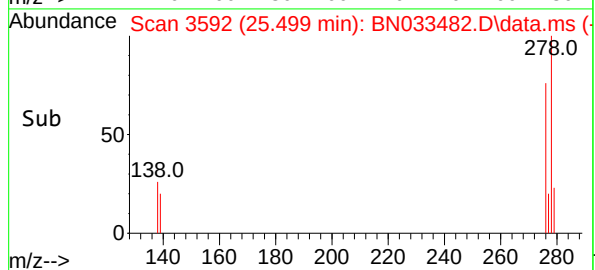
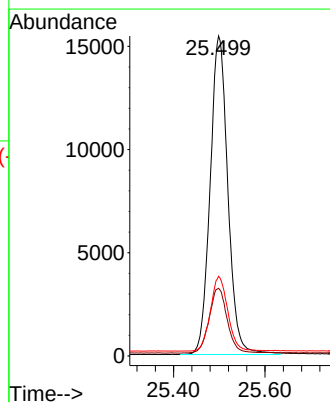
Delta R.T. 0.003 min

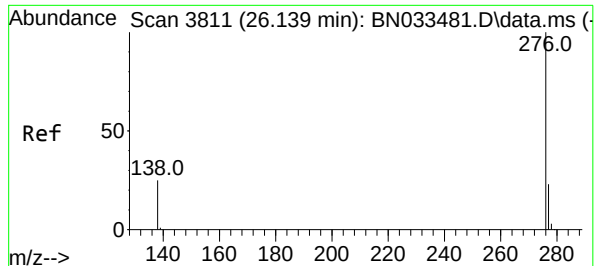
Lab File: BN033482.D

Acq: 19 Aug 2024 18:05



Tgt Ion:	278	Resp:	41569
Ion Ratio	Lower	Upper	
278	100		
139	21.1	19.1	28.7
279	24.9	21.0	31.4





#41

Benzo(g,h,i)perylene

Concen: 0.842 ng

RT: 26.136 min Scan# 3811

Delta R.T. -0.003 min

Lab File: BN033482.D

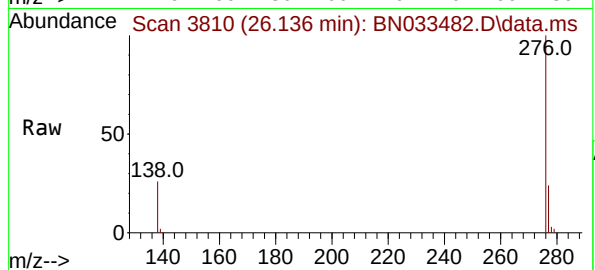
Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



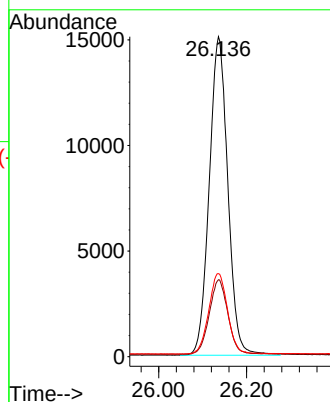
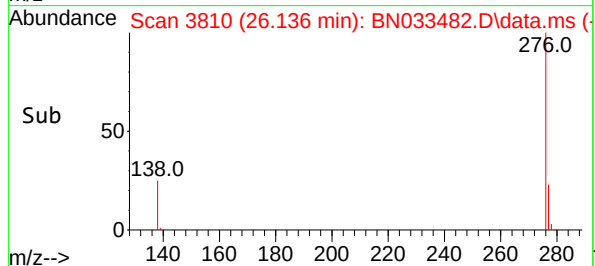
Tgt Ion:276 Resp: 44249

Ion Ratio Lower Upper

276 100

277 24.0 19.7 29.5

138 26.0 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033483.D
 Acq On : 19 Aug 2024 18:41
 Operator : MA/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Aug 19 23:23:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:20:26 2024
 Response via : Initial Calibration

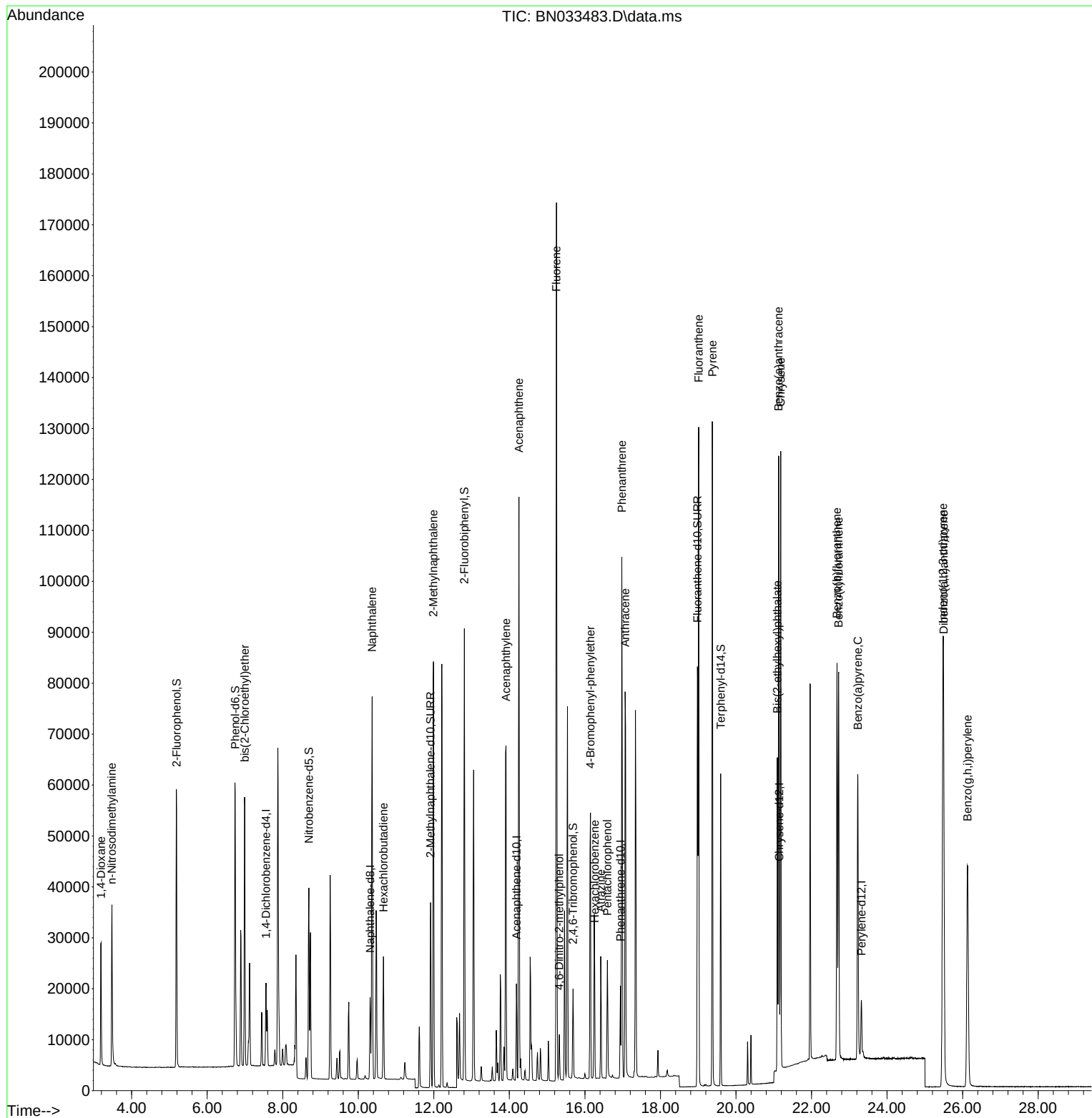
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	7702	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	20093	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	10300	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	21446	0.400	ng	0.00
29) Chrysene-d12	21.148	240	15163	0.400	ng	0.00
35) Perylene-d12	23.320	264	14214	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	40890	1.888	ng	0.00
5) Phenol-d6	6.743	99	49228	1.739	ng	0.00
8) Nitrobenzene-d5	8.691	82	27737	1.822	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	48489	1.605	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	9316	1.771	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	71311	1.711	ng	0.00
27) Fluoranthene-d10	18.980	212	87075	1.549	ng	0.00
31) Terphenyl-d14	19.597	244	57186	1.957	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.190	88	15020	1.812	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.472	42	17709	1.649	ng	96
6) bis(2-Chloroethyl)ether	6.996	93	35921	1.627	ng	100
9) Naphthalene	10.368	128	90555	1.661	ng	99
10) Hexachlorobutadiene	10.667	225	18053	1.726	ng	# 99
12) 2-Methylnaphthalene	11.990	142	57541	1.577	ng	99
16) Acenaphthylene	13.911	152	78001	1.648	ng	100
17) Acenaphthene	14.253	154	54451	1.672	ng	98
18) Fluorene	15.247	166	67863	1.592	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	5910	2.209	ng	# 73
21) 4-Bromophenyl-phenylether	16.147	248	21901	1.712	ng	98
22) Hexachlorobenzene	16.259	284	24018	1.681	ng	99
23) Atrazine	16.420	200	17440	1.712	ng	99
24) Pentachlorophenol	16.594	266	10462	1.789	ng	98
25) Phenanthrene	16.979	178	100158	1.632	ng	100
26) Anthracene	17.066	178	89744	1.655	ng	99
28) Fluoranthene	19.012	202	112640	1.513	ng	100
30) Pyrene	19.374	202	112513	1.842	ng	100
32) Benzo(a)anthracene	21.130	228	92764	1.649	ng	99
33) Chrysene	21.184	228	91851	1.637	ng	100
34) Bis(2-ethylhexyl)phtha...	21.095	149	52726	1.959	ng	99
36) Indeno(1,2,3-cd)pyrene	25.478	276	99989	1.697	ng	99
37) Benzo(b)fluoranthene	22.674	252	89426	1.685	ng	# 93
38) Benzo(k)fluoranthene	22.718	252	89588	1.666	ng	# 91
39) Benzo(a)pyrene	23.224	252	74888	1.673	ng	# 90
40) Dibenzo(a,h)anthracene	25.496	278	80194	1.720	ng	94
41) Benzo(g,h,i)perylene	26.130	276	85629	1.670	ng	98

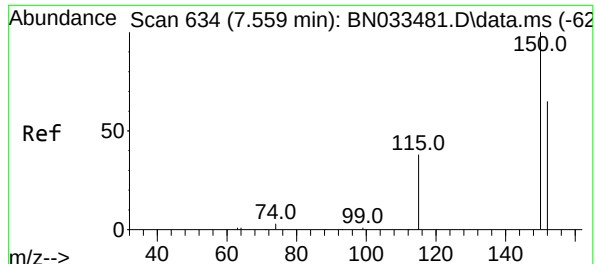
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033483.D
Acq On : 19 Aug 2024 18:41
Operator : MA/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Aug 19 23:23:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

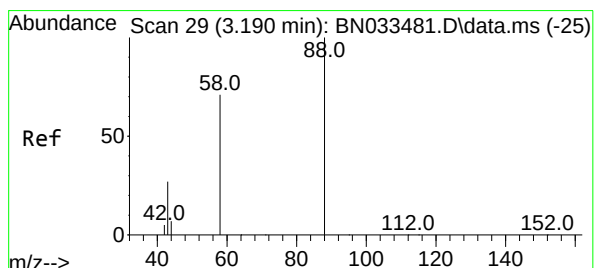
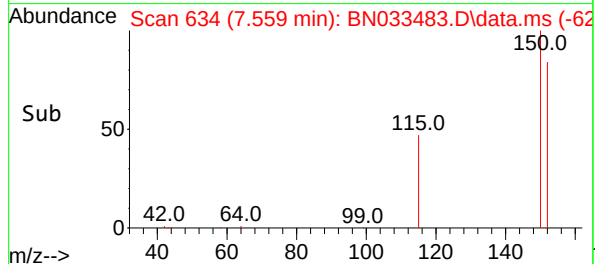
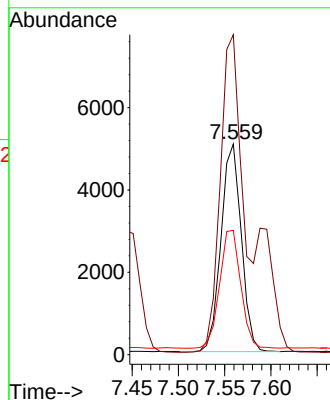
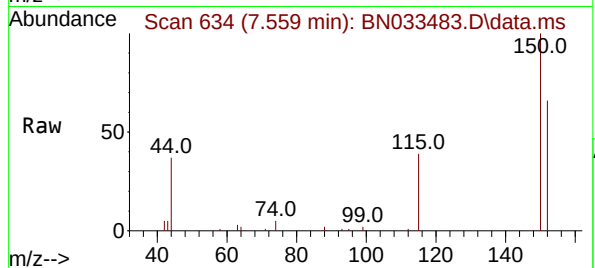




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

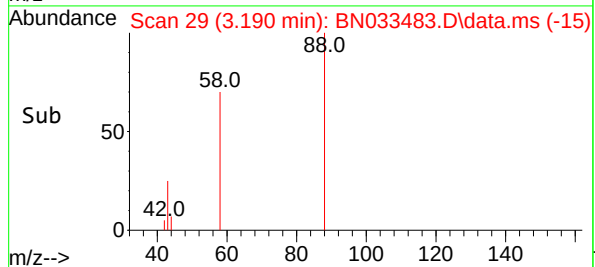
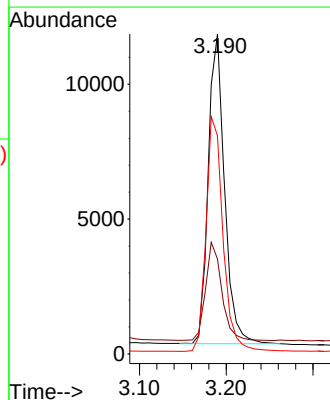
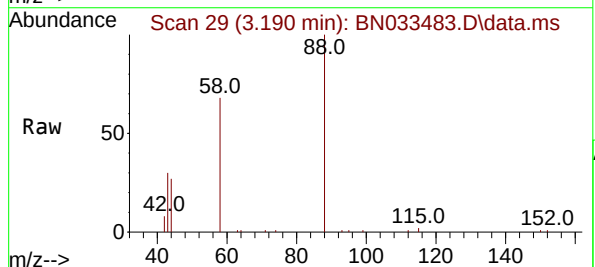
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

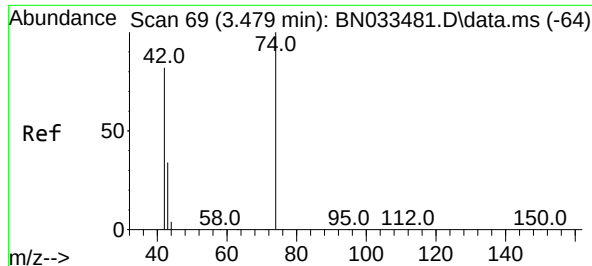
Tgt Ion:152 Resp: 7702
Ion Ratio Lower Upper
152 100
150 151.8 122.2 183.2
115 59.0 47.2 70.8



#2
1,4-Dioxane
Concen: 1.812 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion: 88 Resp: 15020
Ion Ratio Lower Upper
88 100
43 31.3 25.0 37.4
58 78.6 62.5 93.7

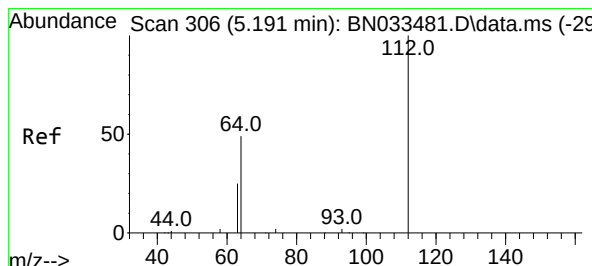
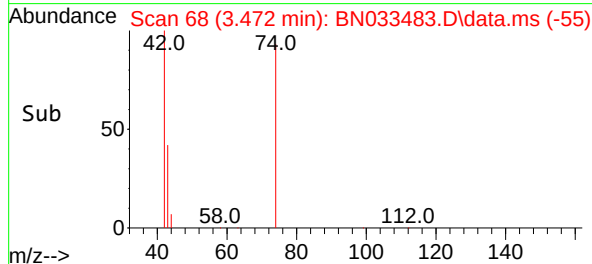
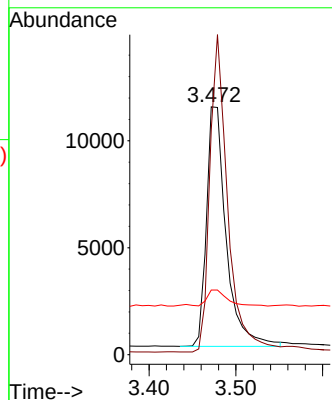
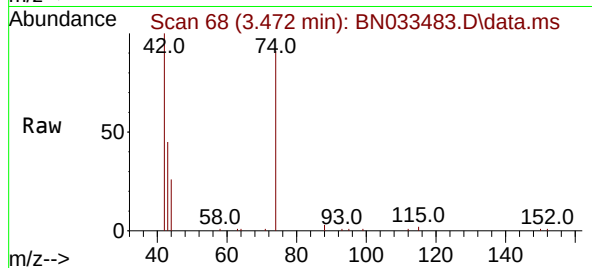




#3
n-Nitrosodimethylamine
Concen: 1.649 ng
RT: 3.472 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

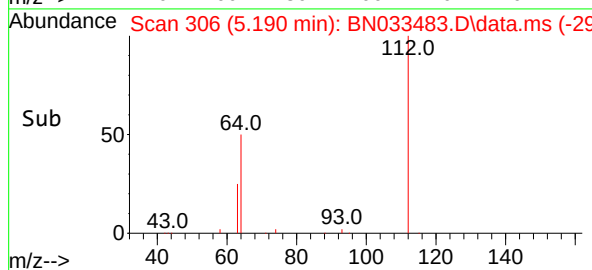
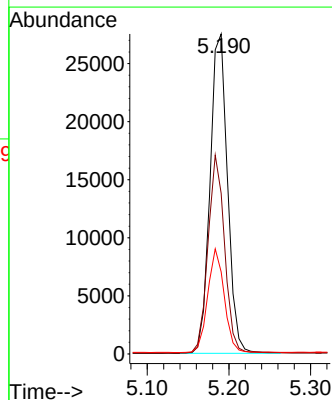
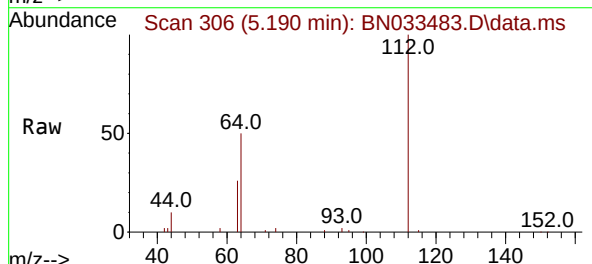
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

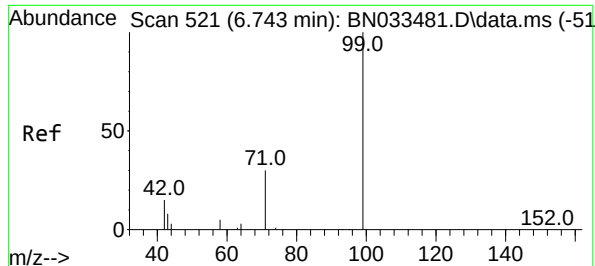
Tgt Ion: 42 Resp: 17709
Ion Ratio Lower Upper
42 100
74 120.3 100.2 150.2
44 7.1 5.3 7.9



#4
2-Fluorophenol
Concen: 1.888 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion: 112 Resp: 40890
Ion Ratio Lower Upper
112 100
64 59.0 47.1 70.7
63 30.8 24.9 37.3

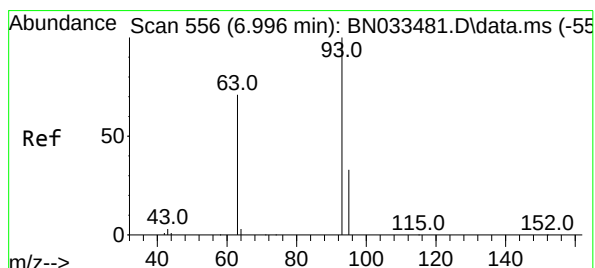
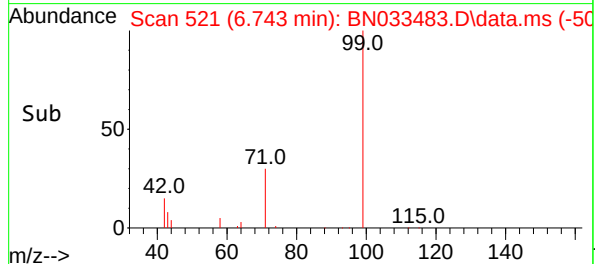
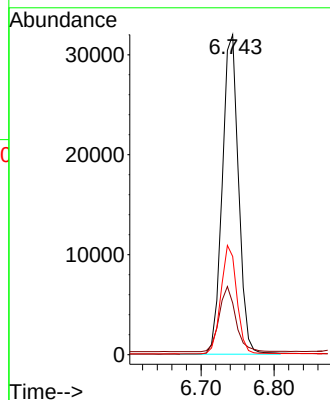
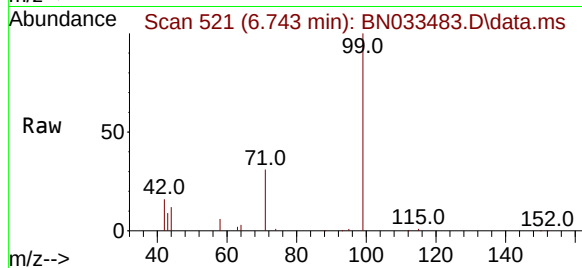




#5
Phenol-d6
Concen: 1.739 ng
RT: 6.743 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

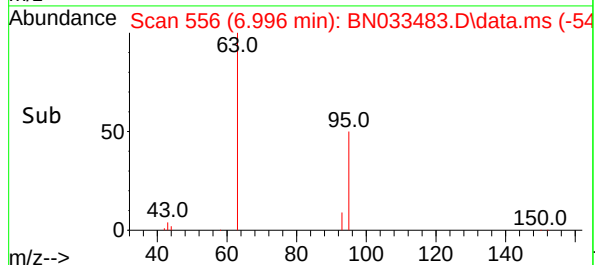
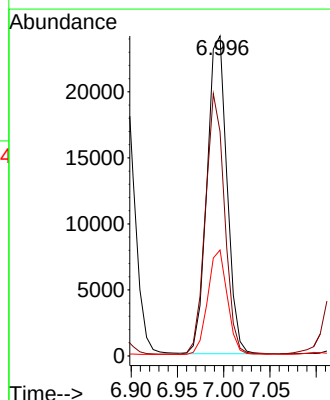
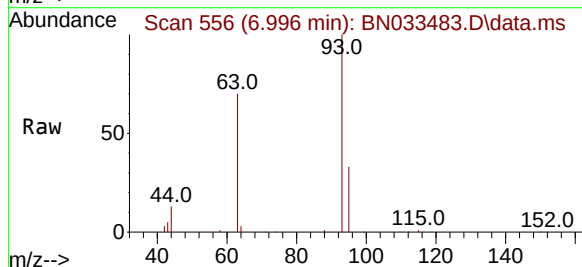
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

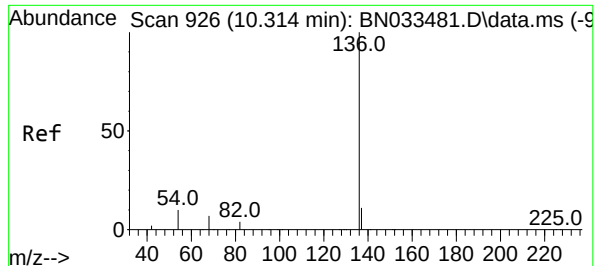
Tgt Ion: 99 Resp: 49228
Ion Ratio Lower Upper
99 100
42 20.8 16.6 24.8
71 33.3 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 1.627 ng
RT: 6.996 min Scan# 556
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion: 93 Resp: 35921
Ion Ratio Lower Upper
93 100
63 79.1 63.0 94.4
95 32.6 26.0 39.0

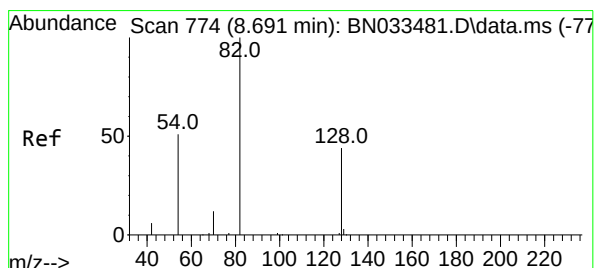
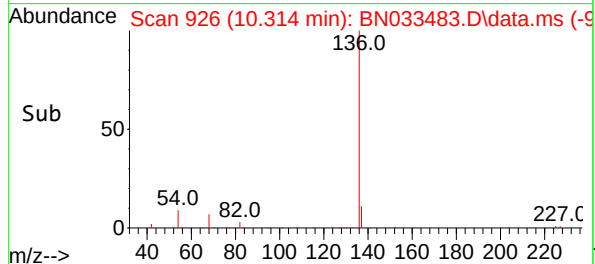
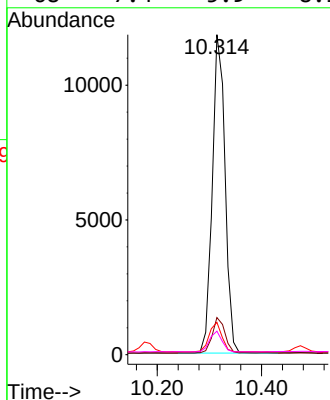
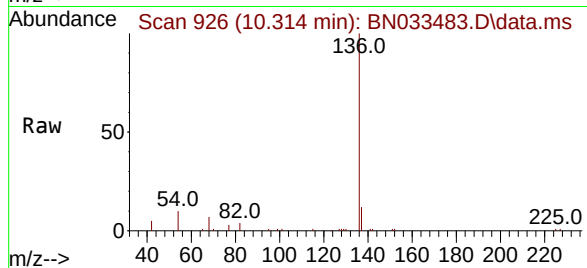




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

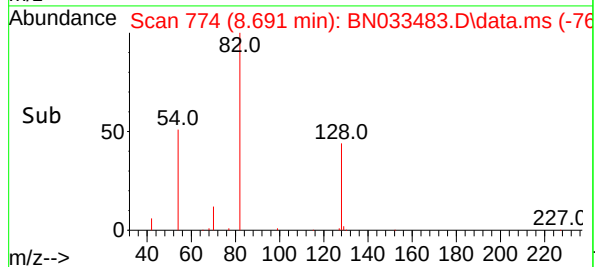
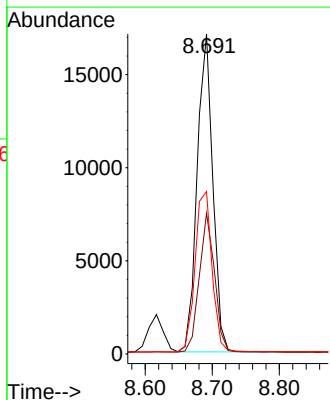
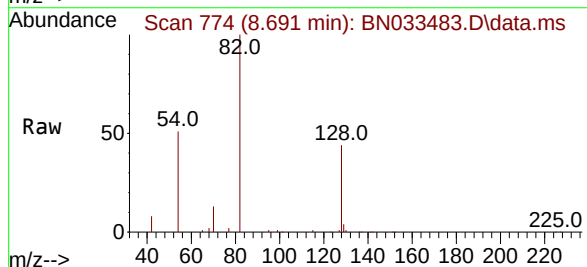
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

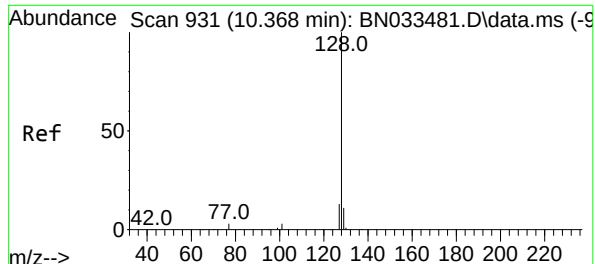
Tgt Ion:	136	Resp:	20093
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.0	13.6
54	10.1	8.3	12.5
68	7.4	5.9	8.9



#8
Nitrobenzene-d5
Concen: 1.822 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:	82	Resp:	27737
Ion	Ratio	Lower	Upper
82	100		
128	44.0	36.0	54.0
54	50.8	42.0	63.0

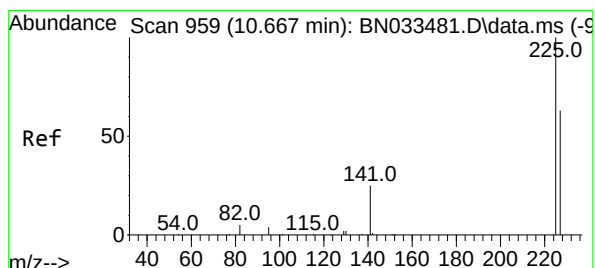
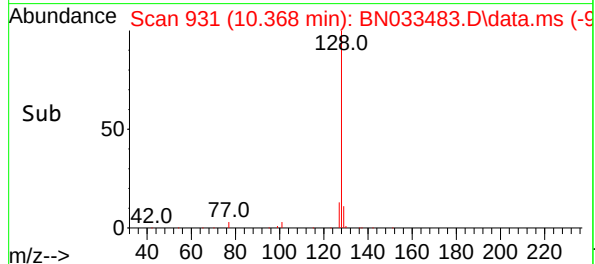
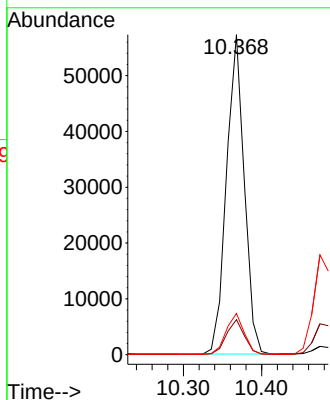
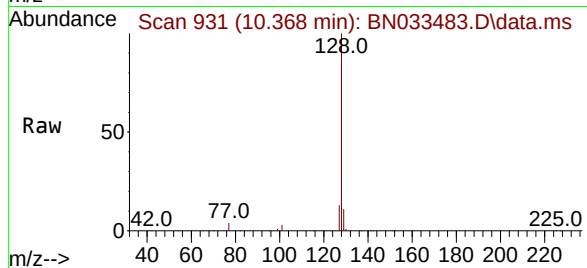




#9
Naphthalene
Concen: 1.661 ng
RT: 10.368 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

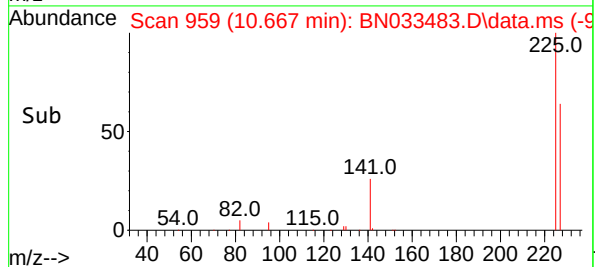
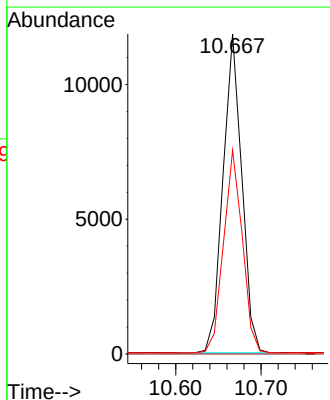
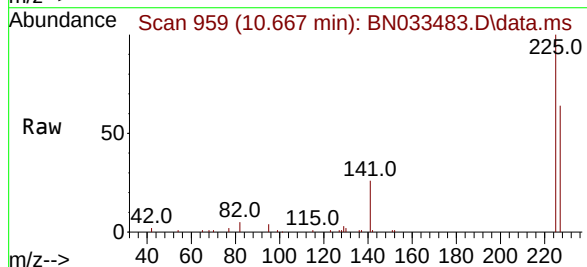
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

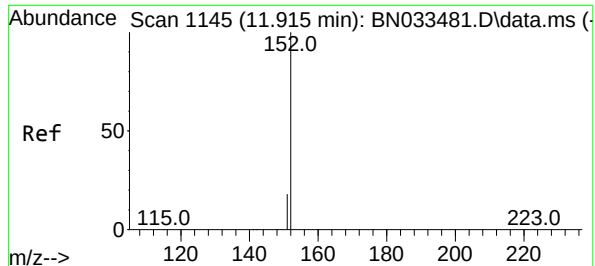
Tgt Ion:128 Resp: 90555
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 12.9 10.7 16.1



#10
Hexachlorobutadiene
Concen: 1.726 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:225 Resp: 18053
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.2 76.8

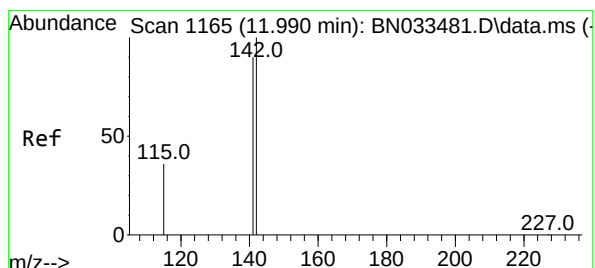
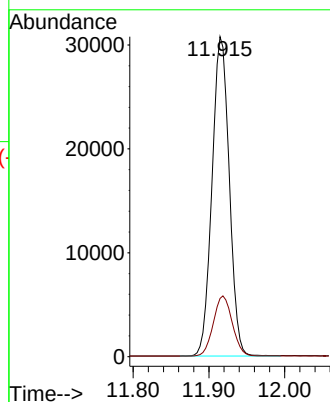
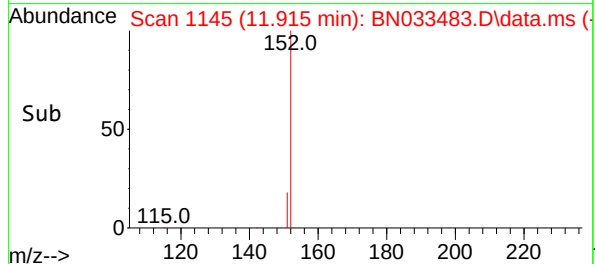
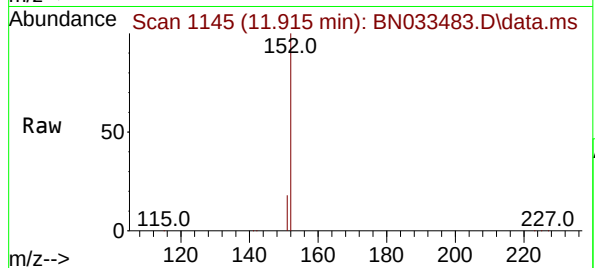




#11
2-Methylnaphthalene-d10
Concen: 1.605 ng
RT: 11.915 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

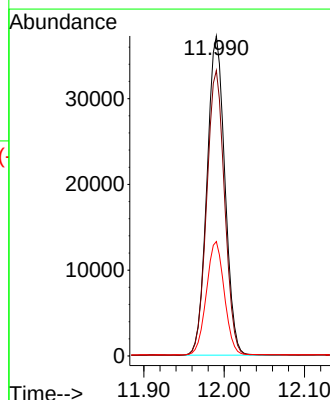
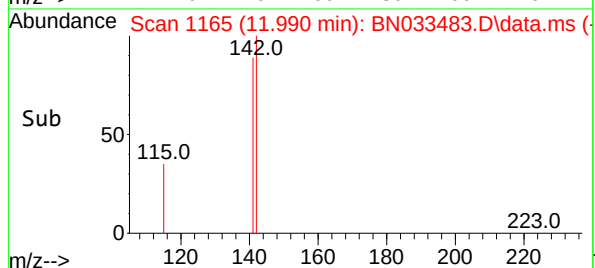
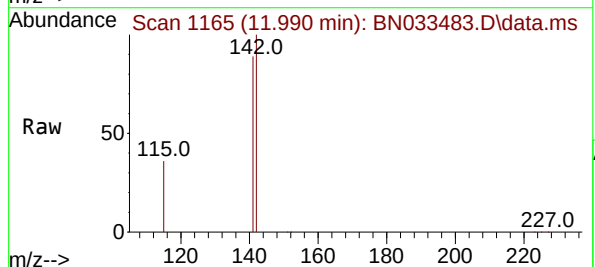
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

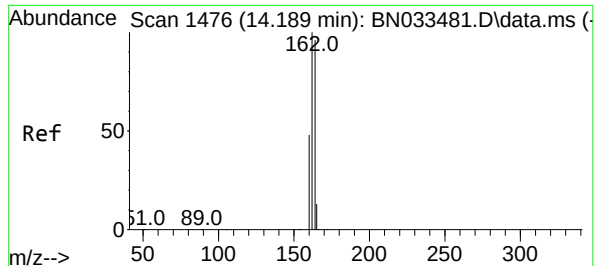
Tgt Ion:152 Resp: 48489
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 1.577 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:142 Resp: 57541
Ion Ratio Lower Upper
142 100
141 89.2 71.7 107.5
115 35.7 29.4 44.2

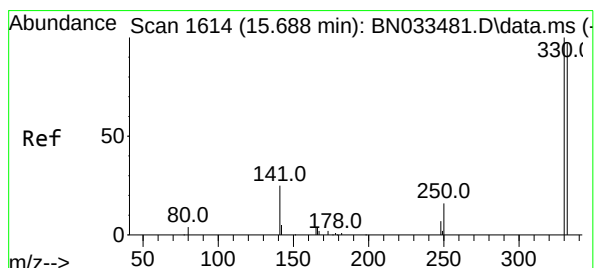
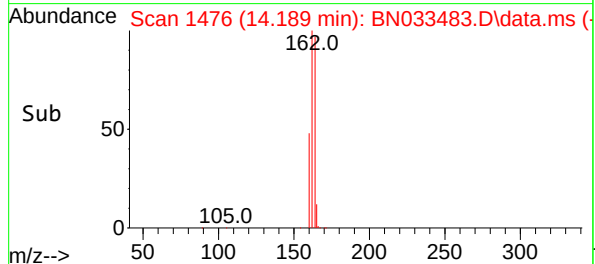
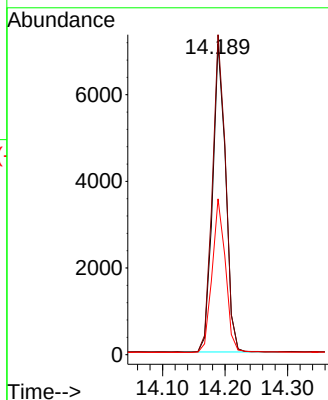
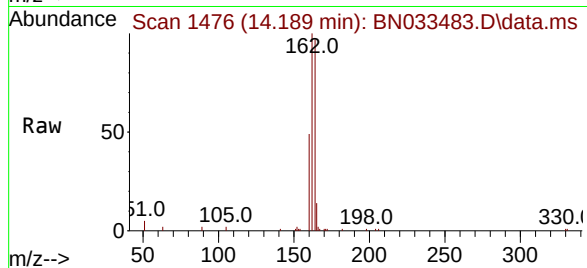




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

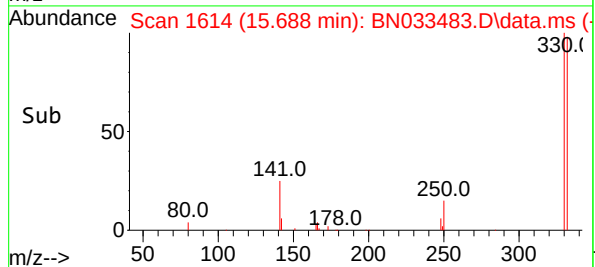
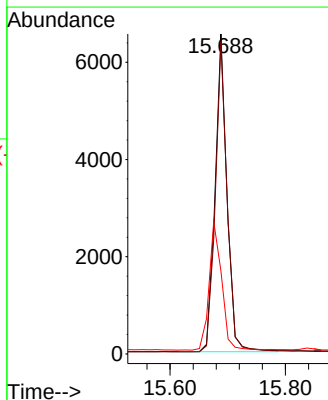
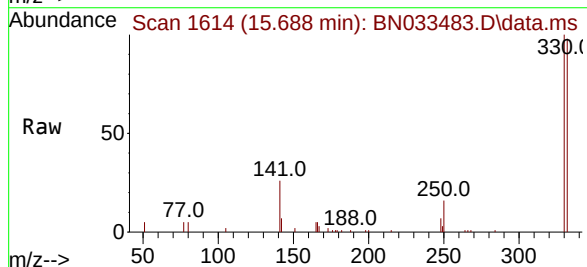
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

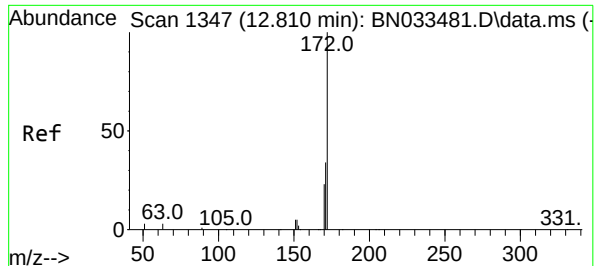
Tgt Ion:164 Resp: 10300
Ion Ratio Lower Upper
164 100
162 103.0 83.5 125.3
160 50.2 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 1.771 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:330 Resp: 9316
Ion Ratio Lower Upper
330 100
332 96.7 77.5 116.3
141 42.8 33.9 50.9

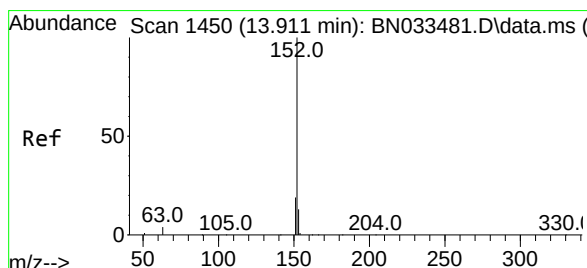
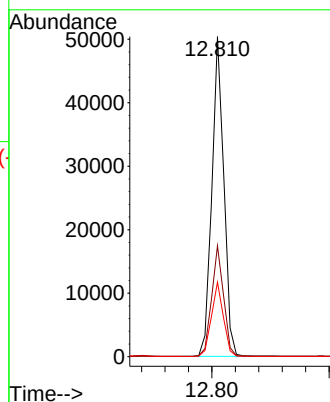
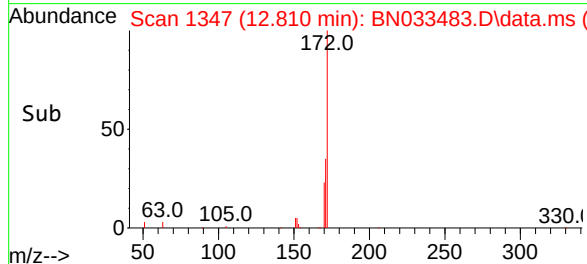
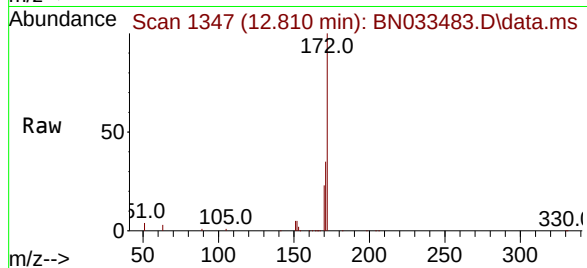




#15
2-Fluorobiphenyl
Concen: 1.711 ng
RT: 12.810 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

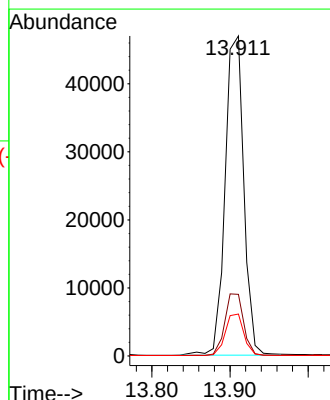
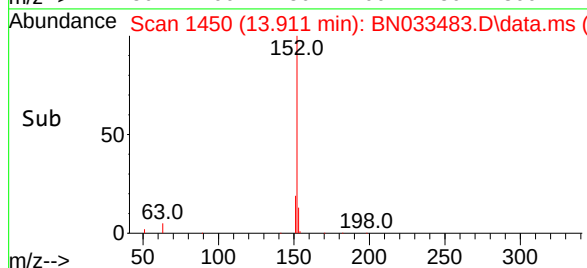
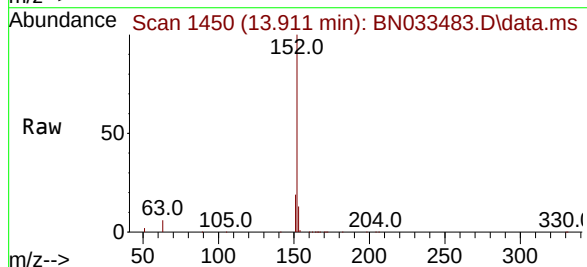
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

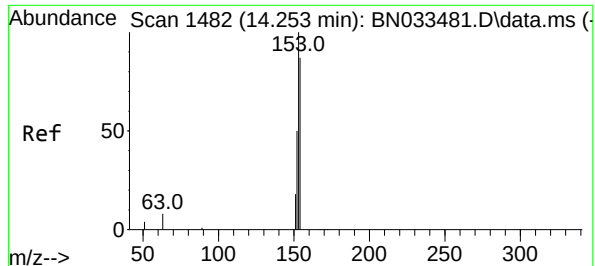
Tgt Ion:172 Resp: 71311
Ion Ratio Lower Upper
172 100
171 34.6 27.7 41.5
170 23.3 18.3 27.5



#16
Acenaphthylene
Concen: 1.648 ng
RT: 13.911 min Scan# 1450
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:152 Resp: 78001
Ion Ratio Lower Upper
152 100
151 19.5 15.7 23.5
153 13.0 10.3 15.5

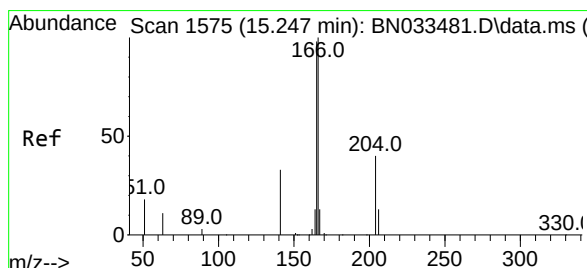
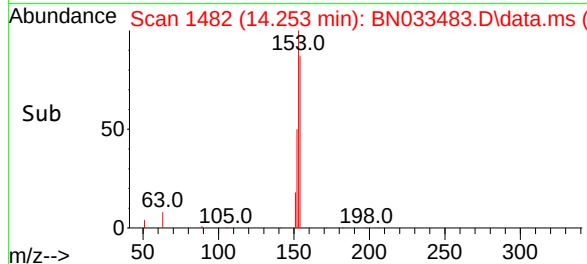
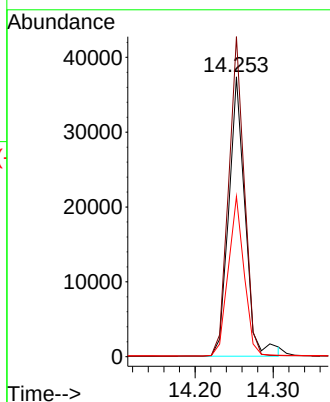
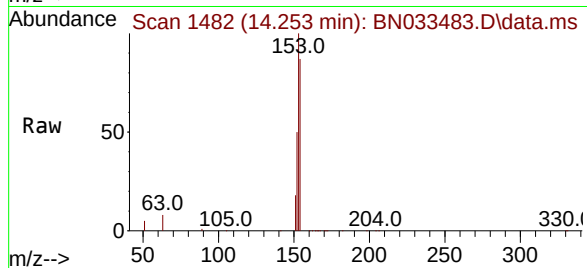




#17
Acenaphthene
Concen: 1.672 ng
RT: 14.253 min Scan# 1482
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

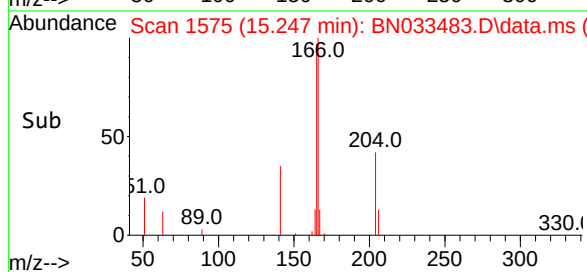
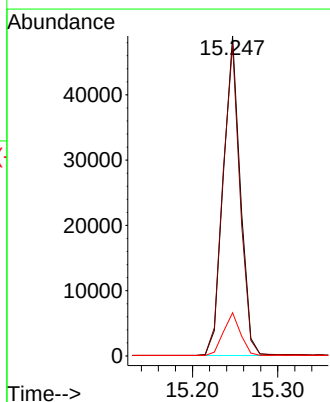
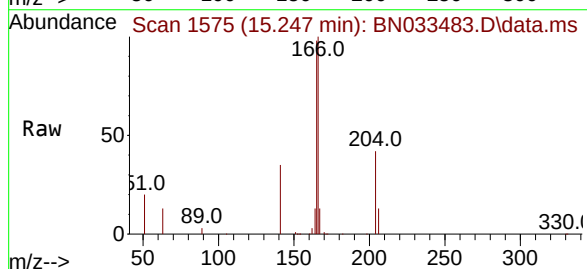
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

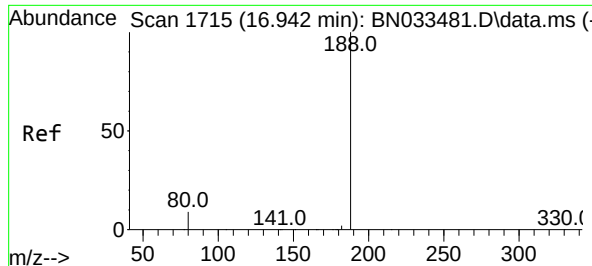
Tgt Ion:154 Resp: 54451
Ion Ratio Lower Upper
154 100
153 109.7 89.0 133.6
152 55.1 45.2 67.8



#18
Fluorene
Concen: 1.592 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:166 Resp: 67863
Ion Ratio Lower Upper
166 100
165 97.8 78.2 117.4
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

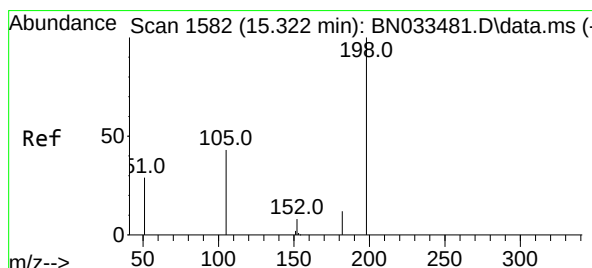
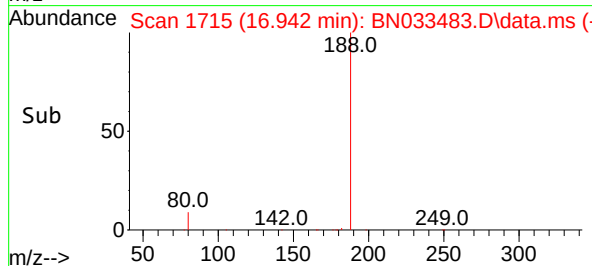
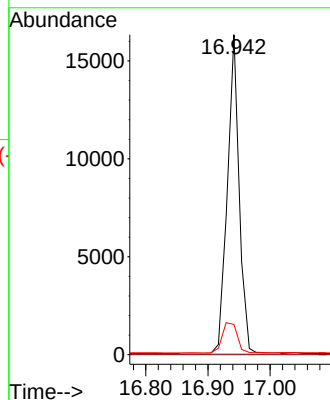
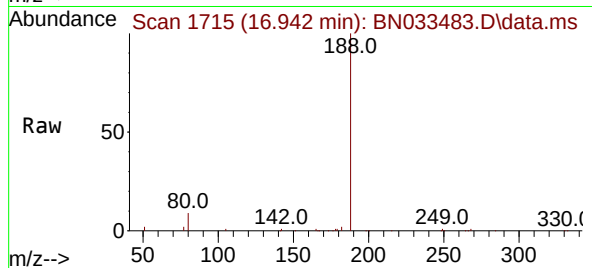
Tgt Ion:188 Resp: 21446

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 7.8 11.8



#20

4,6-Dinitro-2-methylphenol

Concen: 2.209 ng

RT: 15.322 min Scan# 1582

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

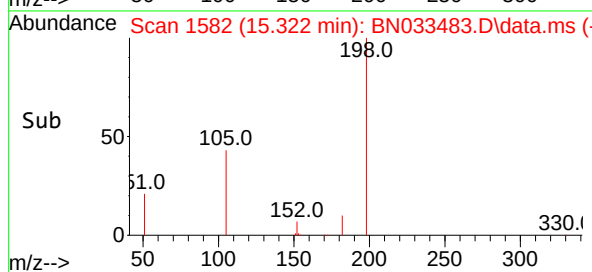
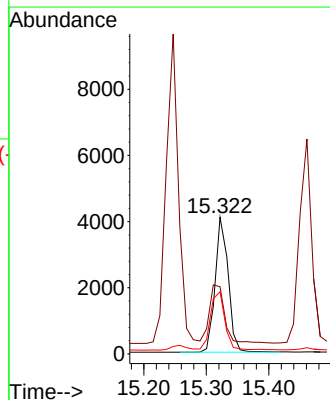
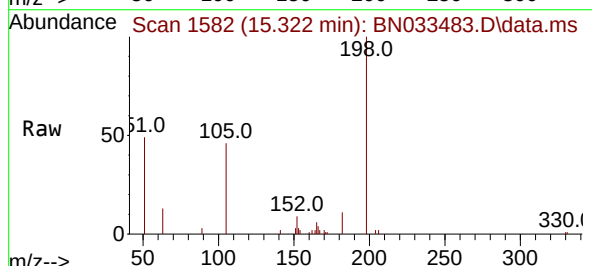
Tgt Ion:198 Resp: 5910

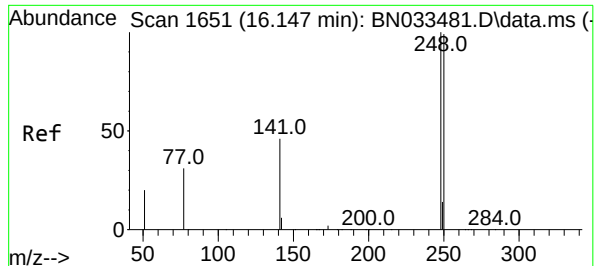
Ion Ratio Lower Upper

198 100

51 49.1 65.1 97.7#

105 45.6 44.8 67.2

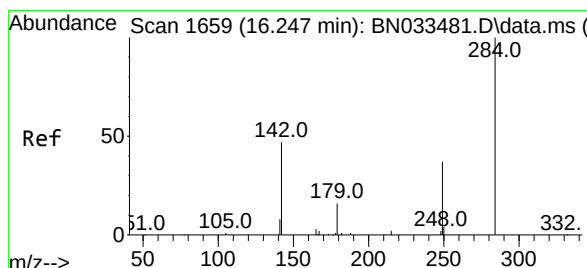
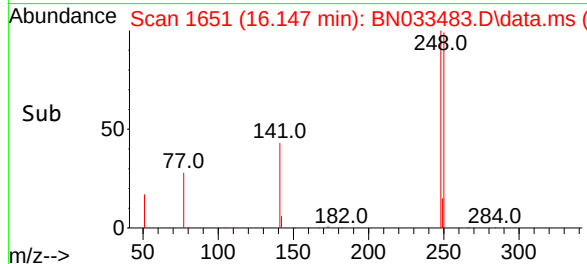
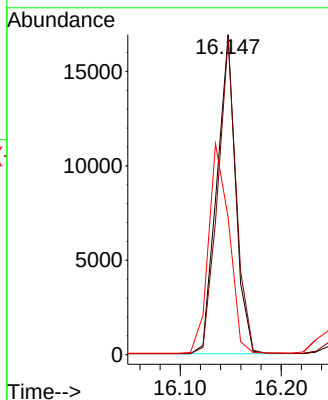
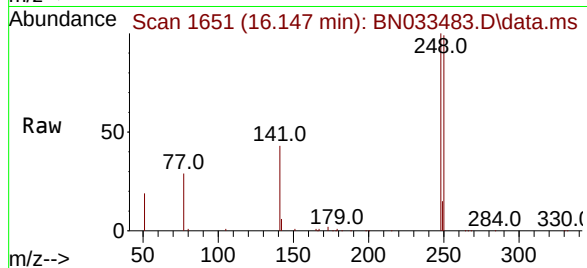




#21
4-Bromophenyl-phenylether
Concen: 1.712 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

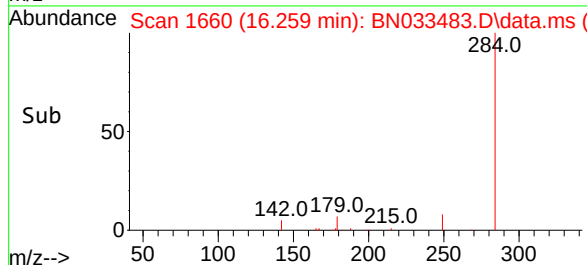
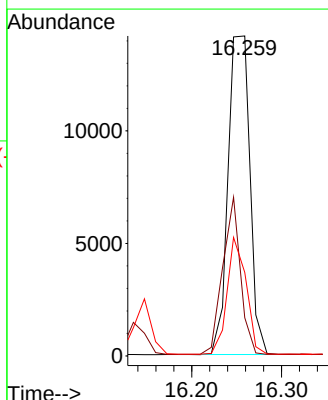
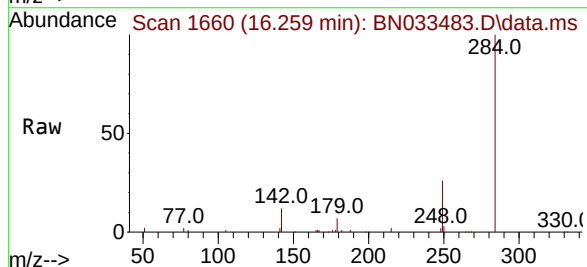
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

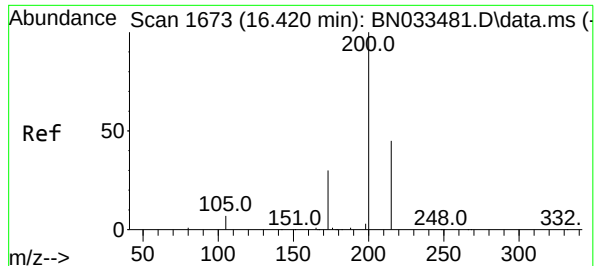
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.9	79.2	118.8
141	42.9	37.9	56.9



#22
Hexachlorobenzene
Concen: 1.681 ng
RT: 16.259 min Scan# 1660
Delta R.T. 0.012 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.9	31.8	47.6
249	31.8	26.0	39.0

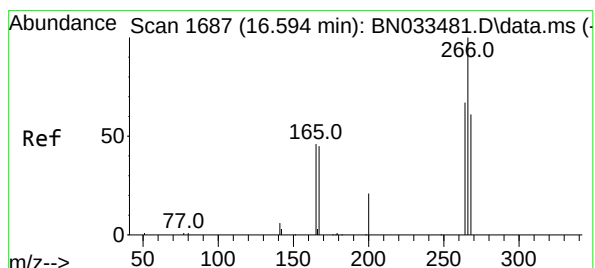
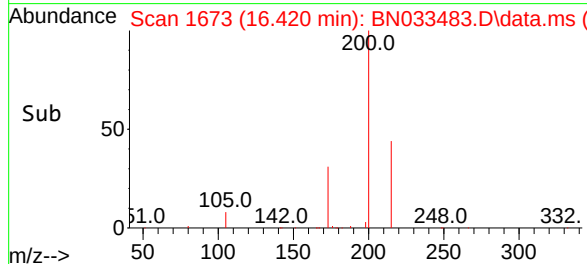
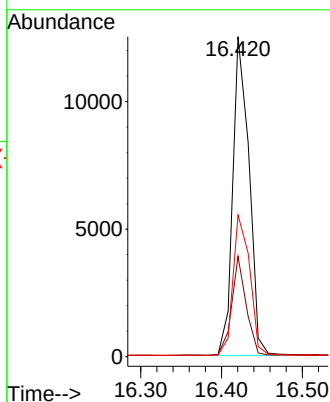
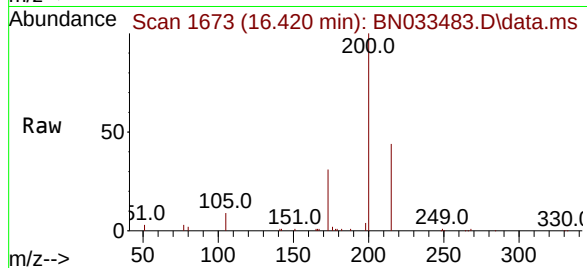




#23
Atrazine
Concen: 1.712 ng
RT: 16.420 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

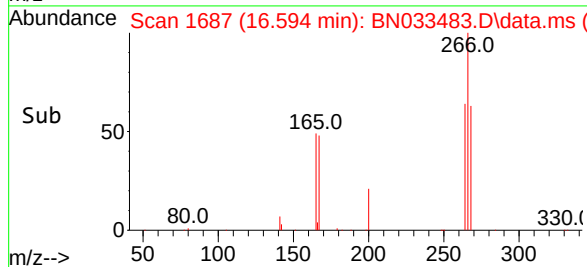
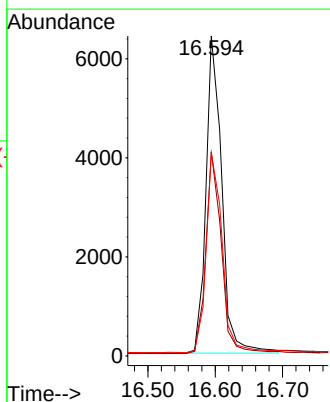
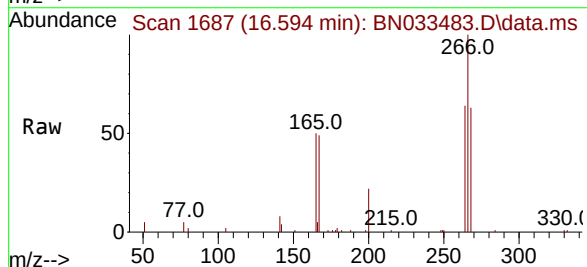
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

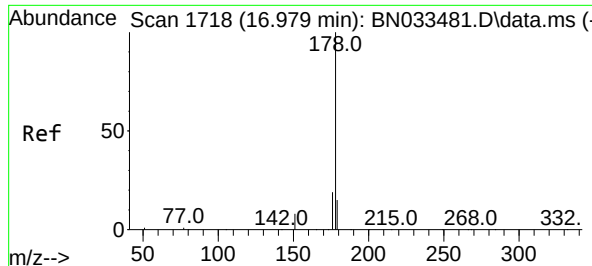
Tgt Ion:200 Resp: 17440
Ion Ratio Lower Upper
200 100
173 31.4 25.3 37.9
215 44.3 36.6 54.8



#24
Pentachlorophenol
Concen: 1.789 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:266 Resp: 10462
Ion Ratio Lower Upper
266 100
264 62.4 51.9 77.9
268 63.9 51.0 76.4

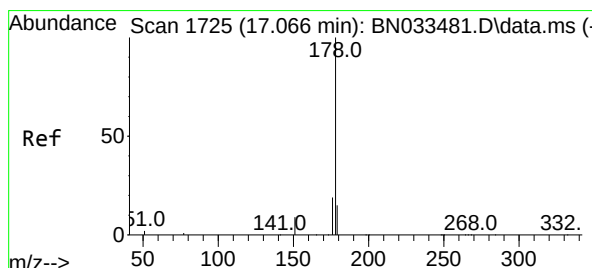
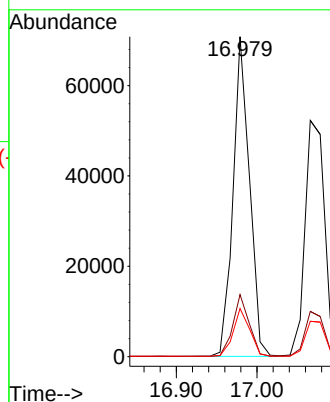
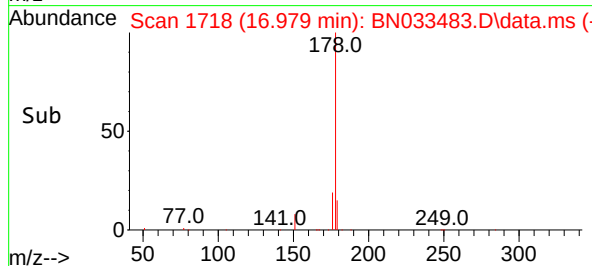
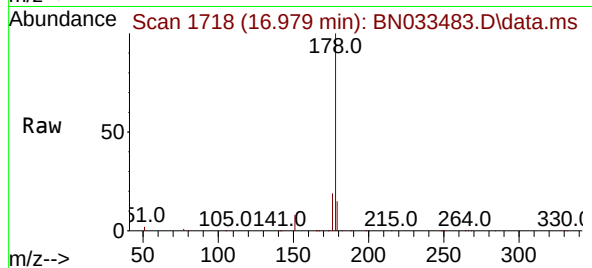




#25
Phenanthrene
Concen: 1.632 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

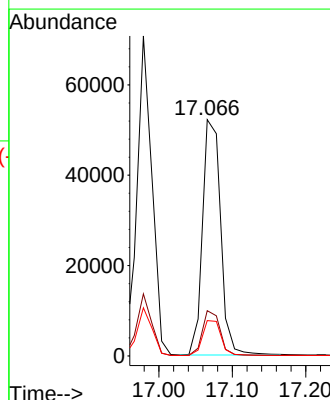
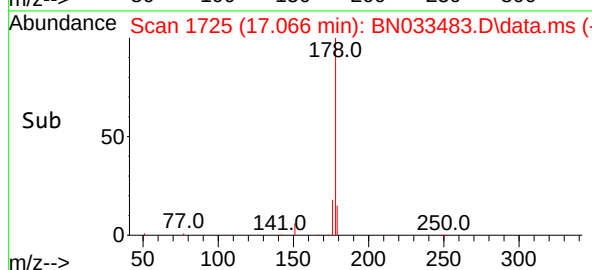
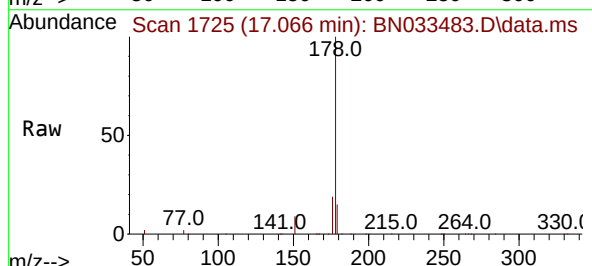
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

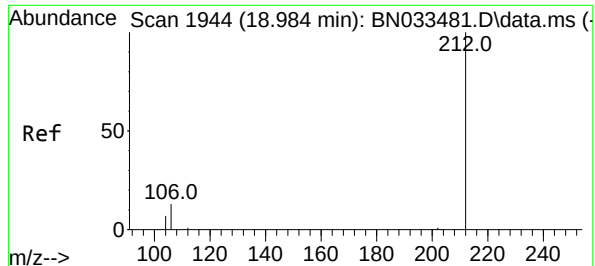
Tgt Ion:178 Resp: 100158
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.1 12.3 18.5



#26
Anthracene
Concen: 1.655 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:178 Resp: 89744
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 1.549 ng

RT: 18.980 min Scan# 1943

Delta R.T. -0.005 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

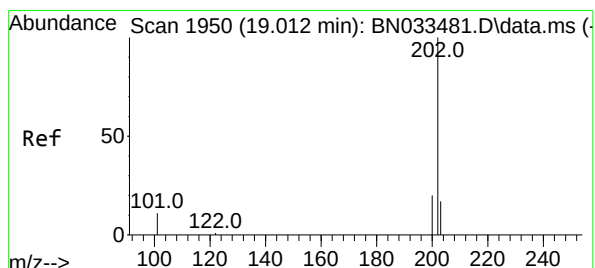
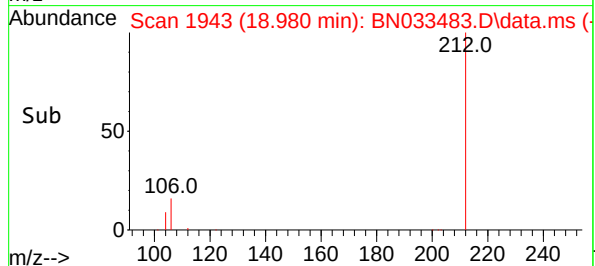
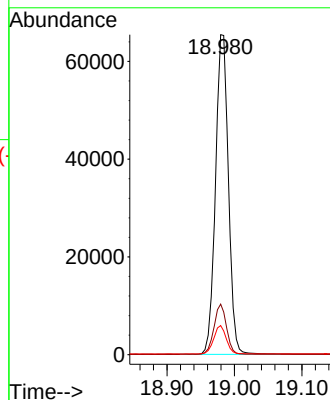
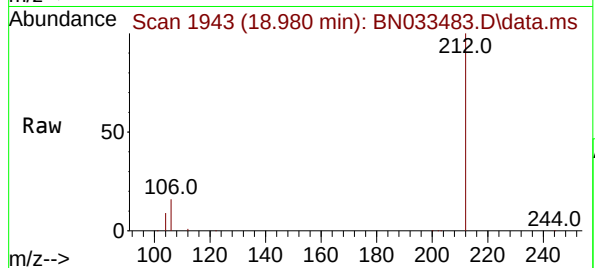
Tgt Ion:212 Resp: 87075

Ion Ratio Lower Upper

212 100

106 15.2 12.3 18.5

104 8.6 7.0 10.4



#28

Fluoranthene

Concen: 1.513 ng

RT: 19.012 min Scan# 1950

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

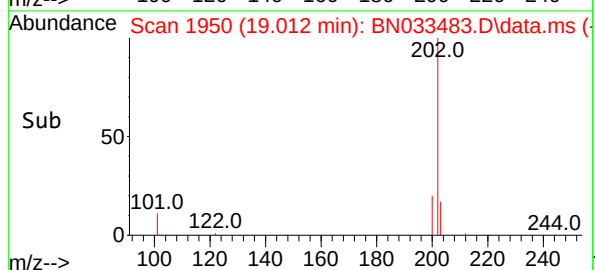
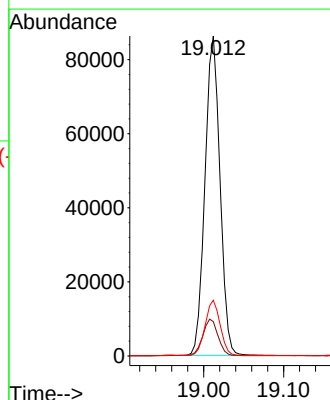
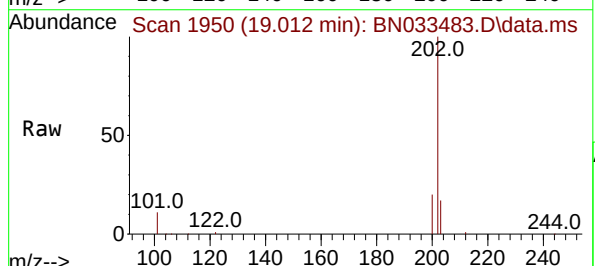
Tgt Ion:202 Resp: 112640

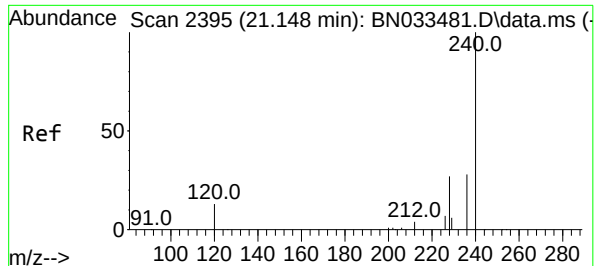
Ion Ratio Lower Upper

202 100

101 11.8 9.5 14.3

203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

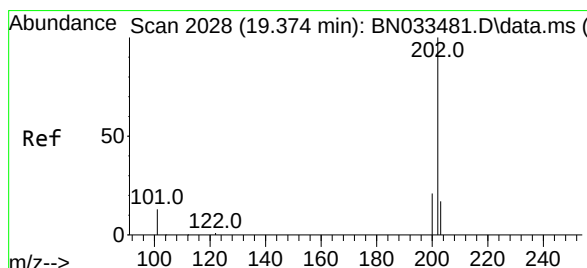
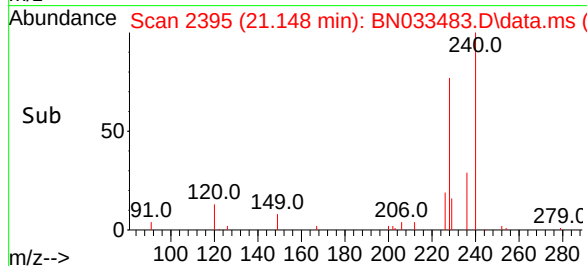
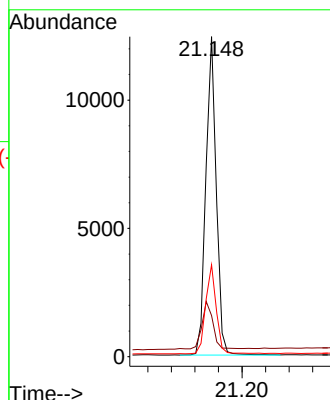
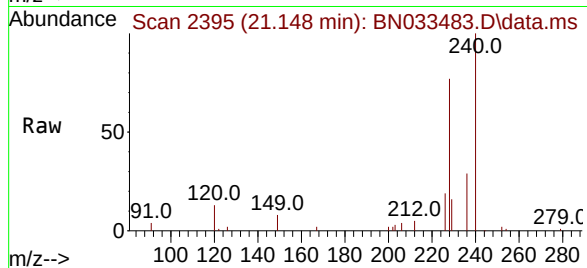
Tgt Ion:240 Resp: 15163

Ion Ratio Lower Upper

240 100

120 12.9 12.4 18.6

236 28.7 23.0 34.6



#30

Pyrene

Concen: 1.842 ng

RT: 19.374 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

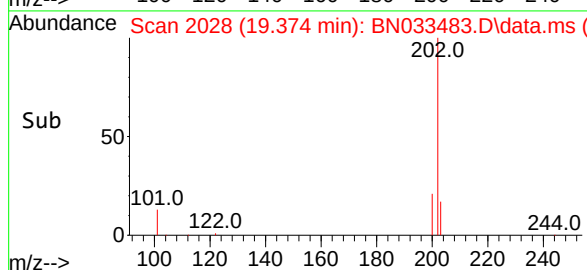
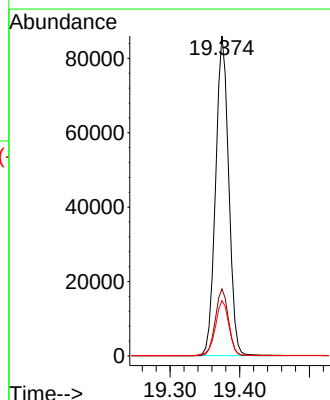
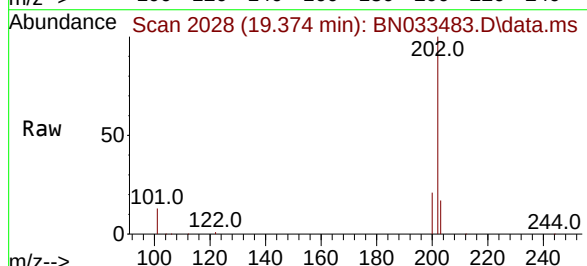
Tgt Ion:202 Resp: 112513

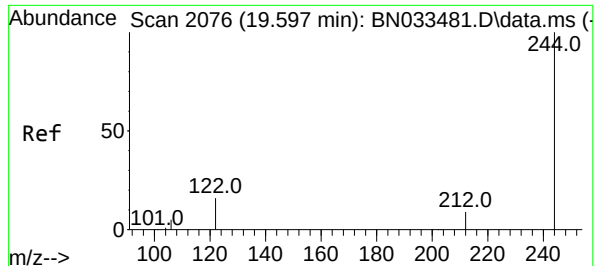
Ion Ratio Lower Upper

202 100

200 20.9 16.6 24.8

203 17.8 14.2 21.4

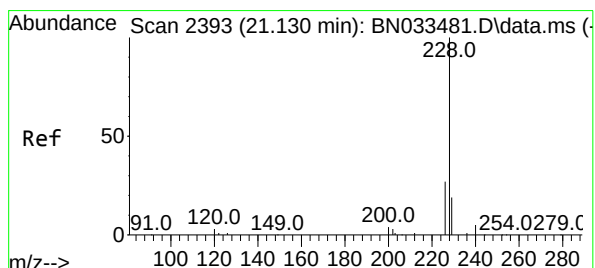
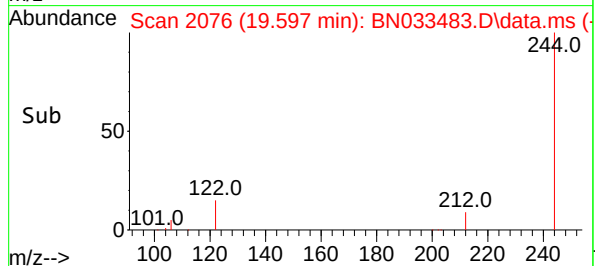
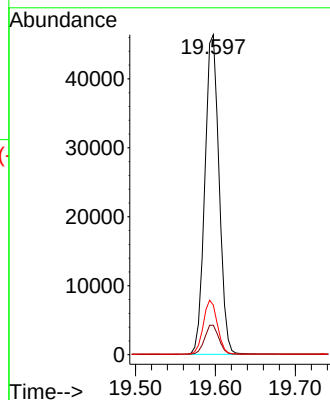
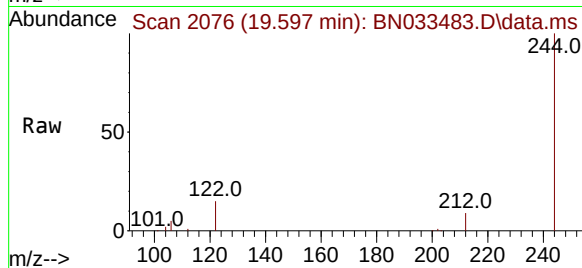




#31
Terphenyl-d14
Concen: 1.957 ng
RT: 19.597 min Scan# 2076
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

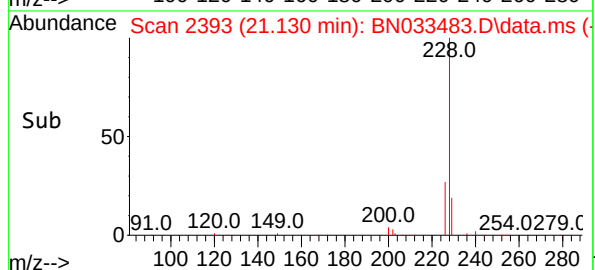
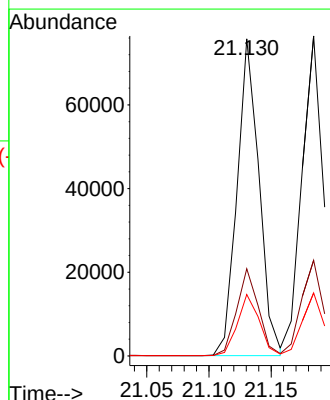
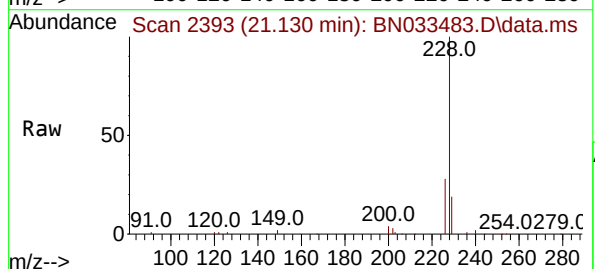
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

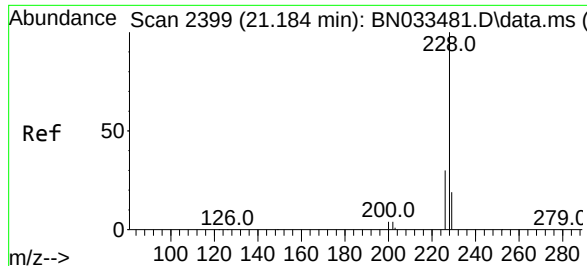
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.8	11.6
122	15.5	13.3	19.9



#32
Benzo(a)anthracene
Concen: 1.649 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.8	32.6
229	19.4	15.8	23.6





#33

Chrysene

Concen: 1.637 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

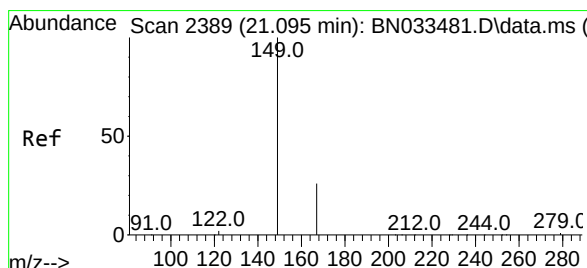
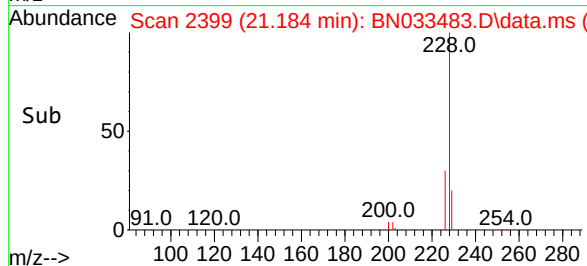
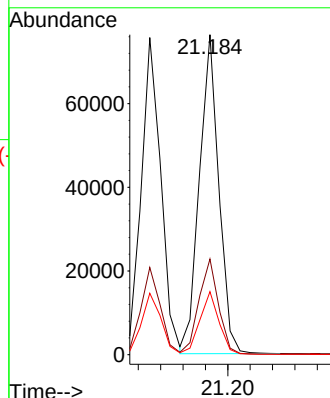
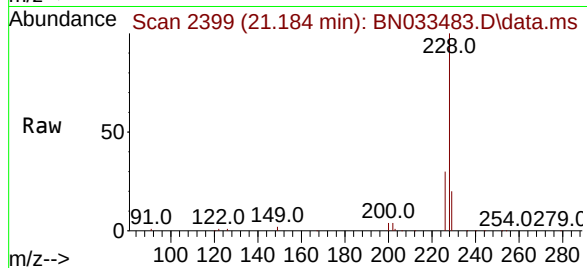
Tgt Ion:228 Resp: 91851

Ion Ratio Lower Upper

228 100

226 29.9 23.8 35.8

229 19.7 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.959 ng

RT: 21.095 min Scan# 2389

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

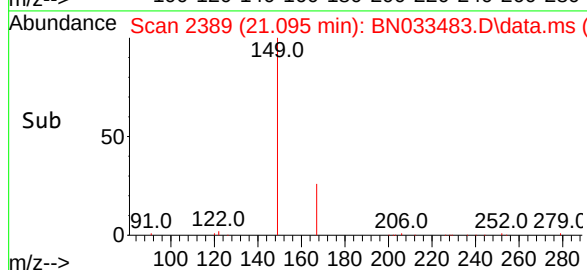
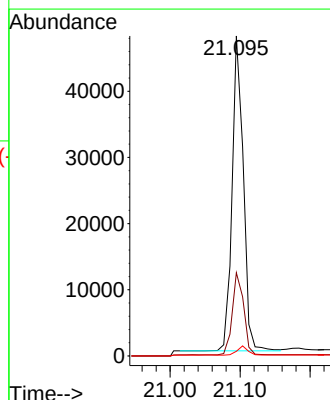
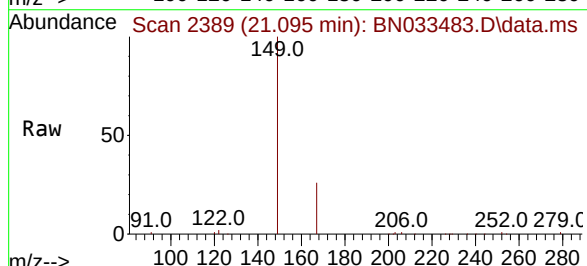
Tgt Ion:149 Resp: 52726

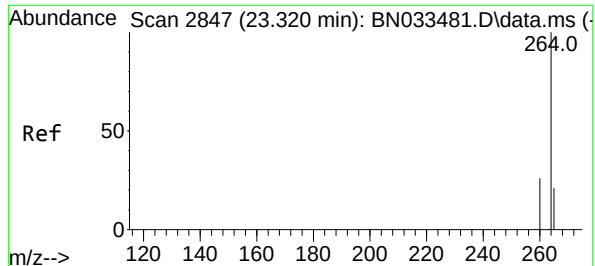
Ion Ratio Lower Upper

149 100

167 26.4 21.5 32.3

279 2.7 2.2 3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.320 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

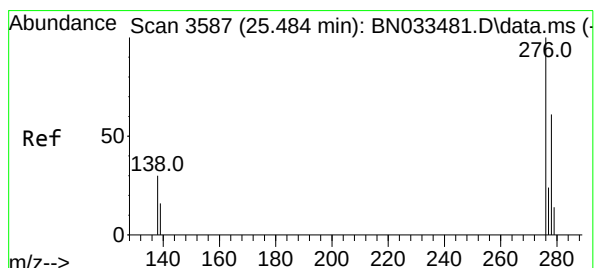
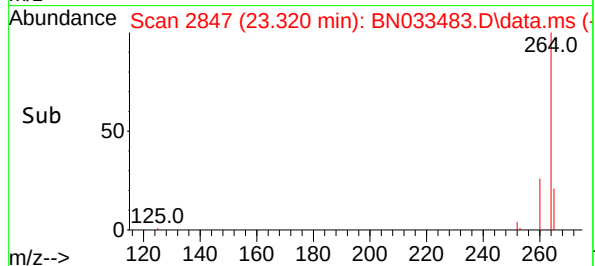
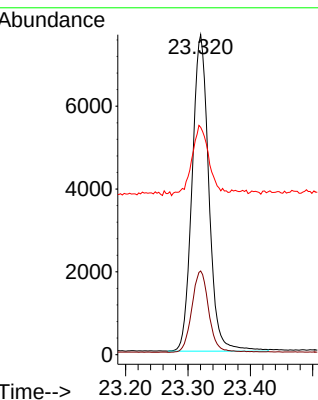
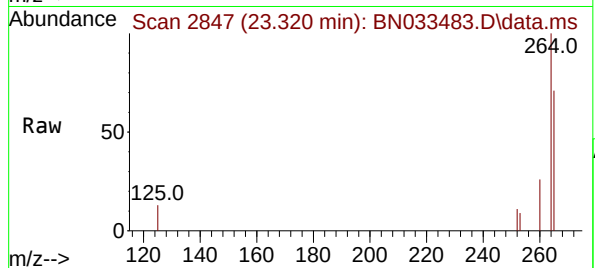
Tgt Ion:264 Resp: 14214

Ion Ratio Lower Upper

264 100

260 26.2 20.8 31.2

265 71.0 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.697 ng

RT: 25.478 min Scan# 3585

Delta R.T. -0.006 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

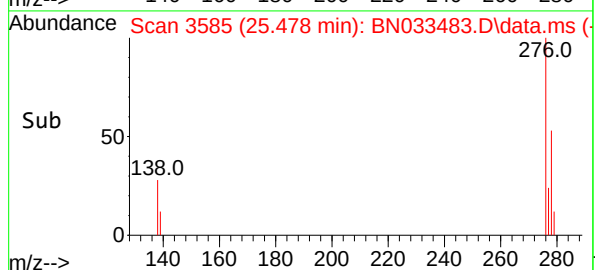
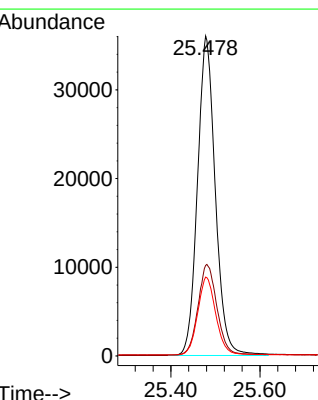
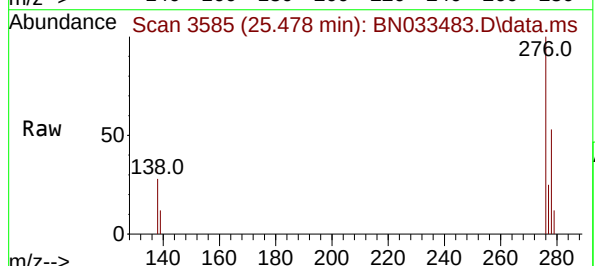
Tgt Ion:276 Resp: 99989

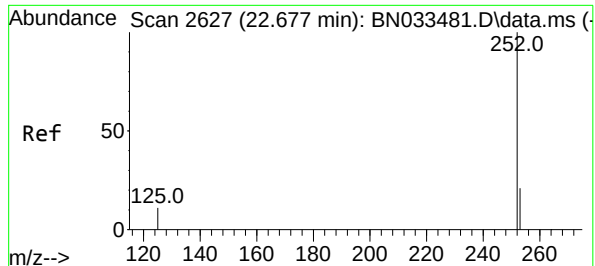
Ion Ratio Lower Upper

276 100

138 30.0 24.4 36.6

277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 1.685 ng

RT: 22.674 min Scan# 2626

Delta R.T. -0.003 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

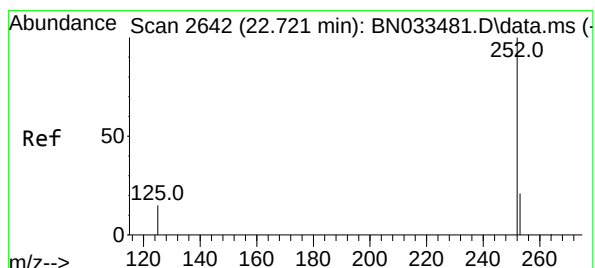
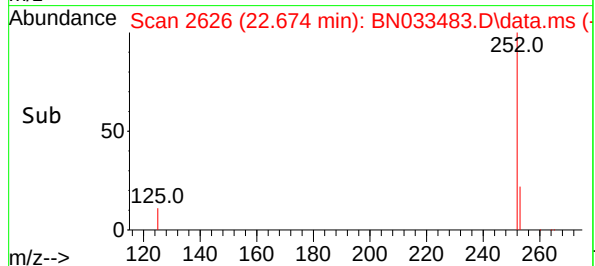
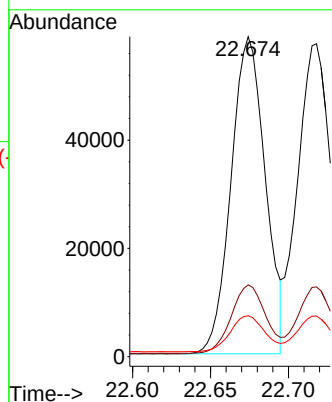
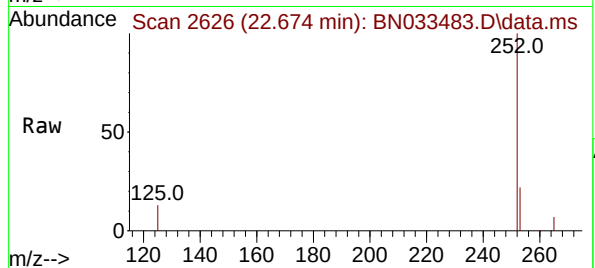
Tgt Ion:252 Resp: 89426

Ion Ratio Lower Upper

252 100

253 22.4 19.8 29.8

125 12.8 13.9 20.9#



#38

Benzo(k)fluoranthene

Concen: 1.666 ng

RT: 22.718 min Scan# 2641

Delta R.T. -0.003 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

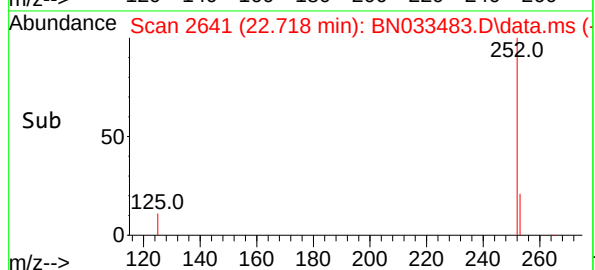
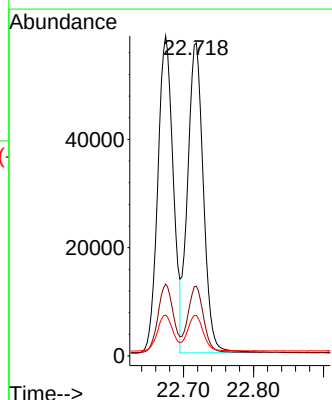
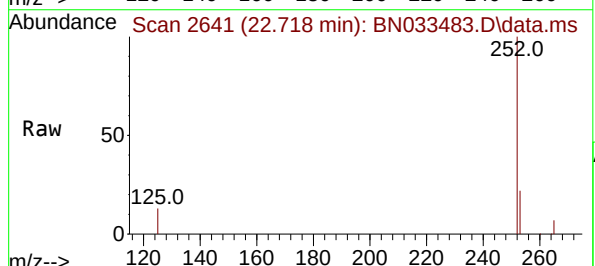
Tgt Ion:252 Resp: 89588

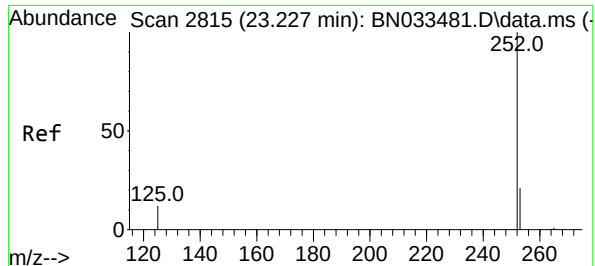
Ion Ratio Lower Upper

252 100

253 22.3 19.8 29.8

125 13.0 15.8 23.8#





#39

Benzo(a)pyrene

Concen: 1.673 ng

RT: 23.224 min Scan# 2814

Delta R.T. -0.003 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

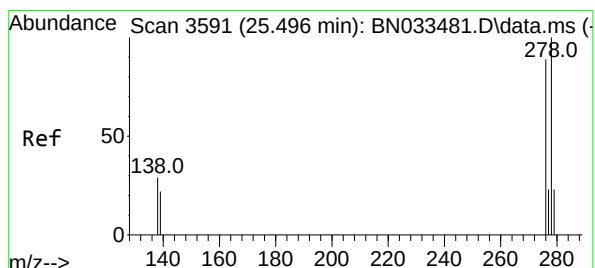
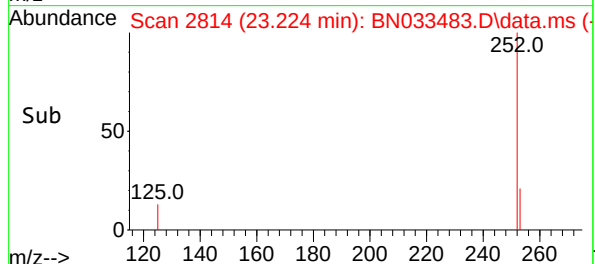
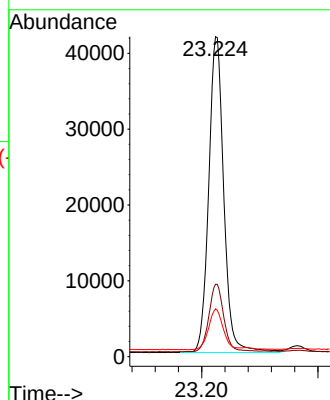
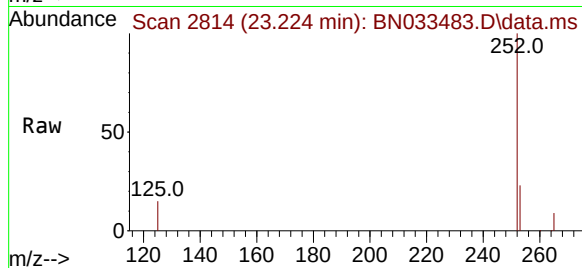
Tgt Ion:252 Resp: 74888

Ion Ratio Lower Upper

252 100

253 22.7 21.5 32.3

125 14.9 17.0 25.4#



#40

Dibenzo(a,h)anthracene

Concen: 1.720 ng

RT: 25.496 min Scan# 3591

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

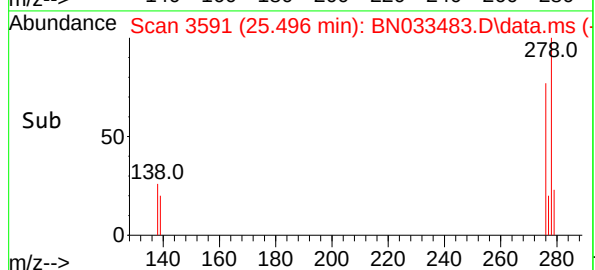
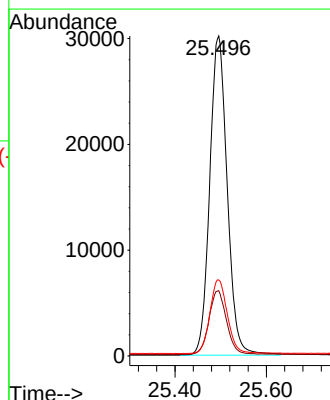
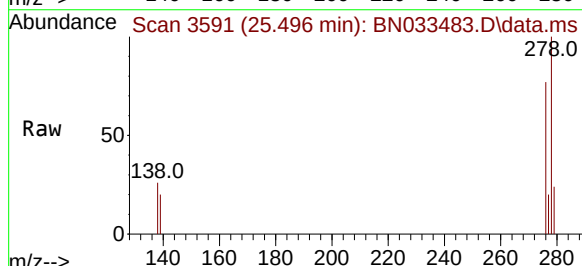
Tgt Ion:278 Resp: 80194

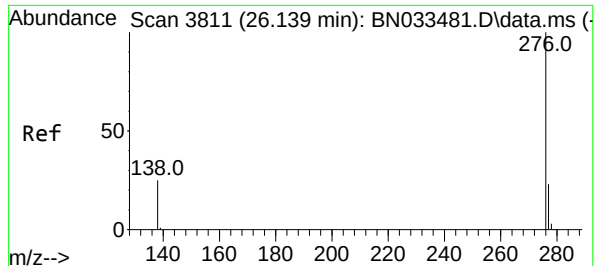
Ion Ratio Lower Upper

278 100

139 20.4 19.1 28.7

279 23.8 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 1.670 ng

RT: 26.130 min Scan# 3811

Delta R.T. -0.009 min

Lab File: BN033483.D

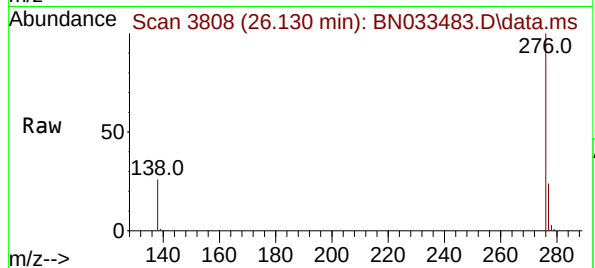
Acq: 19 Aug 2024 18:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



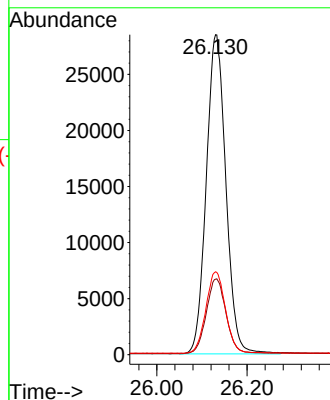
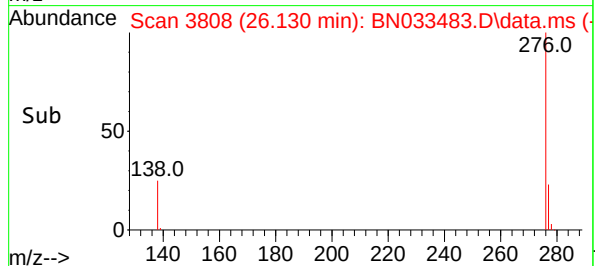
Tgt Ion:276 Resp: 85629

Ion Ratio Lower Upper

276 100

277 23.6 19.7 29.5

138 25.9 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033484.D
 Acq On : 19 Aug 2024 19:17
 Operator : MA/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Aug 19 23:23:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:20:26 2024
 Response via : Initial Calibration

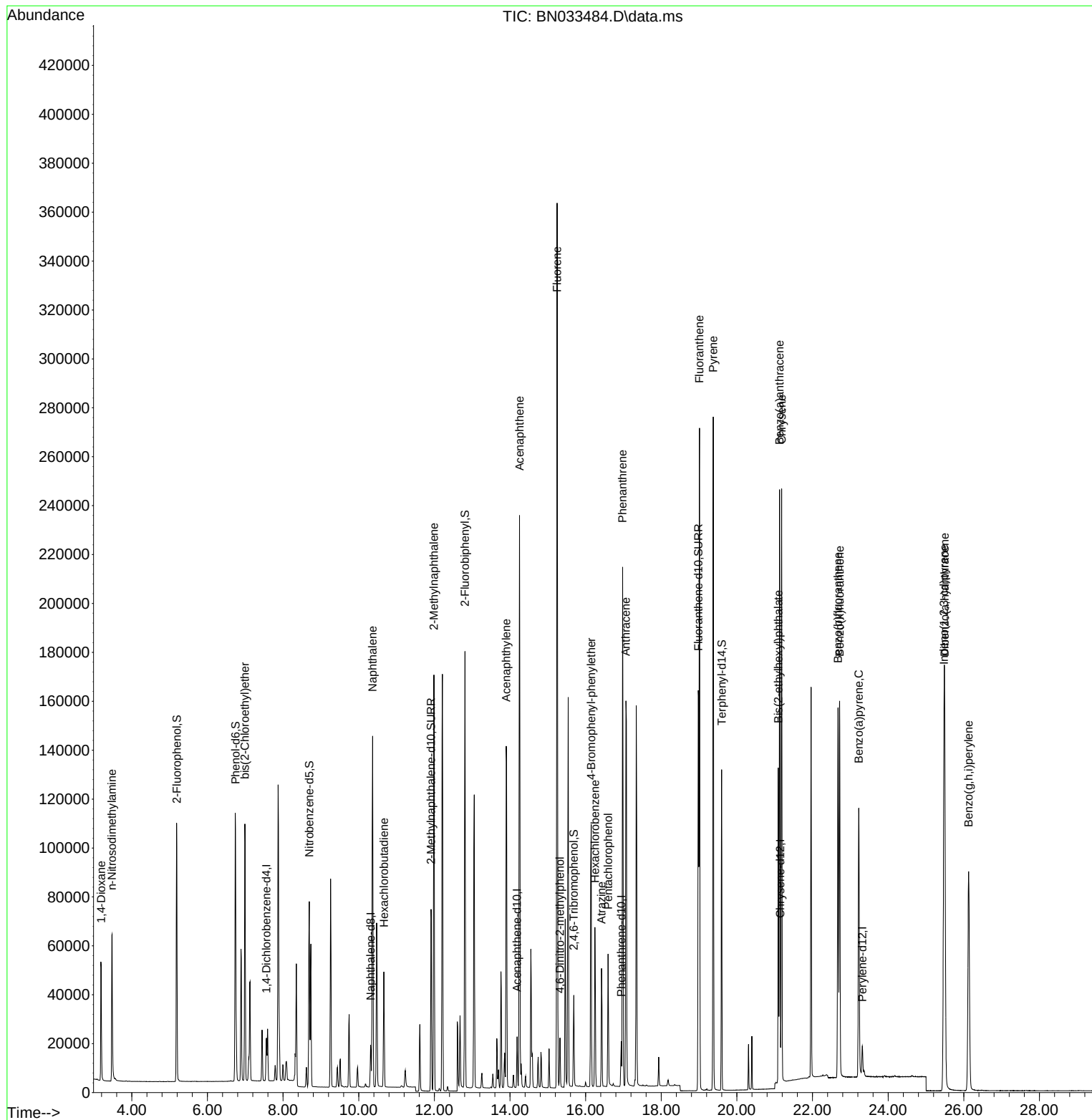
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	8220	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	21477	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	11204	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	22761	0.400	ng	0.00
29) Chrysene-d12	21.148	240	16458	0.400	ng	0.00
35) Perylene-d12	23.317	264	15102	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	78672	3.403	ng	0.00
5) Phenol-d6	6.743	99	96240	3.185	ng	0.00
8) Nitrobenzene-d5	8.691	82	55376	3.404	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	97319	3.015	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	19950	3.487	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	144228	3.180	ng	0.00
27) Fluoranthene-d10	18.984	212	176172	2.953	ng	0.00
31) Terphenyl-d14	19.597	244	117216	3.696	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.190	88	29725	3.360	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.472	42	34268	2.990	ng	97
6) bis(2-Chloroethyl)ether	6.989	93	70198	2.980	ng	100
9) Naphthalene	10.368	128	179011	3.071	ng	99
10) Hexachlorobutadiene	10.667	225	35517	3.178	ng	# 100
12) 2-Methylnaphthalene	11.990	142	116457	2.986	ng	99
16) Acenaphthylene	13.900	152	164622	3.197	ng	100
17) Acenaphthene	14.253	154	111942	3.160	ng	98
18) Fluorene	15.247	166	140489	3.030	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	13180	4.642	ng	# 67
21) 4-Bromophenyl-phenylether	16.147	248	44804	3.300	ng	99
22) Hexachlorobenzene	16.247	284	48402	3.192	ng	99
23) Atrazine	16.420	200	36125	3.342	ng	98
24) Pentachlorophenol	16.594	266	23233	3.743	ng	98
25) Phenanthrene	16.979	178	202724	3.113	ng	100
26) Anthracene	17.066	178	188458	3.276	ng	99
28) Fluoranthene	19.012	202	230499	2.917	ng	100
30) Pyrene	19.374	202	230574	3.478	ng	100
32) Benzo(a)anthracene	21.130	228	187742	3.074	ng	100
33) Chrysene	21.184	228	184734	3.033	ng	100
34) Bis(2-ethylhexyl)phtha...	21.095	149	111315	3.811	ng	100
36) Indeno(1,2,3-cd)pyrene	25.478	276	200706	3.206	ng	99
37) Benzo(b)fluoranthene	22.674	252	178769	3.171	ng	# 92
38) Benzo(k)fluoranthene	22.718	252	180219	3.154	ng	# 90
39) Benzo(a)pyrene	23.224	252	151103	3.178	ng	# 88
40) Dibenzo(a,h)anthracene	25.496	278	160621	3.242	ng	94
41) Benzo(g,h,i)perylene	26.127	276	170664	3.133	ng	98

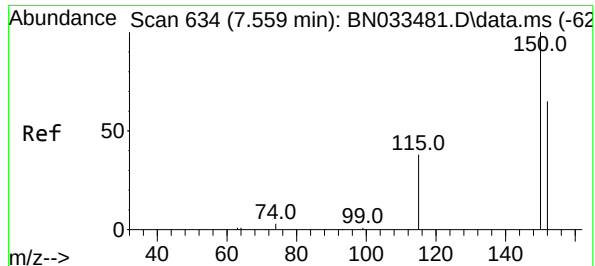
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033484.D
Acq On : 19 Aug 2024 19:17
Operator : MA/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Aug 19 23:23:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

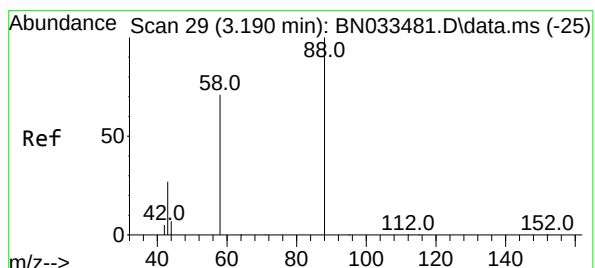
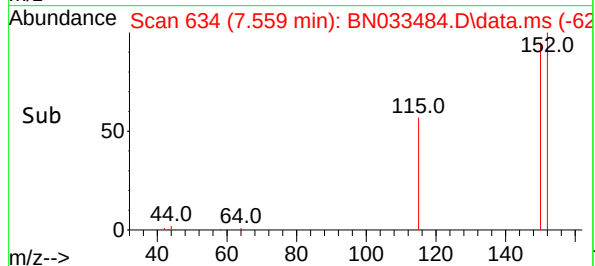
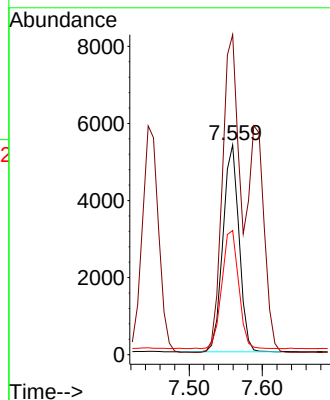
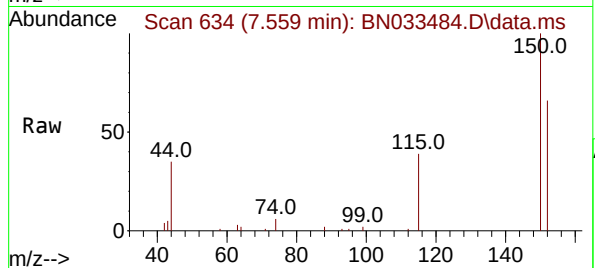




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

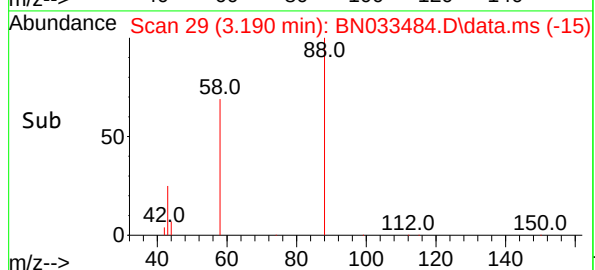
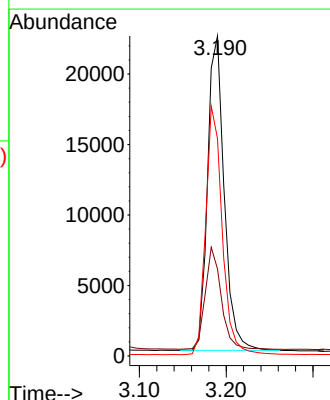
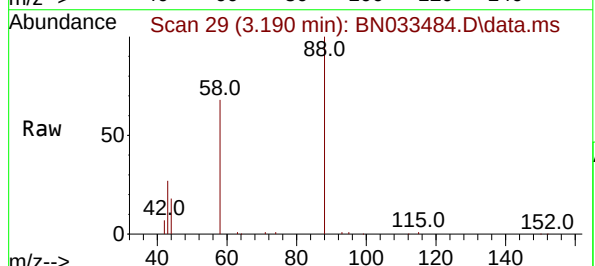
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

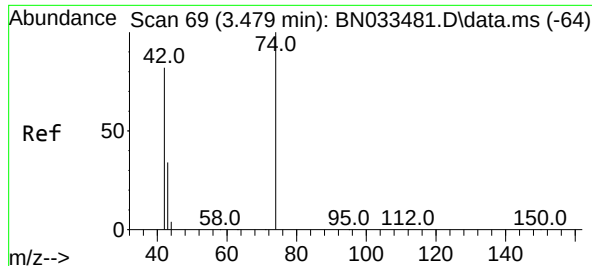
Tgt Ion:152 Resp: 8220
Ion Ratio Lower Upper
152 100
150 152.6 122.2 183.2
115 59.2 47.2 70.8



#2
1,4-Dioxane
Concen: 3.360 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion: 88 Resp: 29725
Ion Ratio Lower Upper
88 100
43 31.2 25.0 37.4
58 78.5 62.5 93.7

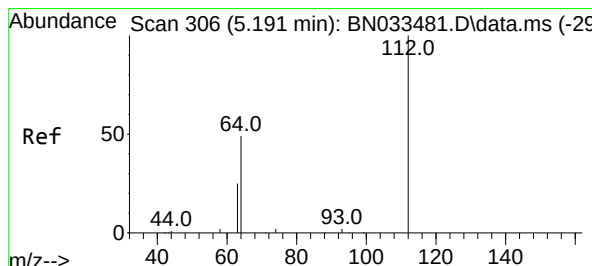
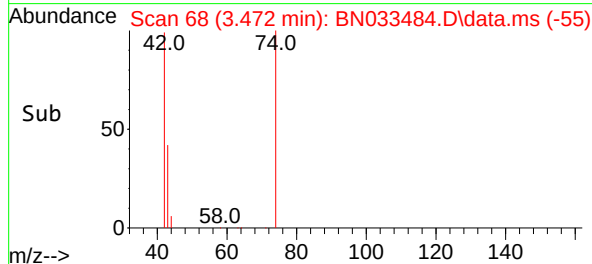
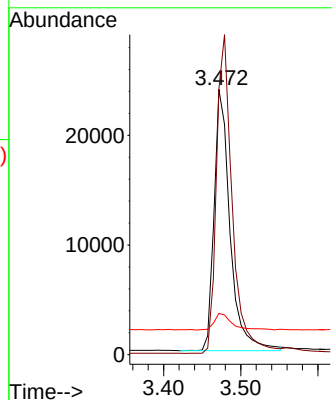
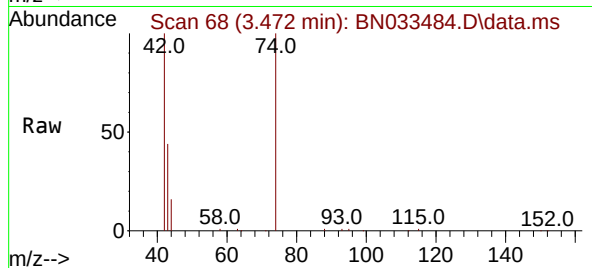




#3
n-Nitrosodimethylamine
Concen: 2.990 ng
RT: 3.472 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

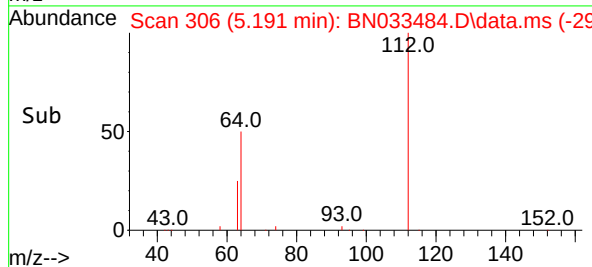
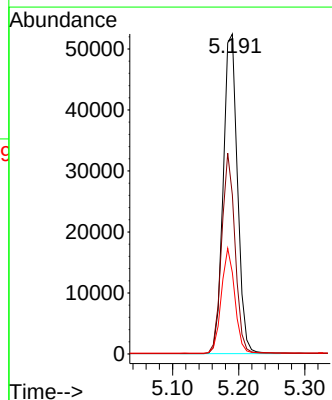
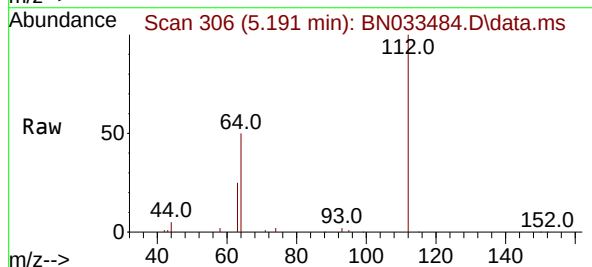
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

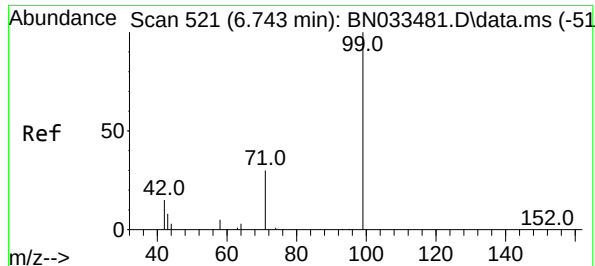
Tgt Ion: 42 Resp: 34268
Ion Ratio Lower Upper
42 100
74 121.2 100.2 150.2
44 7.0 5.3 7.9



#4
2-Fluorophenol
Concen: 3.403 ng
RT: 5.191 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion: 112 Resp: 78672
Ion Ratio Lower Upper
112 100
64 58.9 47.1 70.7
63 30.8 24.9 37.3

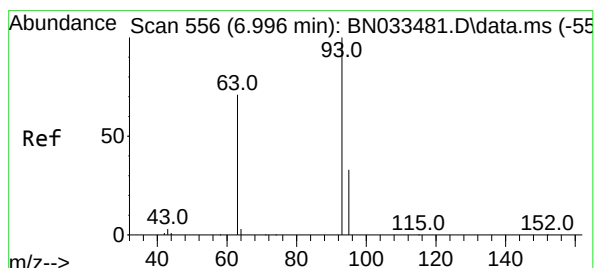
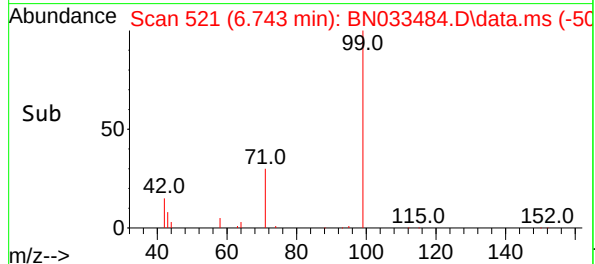
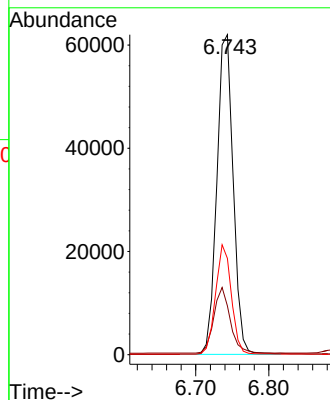
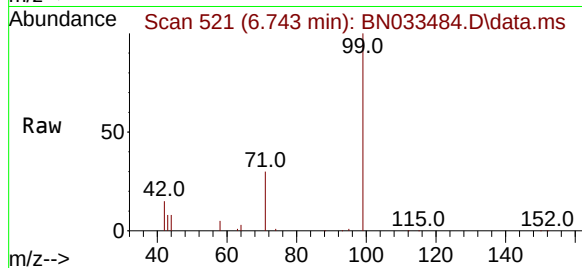




#5
Phenol-d6
Concen: 3.185 ng
RT: 6.743 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

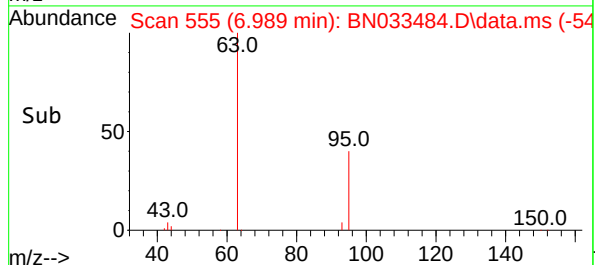
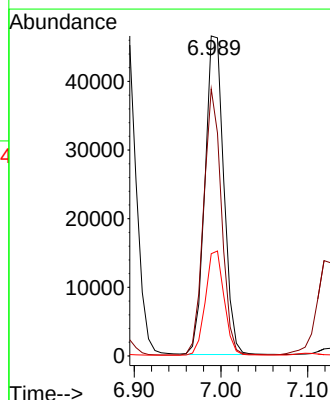
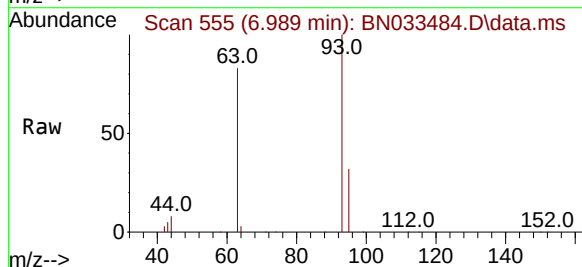
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

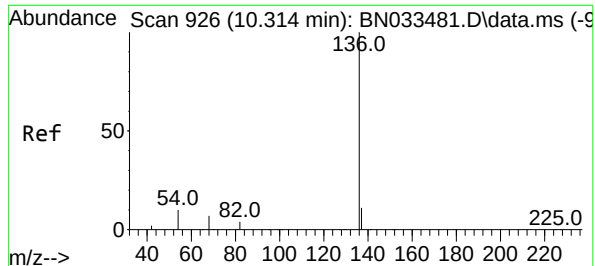
Tgt Ion: 99 Resp: 96240
Ion Ratio Lower Upper
99 100
42 20.5 16.6 24.8
71 33.1 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 2.980 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion: 93 Resp: 70198
Ion Ratio Lower Upper
93 100
63 78.9 63.0 94.4
95 32.5 26.0 39.0

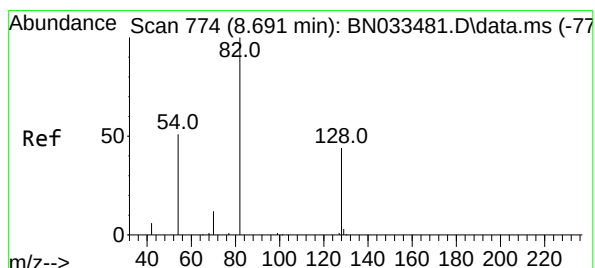
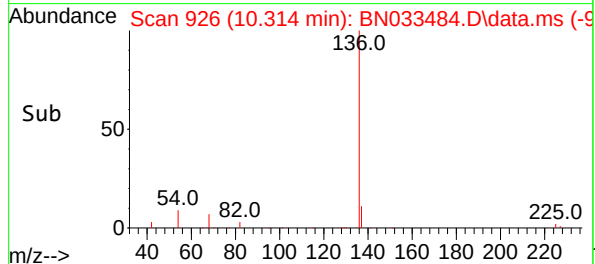
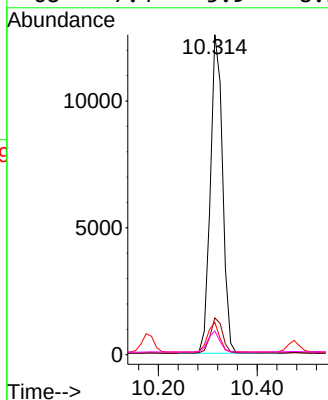
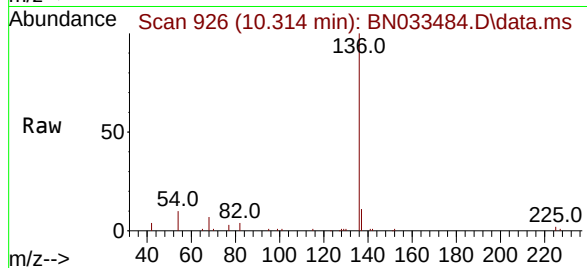




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

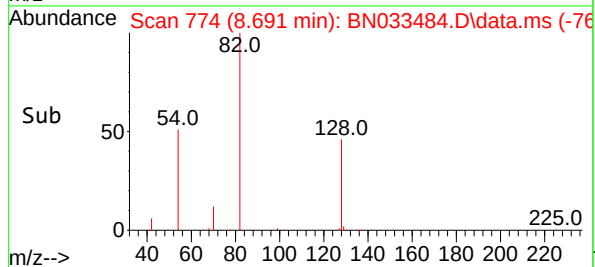
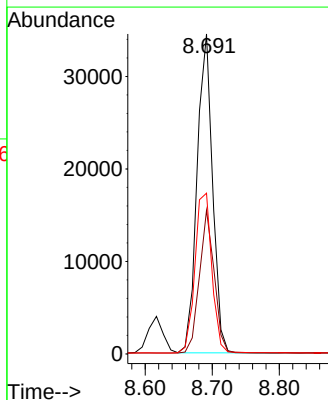
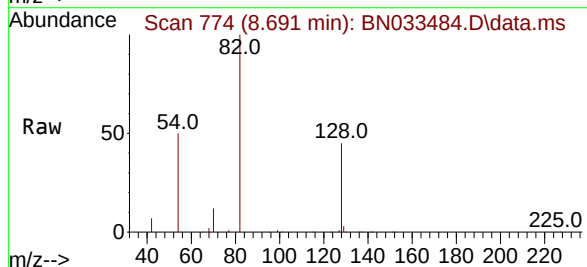
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

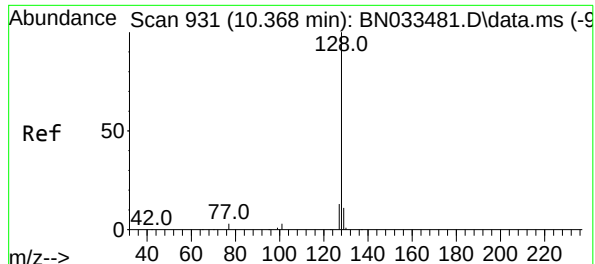
Tgt Ion:	136	Resp:	21477
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.0	13.6
54	10.1	8.3	12.5
68	7.4	5.9	8.9



#8
Nitrobenzene-d5
Concen: 3.404 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:	82	Resp:	55376
Ion	Ratio	Lower	Upper
82	100		
128	44.9	36.0	54.0
54	50.3	42.0	63.0

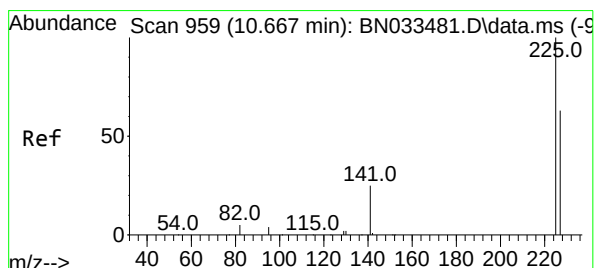
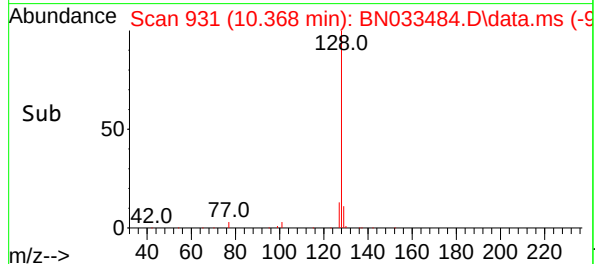
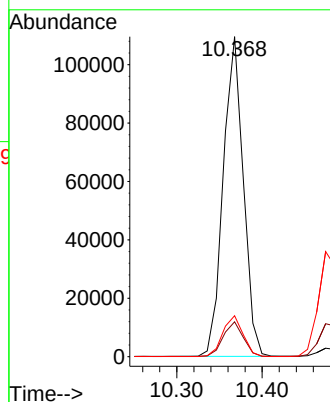
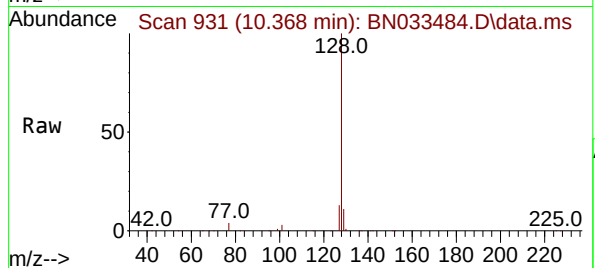




#9
Naphthalene
Concen: 3.071 ng
RT: 10.368 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

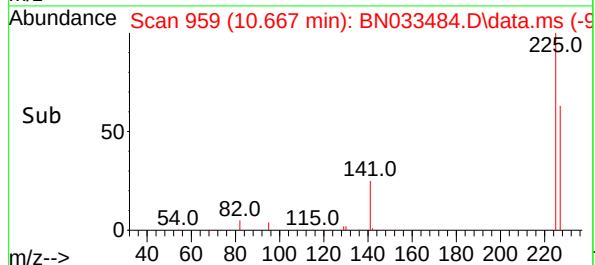
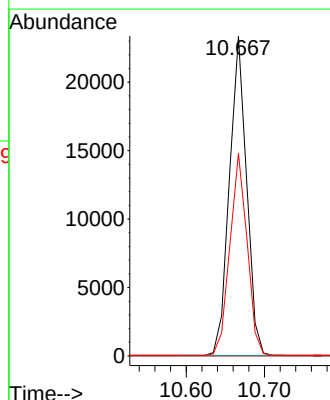
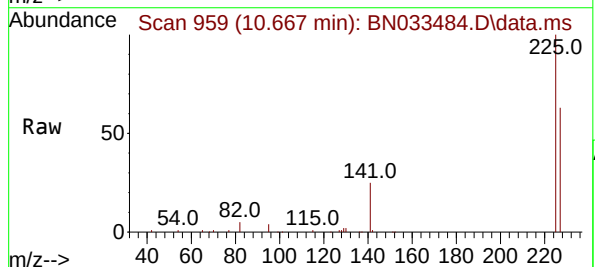
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

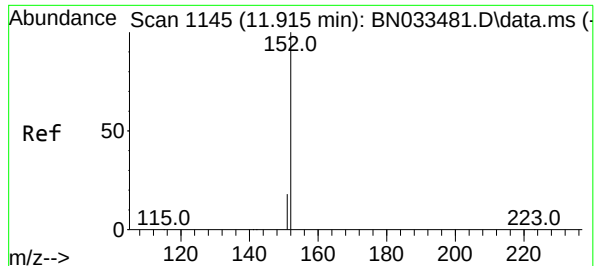
Tgt Ion:128 Resp: 179011
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 12.8 10.7 16.1



#10
Hexachlorobutadiene
Concen: 3.178 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:225 Resp: 35517
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.2 76.8

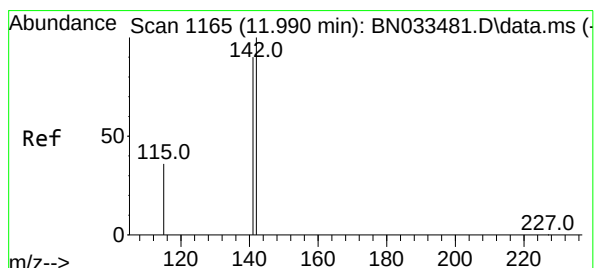
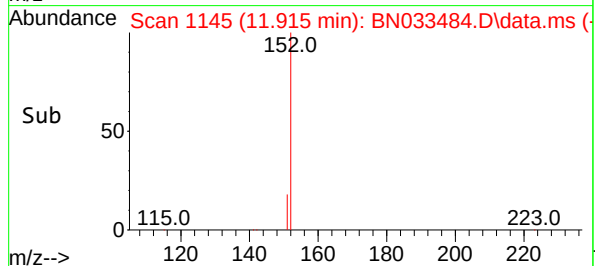
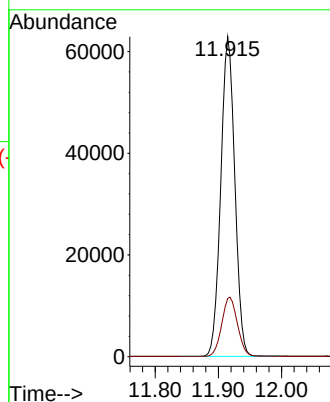
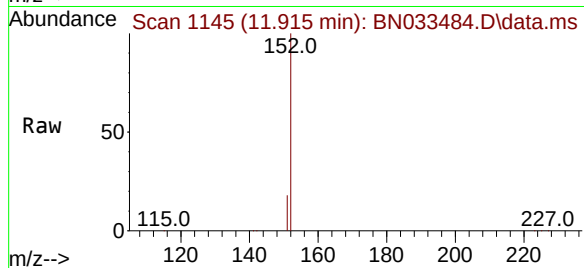




#11
2-Methylnaphthalene-d10
Concen: 3.015 ng
RT: 11.915 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

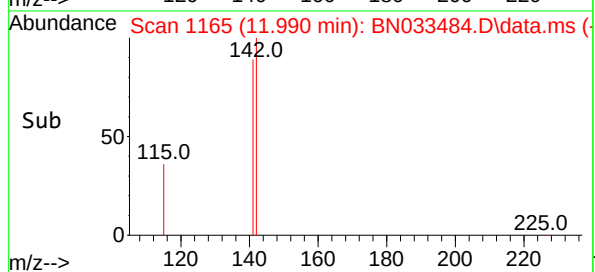
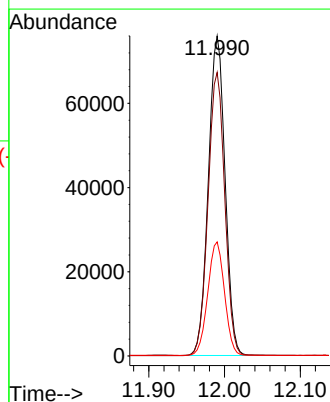
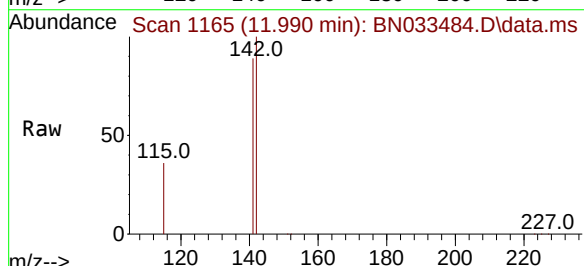
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

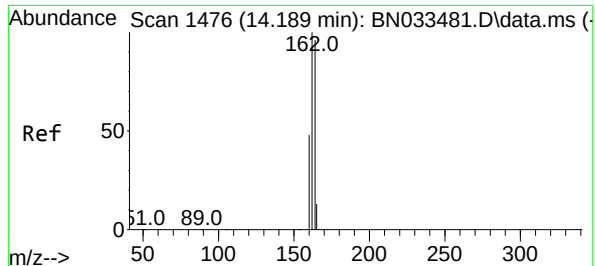
Tgt Ion:152 Resp: 97319
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 2.986 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:142 Resp: 116457
Ion Ratio Lower Upper
142 100
141 88.6 71.7 107.5
115 35.7 29.4 44.2

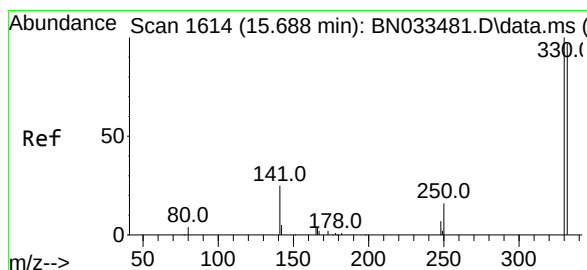
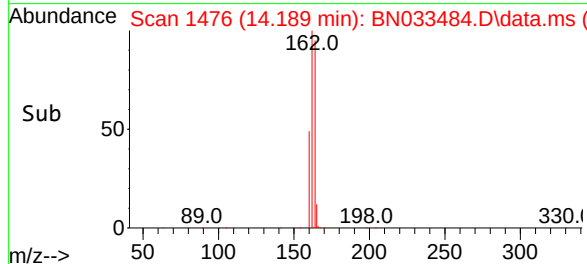
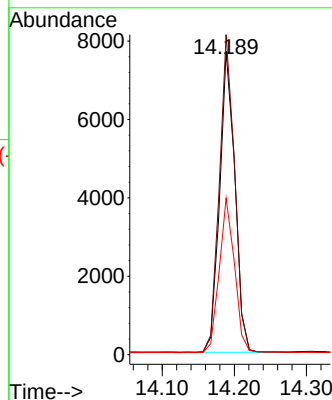
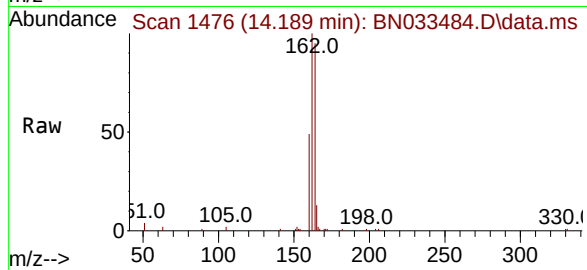




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

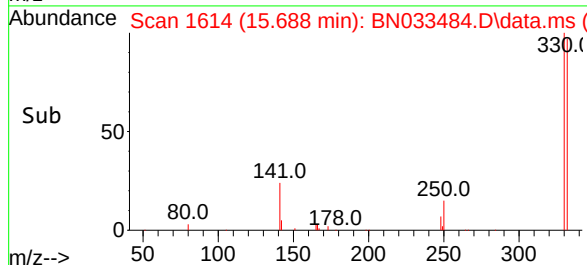
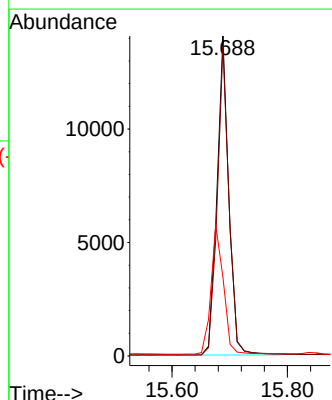
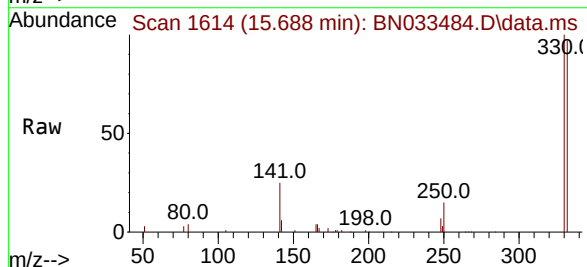
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

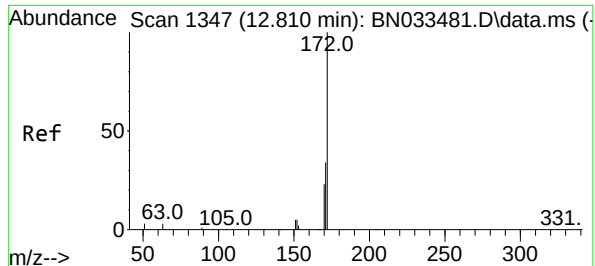
Tgt Ion:164 Resp: 11204
Ion Ratio Lower Upper
164 100
162 105.4 83.5 125.3
160 51.6 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 3.487 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:330 Resp: 19950
Ion Ratio Lower Upper
330 100
332 96.0 77.5 116.3
141 42.5 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 3.180 ng

RT: 12.810 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

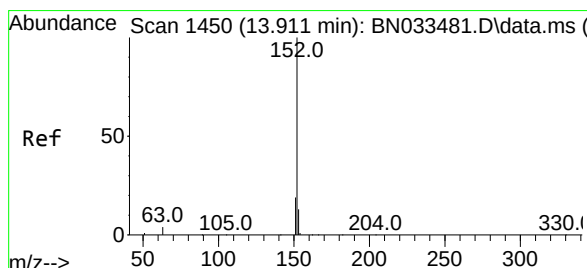
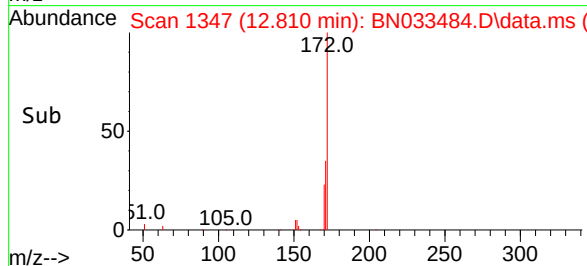
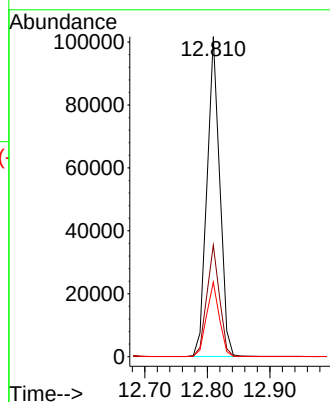
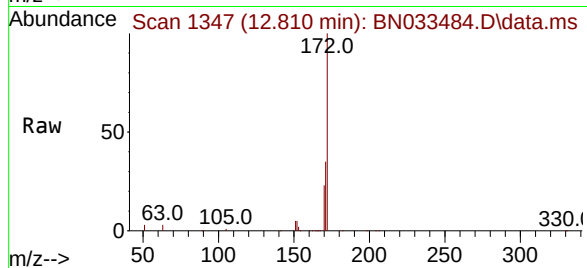
Tgt Ion:172 Resp: 144228

Ion Ratio Lower Upper

172 100

171 34.9 27.7 41.5

170 23.3 18.3 27.5



#16

Acenaphthylene

Concen: 3.197 ng

RT: 13.900 min Scan# 1449

Delta R.T. -0.011 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

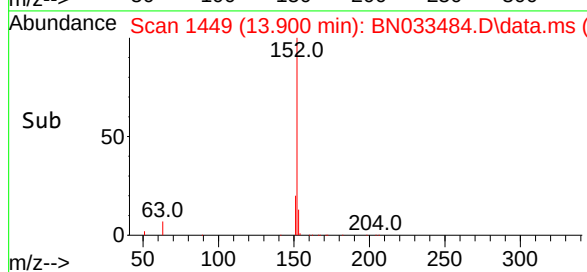
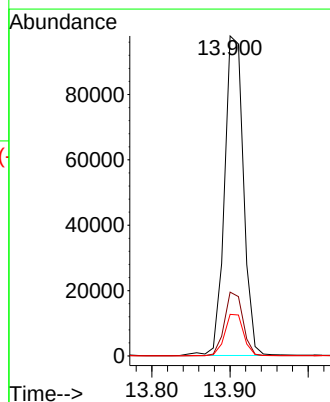
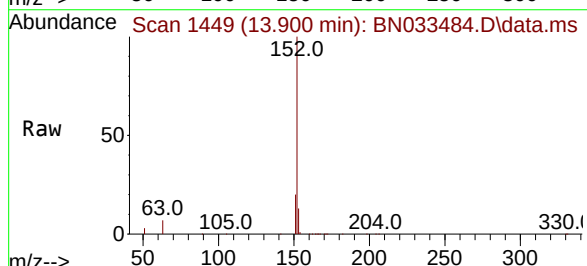
Tgt Ion:152 Resp: 164622

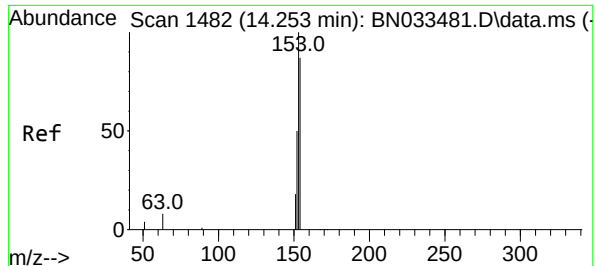
Ion Ratio Lower Upper

152 100

151 19.4 15.7 23.5

153 13.0 10.3 15.5





#17

Acenaphthene

Concen: 3.160 ng

RT: 14.253 min Scan# 1482

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

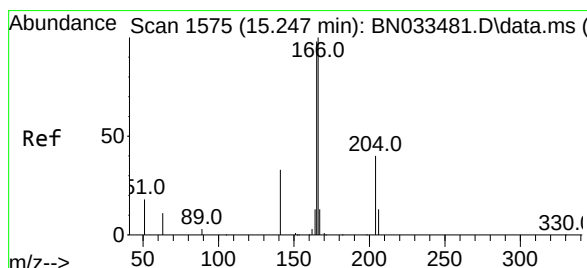
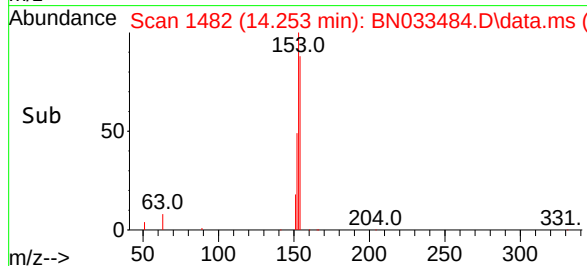
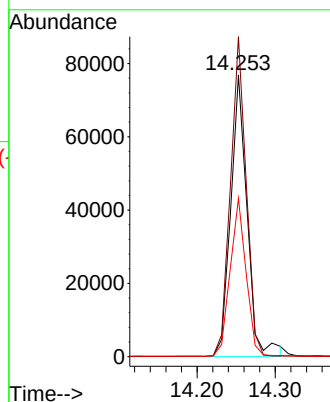
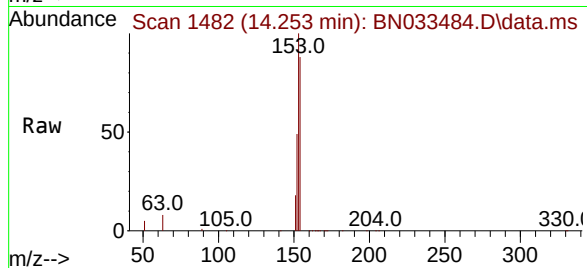
Tgt Ion:154 Resp: 111942

Ion Ratio Lower Upper

154 100

153 108.9 89.0 133.6

152 54.3 45.2 67.8



#18

Fluorene

Concen: 3.030 ng

RT: 15.247 min Scan# 1575

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

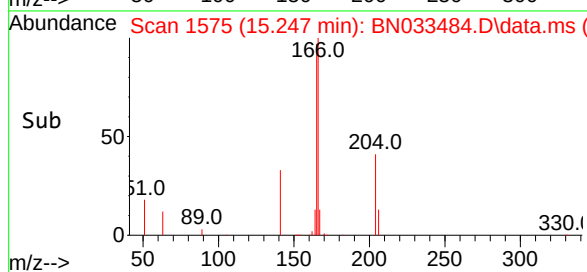
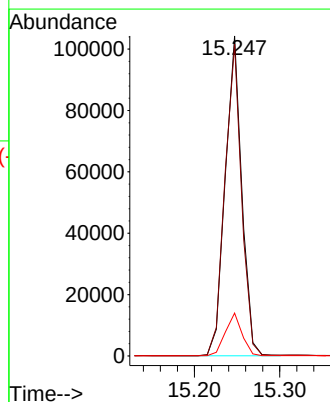
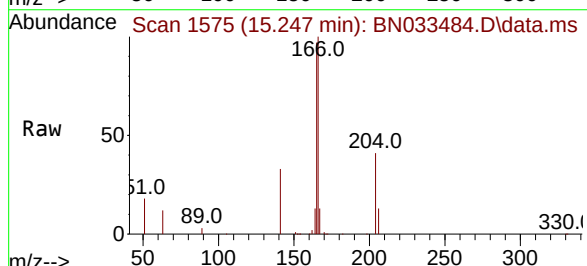
Tgt Ion:166 Resp: 140489

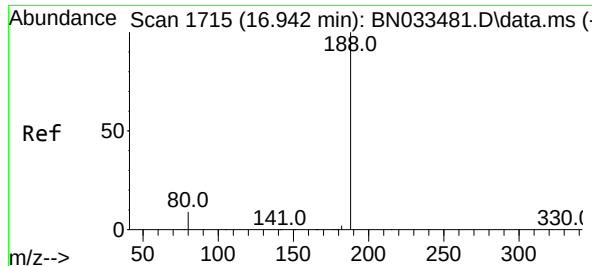
Ion Ratio Lower Upper

166 100

165 98.0 78.2 117.4

167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

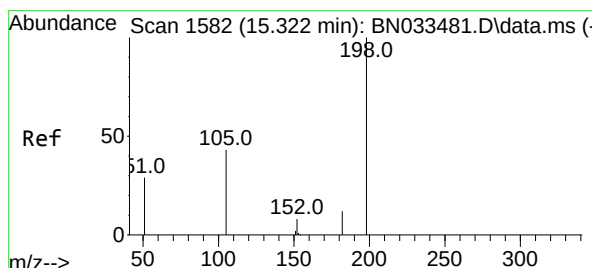
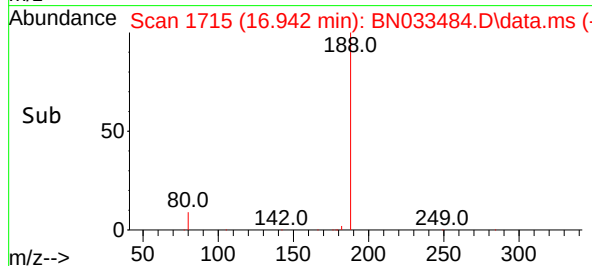
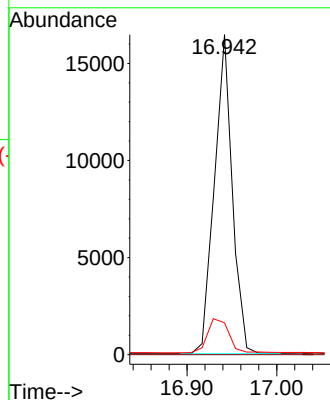
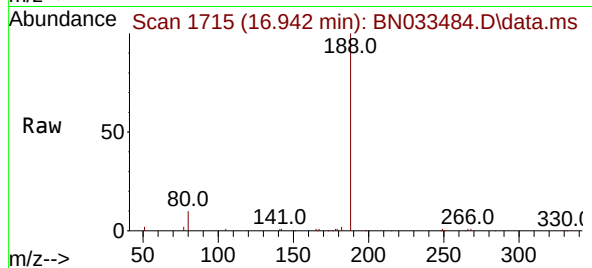
Tgt Ion:188 Resp: 22761

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.0 7.8 11.8



#20

4,6-Dinitro-2-methylphenol

Concen: 4.642 ng

RT: 15.322 min Scan# 1582

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

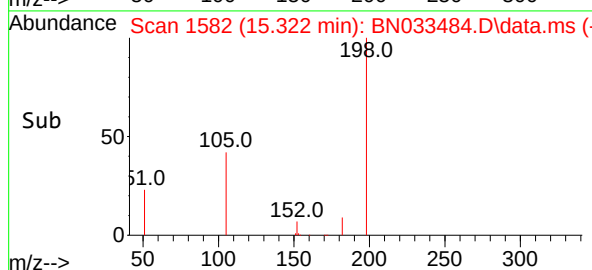
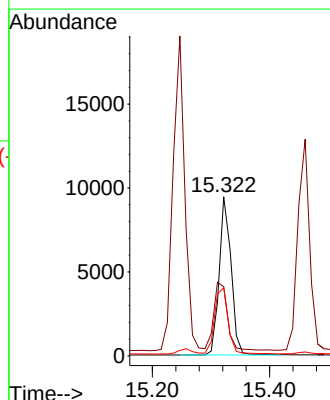
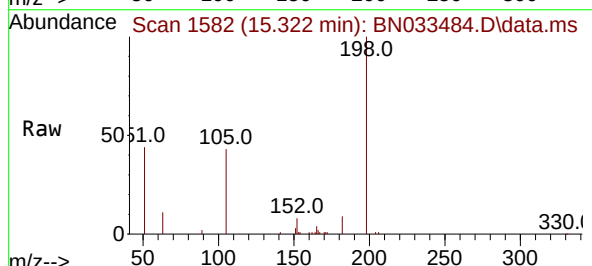
Tgt Ion:198 Resp: 13180

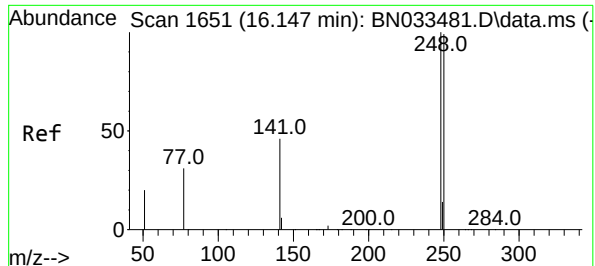
Ion Ratio Lower Upper

198 100

51 43.5 65.1 97.7#

105 42.8 44.8 67.2#

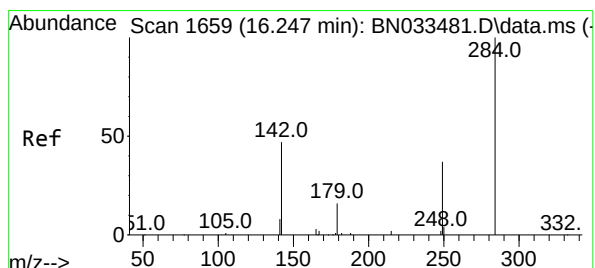
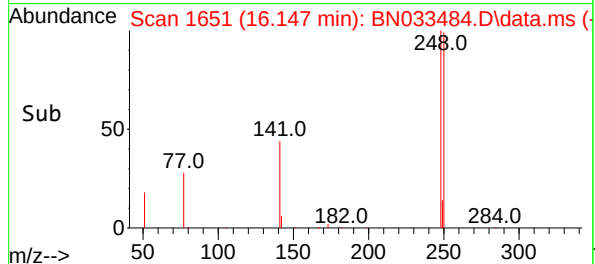
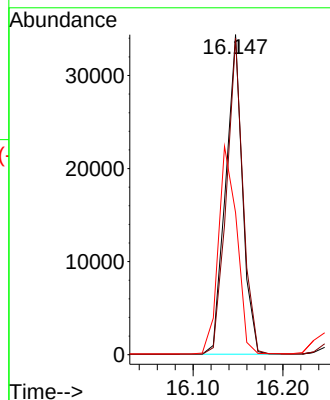
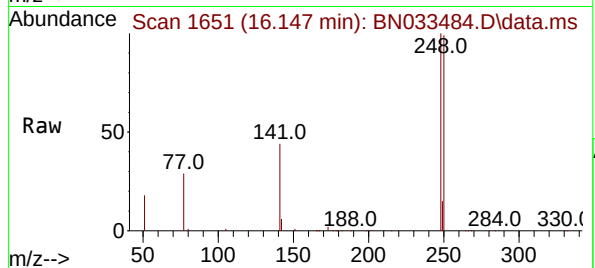




#21
4-Bromophenyl-phenylether
Concen: 3.300 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

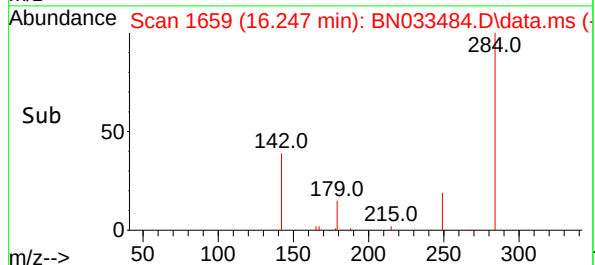
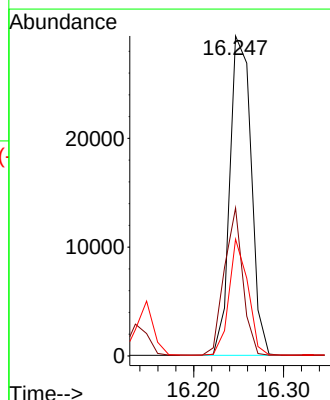
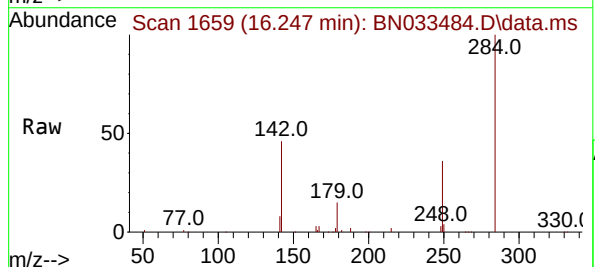
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

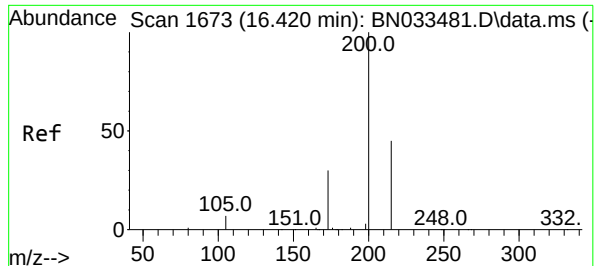
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.0	79.2	118.8
141	44.4	37.9	56.9



#22
Hexachlorobenzene
Concen: 3.192 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.0	31.8	47.6
249	32.1	26.0	39.0

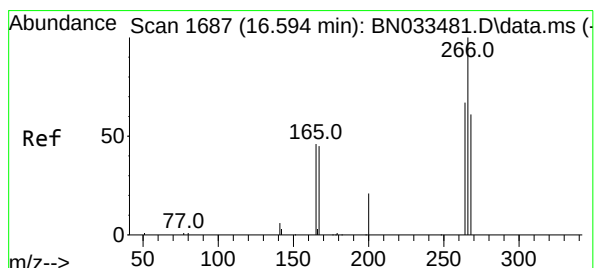
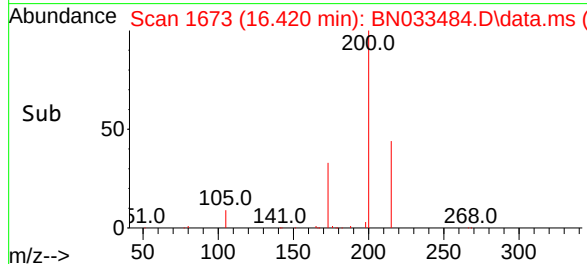
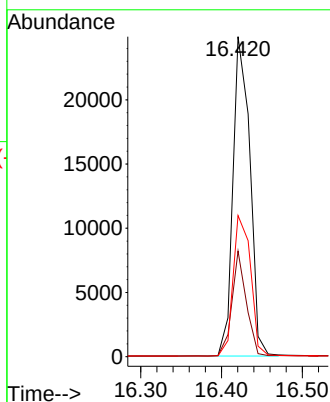
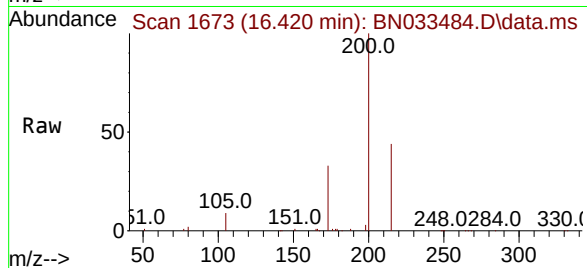




#23
Atrazine
Concen: 3.342 ng
RT: 16.420 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

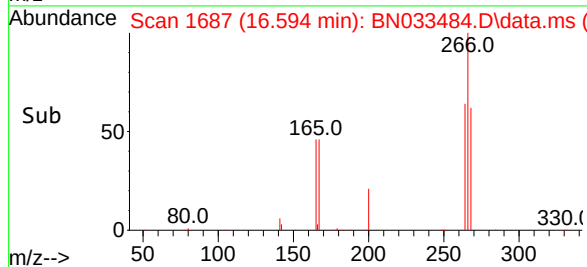
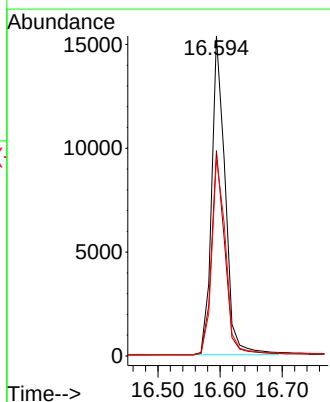
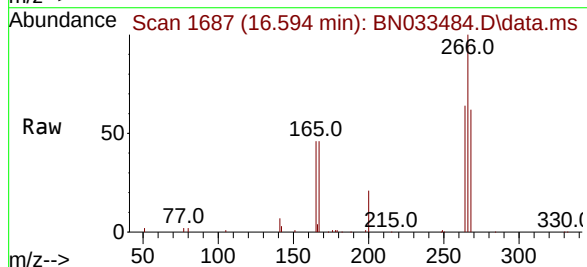
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

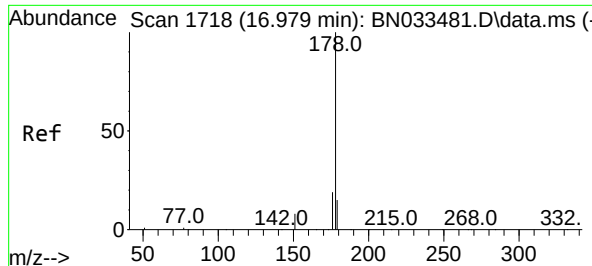
Tgt Ion:200 Resp: 36125
Ion Ratio Lower Upper
200 100
173 33.0 25.3 37.9
215 44.1 36.6 54.8



#24
Pentachlorophenol
Concen: 3.743 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:266 Resp: 23233
Ion Ratio Lower Upper
266 100
264 63.0 51.9 77.9
268 63.2 51.0 76.4

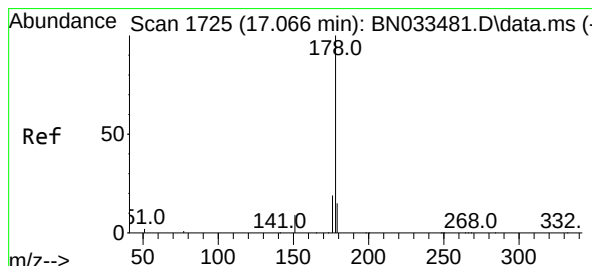
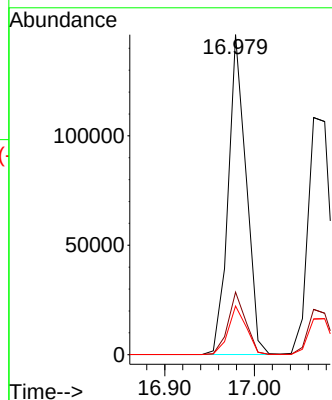
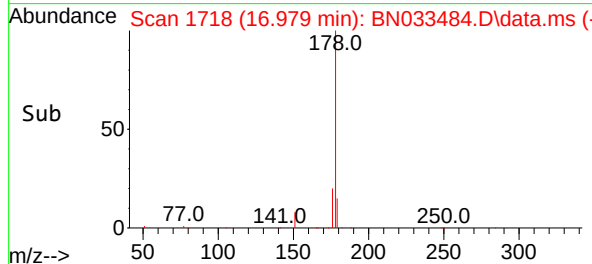
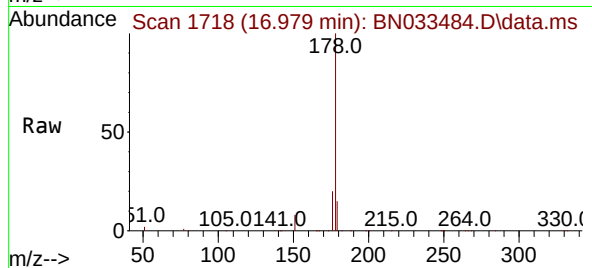




#25
Phenanthrene
Concen: 3.113 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

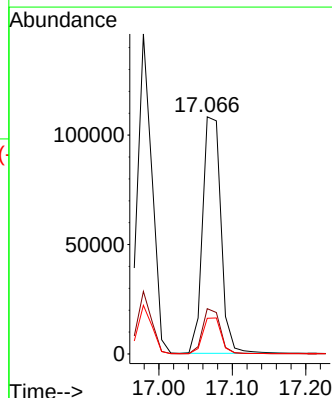
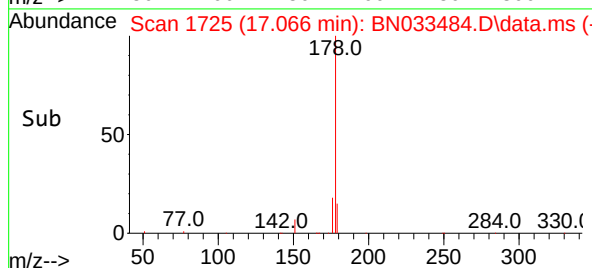
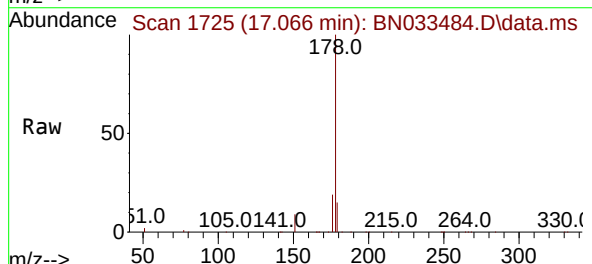
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

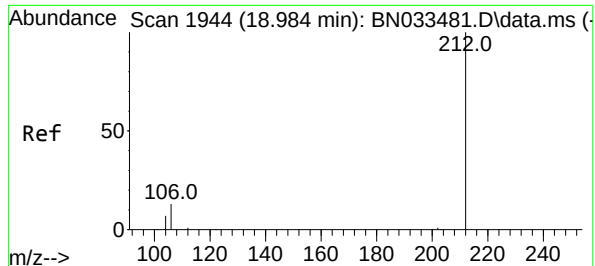
Tgt Ion:178 Resp: 202724
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.3 12.3 18.5



#26
Anthracene
Concen: 3.276 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:178 Resp: 188458
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 2.953 ng

RT: 18.984 min Scan# 1944

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

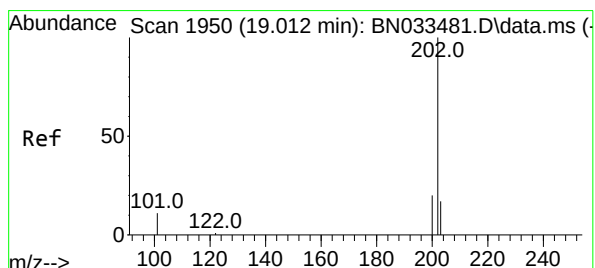
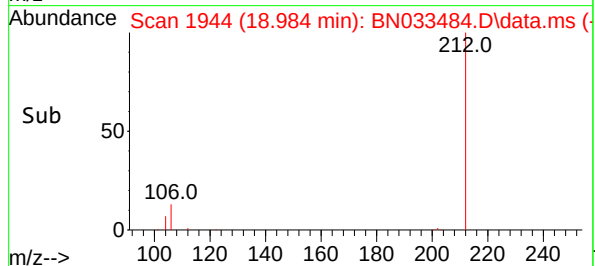
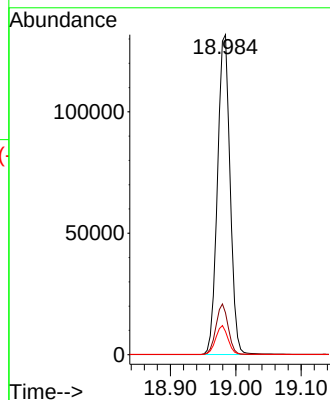
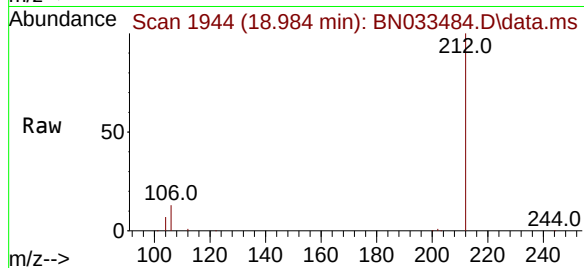
Tgt Ion:212 Resp: 176172

Ion Ratio Lower Upper

212 100

106 15.3 12.3 18.5

104 8.8 7.0 10.4



#28

Fluoranthene

Concen: 2.917 ng

RT: 19.012 min Scan# 1950

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

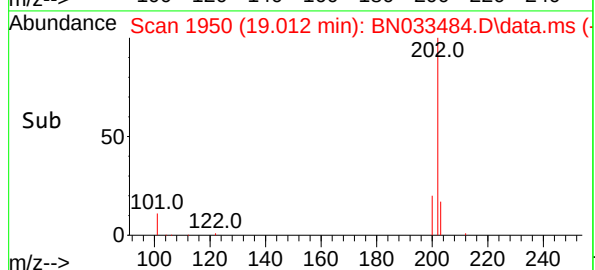
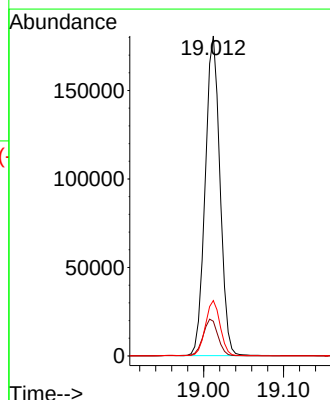
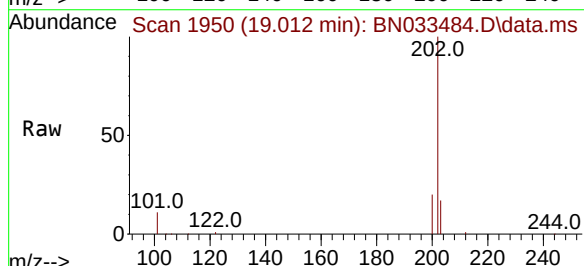
Tgt Ion:202 Resp: 230499

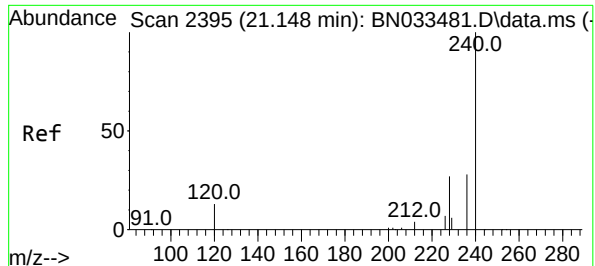
Ion Ratio Lower Upper

202 100

101 11.8 9.5 14.3

203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

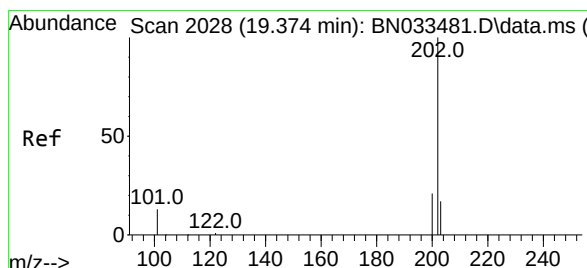
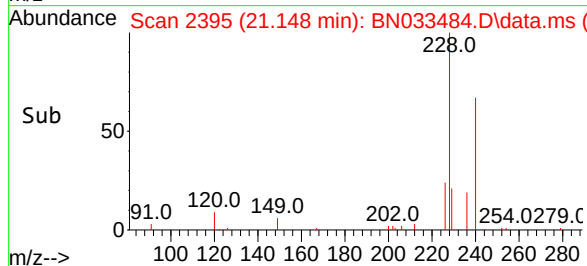
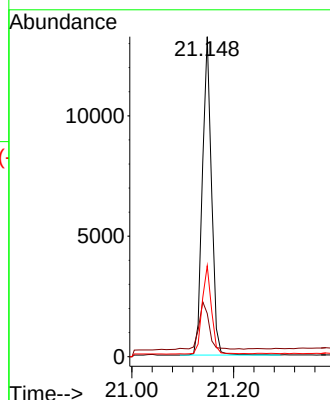
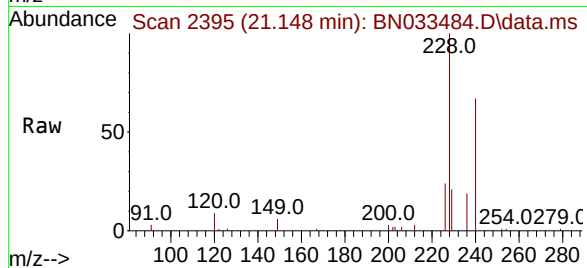
Tgt Ion:240 Resp: 16458

Ion Ratio Lower Upper

240 100

120 13.5 12.4 18.6

236 28.4 23.0 34.6



#30

Pyrene

Concen: 3.478 ng

RT: 19.374 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

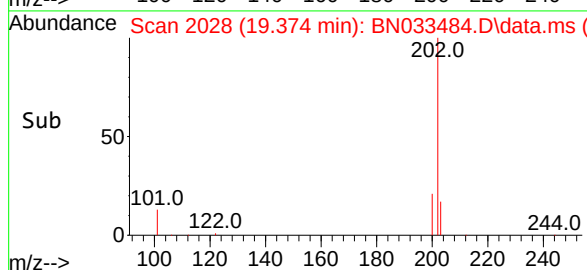
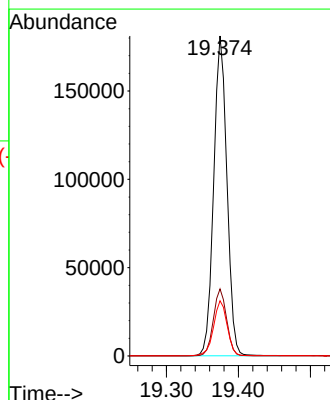
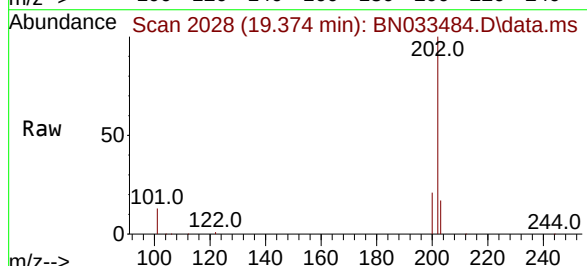
Tgt Ion:202 Resp: 230574

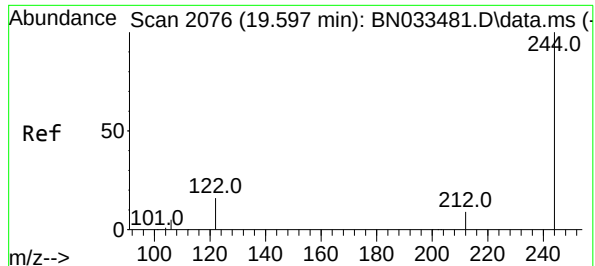
Ion Ratio Lower Upper

202 100

200 20.9 16.6 24.8

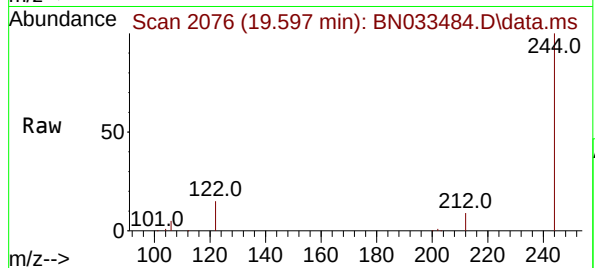
203 17.8 14.2 21.4



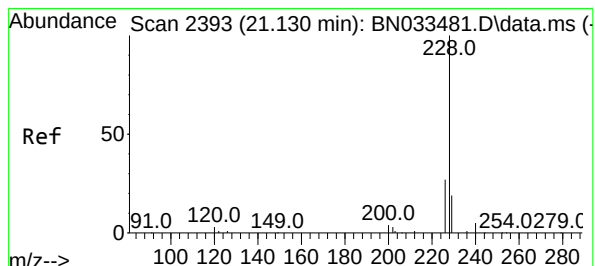
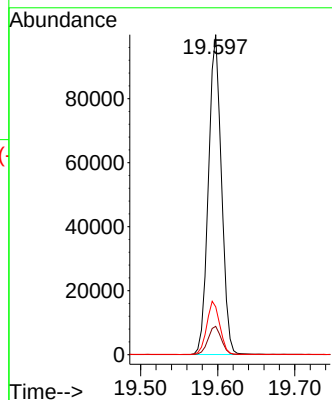


#31
Terphenyl-d14
Concen: 3.696 ng
RT: 19.597 min Scan# 2076
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

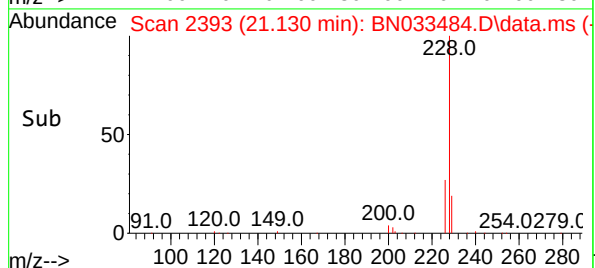
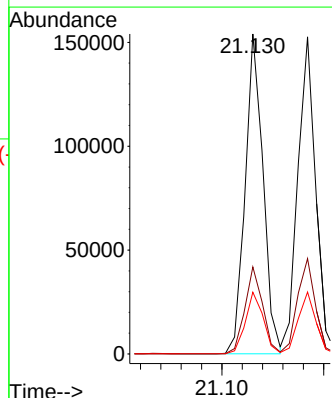
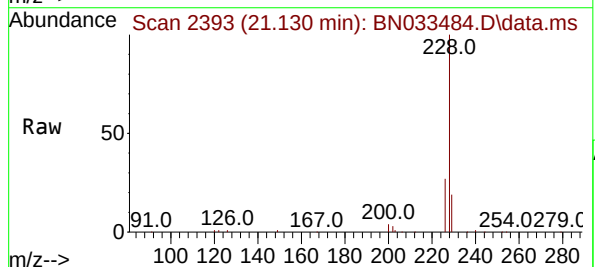


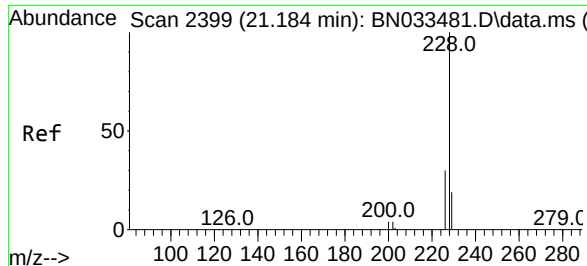
Tgt Ion:244 Resp: 117216
Ion Ratio Lower Upper
244 100
212 8.9 7.8 11.6
122 15.0 13.3 19.9



#32
Benzo(a)anthracene
Concen: 3.074 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:228 Resp: 187742
Ion Ratio Lower Upper
228 100
226 27.2 21.8 32.6
229 19.3 15.8 23.6





#33

Chrysene

Concen: 3.033 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

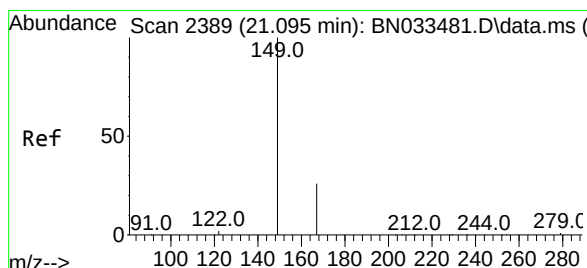
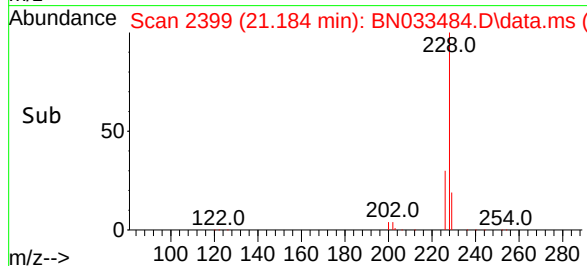
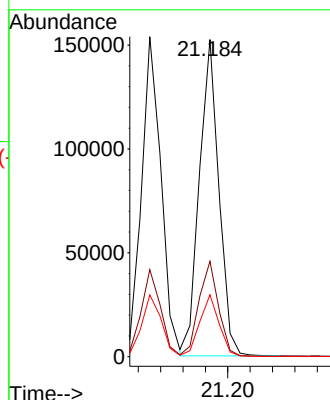
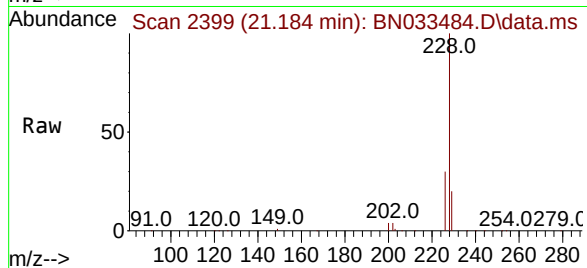
Tgt Ion:228 Resp: 184734

Ion Ratio Lower Upper

228 100

226 30.1 23.8 35.8

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.811 ng

RT: 21.095 min Scan# 2389

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

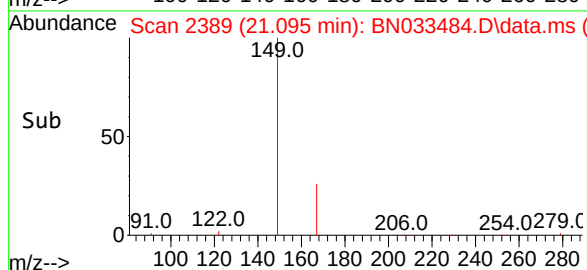
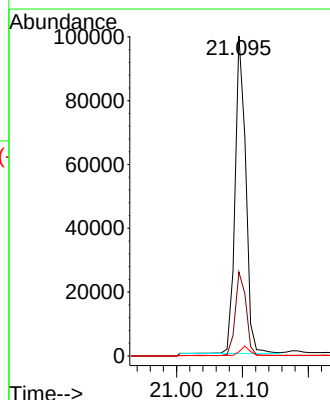
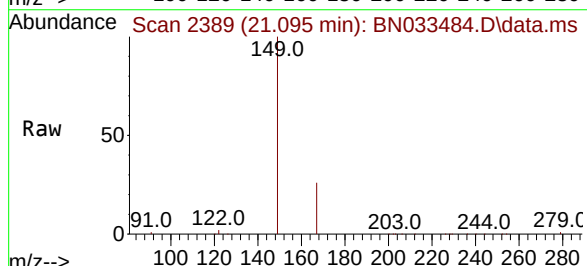
Tgt Ion:149 Resp: 111315

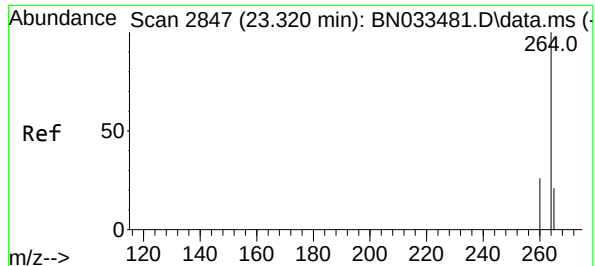
Ion Ratio Lower Upper

149 100

167 26.7 21.5 32.3

279 2.8 2.2 3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.317 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

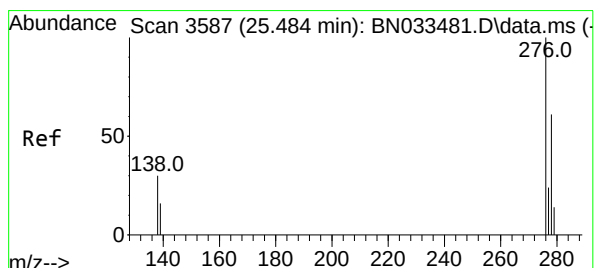
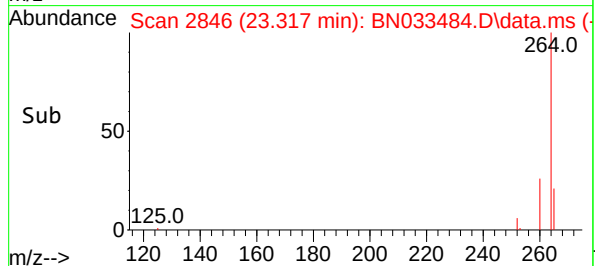
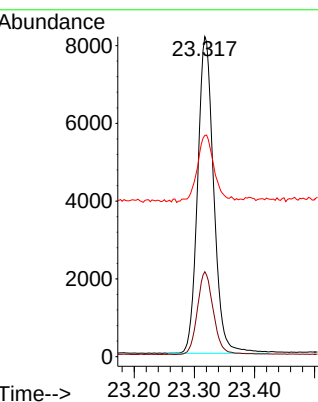
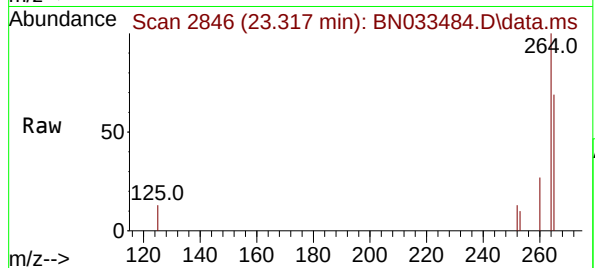
Tgt Ion:264 Resp: 15102

Ion Ratio Lower Upper

264 100

260 26.5 20.8 31.2

265 69.1 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.206 ng

RT: 25.478 min Scan# 3585

Delta R.T. -0.006 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

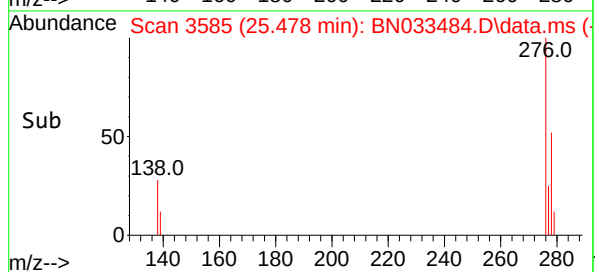
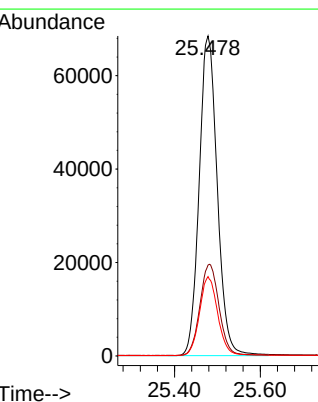
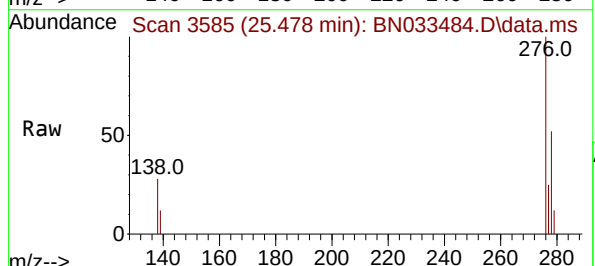
Tgt Ion:276 Resp: 200706

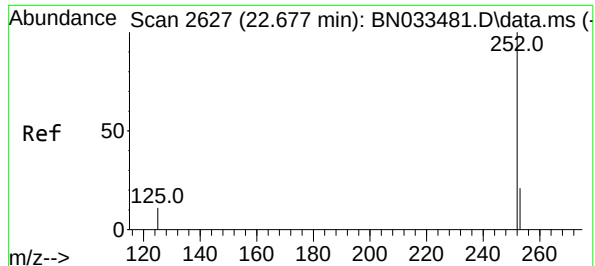
Ion Ratio Lower Upper

276 100

138 30.1 24.4 36.6

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 3.171 ng

RT: 22.674 min Scan# 2626

Delta R.T. -0.003 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

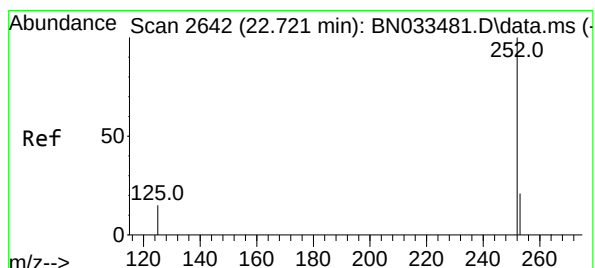
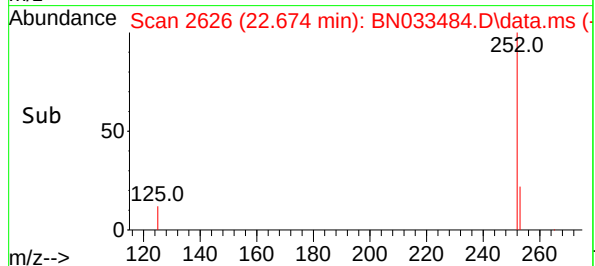
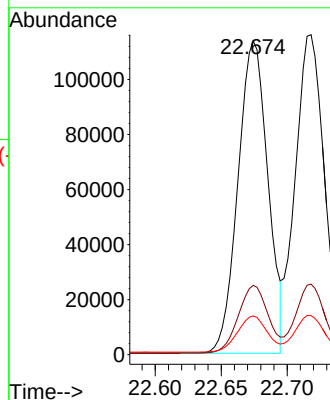
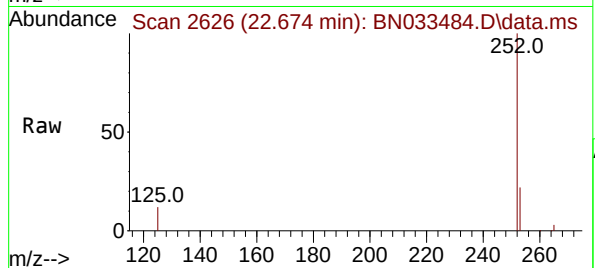
Tgt Ion:252 Resp: 178769

Ion Ratio Lower Upper

252 100

253 22.1 19.8 29.8

125 12.3 13.9 20.9#



#38

Benzo(k)fluoranthene

Concen: 3.154 ng

RT: 22.718 min Scan# 2641

Delta R.T. -0.003 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

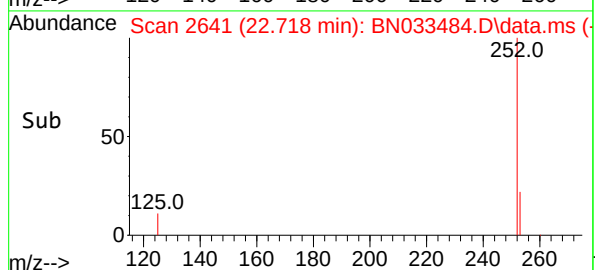
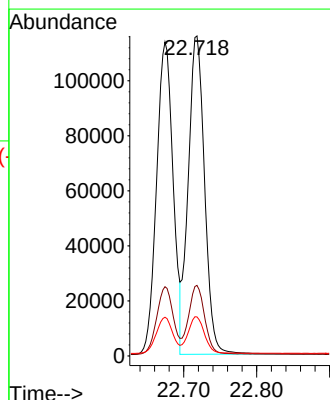
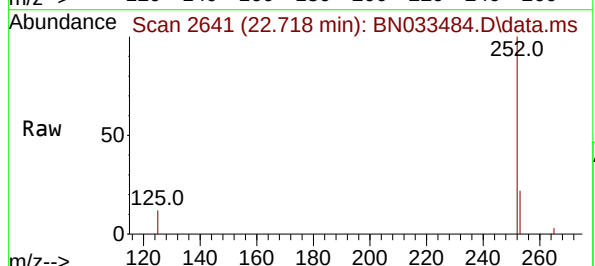
Tgt Ion:252 Resp: 180219

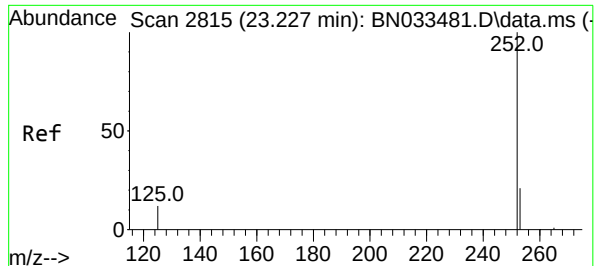
Ion Ratio Lower Upper

252 100

253 22.1 19.8 29.8

125 12.2 15.8 23.8#





#39

Benzo(a)pyrene

Concen: 3.178 ng

RT: 23.224 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033484.D

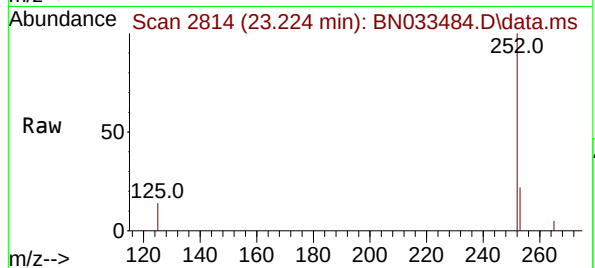
Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



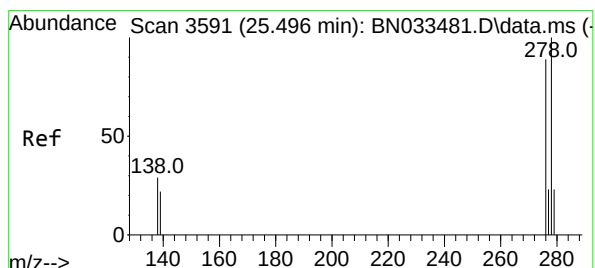
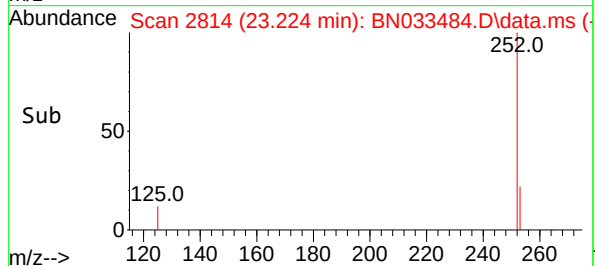
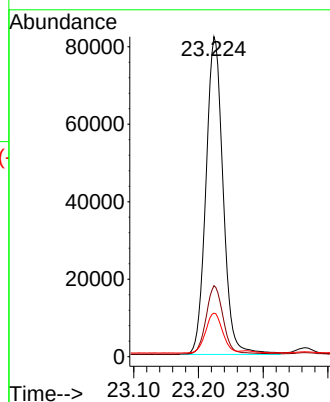
Tgt Ion:252 Resp: 151103

Ion Ratio Lower Upper

252 100

253 22.2 21.5 32.3

125 13.6 17.0 25.4#



#40

Dibenzo(a,h)anthracene

Concen: 3.242 ng

RT: 25.496 min Scan# 3591

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

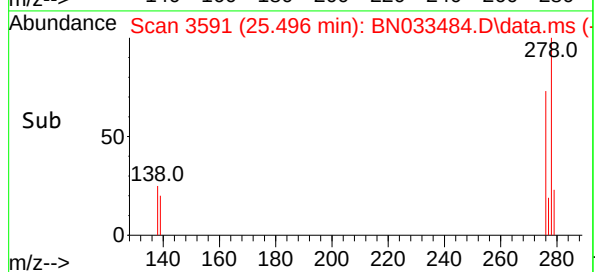
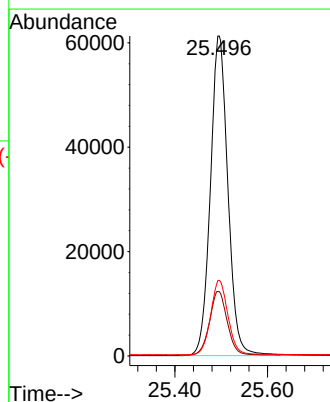
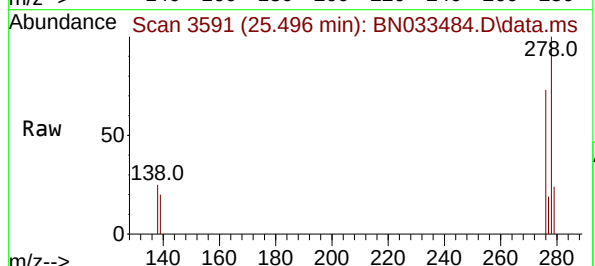
Tgt Ion:278 Resp: 160621

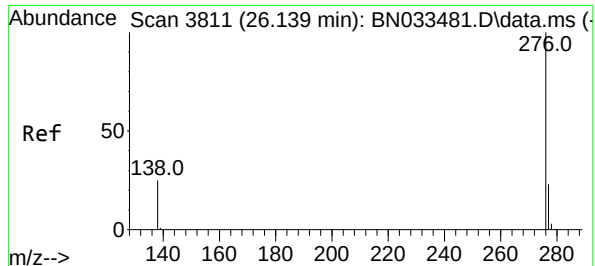
Ion Ratio Lower Upper

278 100

139 20.1 19.1 28.7

279 23.6 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 3.133 ng

RT: 26.127 min Scan# 3807

Delta R.T. -0.012 min

Lab File: BN033484.D

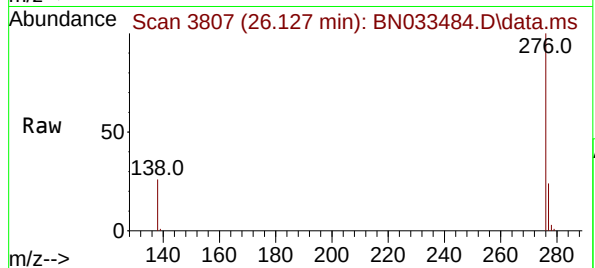
Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



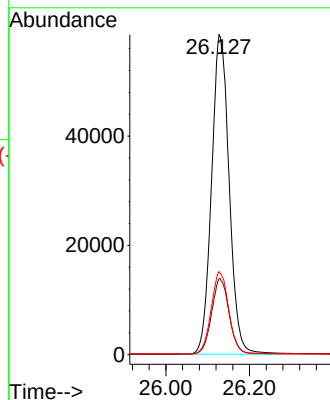
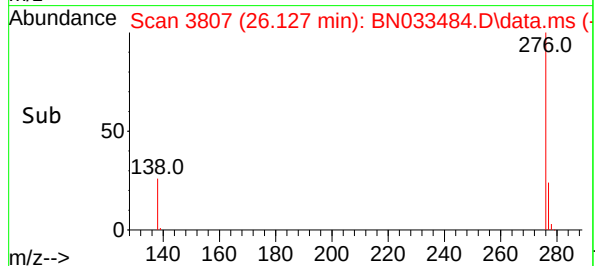
Tgt Ion:276 Resp: 170664

Ion Ratio Lower Upper

276 100

277 23.8 19.7 29.5

138 26.0 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033485.D
Acq On : 19 Aug 2024 19:53
Operator : MA/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Aug 19 23:23:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

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

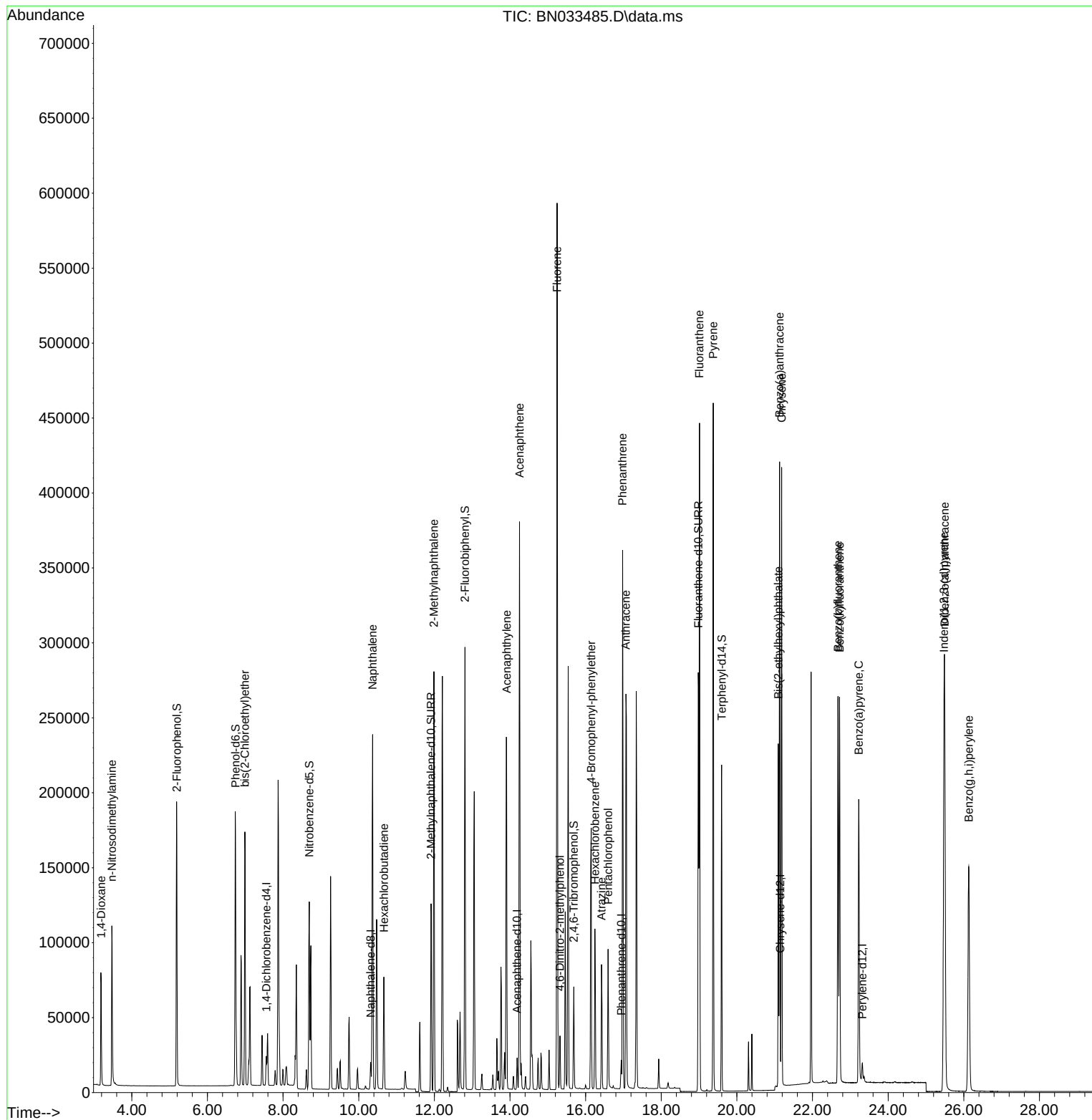
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	9269	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	21998	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	11634	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	23558	0.400	ng	0.00
29) Chrysene-d12	21.148	240	17408	0.400	ng	# 0.00
35) Perylene-d12	23.317	264	15627	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	139321	5.345	ng	0.00
5) Phenol-d6	6.743	99	157195	4.614	ng	0.00
8) Nitrobenzene-d5	8.691	82	91772	5.507	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	160871	4.865	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	34523	5.811	ng	0.00
15) 2-Fluorobiphenyl	12.809	172	235781	5.007	ng	0.00
27) Fluoranthene-d10	18.979	212	294565	4.770	ng	0.00
31) Terphenyl-d14	19.597	244	195740	5.835	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.190	88	45493	4.560	ng	99
3) n-Nitrosodimethylamine	3.471	42	56221	4.351	ng	98
6) bis(2-Chloroethyl)ether	6.989	93	113488	4.272	ng	100
9) Naphthalene	10.368	128	291947	4.891	ng	99
10) Hexachlorobutadiene	10.667	225	57398	5.014	ng	# 100
12) 2-Methylnaphthalene	11.990	142	190474	4.768	ng	98
16) Acenaphthylene	13.911	152	277888	5.198	ng	100
17) Acenaphthene	14.253	154	185664	5.047	ng	97
18) Fluorene	15.247	166	230419	4.786	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	23328	7.938	ng	# 69
21) 4-Bromophenyl-phenylether	16.147	248	73606	5.238	ng	98
22) Hexachlorobenzene	16.247	284	79732	5.080	ng	99
23) Atrazine	16.420	200	61750	5.519	ng	98
24) Pentachlorophenol	16.594	266	40313	6.275	ng	99
25) Phenanthrene	16.979	178	335366	4.976	ng	100
26) Anthracene	17.066	178	311339	5.228	ng	99
28) Fluoranthene	19.012	202	379353	4.638	ng	100
30) Pyrene	19.374	202	384431	5.482	ng	100
32) Benzo(a)anthracene	21.130	228	320243	4.958	ng	100
33) Chrysene	21.184	228	311144	4.829	ng	100
34) Bis(2-ethylhexyl)phtha...	21.094	149	193548	6.264	ng	100
36) Indeno(1,2,3-cd)pyrene	25.478	276	330983	5.109	ng	99
37) Benzo(b)fluoranthene	22.674	252	299478	5.133	ng	# 91
38) Benzo(k)fluoranthene	22.715	252	295429	4.997	ng	# 89
39) Benzo(a)pyrene	23.224	252	251984	5.121	ng	# 87
40) Dibenzo(a,h)anthracene	25.493	278	264087	5.151	ng	93
41) Benzo(g,h,i)perylene	26.133	276	280592	4.978	ng	98

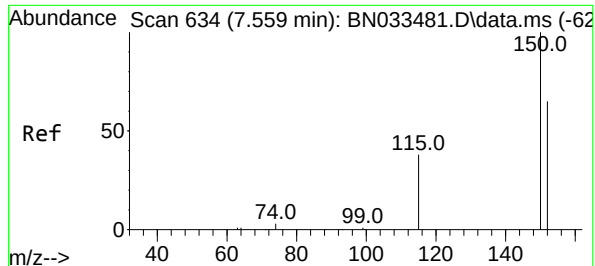
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033485.D
Acq On : 19 Aug 2024 19:53
Operator : MA/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Aug 19 23:23:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

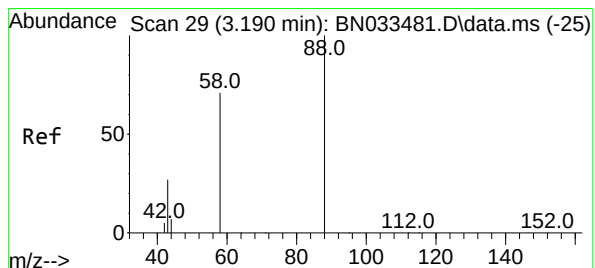
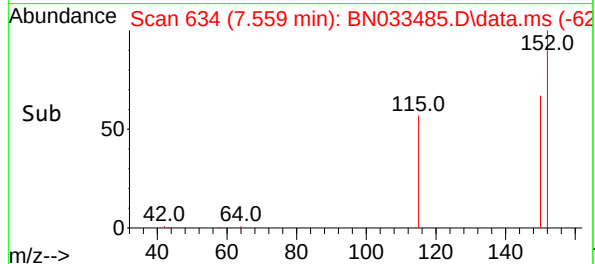
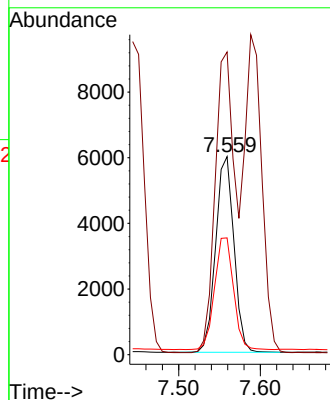
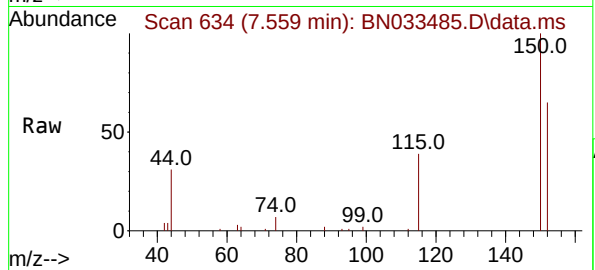




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

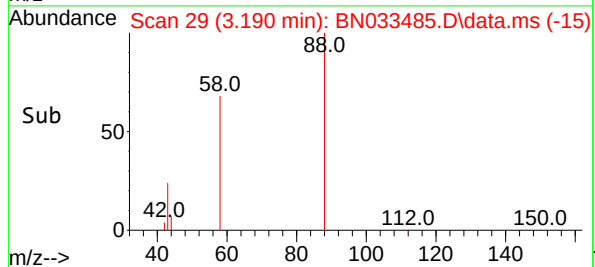
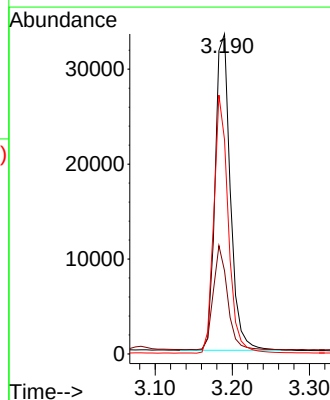
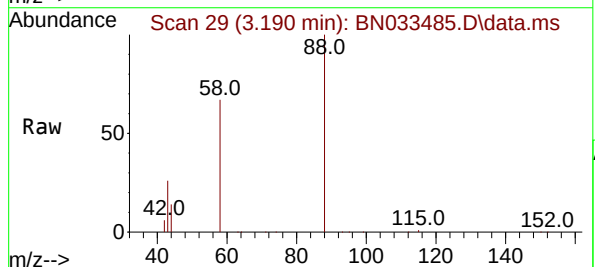
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

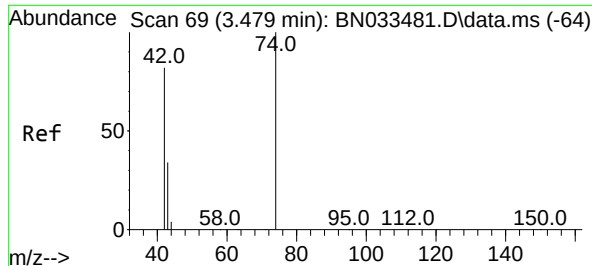
Tgt Ion:152 Resp: 9269
Ion Ratio Lower Upper
152 100
150 152.8 122.2 183.2
115 58.9 47.2 70.8



#2
1,4-Dioxane
Concen: 4.560 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion: 88 Resp: 45493
Ion Ratio Lower Upper
88 100
43 30.6 25.0 37.4
58 77.6 62.5 93.7

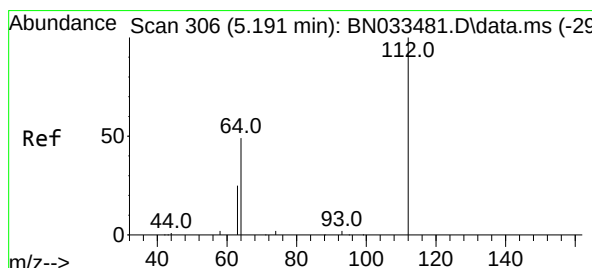
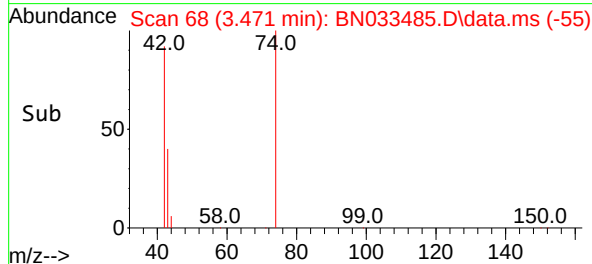
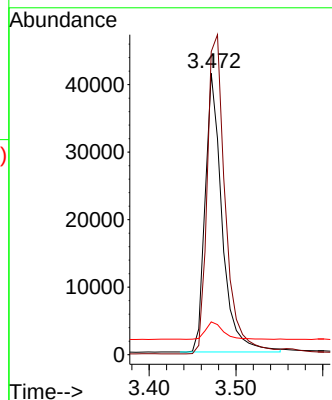
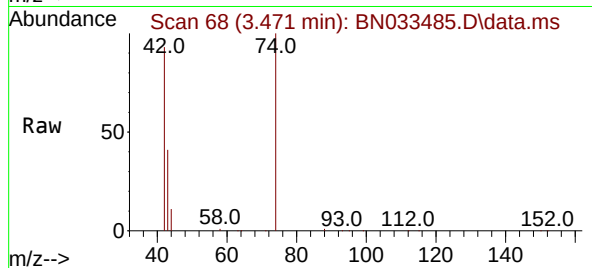




#3
n-Nitrosodimethylamine
Concen: 4.351 ng
RT: 3.471 min Scan# 69
Delta R.T. -0.007 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

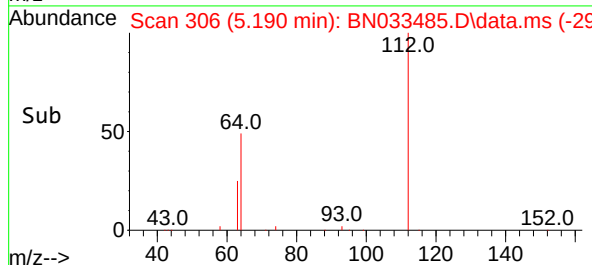
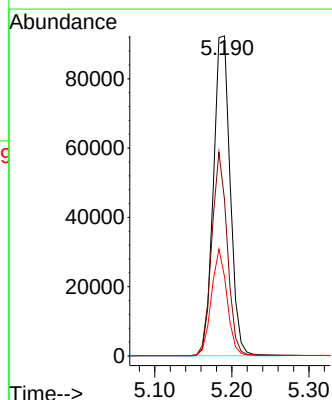
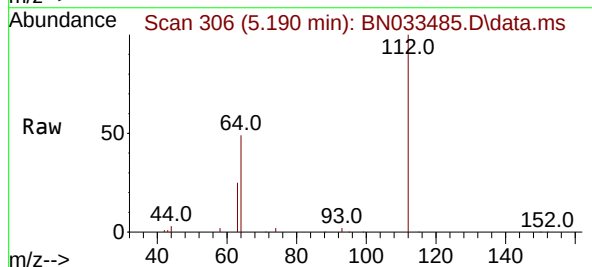
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

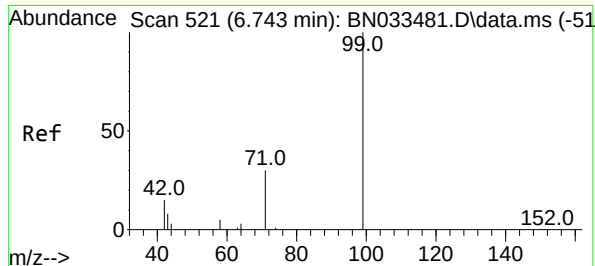
Tgt Ion: 42 Resp: 56221
Ion Ratio Lower Upper
42 100
74 122.7 100.2 150.2
44 6.4 5.3 7.9



#4
2-Fluorophenol
Concen: 5.345 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion: 112 Resp: 139321
Ion Ratio Lower Upper
112 100
64 58.9 47.1 70.7
63 30.7 24.9 37.3

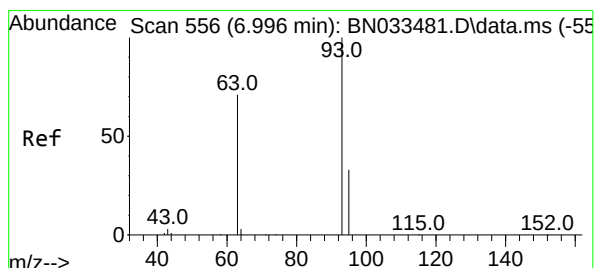
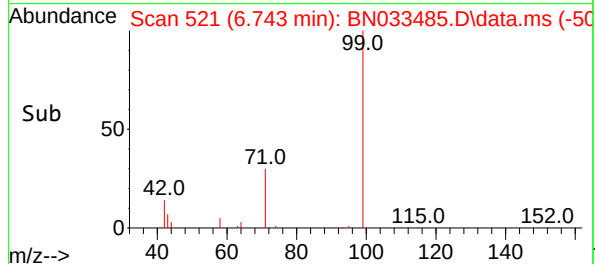
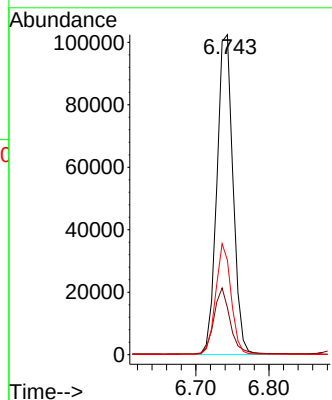
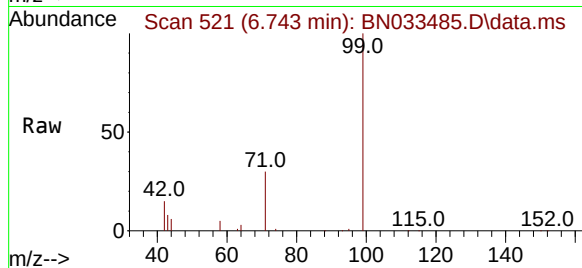




#5
Phenol-d6
Concen: 4.614 ng
RT: 6.743 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

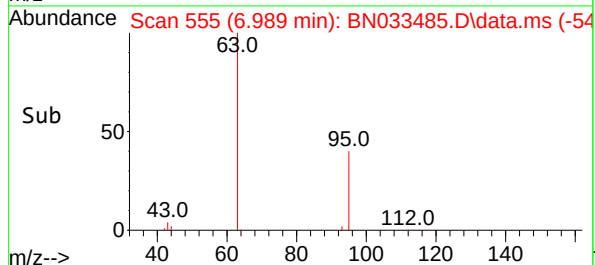
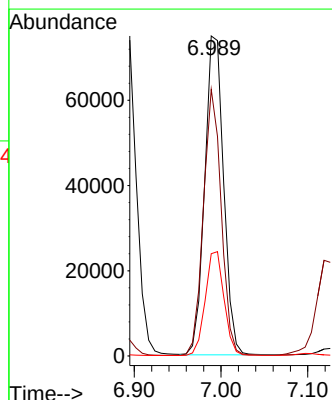
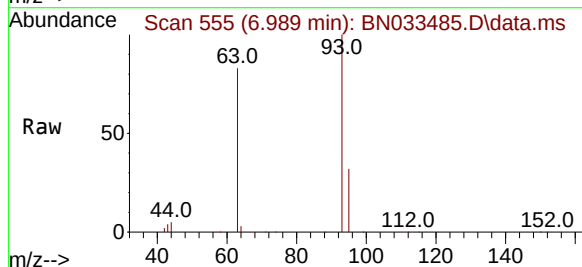
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

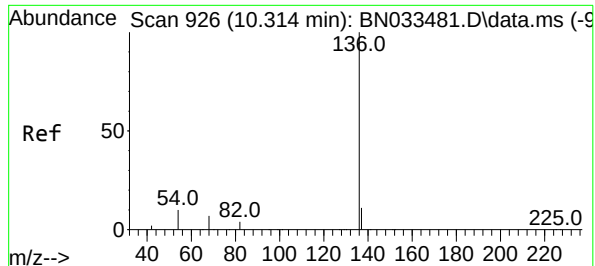
Tgt Ion: 99 Resp: 157195
Ion Ratio Lower Upper
99 100
42 20.4 16.6 24.8
71 33.0 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 4.272 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion: 93 Resp: 113488
Ion Ratio Lower Upper
93 100
63 78.7 63.0 94.4
95 32.4 26.0 39.0

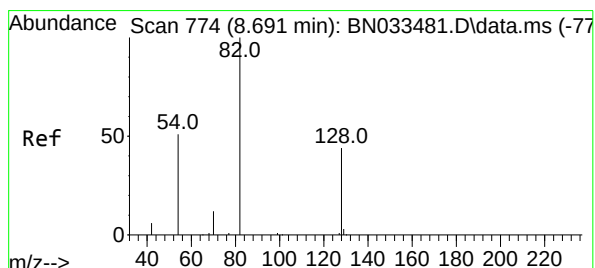
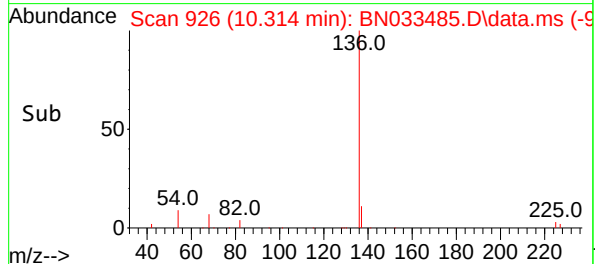
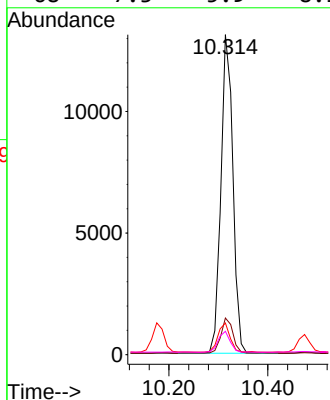
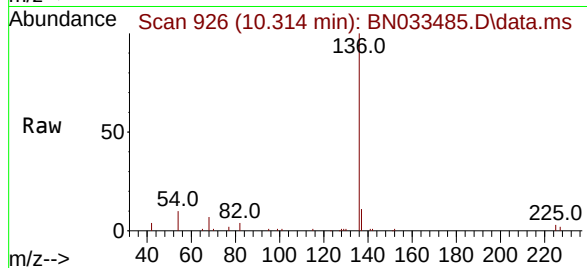




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

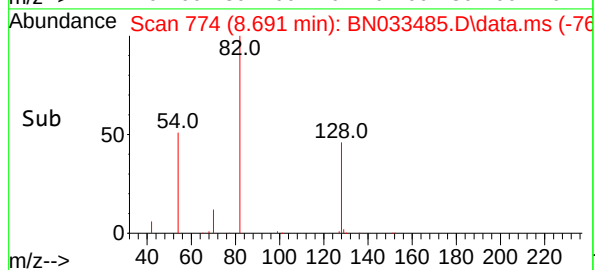
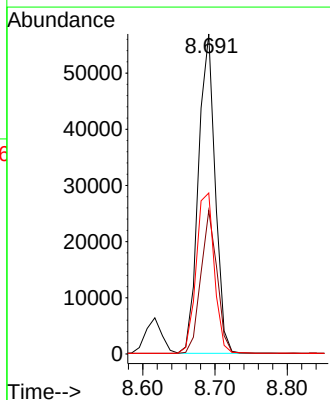
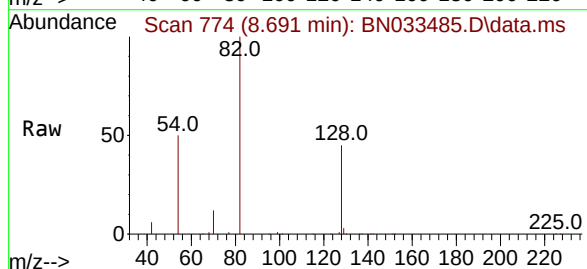
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

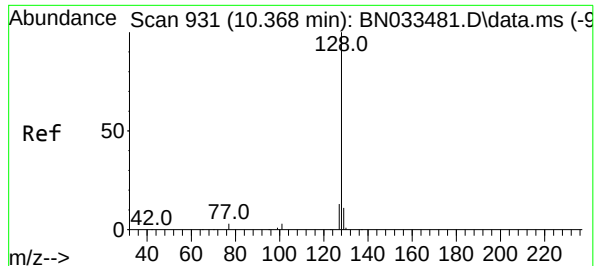
Tgt Ion:	136	Resp:	21998
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	9.9	8.3	12.5
68	7.3	5.9	8.9



#8
Nitrobenzene-d5
Concen: 5.507 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:	82	Resp:	91772
Ion	Ratio	Lower	Upper
82	100		
128	44.8	36.0	54.0
54	50.3	42.0	63.0

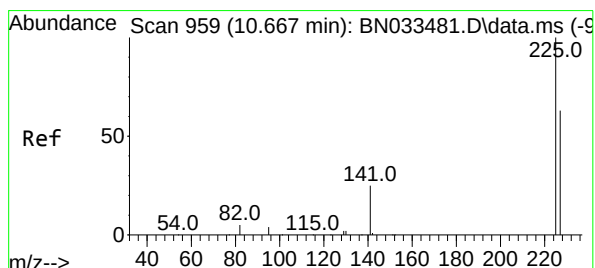
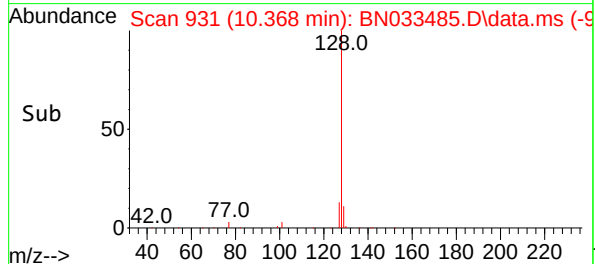
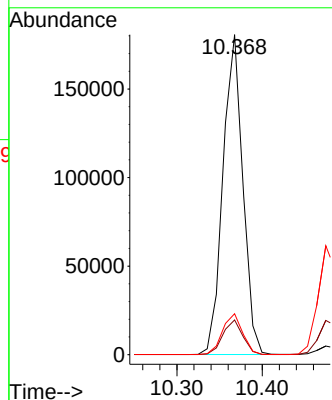
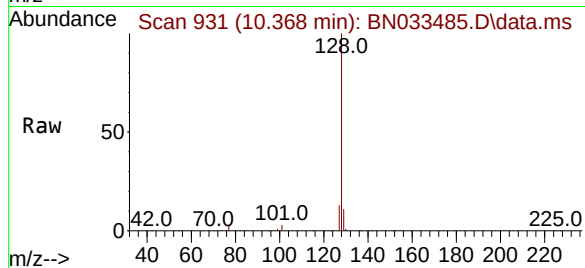




#9
Naphthalene
Concen: 4.891 ng
RT: 10.368 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

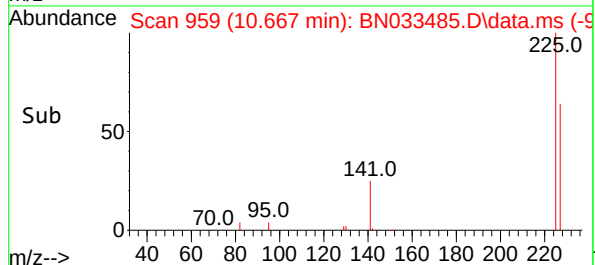
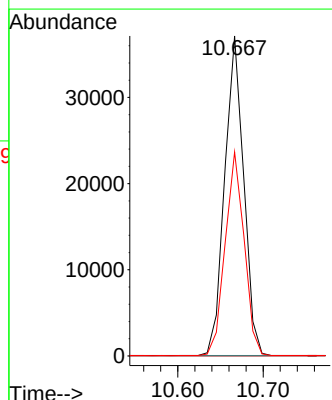
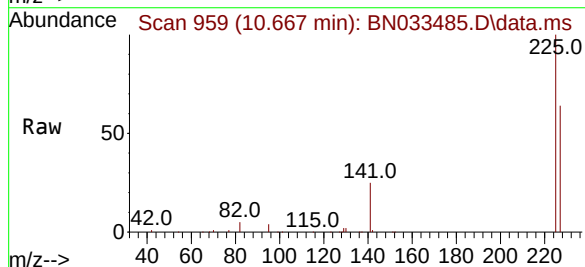
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

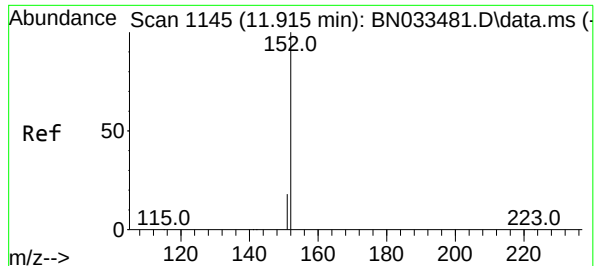
Tgt Ion:128 Resp: 291947
Ion Ratio Lower Upper
128 100
129 10.8 9.1 13.7
127 12.8 10.7 16.1



#10
Hexachlorobutadiene
Concen: 5.014 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:225 Resp: 57398
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.2 76.8

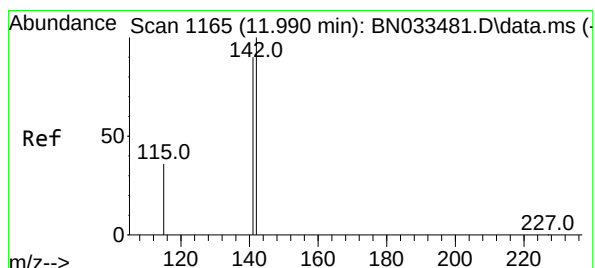
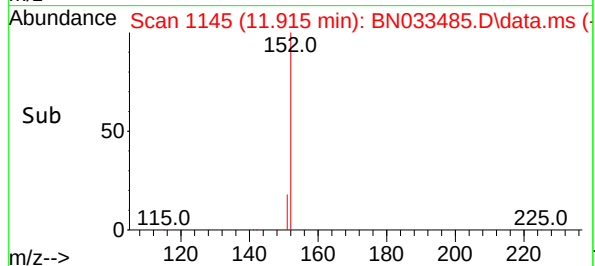
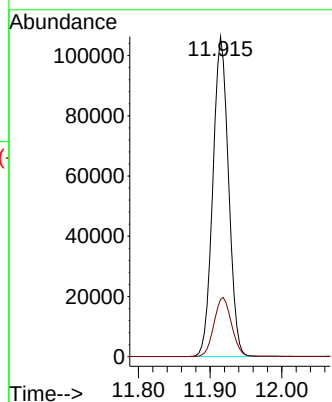
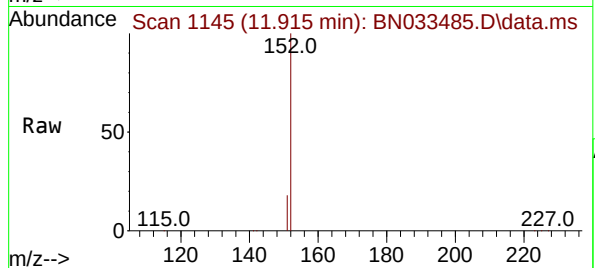




#11
2-Methylnaphthalene-d10
Concen: 4.865 ng
RT: 11.915 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

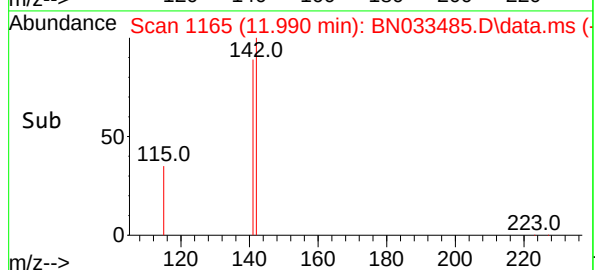
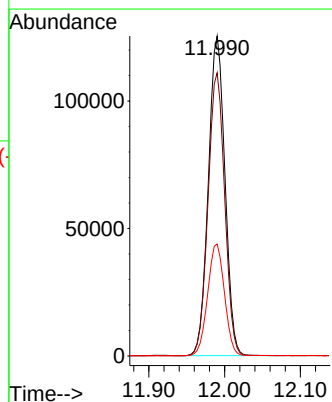
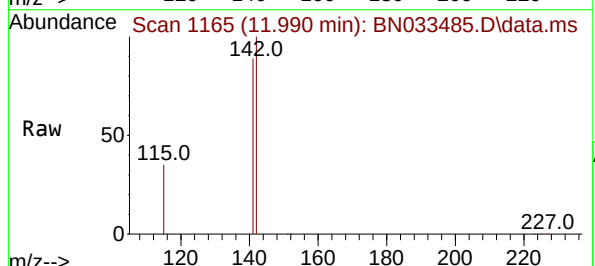
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

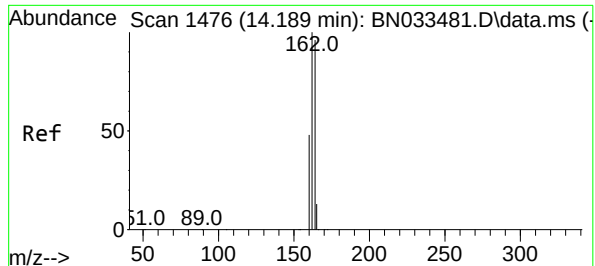
Tgt Ion:152 Resp: 160871
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 4.768 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:142 Resp: 190474
Ion Ratio Lower Upper
142 100
141 88.5 71.7 107.5
115 35.0 29.4 44.2

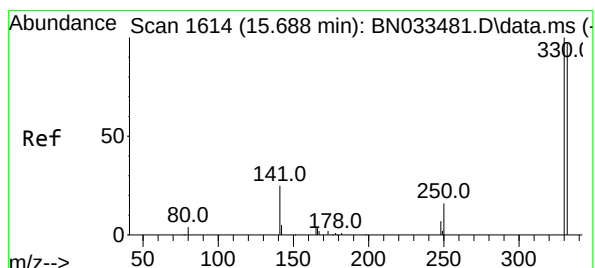
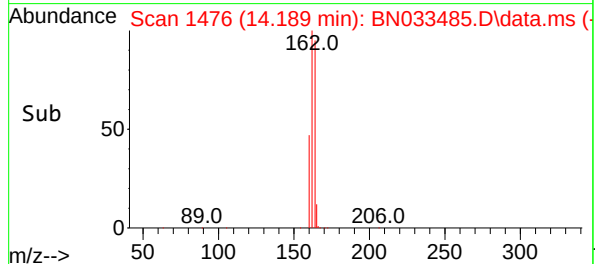
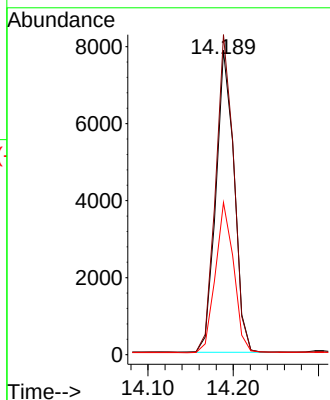
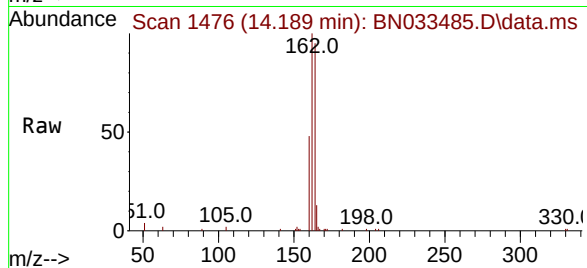




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

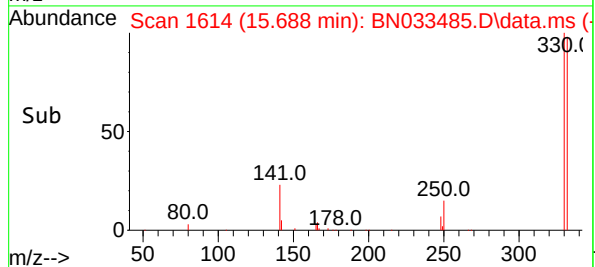
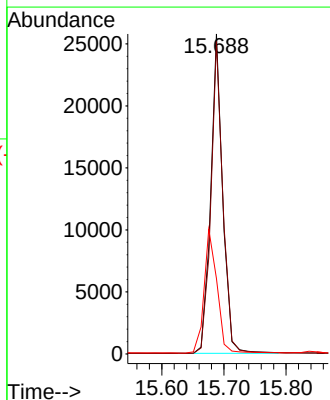
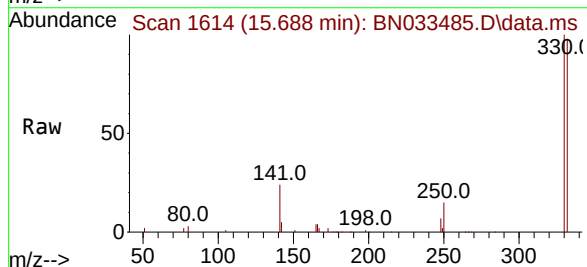
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

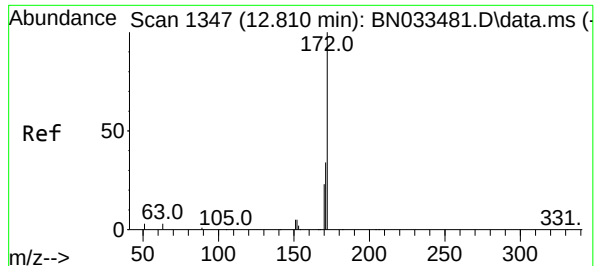
Tgt Ion:164 Resp: 11634
Ion Ratio Lower Upper
164 100
162 105.2 83.5 125.3
160 50.1 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 5.811 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:330 Resp: 34523
Ion Ratio Lower Upper
330 100
332 97.5 77.5 116.3
141 41.7 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 5.007 ng

RT: 12.809 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

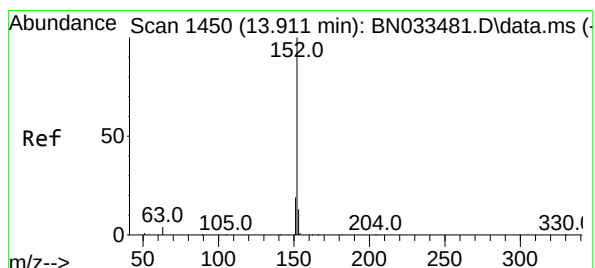
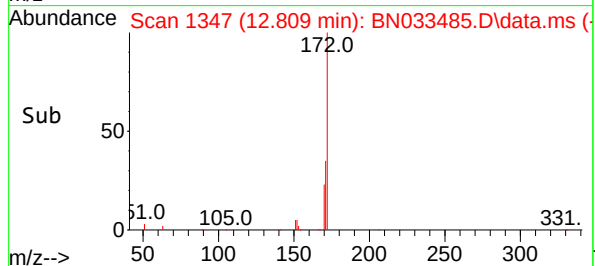
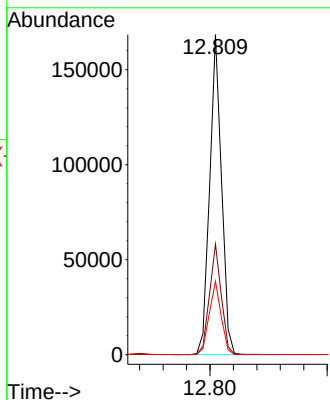
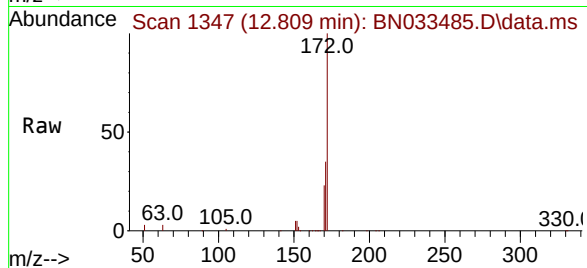
Tgt Ion:172 Resp: 235781

Ion Ratio Lower Upper

172 100

171 34.5 27.7 41.5

170 23.0 18.3 27.5



#16

Acenaphthylene

Concen: 5.198 ng

RT: 13.911 min Scan# 1450

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

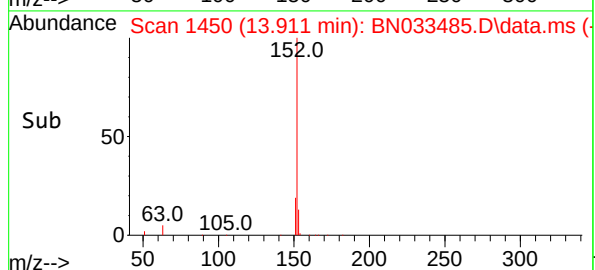
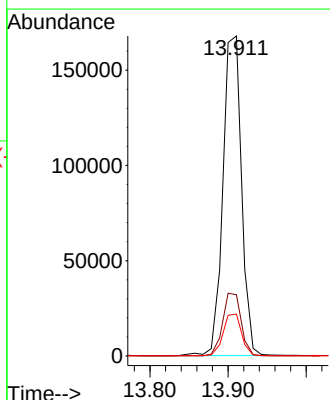
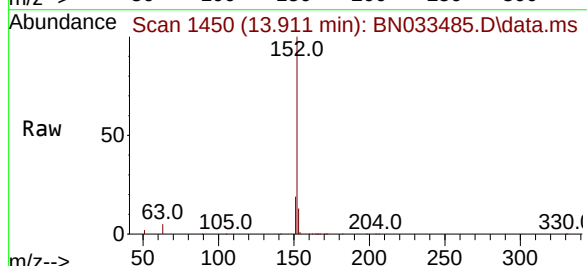
Tgt Ion:152 Resp: 277888

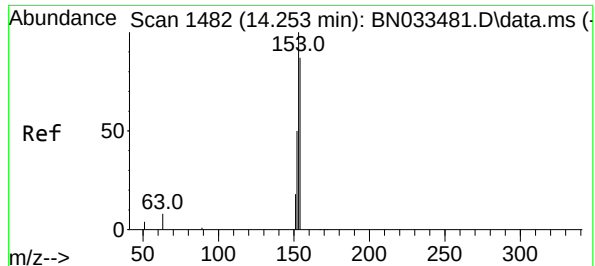
Ion Ratio Lower Upper

152 100

151 19.4 15.7 23.5

153 13.0 10.3 15.5

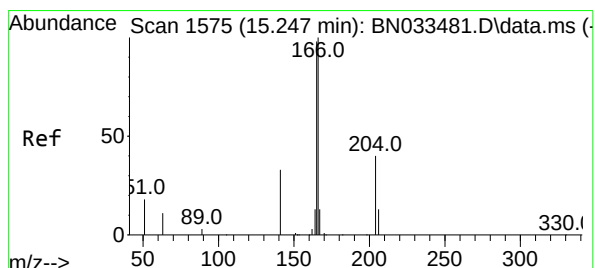
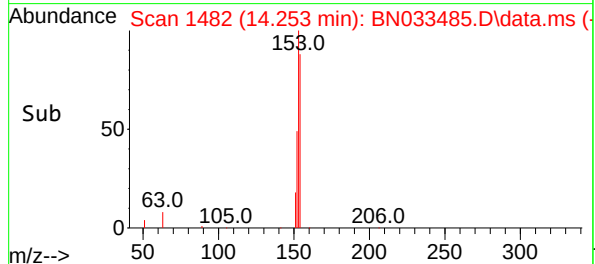
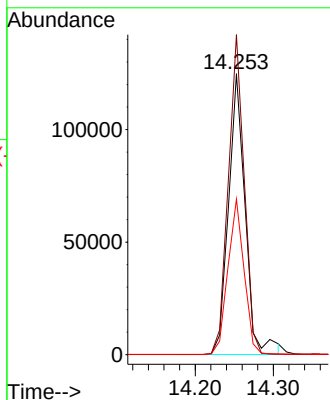
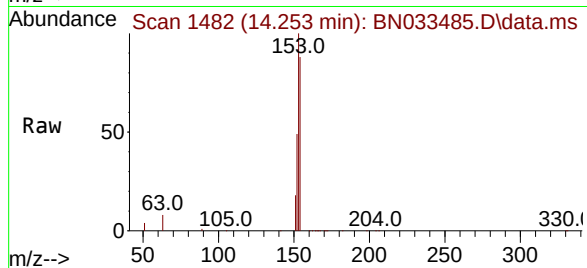




#17
Acenaphthene
Concen: 5.047 ng
RT: 14.253 min Scan# 1482
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

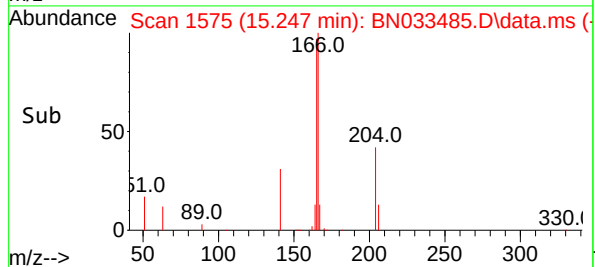
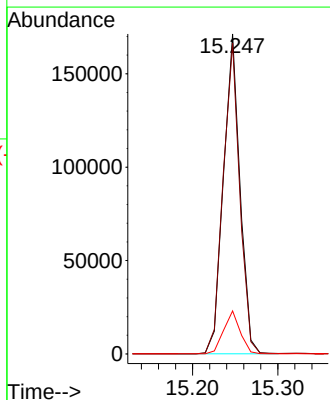
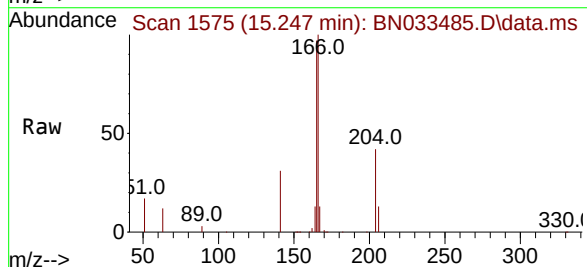
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

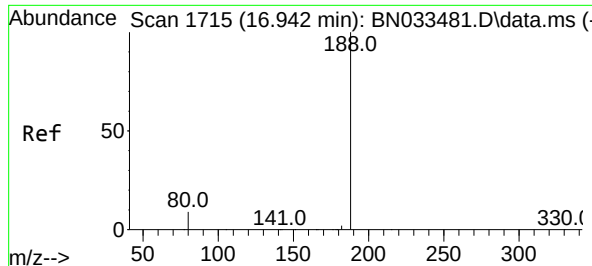
Tgt Ion:154 Resp: 185664
Ion Ratio Lower Upper
154 100
153 108.5 89.0 133.6
152 53.5 45.2 67.8



#18
Fluorene
Concen: 4.786 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:166 Resp: 230419
Ion Ratio Lower Upper
166 100
165 97.7 78.2 117.4
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

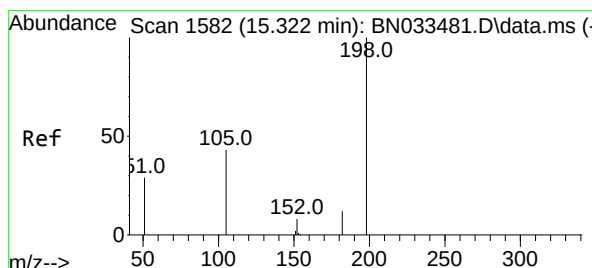
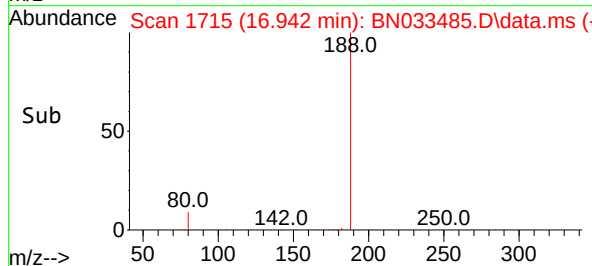
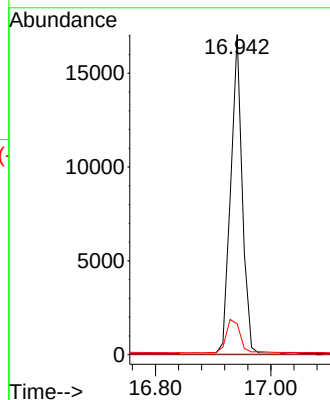
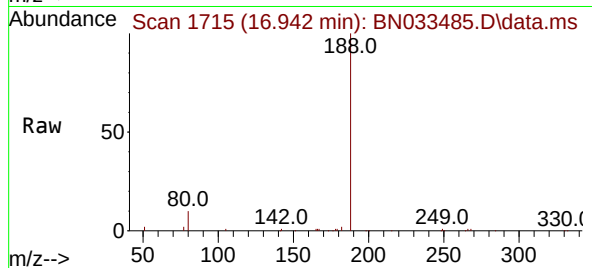
Tgt Ion:188 Resp: 23558

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.6 7.8 11.8



#20

4,6-Dinitro-2-methylphenol

Concen: 7.938 ng

RT: 15.322 min Scan# 1582

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

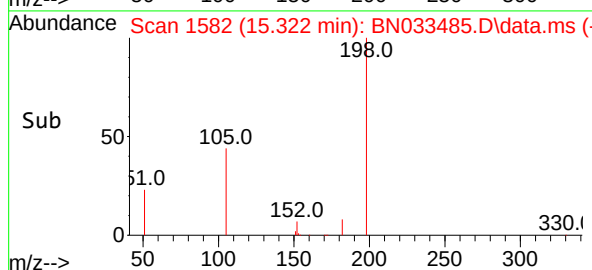
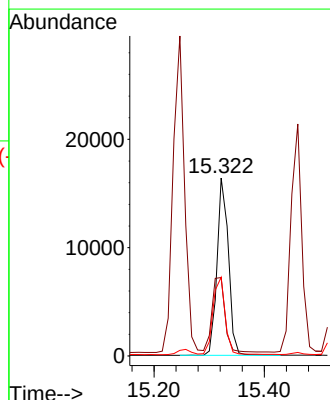
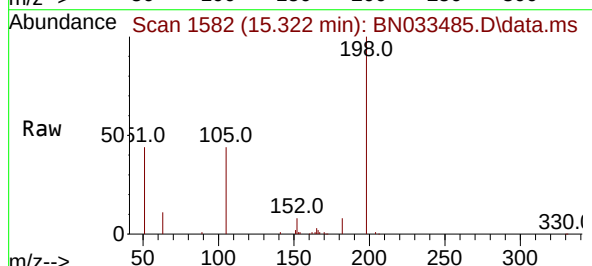
Tgt Ion:198 Resp: 23328

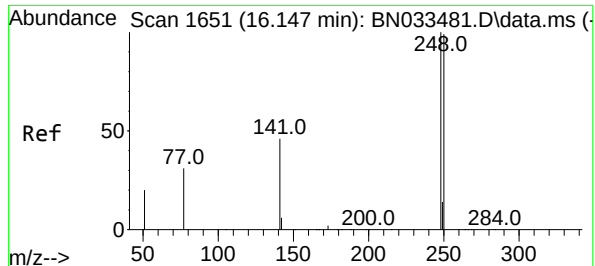
Ion Ratio Lower Upper

198 100

51 44.0 65.1 97.7#

105 44.3 44.8 67.2#

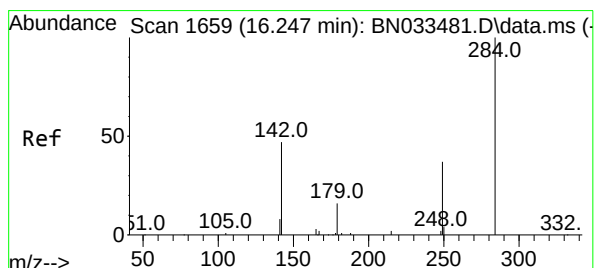
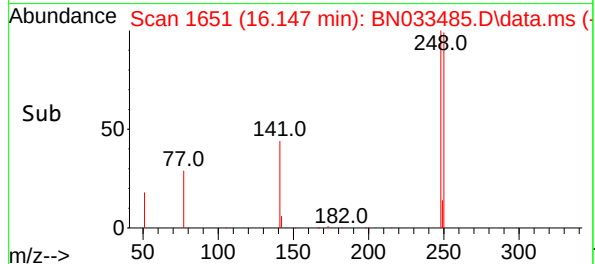
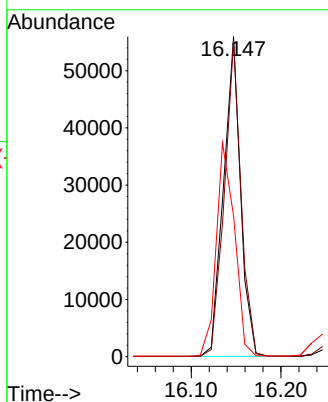
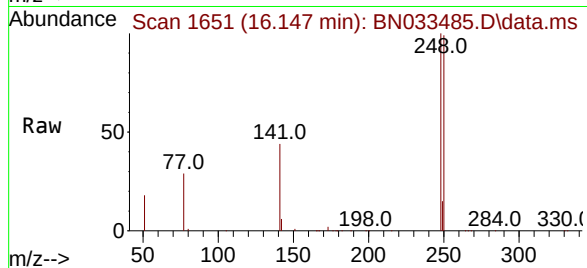




#21
4-Bromophenyl-phenylether
Concen: 5.238 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

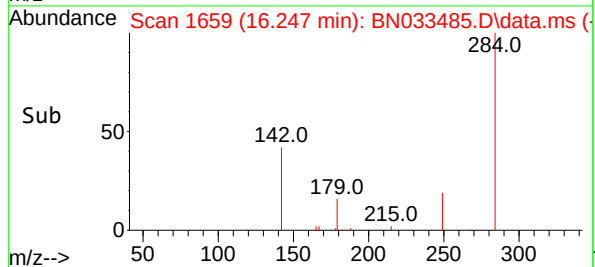
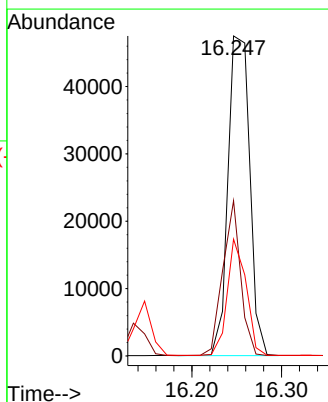
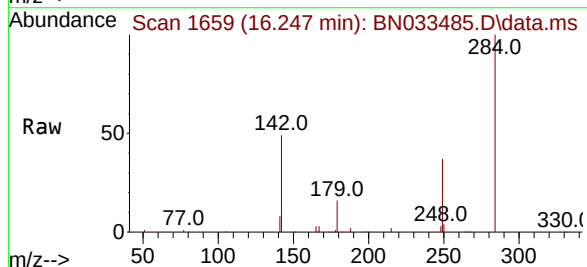
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

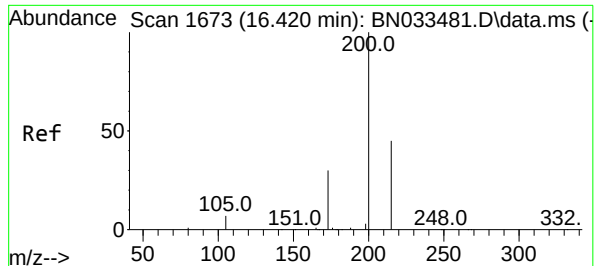
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.6	79.2	118.8
141	44.0	37.9	56.9



#22
Hexachlorobenzene
Concen: 5.080 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.6	31.8	47.6
249	31.6	26.0	39.0

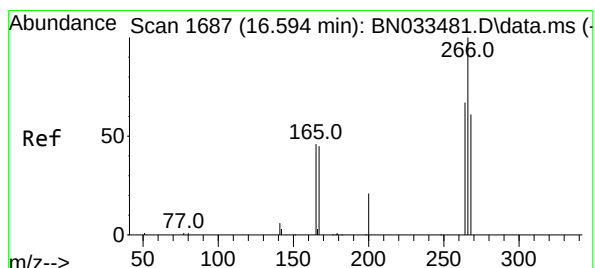
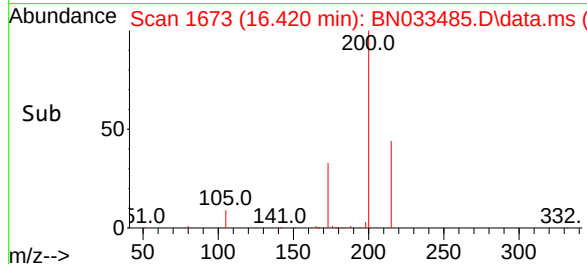
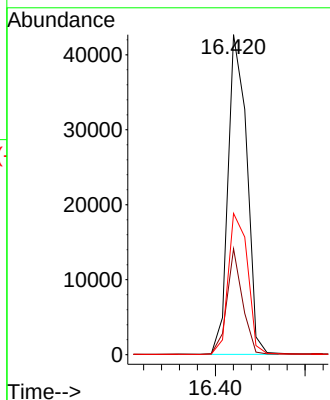
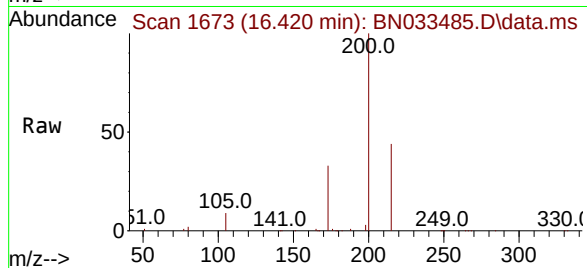




#23
Atrazine
Concen: 5.519 ng
RT: 16.420 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

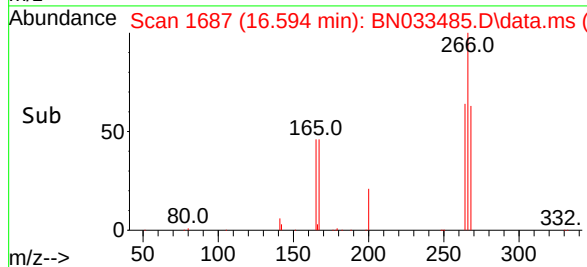
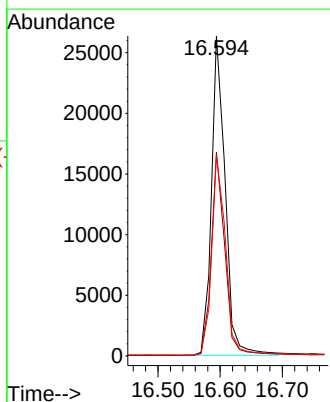
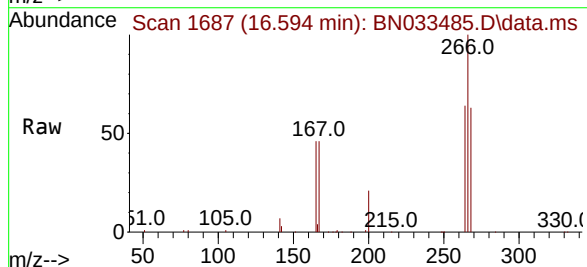
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

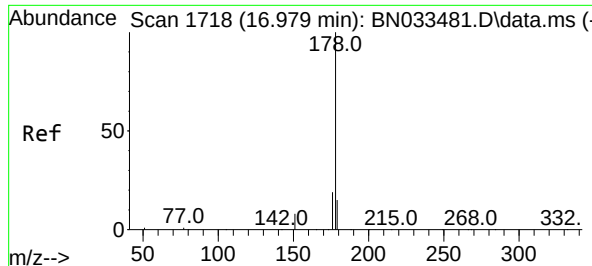
Tgt Ion:200 Resp: 61750
Ion Ratio Lower Upper
200 100
173 33.1 25.3 37.9
215 44.2 36.6 54.8



#24
Pentachlorophenol
Concen: 6.275 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:266 Resp: 40313
Ion Ratio Lower Upper
266 100
264 62.7 51.9 77.9
268 63.8 51.0 76.4

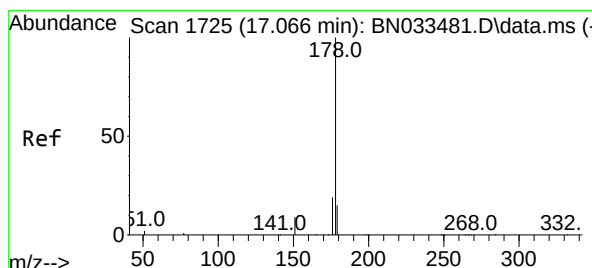
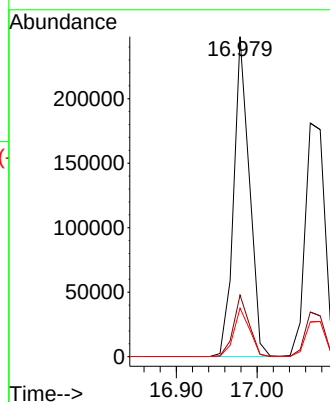
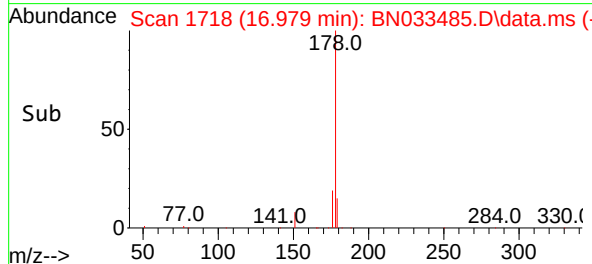
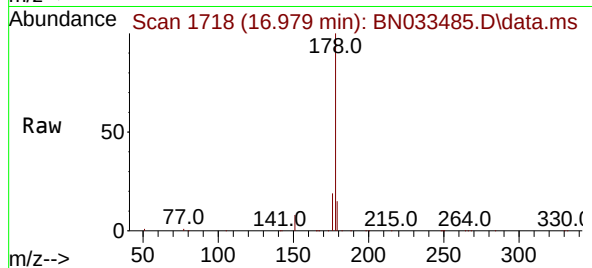




#25
Phenanthrene
Concen: 4.976 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

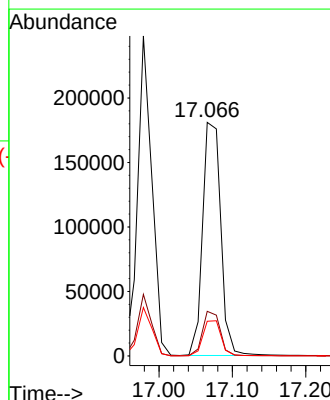
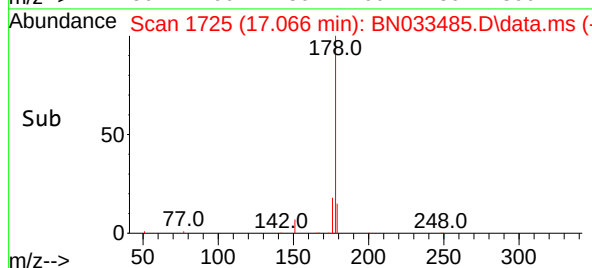
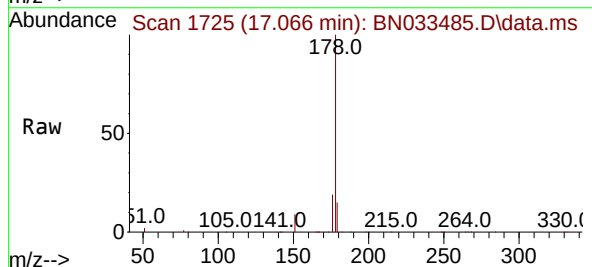
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

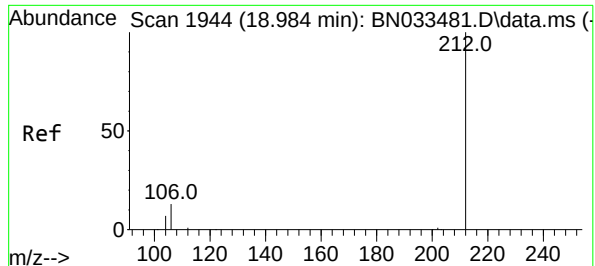
Tgt Ion:178 Resp: 335366
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.2 12.3 18.5



#26
Anthracene
Concen: 5.228 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:178 Resp: 311339
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 4.770 ng

RT: 18.979 min Scan# 1943

Delta R.T. -0.005 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

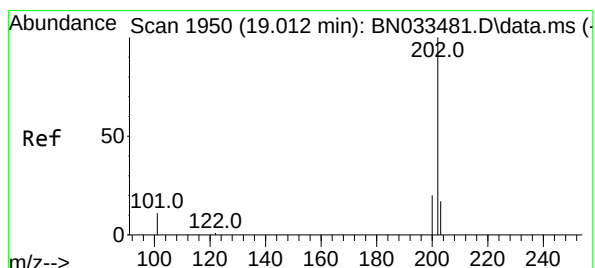
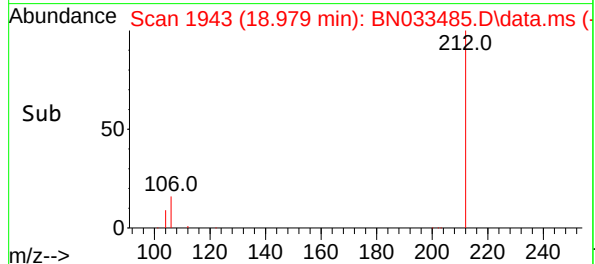
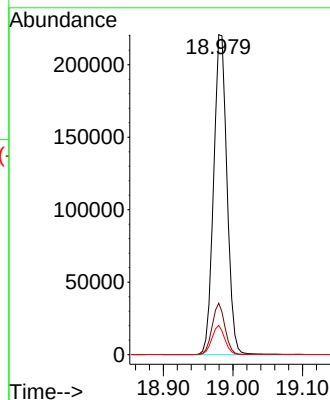
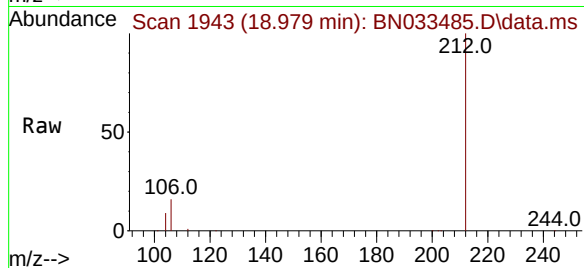
Tgt Ion:212 Resp: 294565

Ion Ratio Lower Upper

212 100

106 15.3 12.3 18.5

104 8.7 7.0 10.4



#28

Fluoranthene

Concen: 4.638 ng

RT: 19.012 min Scan# 1950

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

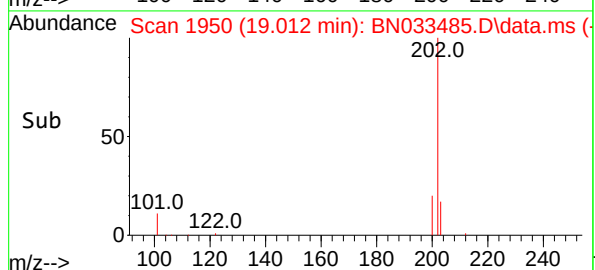
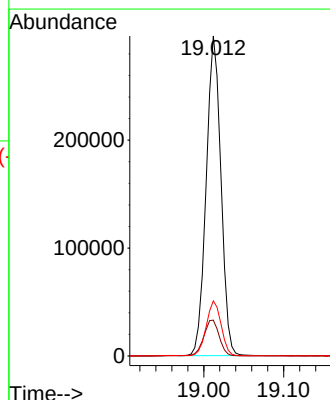
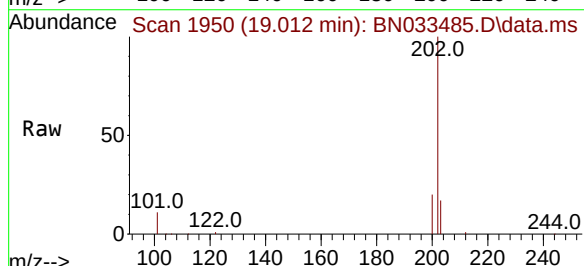
Tgt Ion:202 Resp: 379353

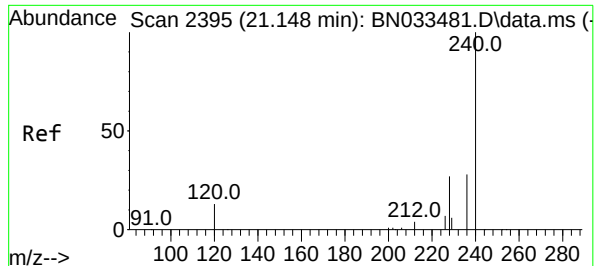
Ion Ratio Lower Upper

202 100

101 11.9 9.5 14.3

203 17.3 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

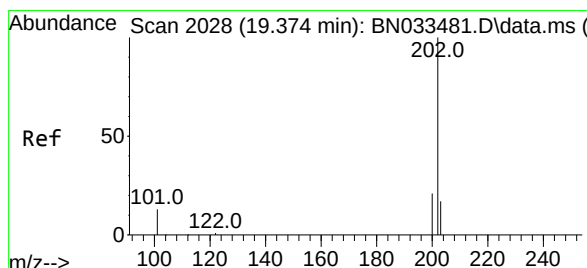
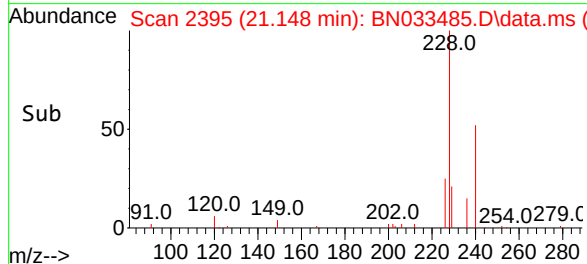
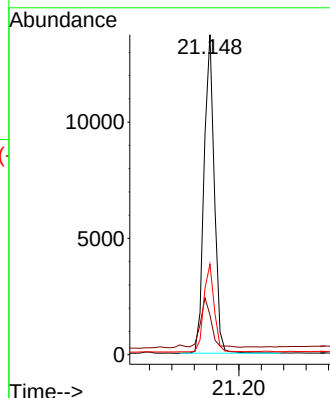
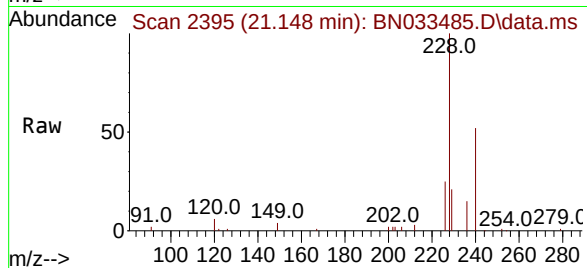
Tgt Ion:240 Resp: 17408

Ion Ratio Lower Upper

240 100

120 12.4 12.4 18.6#

236 28.3 23.0 34.6



#30

Pyrene

Concen: 5.482 ng

RT: 19.374 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

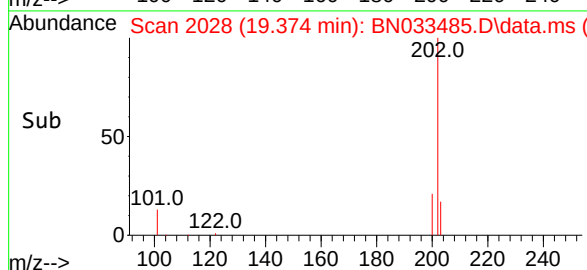
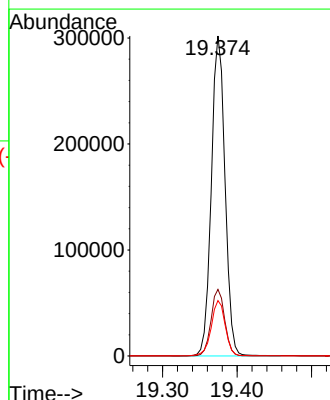
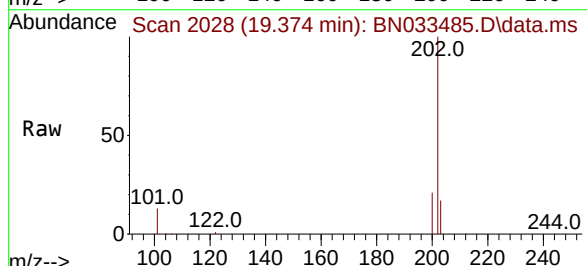
Tgt Ion:202 Resp: 384431

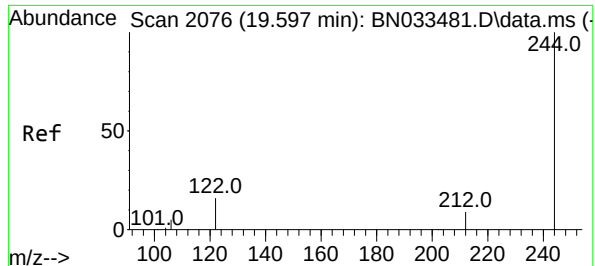
Ion Ratio Lower Upper

202 100

200 20.8 16.6 24.8

203 17.7 14.2 21.4





#31

Terphenyl-d14

Concen: 5.835 ng

RT: 19.597 min Scan# 2076

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

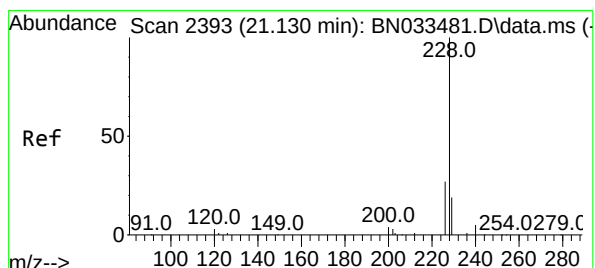
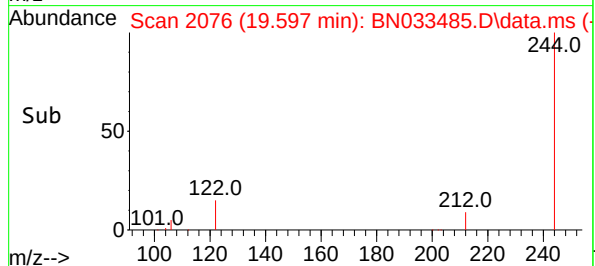
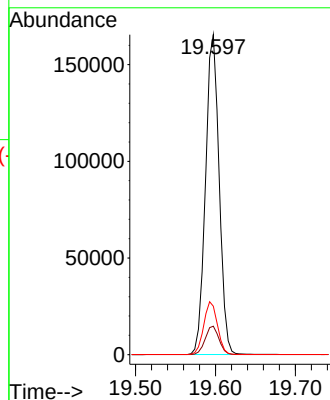
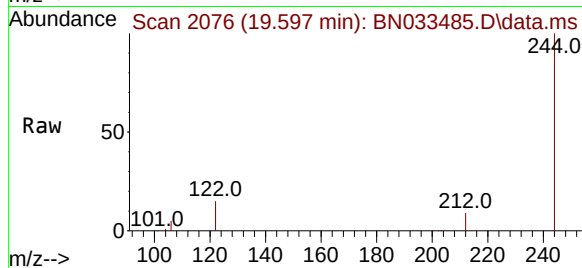
Tgt Ion:244 Resp: 195740

Ion Ratio Lower Upper

244 100

212 8.9 7.8 11.6

122 15.2 13.3 19.9



#32

Benzo(a)anthracene

Concen: 4.958 ng

RT: 21.130 min Scan# 2393

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

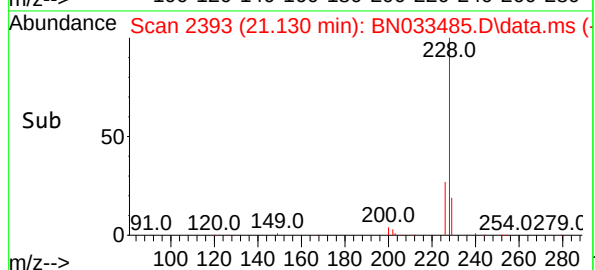
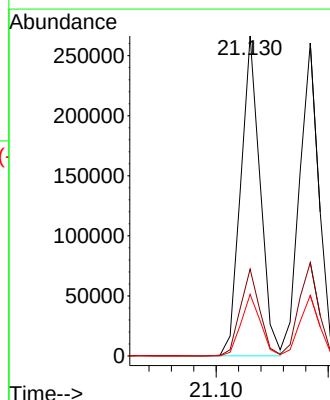
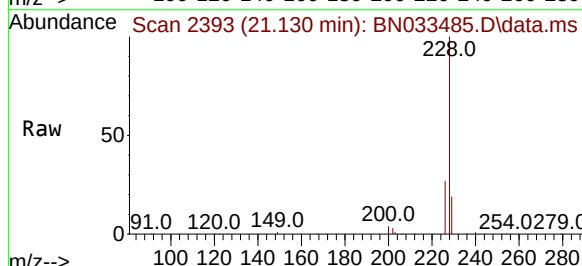
Tgt Ion:228 Resp: 320243

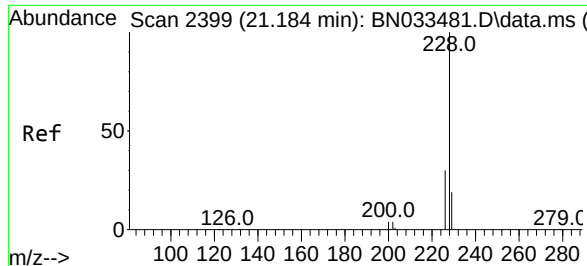
Ion Ratio Lower Upper

228 100

226 27.1 21.8 32.6

229 19.3 15.8 23.6





#33

Chrysene

Concen: 4.829 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

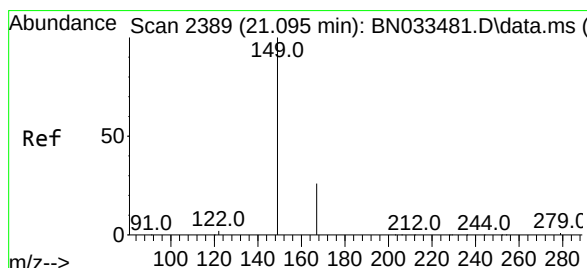
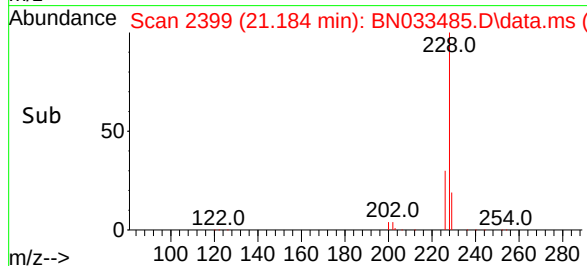
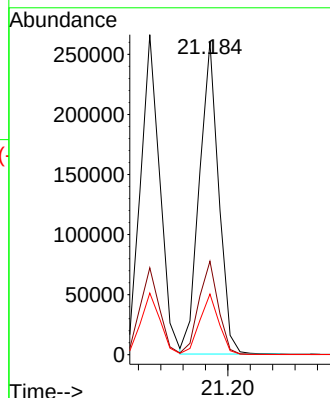
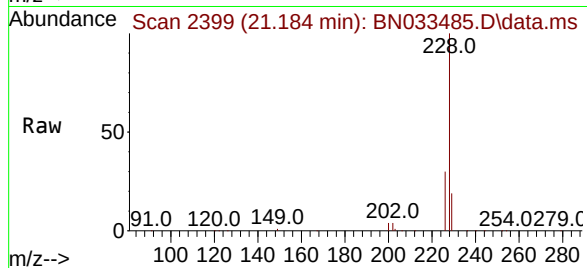
Tgt Ion:228 Resp: 311144

Ion Ratio Lower Upper

228 100

226 29.9 23.8 35.8

229 19.4 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 6.264 ng

RT: 21.094 min Scan# 2389

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

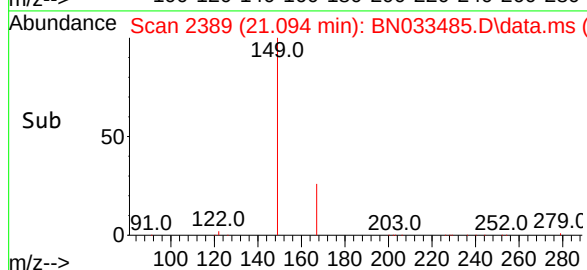
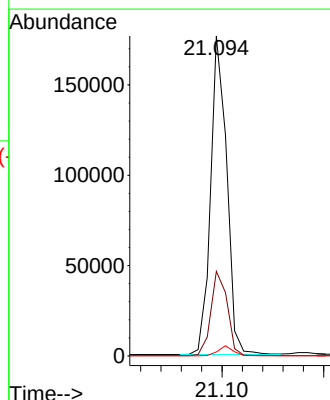
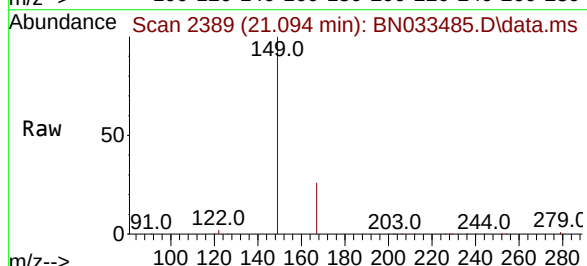
Tgt Ion:149 Resp: 193548

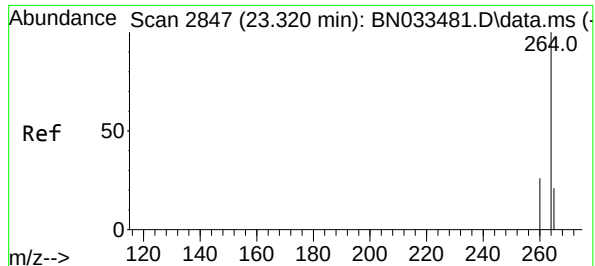
Ion Ratio Lower Upper

149 100

167 26.9 21.5 32.3

279 2.9 2.2 3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.317 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033485.D

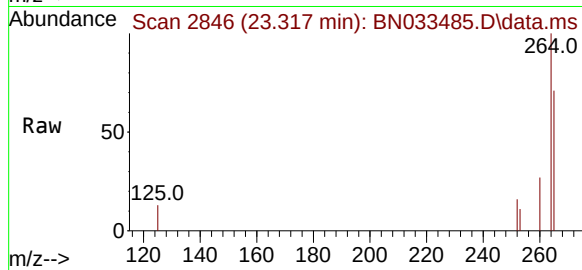
Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



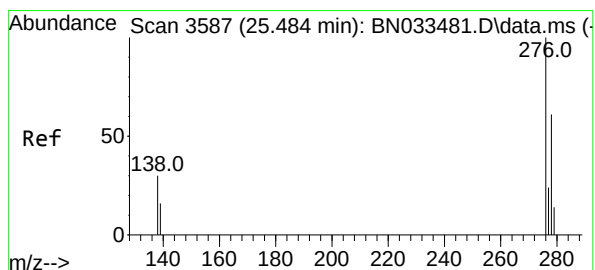
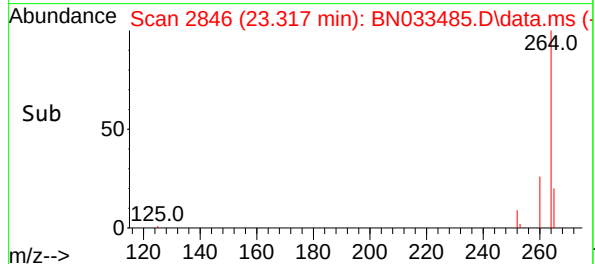
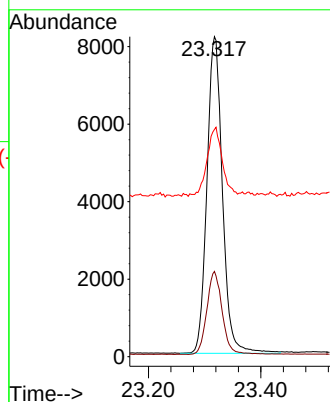
Tgt Ion:264 Resp: 15627

Ion Ratio Lower Upper

264 100

260 26.7 20.8 31.2

265 71.0 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.109 ng

RT: 25.478 min Scan# 3585

Delta R.T. -0.006 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

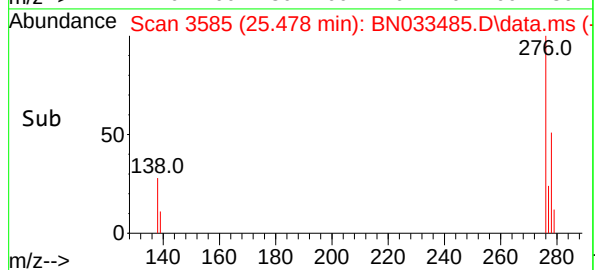
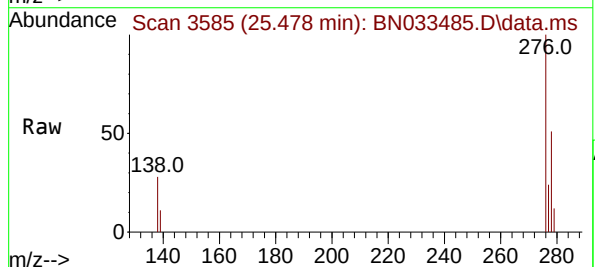
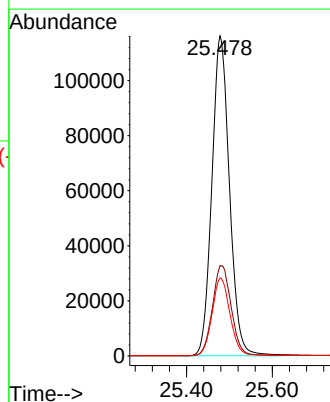
Tgt Ion:276 Resp: 330983

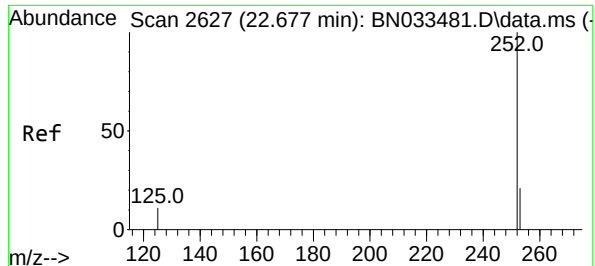
Ion Ratio Lower Upper

276 100

138 30.0 24.4 36.6

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 5.133 ng

RT: 22.674 min Scan# 2626

Delta R.T. -0.003 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

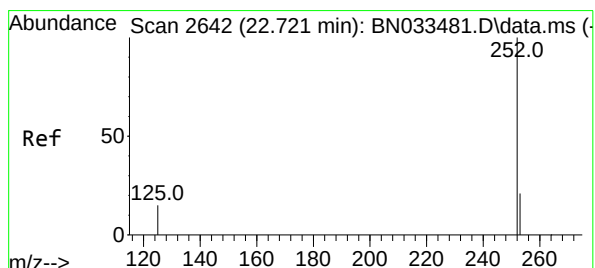
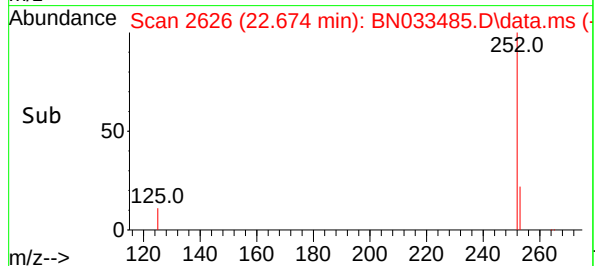
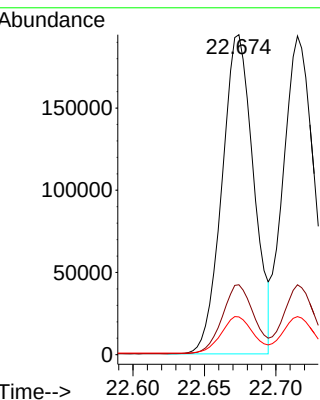
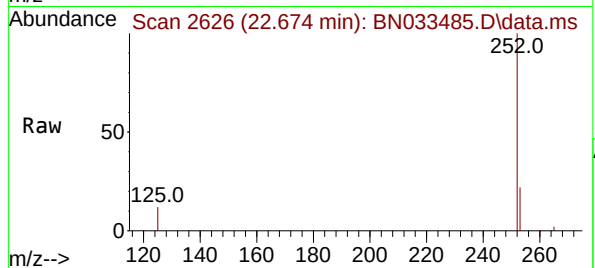
Tgt Ion:252 Resp: 299478

Ion Ratio Lower Upper

252 100

253 21.8 19.8 29.8

125 11.8 13.9 20.9#



#38

Benzo(k)fluoranthene

Concen: 4.997 ng

RT: 22.715 min Scan# 2640

Delta R.T. -0.006 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

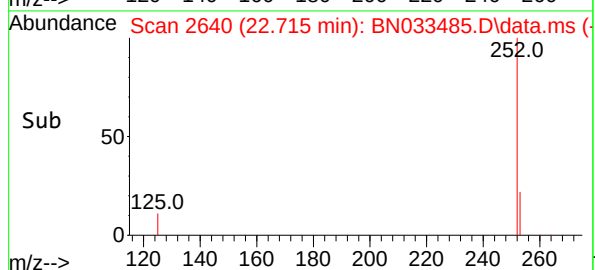
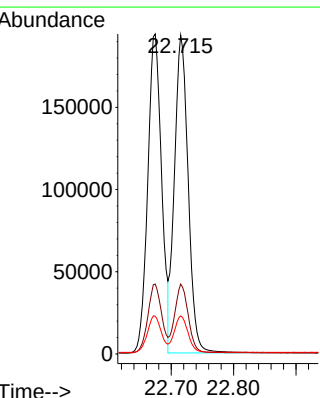
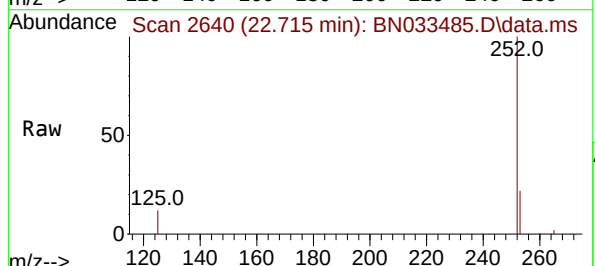
Tgt Ion:252 Resp: 295429

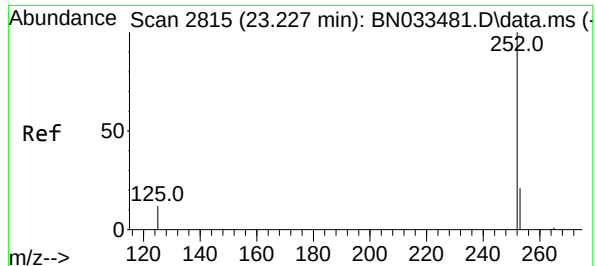
Ion Ratio Lower Upper

252 100

253 22.0 19.8 29.8

125 12.0 15.8 23.8#





#39

Benzo(a)pyrene

Concen: 5.121 ng

RT: 23.224 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033485.D

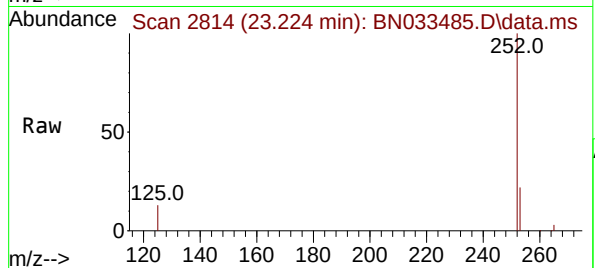
Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



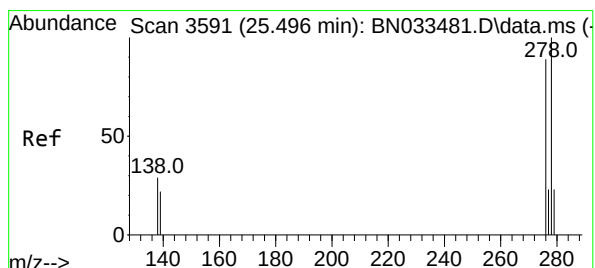
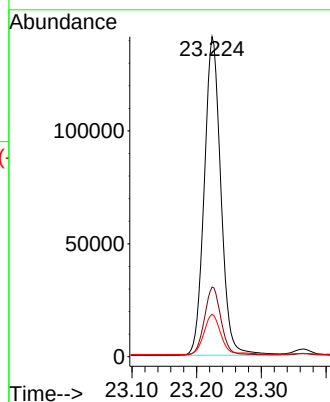
Tgt Ion:252 Resp: 251984

Ion Ratio Lower Upper

252 100

253 21.7 21.5 32.3

125 13.3 17.0 25.4#



#40

Dibenzo(a,h)anthracene

Concen: 5.151 ng

RT: 25.493 min Scan# 3590

Delta R.T. -0.003 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

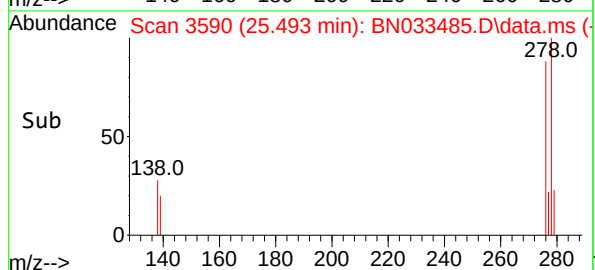
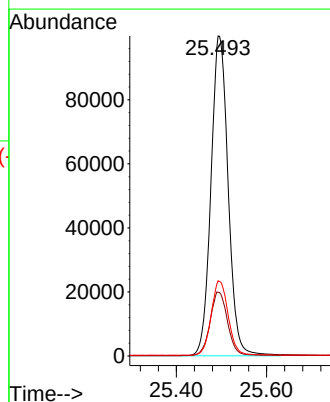
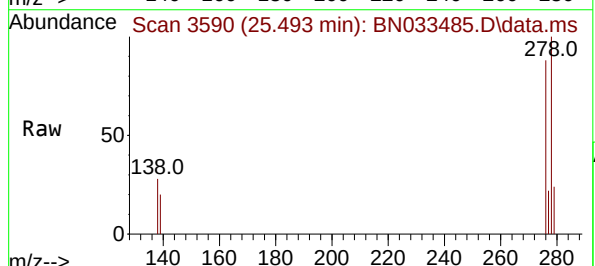
Tgt Ion:278 Resp: 264087

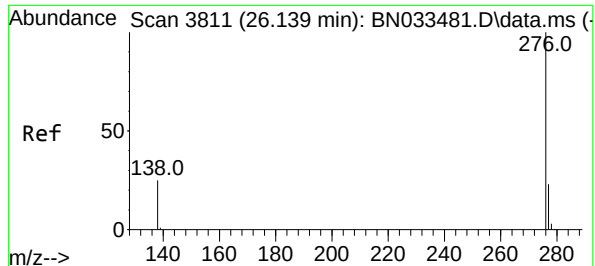
Ion Ratio Lower Upper

278 100

139 19.9 19.1 28.7

279 23.5 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 4.978 ng

RT: 26.133 min Scan# 3809

Delta R.T. -0.006 min

Lab File: BN033485.D

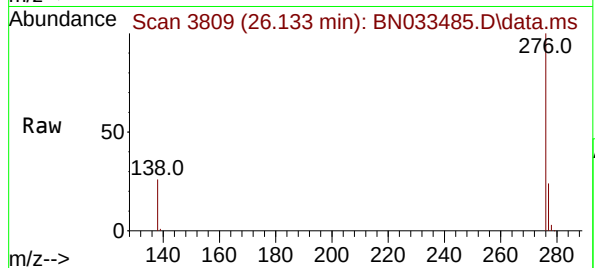
Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



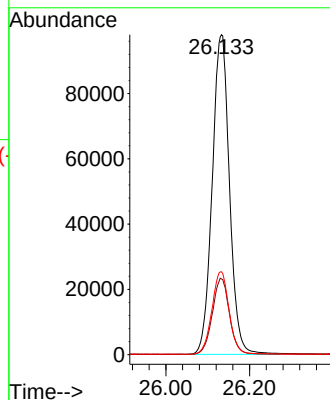
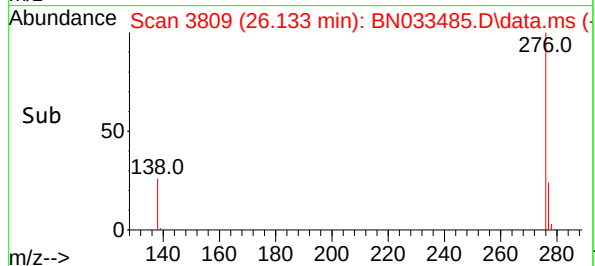
Tgt Ion:276 Resp: 280592

Ion Ratio Lower Upper

276 100

277 23.6 19.7 29.5

138 25.9 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033486.D
 Acq On : 20 Aug 2024 01:56
 Operator : MA/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN081924

Quant Time: Aug 20 02:44:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:32:18 2024
 Response via : Initial Calibration

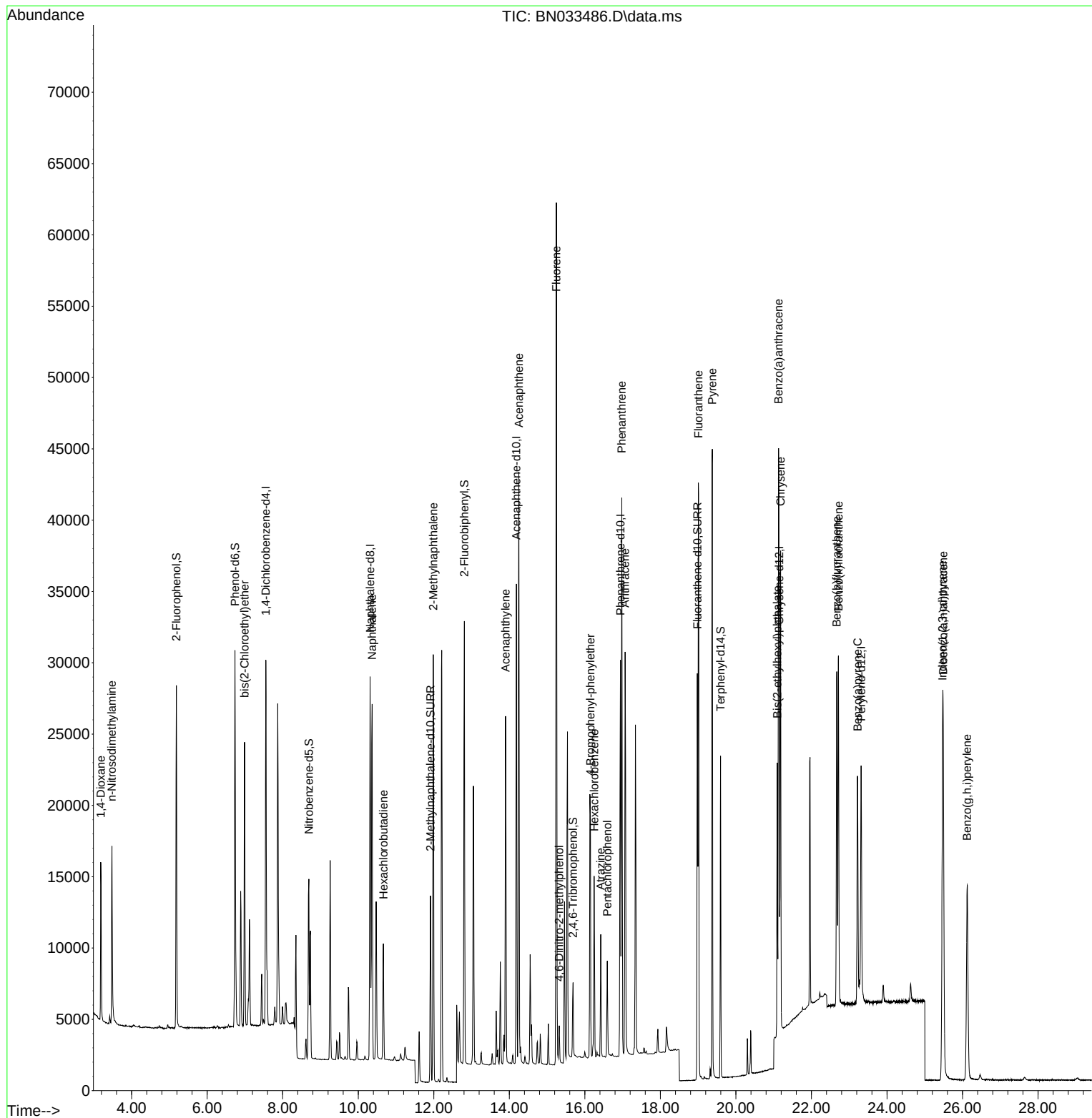
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	12026	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	33045	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	17848	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	35827	0.400	ng	0.00
29) Chrysene-d12	21.148	240	21483	0.400	ng	# 0.00
35) Perylene-d12	23.314	264	20739	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	17640	0.462	ng	0.00
5) Phenol-d6	6.736	99	22583	0.497	ng	0.00
8) Nitrobenzene-d5	8.691	82	9916	0.362	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	17348	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	3037	0.317	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	26095	0.358	ng	0.00
27) Fluoranthene-d10	18.980	212	29700	0.345	ng	0.00
31) Terphenyl-d14	19.593	244	19462	0.399	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.183	88	6628	0.479	ng	Qvalue 99
3) n-Nitrosodimethylamine	3.479	42	7119	0.442	ng	99
6) bis(2-Chloroethyl)ether	6.989	93	13027	0.404	ng	100
9) Naphthalene	10.368	128	32687	0.370	ng	99
10) Hexachlorobutadiene	10.667	225	6415	0.364	ng	# 99
12) 2-Methylnaphthalene	11.986	142	20730	0.371	ng	99
16) Acenaphthylene	13.900	152	26801	0.342	ng	100
17) Acenaphthene	14.253	154	19654	0.357	ng	99
18) Fluorene	15.247	166	24565	0.354	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	1803	0.322	ng	# 82
21) 4-Bromophenyl-phenylether	16.147	248	7966	0.366	ng	94
22) Hexachlorobenzene	16.247	284	9039	0.376	ng	99
23) Atrazine	16.420	200	5969	0.344	ng	98
24) Pentachlorophenol	16.594	266	3006	0.289	ng	98
25) Phenanthrene	16.979	178	37016	0.371	ng	100
26) Anthracene	17.066	178	31155	0.353	ng	99
28) Fluoranthene	19.007	202	38365	0.348	ng	100
30) Pyrene	19.374	202	38735	0.404	ng	100
32) Benzo(a)anthracene	21.130	228	28298	0.364	ng	99
33) Chrysene	21.184	228	28782	0.373	ng	99
34) Bis(2-ethylhexyl)phtha...	21.095	149	15827	0.322	ng	99
36) Indeno(1,2,3-cd)pyrene	25.472	276	31883	0.370	ng	99
37) Benzo(b)fluoranthene	22.671	252	27618	0.357	ng	98
38) Benzo(k)fluoranthene	22.715	252	28035	0.368	ng	99
39) Benzo(a)pyrene	23.221	252	22480	0.351	ng	97
40) Dibenzo(a,h)anthracene	25.490	278	25600	0.372	ng	99
41) Benzo(g,h,i)perylene	26.124	276	26587	0.361	ng	100

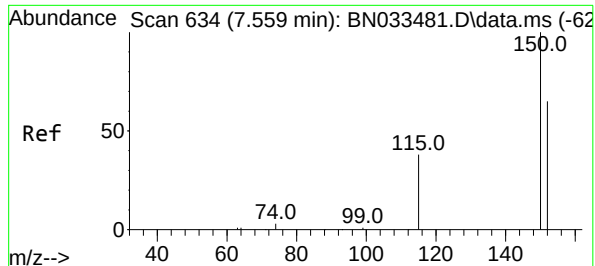
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033486.D
Acq On : 20 Aug 2024 01:56
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Quant Time: Aug 20 02:44:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

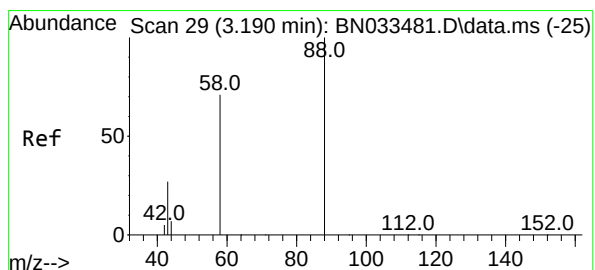
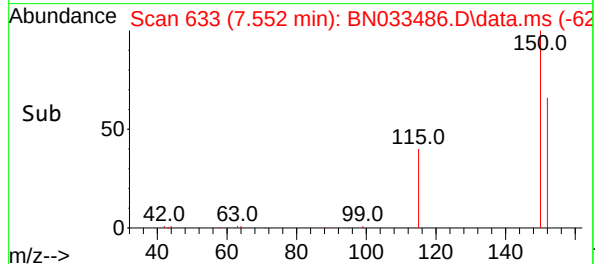
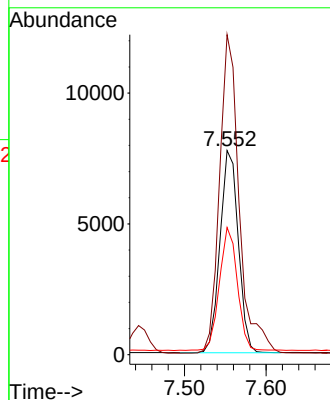
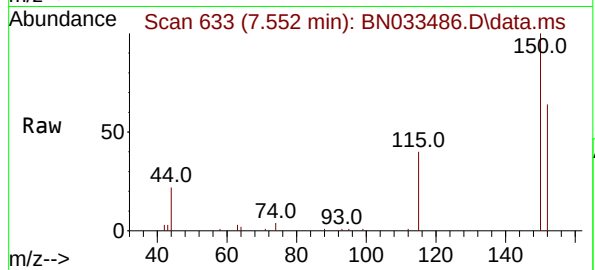




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.552 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

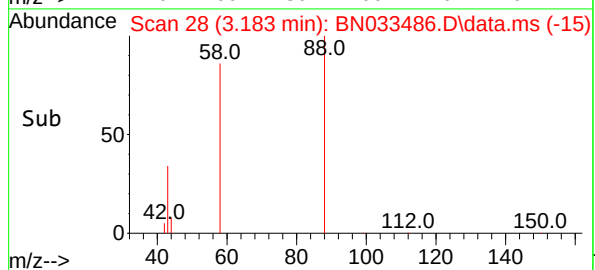
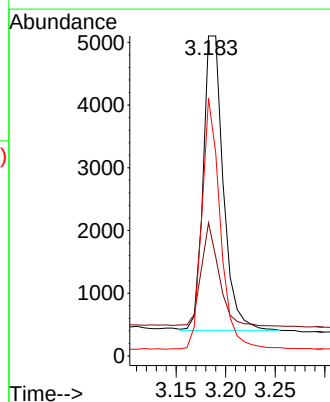
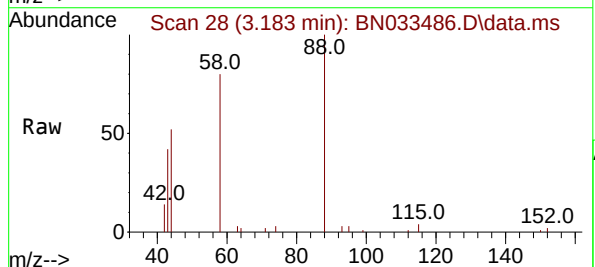
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

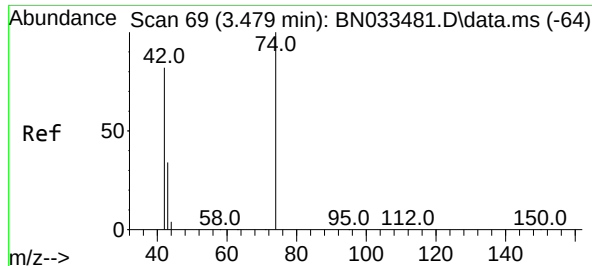
Tgt Ion:152 Resp: 12026
Ion Ratio Lower Upper
152 100
150 156.7 122.2 183.2
115 62.3 47.2 70.8



#2
1,4-Dioxane
Concen: 0.479 ng
RT: 3.183 min Scan# 28
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion: 88 Resp: 6628
Ion Ratio Lower Upper
88 100
43 30.9 25.0 37.4
58 78.5 62.5 93.7

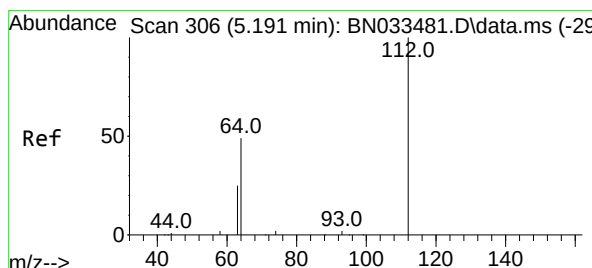
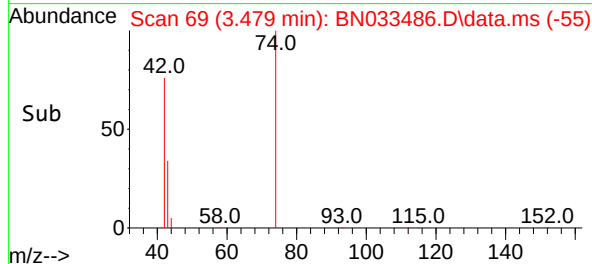
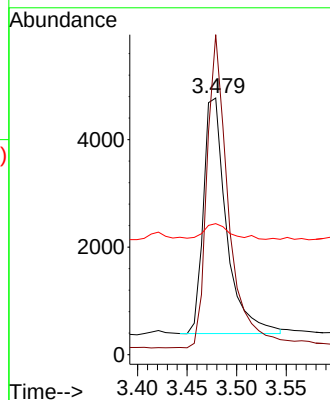
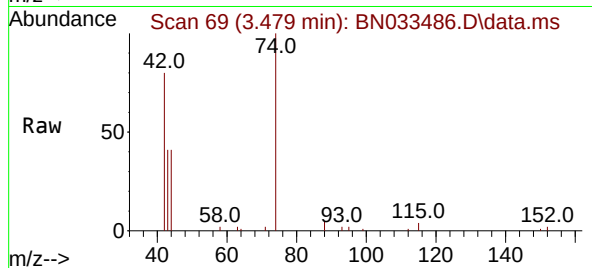




#3
n-Nitrosodimethylamine
Concen: 0.442 ng
RT: 3.479 min Scan# 69
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

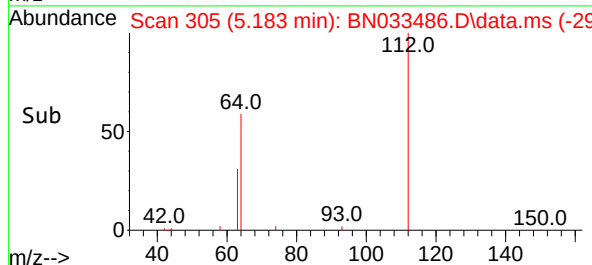
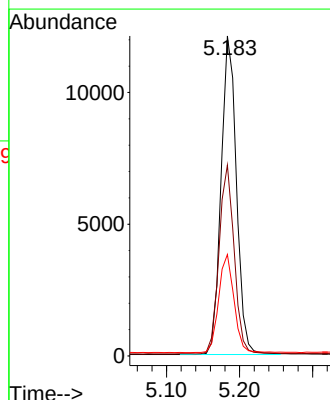
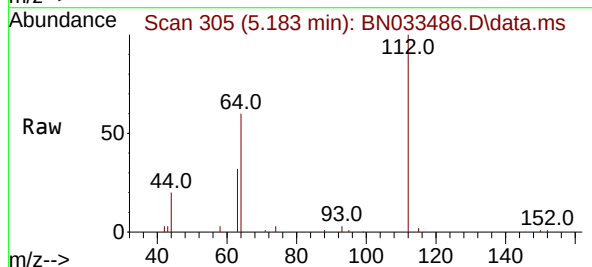
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

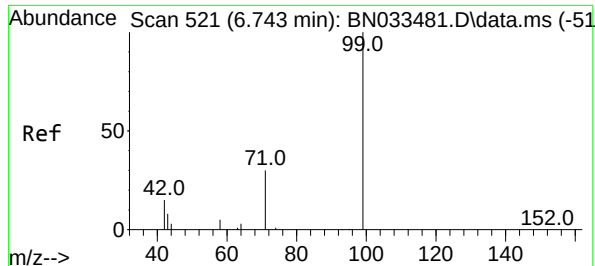
Tgt Ion: 42 Resp: 7119
Ion Ratio Lower Upper
42 100
74 123.8 100.2 150.2
44 7.5 5.3 7.9



#4
2-Fluorophenol
Concen: 0.462 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion: 112 Resp: 17640
Ion Ratio Lower Upper
112 100
64 58.4 47.1 70.7
63 30.6 24.9 37.3

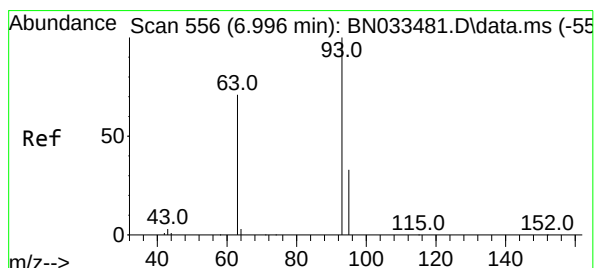
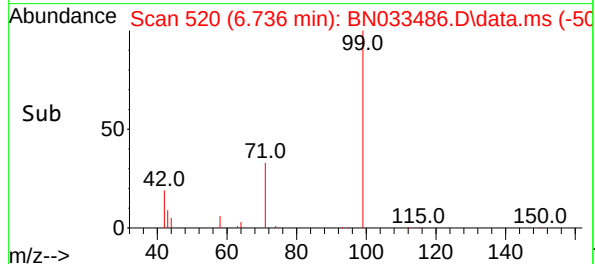
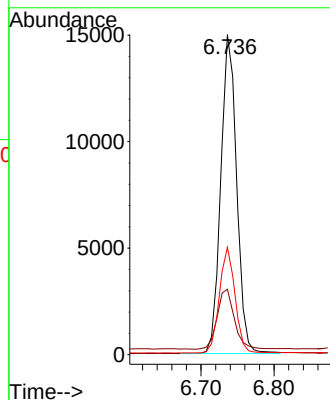
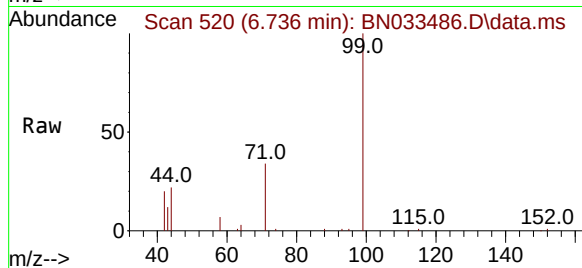




#5
Phenol-d6
Concen: 0.497 ng
RT: 6.736 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

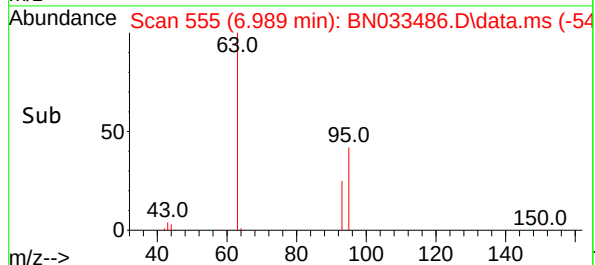
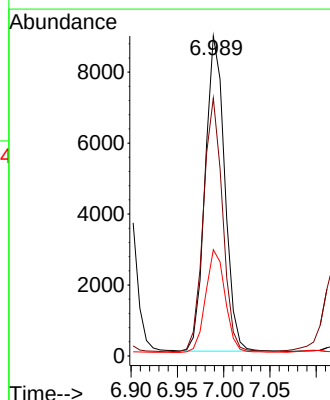
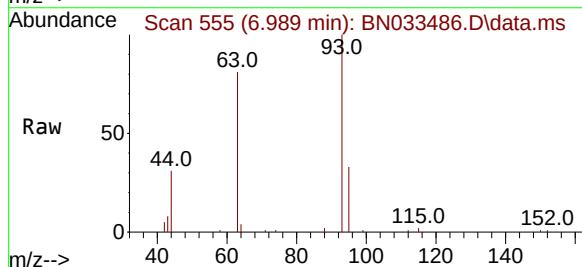
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

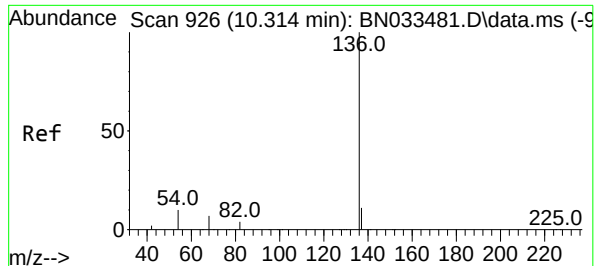
Tgt Ion: 99 Resp: 22583
Ion Ratio Lower Upper
99 100
42 20.4 16.6 24.8
71 32.6 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion: 93 Resp: 13027
Ion Ratio Lower Upper
93 100
63 78.8 63.0 94.4
95 32.6 26.0 39.0

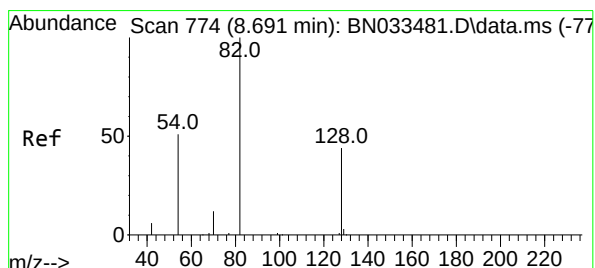
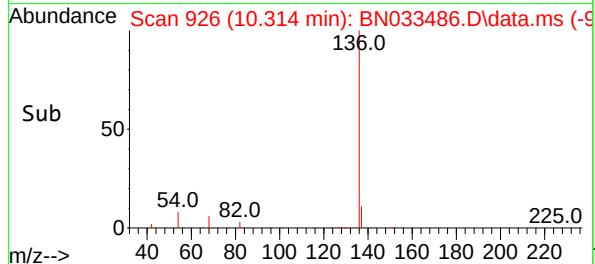
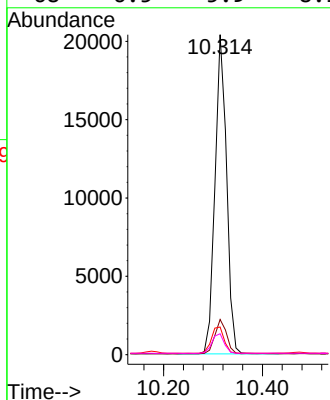
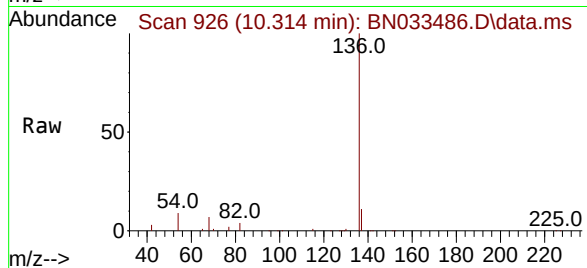




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

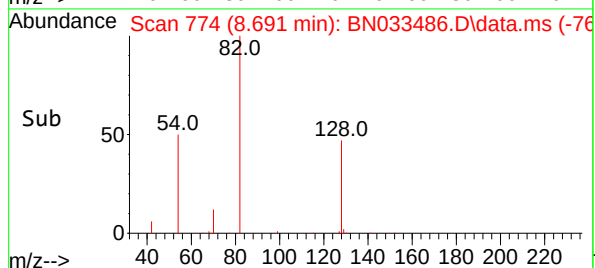
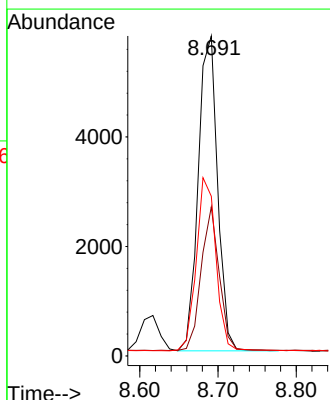
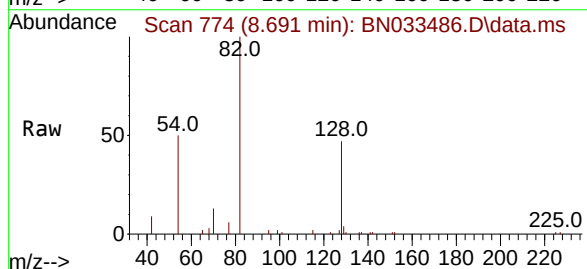
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

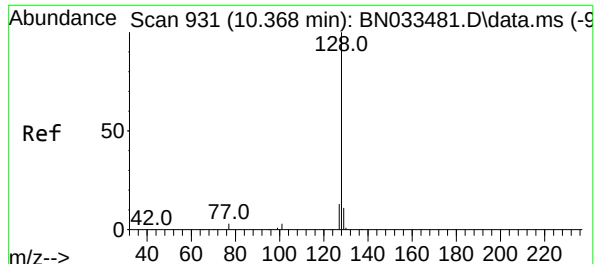
Tgt Ion:	136	Resp:	33045
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.6
54	8.6	8.3	12.5
68	6.5	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:	82	Resp:	9916
Ion	Ratio	Lower	Upper
82	100		
128	46.6	36.0	54.0
54	49.9	42.0	63.0

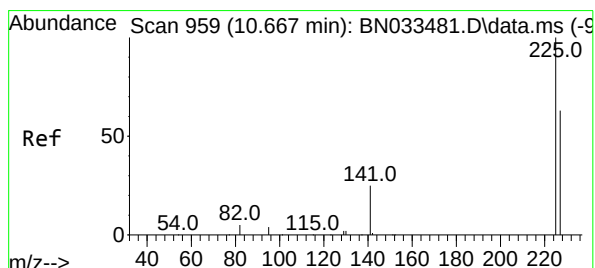
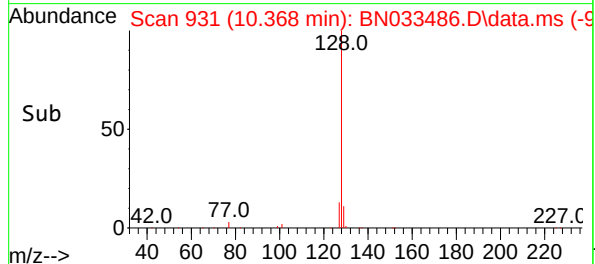
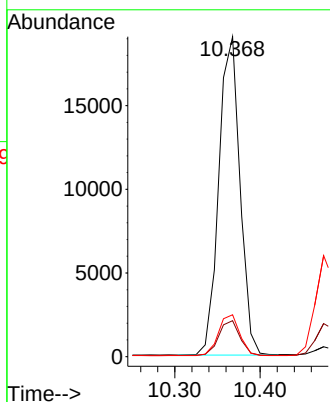
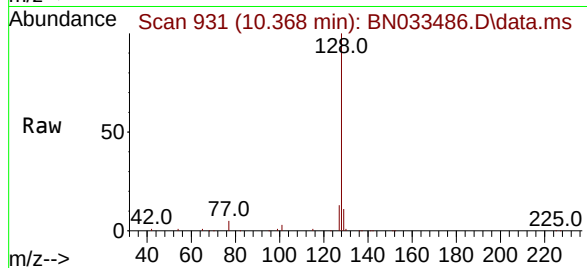




#9
Naphthalene
Concen: 0.370 ng
RT: 10.368 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

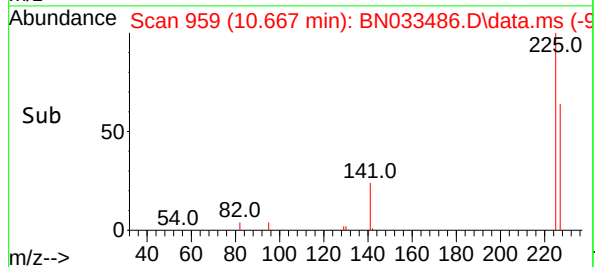
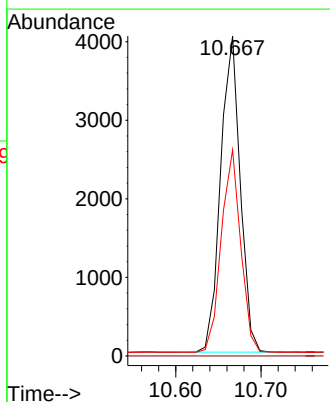
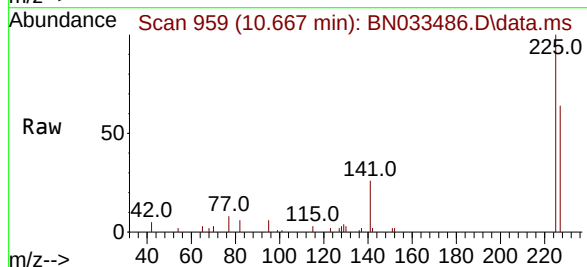
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

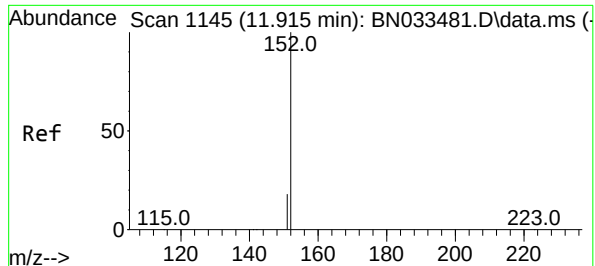
Tgt Ion:128 Resp: 32687
Ion Ratio Lower Upper
128 100
129 11.3 9.1 13.7
127 13.1 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.364 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:225 Resp: 6415
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 51.2 76.8

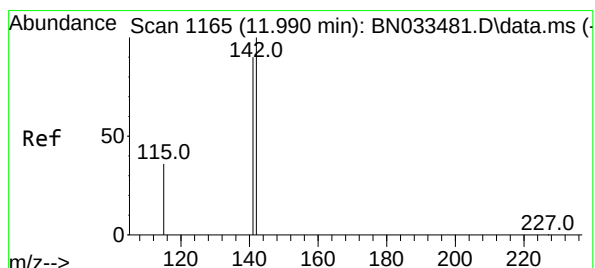
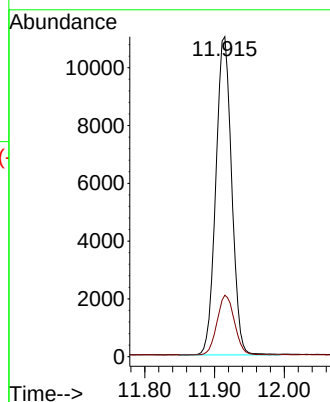
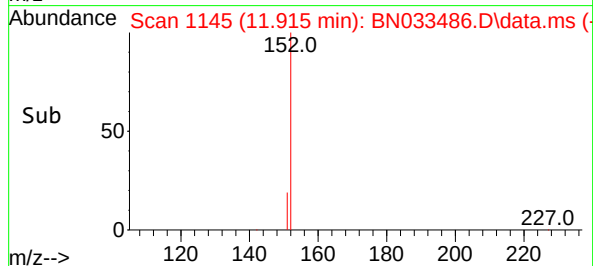
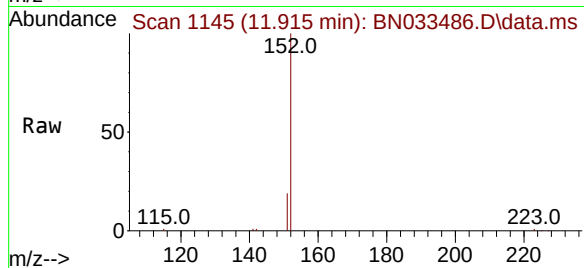




#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.915 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

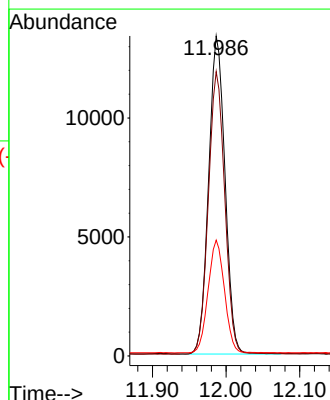
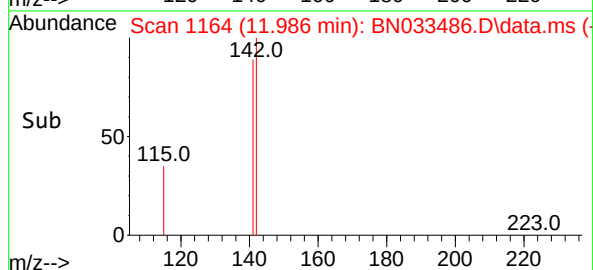
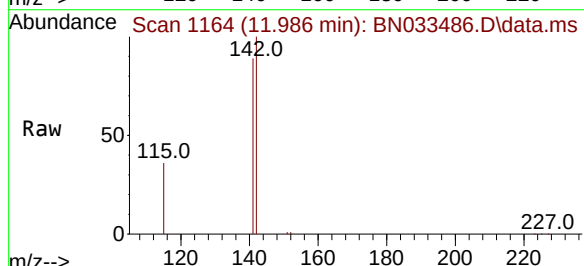
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

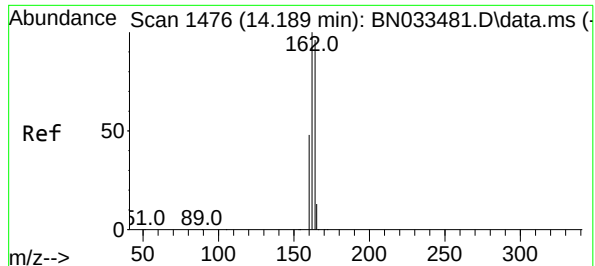
Tgt Ion:152 Resp: 17348
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.986 min Scan# 1164
Delta R.T. -0.004 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:142 Resp: 20730
Ion Ratio Lower Upper
142 100
141 88.9 71.7 107.5
115 36.2 29.4 44.2

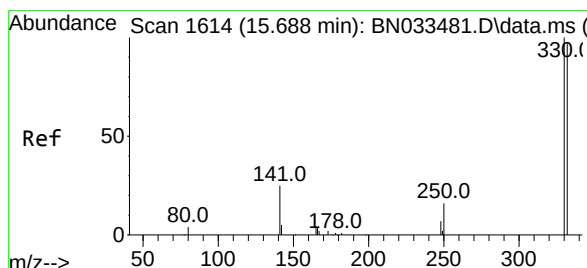
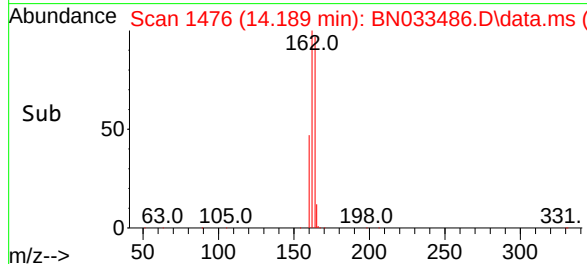
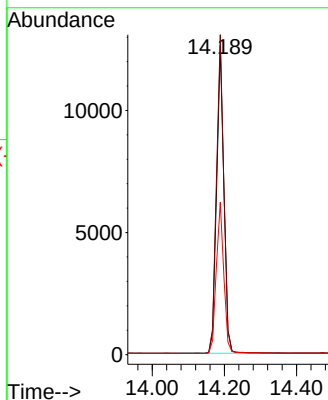
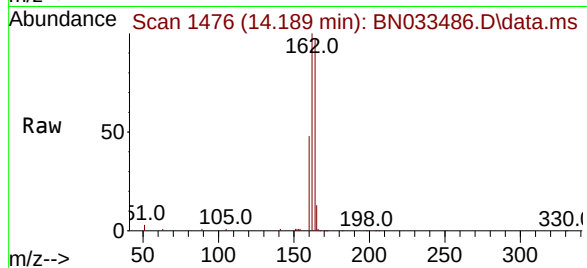




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

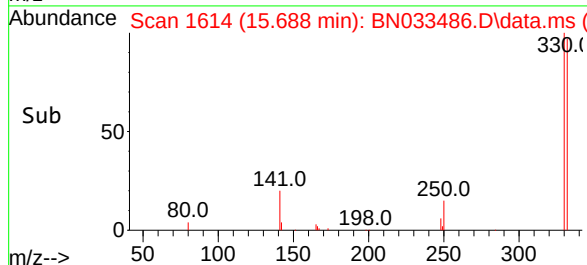
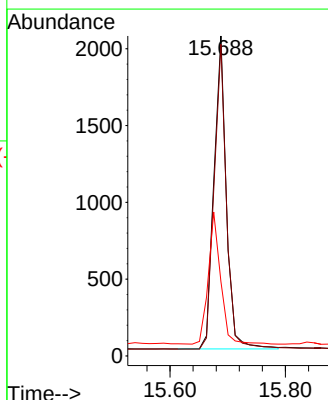
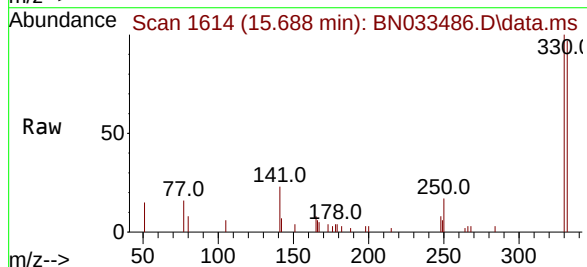
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

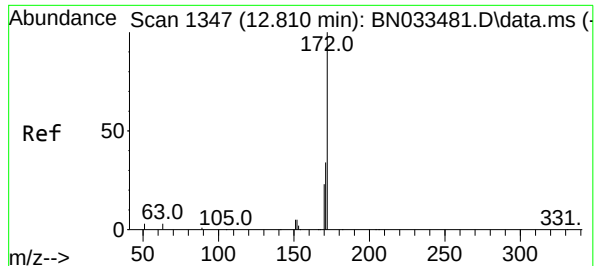
Tgt Ion:164 Resp: 17848
Ion Ratio Lower Upper
164 100
162 103.5 83.5 125.3
160 49.3 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:330 Resp: 3037
Ion Ratio Lower Upper
330 100
332 96.9 77.5 116.3
141 41.8 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 0.358 ng

RT: 12.810 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

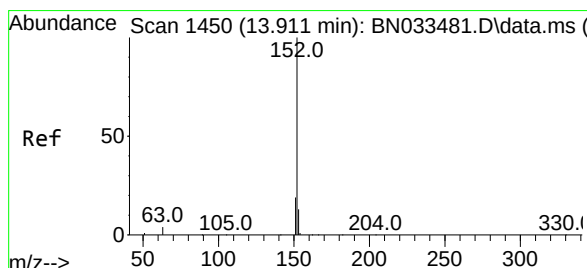
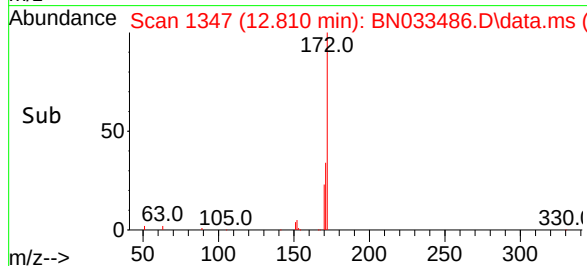
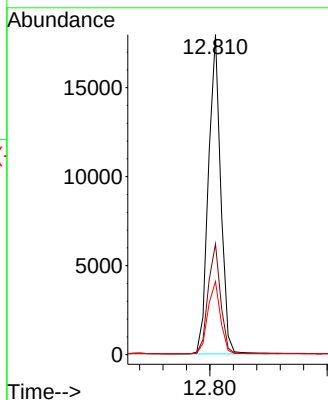
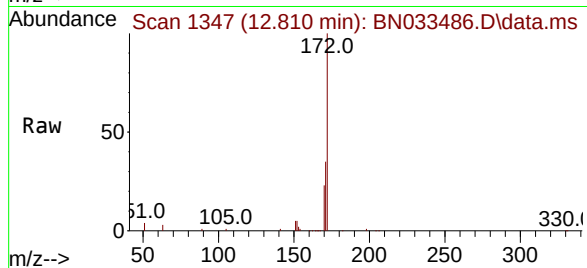
Tgt Ion:172 Resp: 26095

Ion Ratio Lower Upper

172 100

171 34.6 27.7 41.5

170 22.8 18.3 27.5



#16

Acenaphthylene

Concen: 0.342 ng

RT: 13.900 min Scan# 1449

Delta R.T. -0.011 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

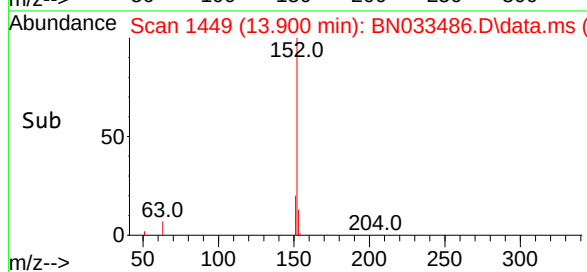
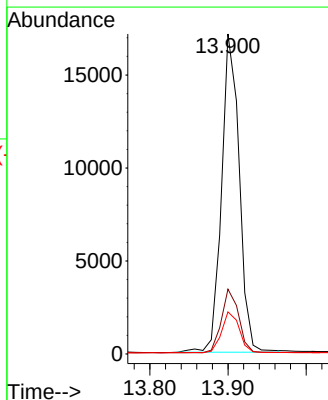
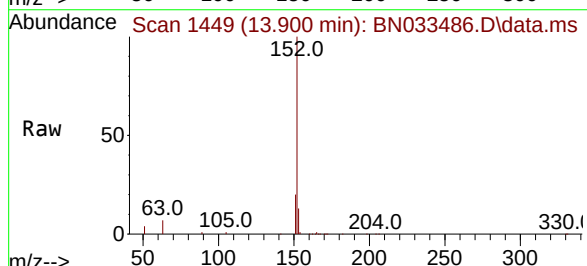
Tgt Ion:152 Resp: 26801

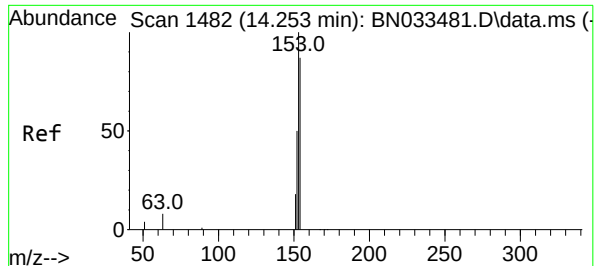
Ion Ratio Lower Upper

152 100

151 19.5 15.7 23.5

153 12.8 10.3 15.5





#17

Acenaphthene

Concen: 0.357 ng

RT: 14.253 min Scan# 1482

Delta R.T. -0.000 min

Lab File: BN033486.D

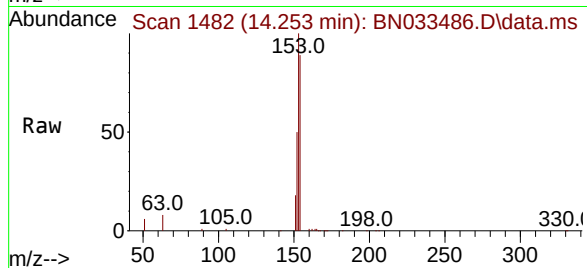
Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924



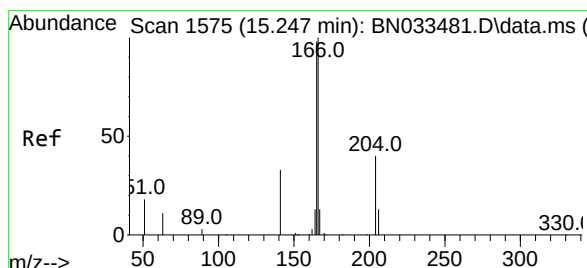
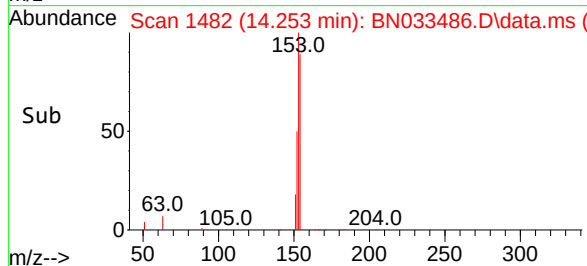
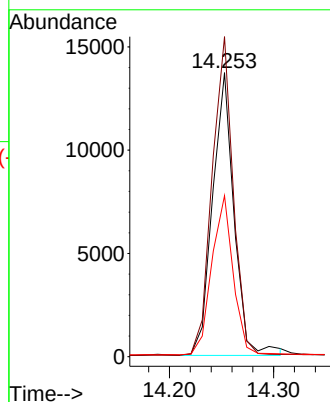
Tgt Ion:154 Resp: 19654

Ion Ratio Lower Upper

154 100

153 110.4 89.0 133.6

152 55.9 45.2 67.8



#18

Fluorene

Concen: 0.354 ng

RT: 15.247 min Scan# 1575

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

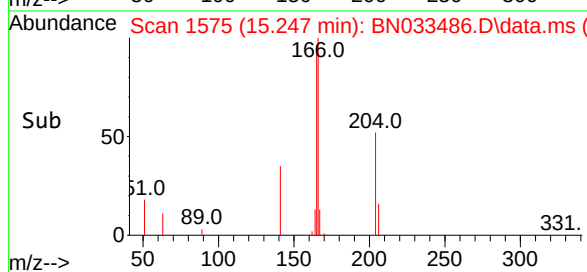
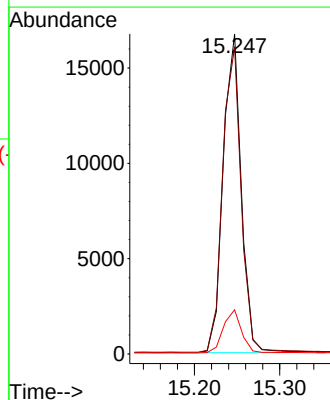
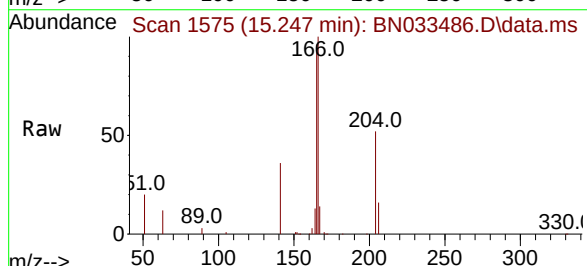
Tgt Ion:166 Resp: 24565

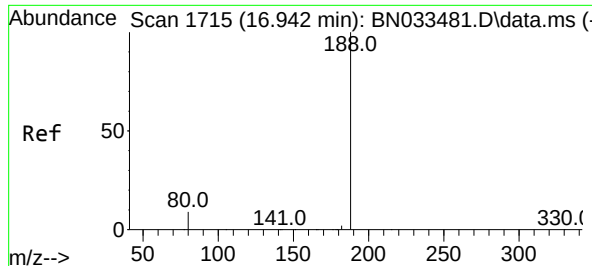
Ion Ratio Lower Upper

166 100

165 97.9 78.2 117.4

167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

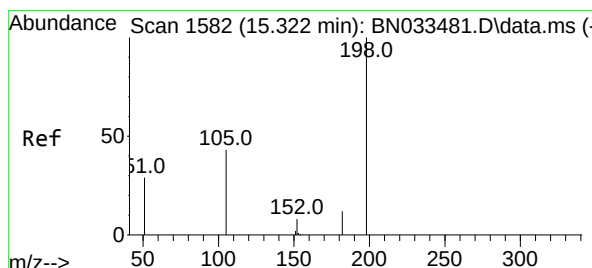
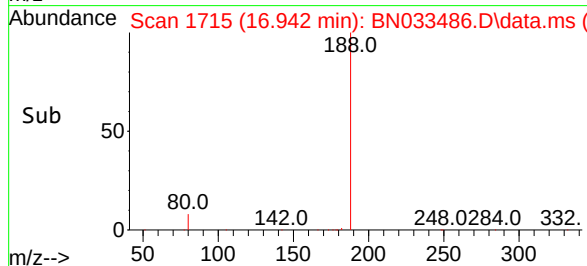
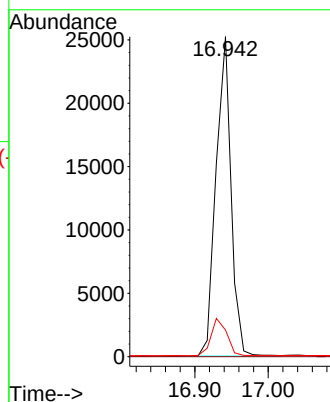
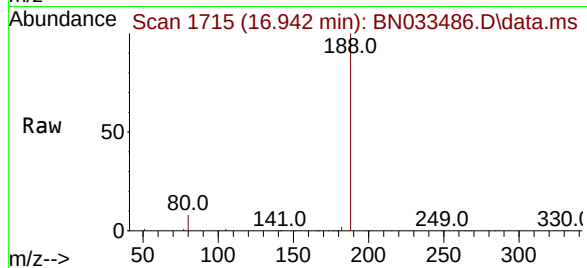
Tgt Ion:188 Resp: 35827

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.4 7.8 11.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.322 ng

RT: 15.322 min Scan# 1582

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

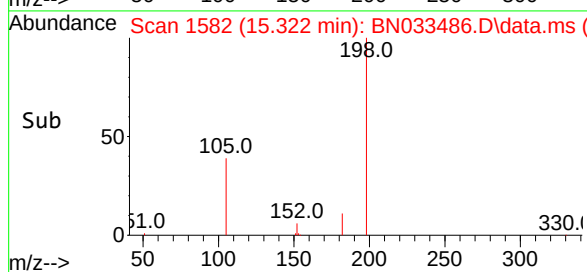
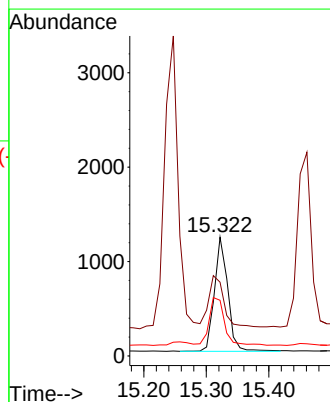
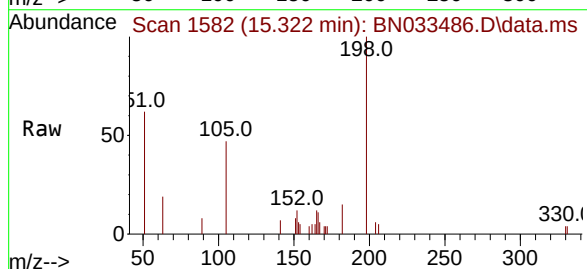
Tgt Ion:198 Resp: 1803

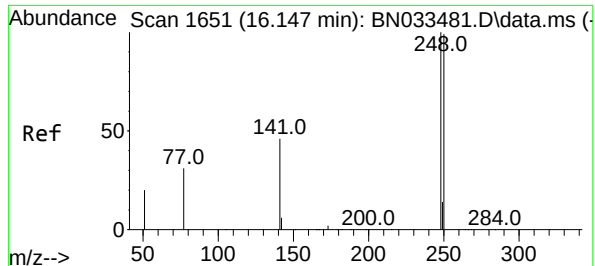
Ion Ratio Lower Upper

198 100

51 62.1 65.1 97.7#

105 46.9 44.8 67.2





#21

4-Bromophenyl-phenylether

Concen: 0.366 ng

RT: 16.147 min Scan# 1651

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

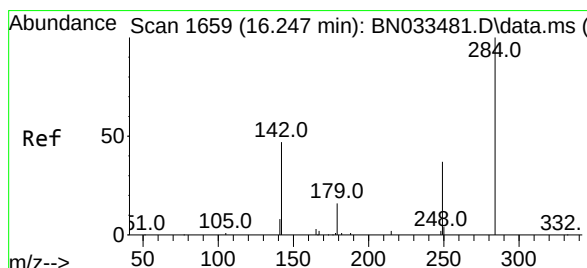
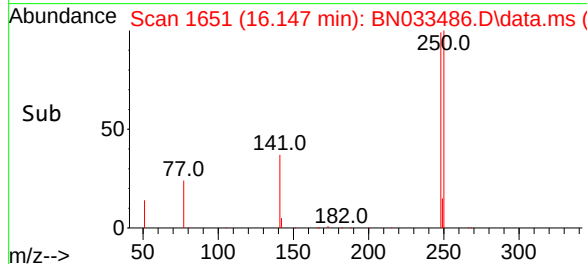
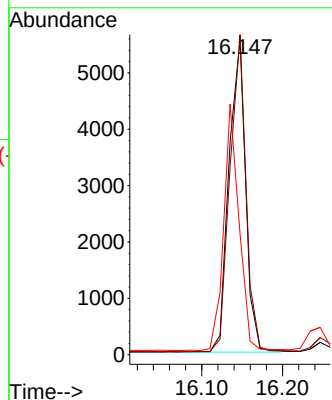
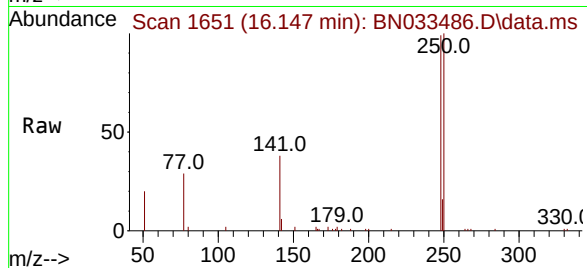
Tgt Ion:248 Resp: 7966

Ion Ratio Lower Upper

248 100

250 101.5 79.2 118.8

141 38.3 37.9 56.9



#22

Hexachlorobenzene

Concen: 0.376 ng

RT: 16.247 min Scan# 1659

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

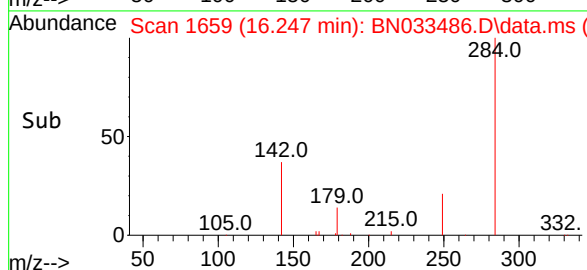
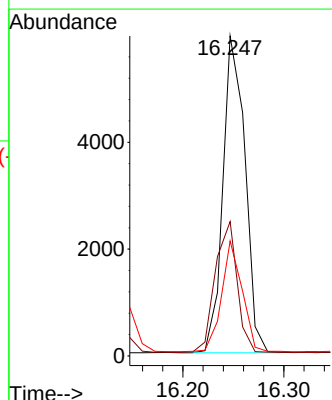
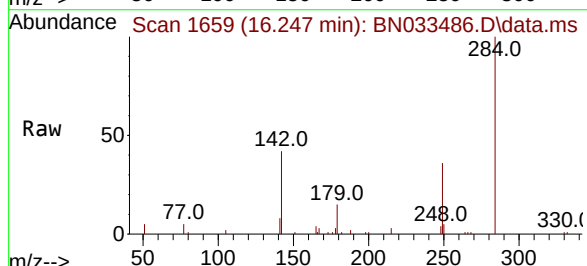
Tgt Ion:284 Resp: 9039

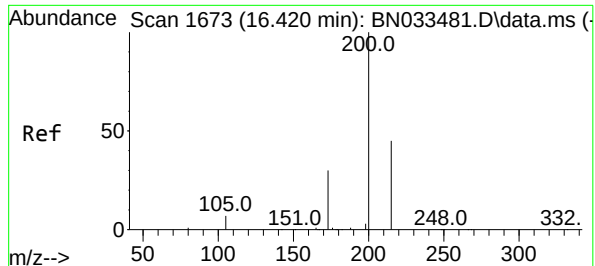
Ion Ratio Lower Upper

284 100

142 40.7 31.8 47.6

249 32.2 26.0 39.0





#23

Atrazine

Concen: 0.344 ng

RT: 16.420 min Scan# 1673

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

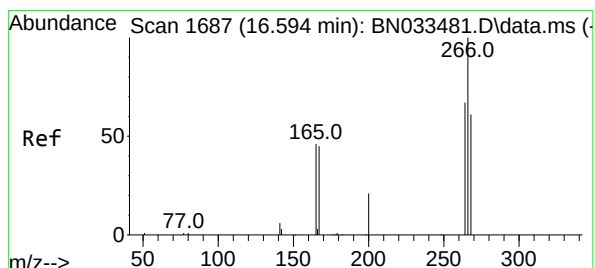
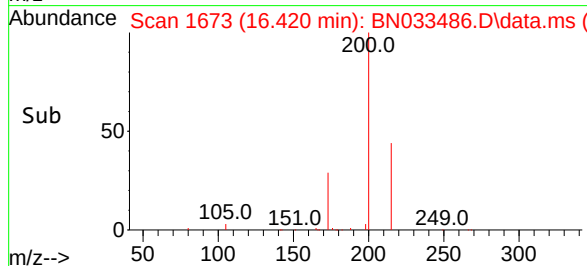
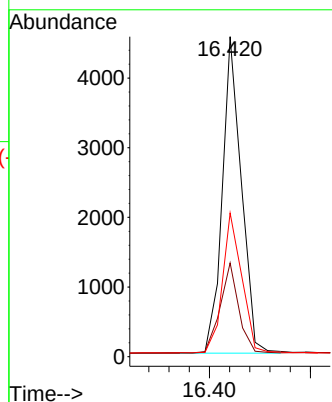
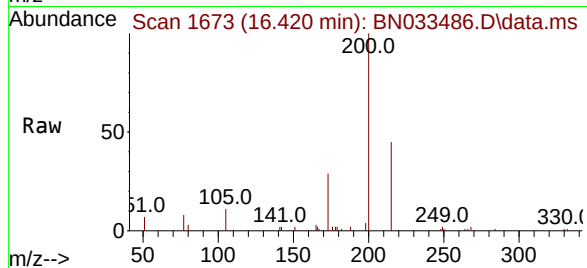
Tgt Ion:200 Resp: 5969

Ion Ratio Lower Upper

200 100

173 29.3 25.3 37.9

215 44.9 36.6 54.8



#24

Pentachlorophenol

Concen: 0.289 ng

RT: 16.594 min Scan# 1687

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

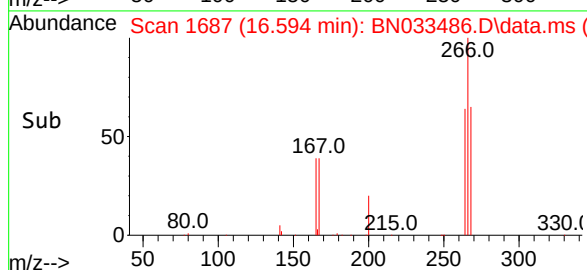
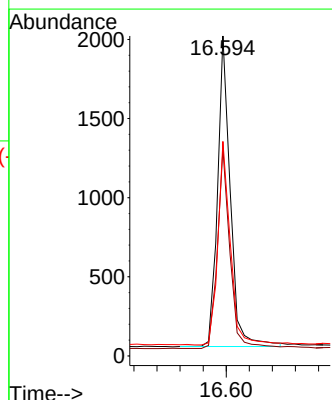
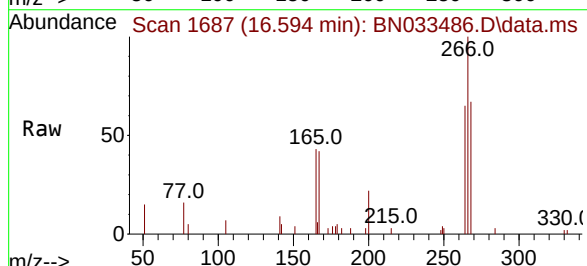
Tgt Ion:266 Resp: 3006

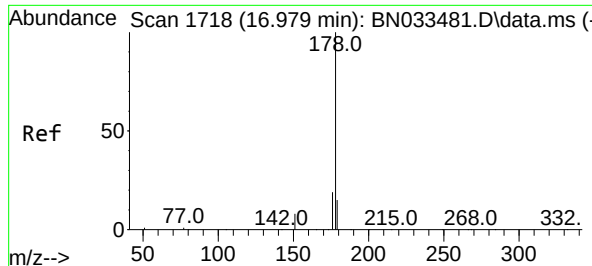
Ion Ratio Lower Upper

266 100

264 63.2 51.9 77.9

268 64.5 51.0 76.4

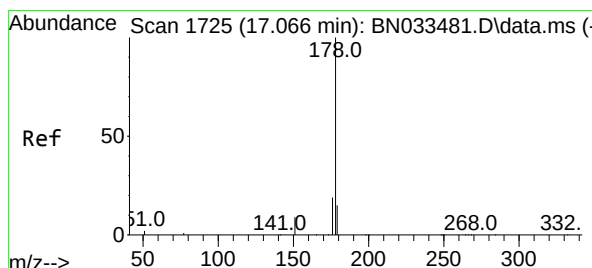
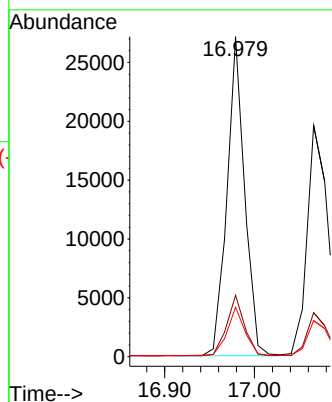
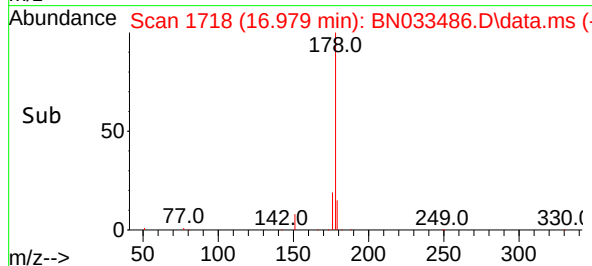
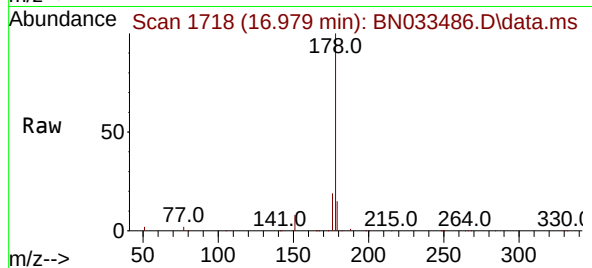




#25
Phenanthrene
Concen: 0.371 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

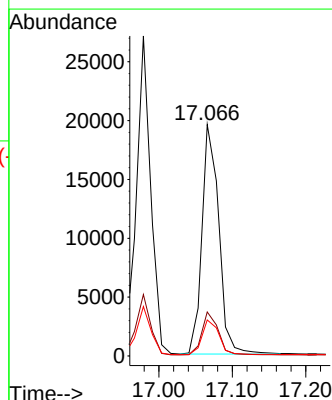
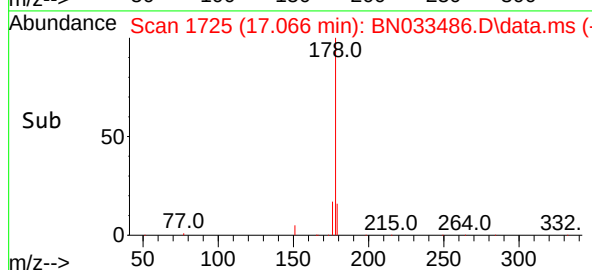
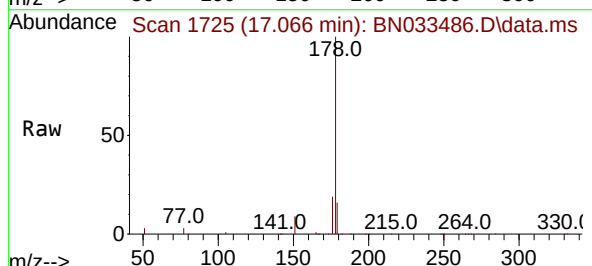
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

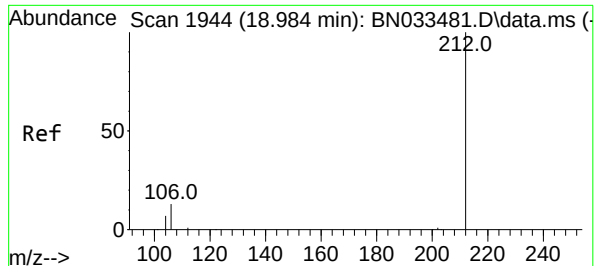
Tgt Ion:178 Resp: 37016
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.2 12.3 18.5



#26
Anthracene
Concen: 0.353 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:178 Resp: 31155
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.345 ng

RT: 18.980 min Scan# 1943

Delta R.T. -0.005 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

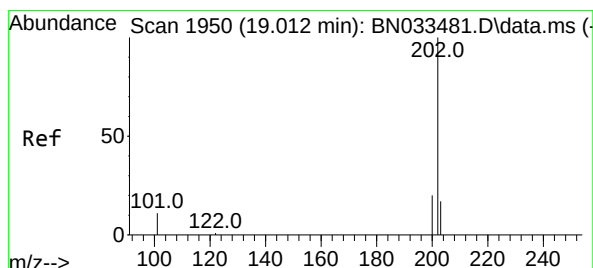
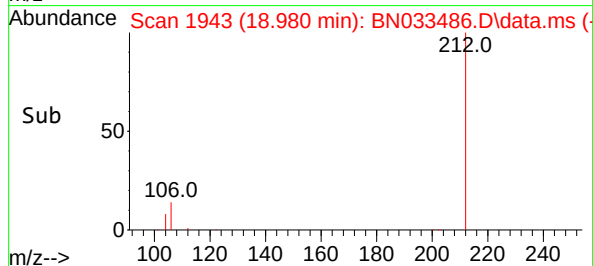
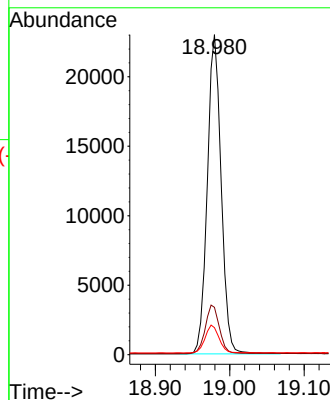
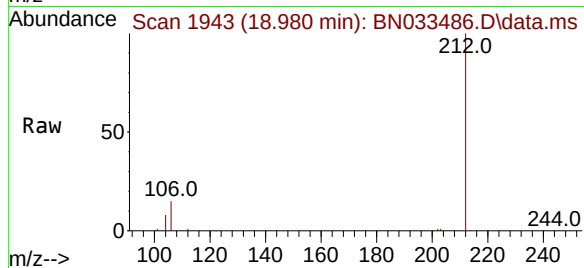
Tgt Ion:212 Resp: 29700

Ion Ratio Lower Upper

212 100

106 15.4 12.3 18.5

104 8.8 7.0 10.4



#28

Fluoranthene

Concen: 0.348 ng

RT: 19.007 min Scan# 1949

Delta R.T. -0.005 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

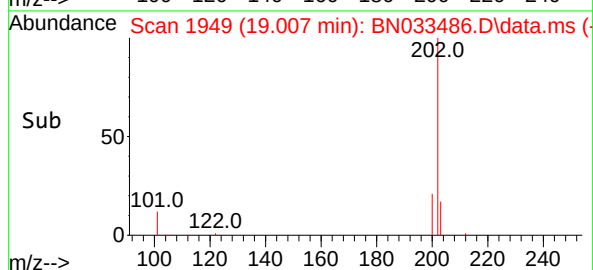
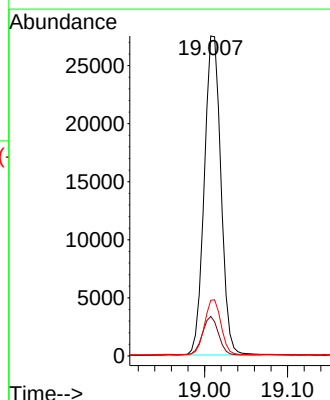
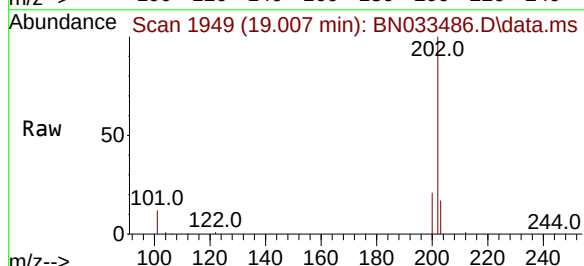
Tgt Ion:202 Resp: 38365

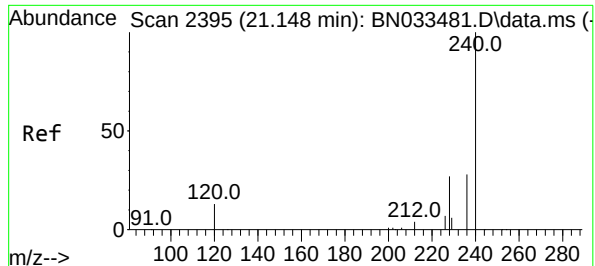
Ion Ratio Lower Upper

202 100

101 12.0 9.5 14.3

203 17.1 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

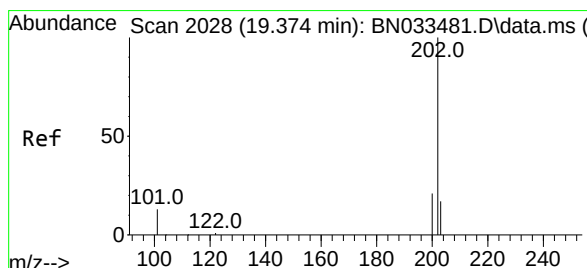
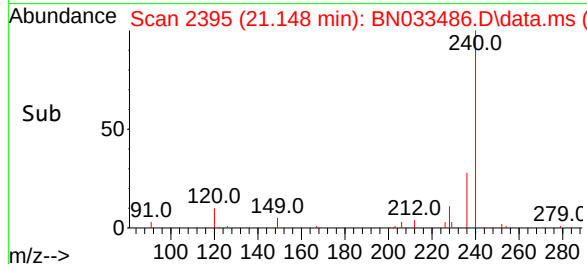
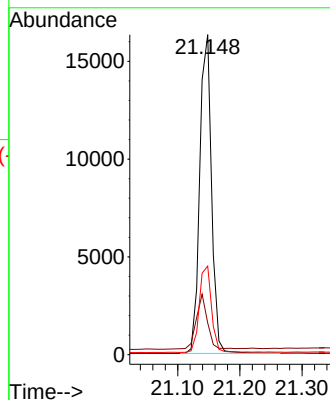
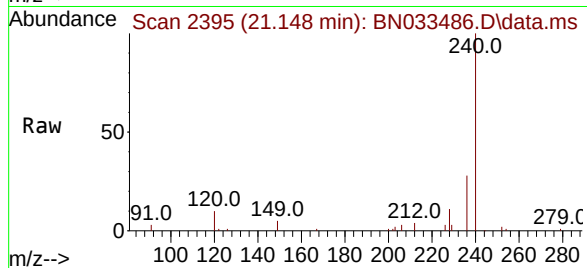
Tgt Ion:240 Resp: 21483

Ion Ratio Lower Upper

240 100

120 9.9 12.4 18.6#

236 27.7 23.0 34.6



#30

Pyrene

Concen: 0.404 ng

RT: 19.374 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

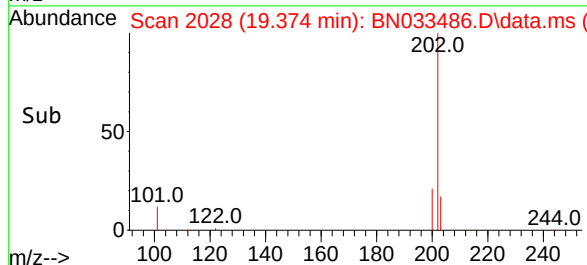
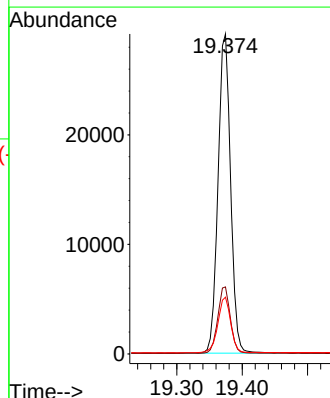
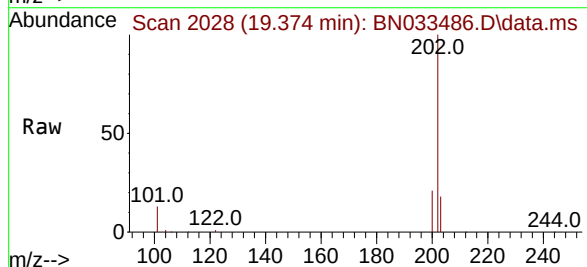
Tgt Ion:202 Resp: 38735

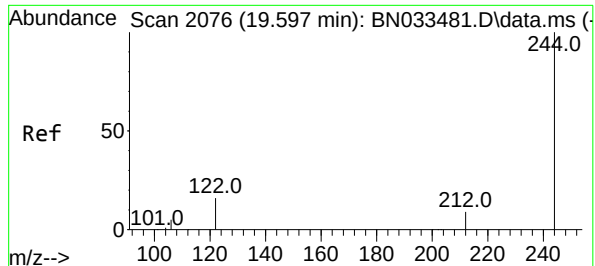
Ion Ratio Lower Upper

202 100

200 20.7 16.6 24.8

203 18.0 14.2 21.4

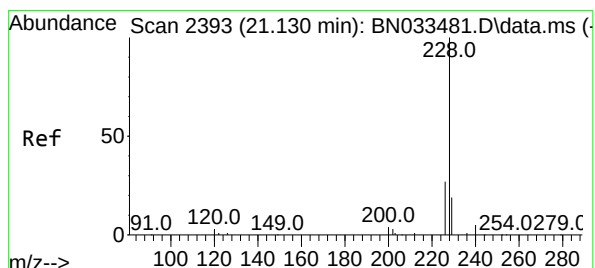
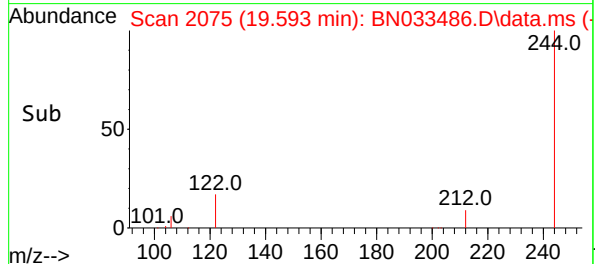
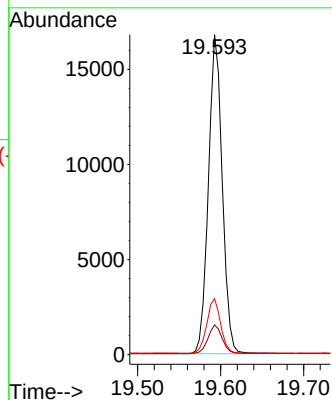
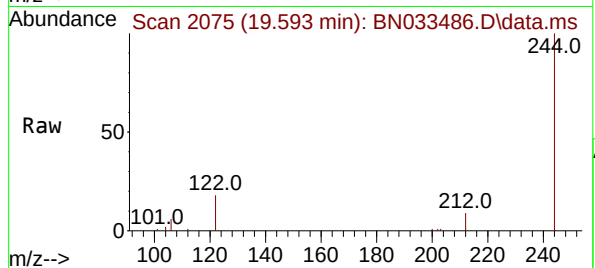




#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.593 min Scan# 2075
Delta R.T. -0.005 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

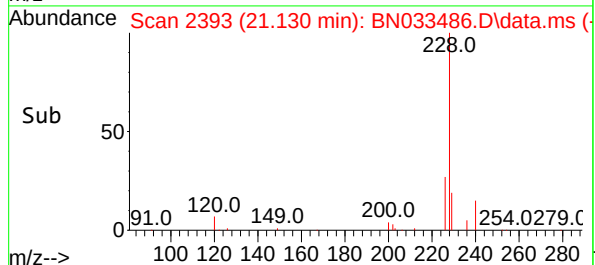
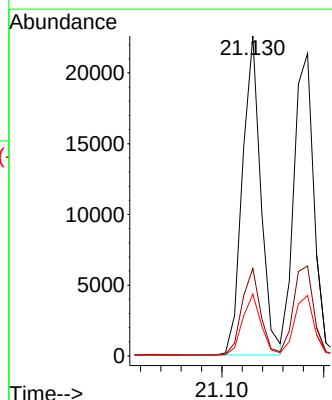
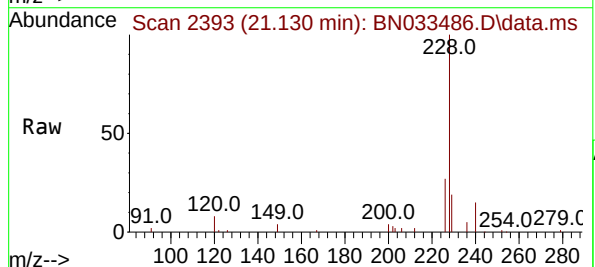
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

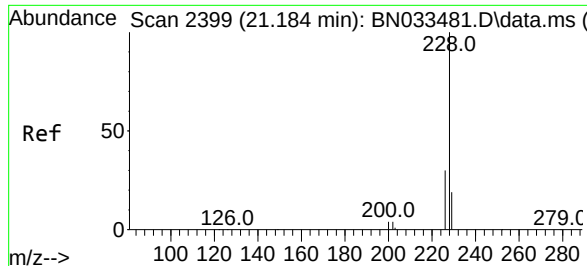
Tgt Ion:244 Resp: 19462
Ion Ratio Lower Upper
244 100
212 9.3 7.8 11.6
122 17.5 13.3 19.9



#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:228 Resp: 28298
Ion Ratio Lower Upper
228 100
226 27.4 21.8 32.6
229 19.3 15.8 23.6





#33

Chrysene

Concen: 0.373 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

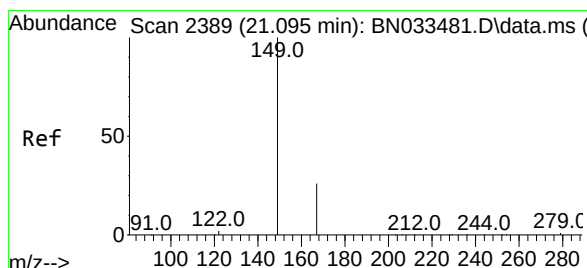
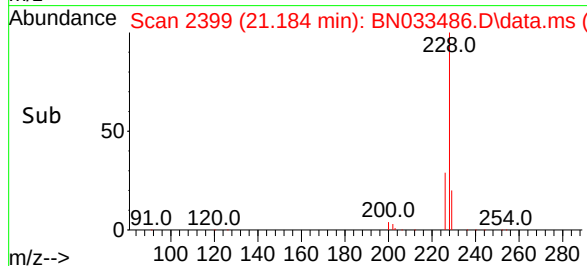
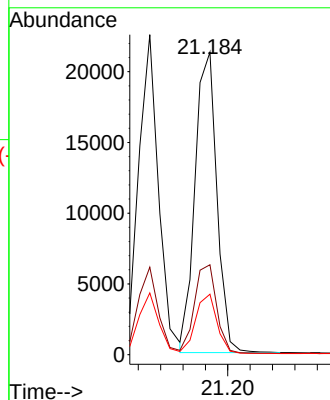
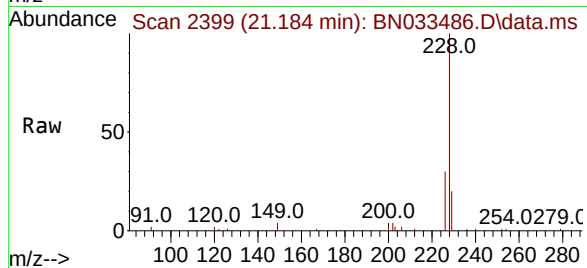
Tgt Ion:228 Resp: 28782

Ion Ratio Lower Upper

228 100

226 29.7 23.8 35.8

229 20.0 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.322 ng

RT: 21.095 min Scan# 2389

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

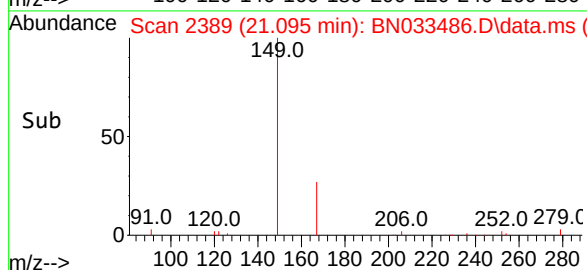
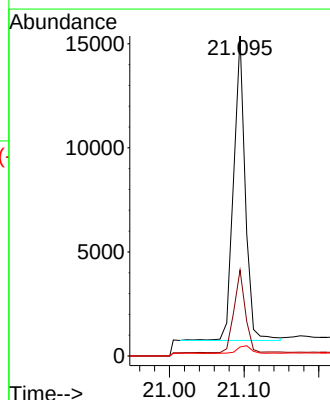
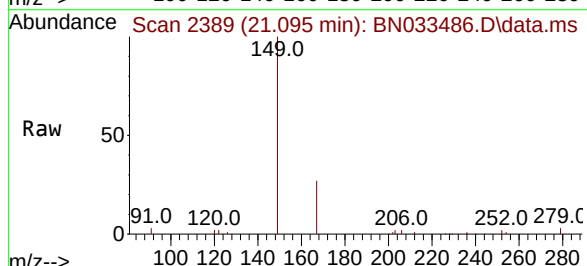
Tgt Ion:149 Resp: 15827

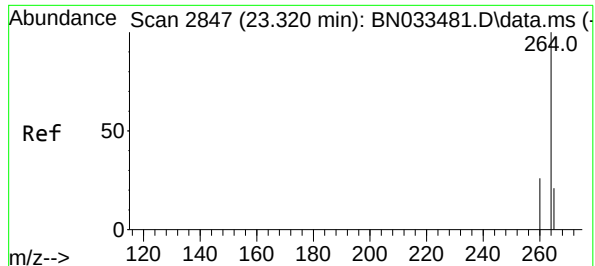
Ion Ratio Lower Upper

149 100

167 26.2 21.5 32.3

279 2.8 2.2 3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.314 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

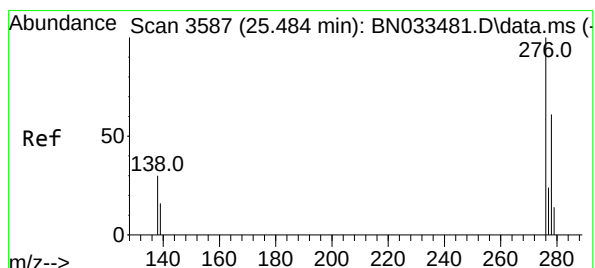
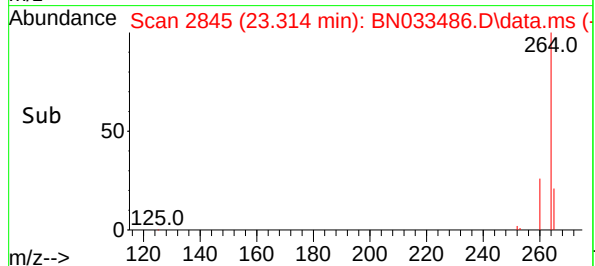
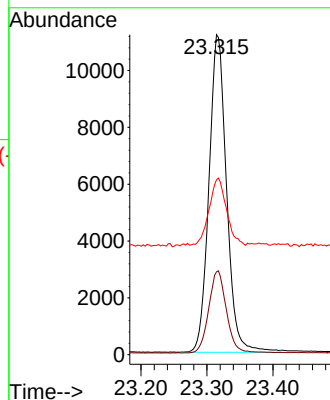
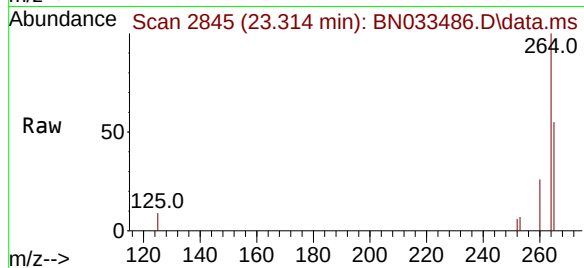
Tgt Ion:264 Resp: 20739

Ion Ratio Lower Upper

264 100

260 25.9 20.8 31.2

265 54.7 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.370 ng

RT: 25.472 min Scan# 3583

Delta R.T. -0.012 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

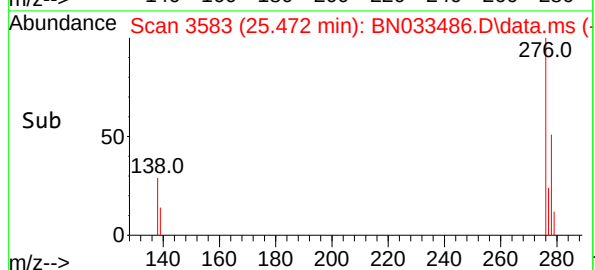
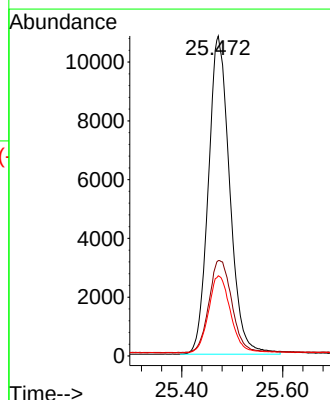
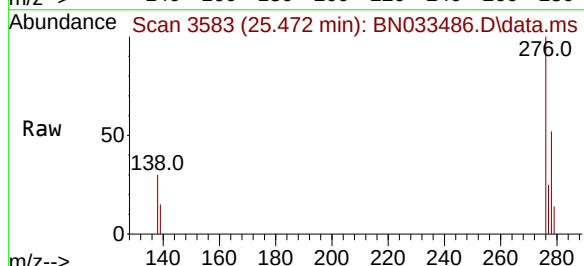
Tgt Ion:276 Resp: 31883

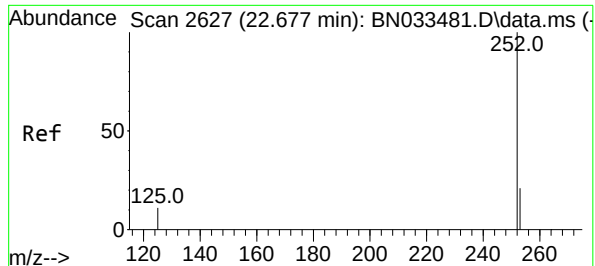
Ion Ratio Lower Upper

276 100

138 31.1 24.4 36.6

277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.357 ng

RT: 22.671 min Scan# 2625

Delta R.T. -0.006 min

Lab File: BN033486.D

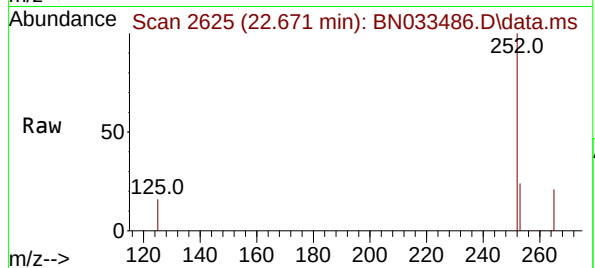
Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924



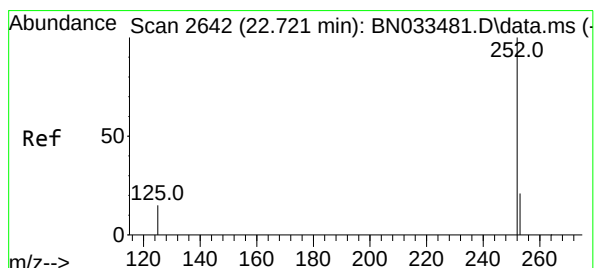
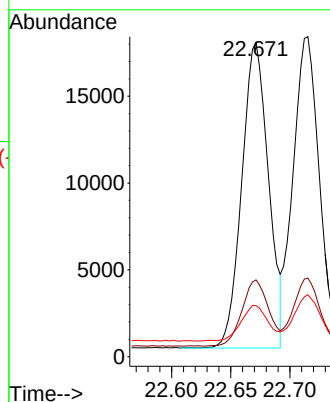
Tgt Ion:252 Resp: 27618

Ion Ratio Lower Upper

252 100

253 24.4 19.8 29.8

125 16.2 13.9 20.9



#38

Benzo(k)fluoranthene

Concen: 0.368 ng

RT: 22.715 min Scan# 2640

Delta R.T. -0.006 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

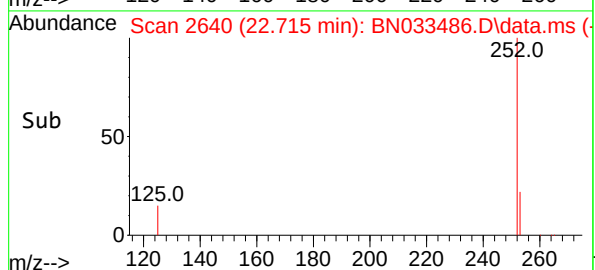
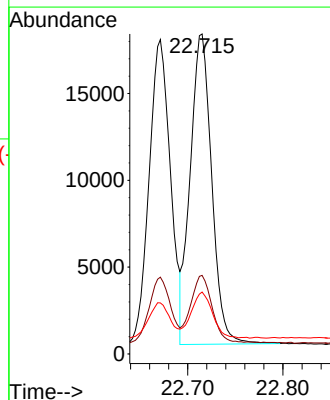
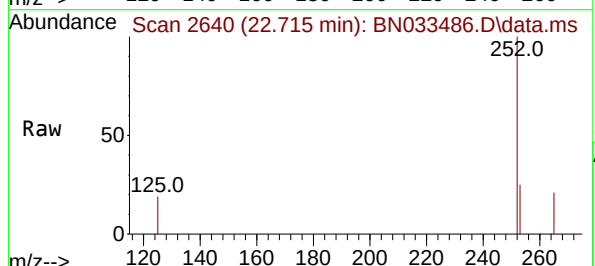
Tgt Ion:252 Resp: 28035

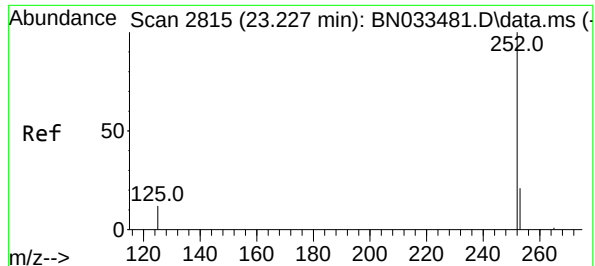
Ion Ratio Lower Upper

252 100

253 24.5 19.8 29.8

125 19.3 15.8 23.8





#39

Benzo(a)pyrene

Concen: 0.351 ng

RT: 23.221 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

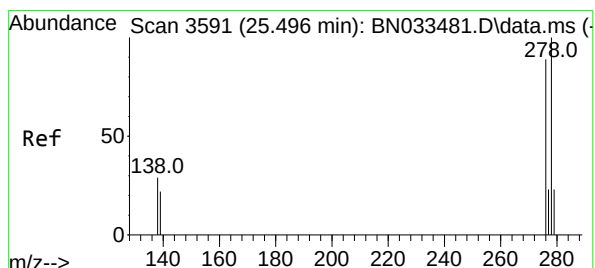
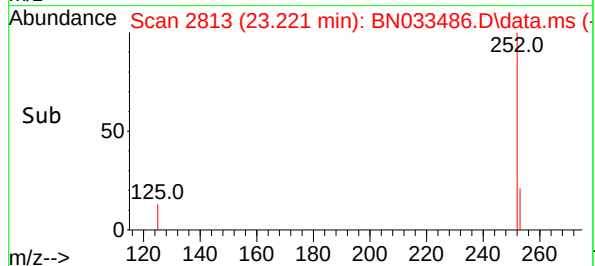
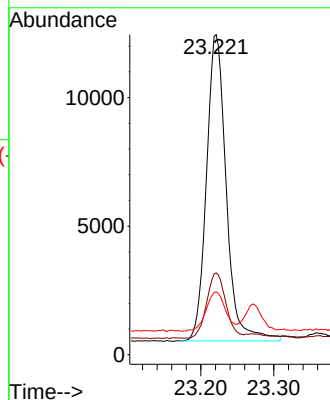
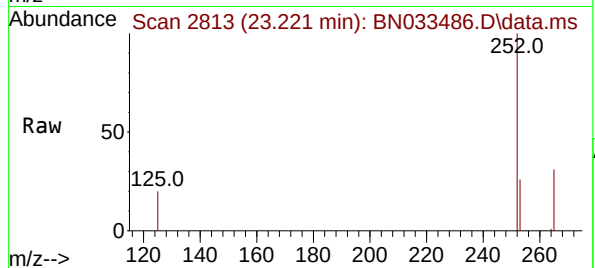
Tgt Ion:252 Resp: 22480

Ion Ratio Lower Upper

252 100

253 25.5 21.5 32.3

125 19.6 17.0 25.4



#40

Dibenzo(a,h)anthracene

Concen: 0.372 ng

RT: 25.490 min Scan# 3589

Delta R.T. -0.006 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

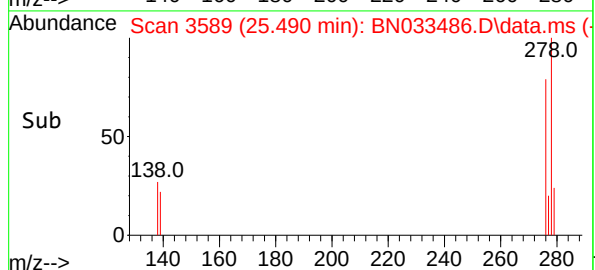
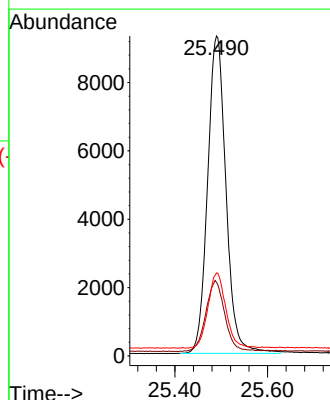
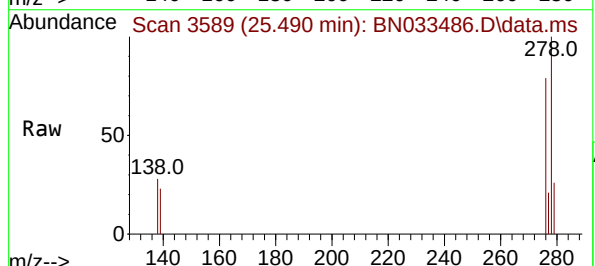
Tgt Ion:278 Resp: 25600

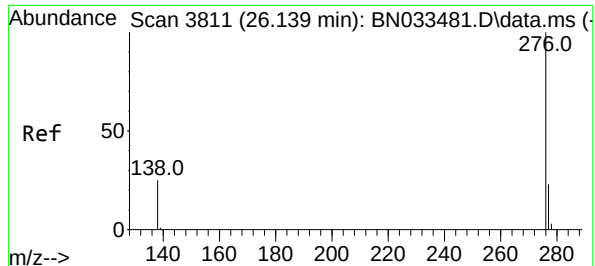
Ion Ratio Lower Upper

278 100

139 23.0 19.1 28.7

279 26.0 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.361 ng

RT: 26.124 min Scan# 3811

Delta R.T. -0.015 min

Lab File: BN033486.D

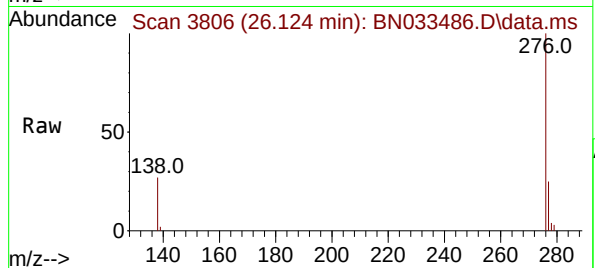
Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924



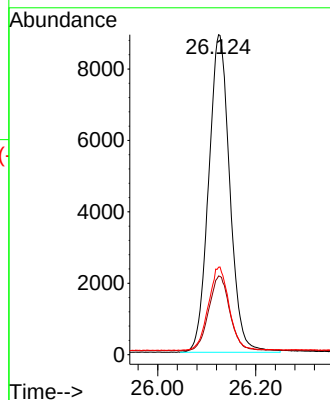
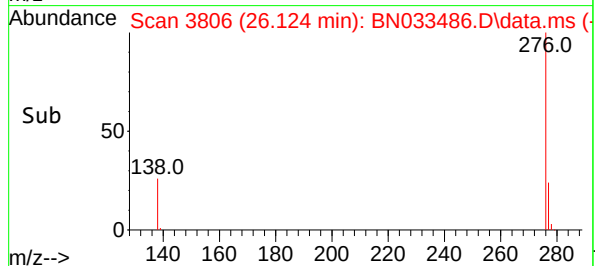
Tgt Ion:276 Resp: 26587

Ion Ratio Lower Upper

276 100

277 24.6 19.7 29.5

138 27.4 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033486.D
Acq On : 20 Aug 2024 01:56
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Quant Time: Aug 20 02:44:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2	1,4-Dioxane	0.460	0.551	-19.8	156#	0.00
3	n-Nitrosodimethylamine	0.535	0.592	-10.7	121	0.00
4 S	2-Fluorophenol	1.271	1.467	-15.4	108	0.00
5 S	Phenol-d6	1.512	1.878	-24.2	129	0.00
6	bis(2-Chloroethyl)ether	1.072	1.083	-1.0	134	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	135	0.00
8 S	Nitrobenzene-d5	0.332	0.300	9.6	134	0.00
9	Naphthalene	1.069	0.989	7.5	142	0.00
10	Hexachlorobutadiene	0.213	0.194	8.9	137	0.00
11 SURR	2-Methylnaphthalene-d10	0.572	0.525	8.2	144	0.00
12	2-Methylnaphthalene	0.677	0.627	7.4	145	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	149	0.00
14 S	2,4,6-Tribromophenol	0.215	0.170	20.9	137	0.00
15 S	2-Fluorobiphenyl	1.634	1.462	10.5	146	0.00
16	Acenaphthylene	1.754	1.502	14.4	145	-0.01
17	Acenaphthene	1.234	1.101	10.8	148	0.00
18	Fluorene	1.555	1.376	11.5	148	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	146	0.00
20	4,6-Dinitro-2-methylphenol	0.062	0.050	19.4	144	0.00
21	4-Bromophenyl-phenylether	0.243	0.222	8.6	147	0.00
22	Hexachlorobenzene	0.268	0.252	6.0	148	0.00
23	Atrazine	0.194	0.167	13.9	140	0.00
24	Pentachlorophenol	0.116	0.084	27.6#	127	0.00
25	Phenanthrene	1.113	1.033	7.2	146	0.00
26	Anthracene	0.985	0.870	11.7	145	0.00
27 SURR	Fluoranthene-d10	0.961	0.829	13.7	139	0.00
28	Fluoranthene	1.230	1.071	12.9	142	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	133	0.00
30	Pyrene	1.785	1.803	-1.0	141	0.00
31 S	Terphenyl-d14	0.909	0.906	0.3	140	0.00
32	Benzo(a)anthracene	1.446	1.317	8.9	133	0.00
33	Chrysene	1.437	1.340	6.8	134	0.00
34	Bis(2-ethylhexyl)phthalate	0.915	0.737	19.5	121	0.00
35 I	Perylene-d12	1.000	1.000	0.0	130	0.00
36	Indeno(1,2,3-cd)pyrene	1.661	1.537	7.5	131	-0.01
37	Benzo(b)fluoranthene	1.494	1.332	10.8	130	0.00
38	Benzo(k)fluoranthene	1.470	1.352	8.0	133	0.00
39 C	Benzo(a)pyrene	1.236	1.084	12.3	129	0.00
40	Dibenzo(a,h)anthracene	1.328	1.234	7.1	131	0.00
41	Benzo(g,h,i)perylene	1.420	1.282	9.7	129	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033486.D
Acq On : 20 Aug 2024 01:56
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Quant Time: Aug 20 02:44:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	93	0.00
2	1,4-Dioxane	0.400	0.479	-19.7	156	0.00
3	n-Nitrosodimethylamine	0.400	0.442	-10.5	121	0.00
4 S	2-Fluorophenol	0.400	0.462	-15.5	108	0.00
5 S	Phenol-d6	0.400	0.497	-24.2	129	0.00
6	bis(2-Chloroethyl)ether	0.400	0.404	-1.0	134	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	135	0.00
8 S	Nitrobenzene-d5	0.400	0.362	9.5	134	0.00
9	Naphthalene	0.400	0.370	7.5	142	0.00
10	Hexachlorobutadiene	0.400	0.364	9.0	137	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.367	8.3	144	0.00
12	2-Methylnaphthalene	0.400	0.371	7.3	145	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	149	0.00
14 S	2,4,6-Tribromophenol	0.400	0.317	20.8	137	0.00
15 S	2-Fluorobiphenyl	0.400	0.358	10.5	146	0.00
16	Acenaphthylene	0.400	0.342	14.5	145	-0.01
17	Acenaphthene	0.400	0.357	10.8	148	0.00
18	Fluorene	0.400	0.354	11.5	148	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	146	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.322	19.5	144	0.00
21	4-Bromophenyl-phenylether	0.400	0.366	8.5	147	0.00
22	Hexachlorobenzene	0.400	0.376	6.0	148	0.00
23	Atrazine	0.400	0.344	14.0	140	0.00
24	Pentachlorophenol	0.400	0.289	27.8#	127	0.00
25	Phenanthrene	0.400	0.371	7.3	146	0.00
26	Anthracene	0.400	0.353	11.8	145	0.00
27 SURR	Fluoranthene-d10	0.400	0.345	13.8	139	0.00
28	Fluoranthene	0.400	0.348	13.0	142	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	133	0.00
30	Pyrene	0.400	0.404	-1.0	141	0.00
31 S	Terphenyl-d14	0.400	0.399	0.3	140	0.00
32	Benzo(a)anthracene	0.400	0.364	9.0	133	0.00
33	Chrysene	0.400	0.373	6.8	134	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.322	19.5	121	0.00
35 I	Perylene-d12	0.400	0.400	0.0	130	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.370	7.5	131	-0.01
37	Benzo(b)fluoranthene	0.400	0.357	10.8	130	0.00
38	Benzo(k)fluoranthene	0.400	0.368	8.0	133	0.00
39 C	Benzo(a)pyrene	0.400	0.351	12.3	129	0.00
40	Dibenzo(a,h)anthracene	0.400	0.372	7.0	131	0.00
41	Benzo(g,h,i)perylene	0.400	0.361	9.8	129	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG No.: P3671

Instrument ID: BNA_N Calibration Date/Time: 08/22/2024 22:03

Lab File ID: BN033563.D Init. Calib. Date(s): 08/19/2024 08/19/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:16 19:53

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.572	0.518		-9.4	20.0
Fluoranthene-d10	0.961	0.853		-11.2	20.0
2-Fluorophenol	1.271	1.055		-17.0	20.0
Phenol-d6	1.512	1.314		-13.1	20.0
Nitrobenzene-d5	0.332	0.295		-11.1	20.0
Naphthalene	1.069	0.983		-8.0	20.0
2-Methylnaphthalene	0.677	0.607		-10.3	20.0
2-Fluorobiphenyl	1.634	1.564		-4.3	20.0
Acenaphthylene	1.754	1.565		-10.8	20.0
Acenaphthene	1.234	1.089		-11.8	20.0
Fluorene	1.555	1.342		-13.7	20.0
2,4,6-Tribromophenol	0.215	0.172		-20.0	20.0
Phenanthrene	1.113	1.033		-7.2	20.0
Anthracene	0.985	0.877		-11.0	20.0
Fluoranthene	1.230	1.087		-11.6	20.0
Pyrene	1.785	1.554		-12.9	20.0
Terphenyl-d14	0.909	0.787		-13.4	20.0
Benzo(a)anthracene	1.446	1.328		-8.2	20.0
Chrysene	1.437	1.346		-6.3	20.0
Benzo(b)fluoranthene	1.494	1.368		-8.4	20.0
Benzo(k)fluoranthene	1.470	1.350		-8.2	20.0
Benzo(a)pyrene	1.236	1.131		-8.5	20.0
Indeno(1,2,3-cd)pyrene	1.661	1.555		-6.4	20.0
Dibenzo(a,h)anthracene	1.328	1.231		-7.3	20.0
Benzo(g,h,i)perylene	1.420	1.328		-6.5	20.0
1,4-Dioxane	0.460	0.403		-12.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033563.D
Acq On : 22 Aug 2024 22:03
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 23 00:23:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	8400	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	22013	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	10449	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	19500	0.400	ng	0.00
29) Chrysene-d12	21.139	240	13945	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	14856	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.176	112	8863	0.332	ng	0.00
5) Phenol-d6	6.729	99	11041	0.348	ng	0.00
8) Nitrobenzene-d5	8.681	82	6487	0.355	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	11397	0.362	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	1794	0.319	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	16346	0.383	ng	0.00
27) Fluoranthene-d10	18.970	212	16632	0.355	ng	0.00
31) Terphenyl-d14	19.584	244	10971	0.346	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.183	88	3382	0.350	ng	Qvalue 99
3) n-Nitrosodimethylamine	3.479	42	3913	0.348	ng	# 96
6) bis(2-Chloroethyl)ether	6.982	93	8604	0.382	ng	100
9) Naphthalene	10.357	128	21629	0.368	ng	99
10) Hexachlorobutadiene	10.656	225	4393	0.374	ng	# 99
12) 2-Methylnaphthalene	11.979	142	13365	0.359	ng	99
16) Acenaphthylene	13.900	152	16356	0.357	ng	99
17) Acenaphthene	14.242	154	11378	0.353	ng	98
18) Fluorene	15.236	166	14023	0.345	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	646	0.212	ng	94
21) 4-Bromophenyl-phenylether	16.135	248	4432	0.374	ng	# 94
22) Hexachlorobenzene	16.247	284	5010	0.383	ng	99
23) Atrazine	16.421	200	3310	0.350	ng	# 91
24) Pentachlorophenol	16.594	266	1869	0.330	ng	98
25) Phenanthrene	16.967	178	20144	0.371	ng	100
26) Anthracene	17.066	178	17109	0.356	ng	100
28) Fluoranthene	19.003	202	21191	0.353	ng	100
30) Pyrene	19.365	202	21665	0.348	ng	100
32) Benzo(a)anthracene	21.122	228	18513	0.367	ng	100
33) Chrysene	21.175	228	18774	0.375	ng	100
34) Bis(2-ethylhexyl)phtha...	21.086	149	10987m	0.344	ng	
36) Indeno(1,2,3-cd)pyrene	25.449	276	23101	0.375	ng	100
37) Benzo(b)fluoranthene	22.660	252	20325	0.366	ng	98
38) Benzo(k)fluoranthene	22.704	252	20060	0.367	ng	99
39) Benzo(a)pyrene	23.209	252	16799	0.366	ng	99
40) Dibenzo(a,h)anthracene	25.469	278	18290	0.371	ng	97
41) Benzo(g,h,i)perylene	26.104	276	19730	0.374	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033563.D
Acq On : 22 Aug 2024 22:03
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Quant Time: Aug 23 00:23:24 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 23 00:22:18 2024

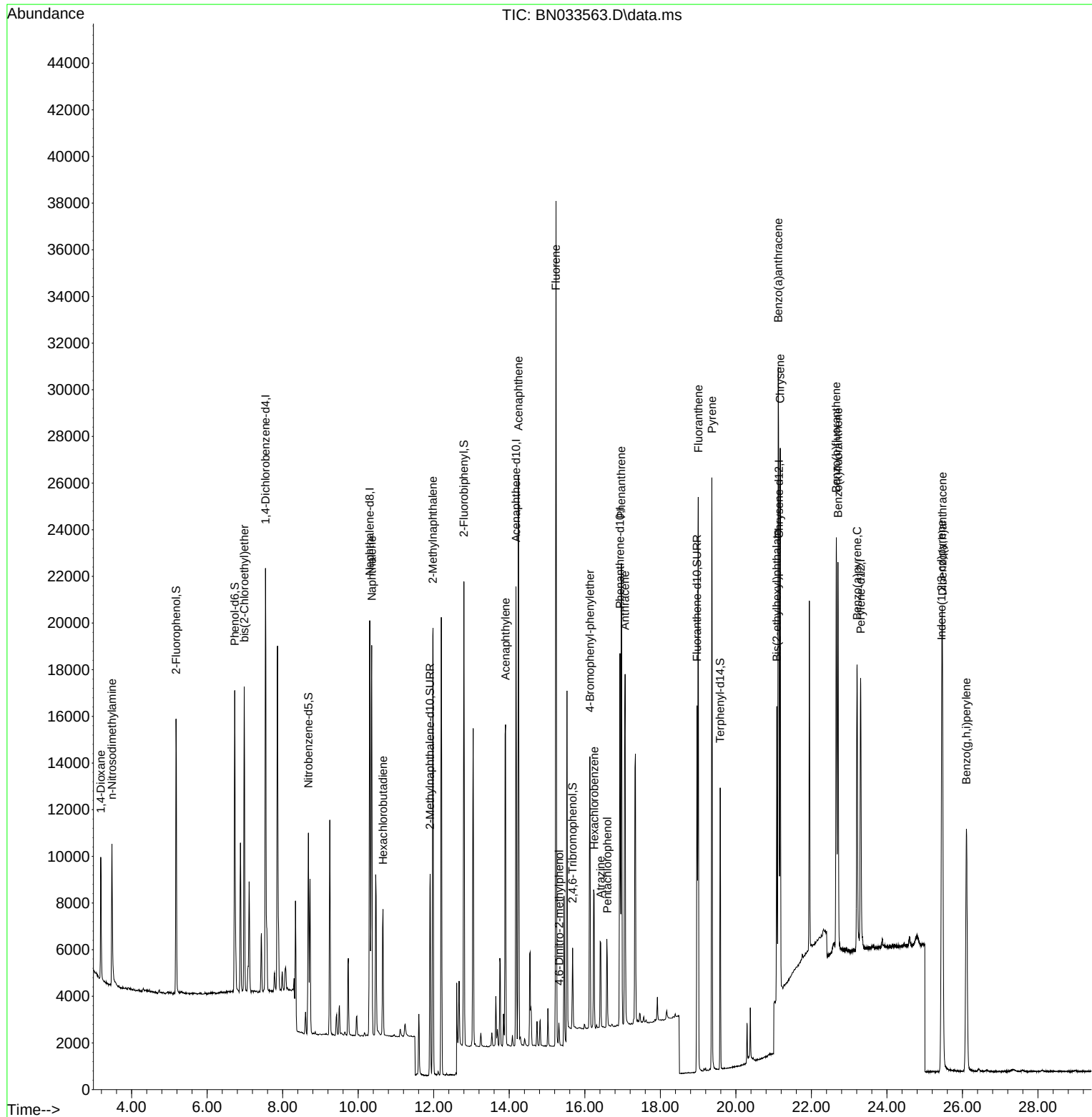
Response via : Initial Calibration

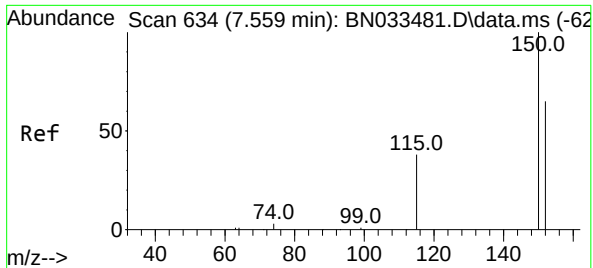
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

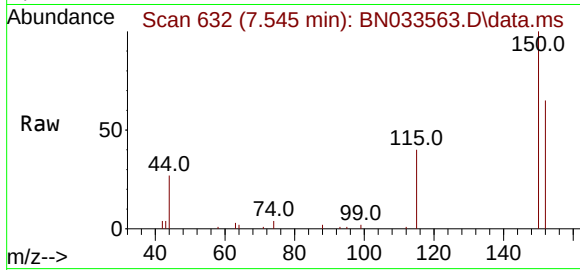
Supervised By :mohammad ahmed 08/24/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

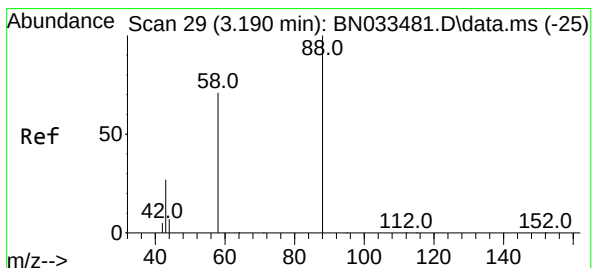
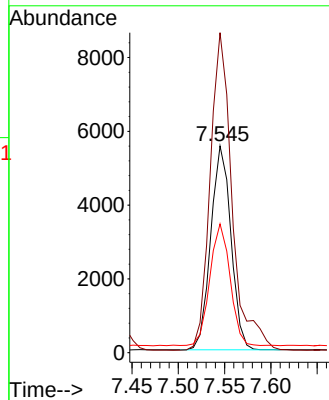
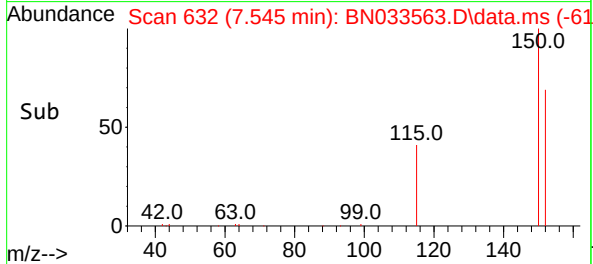
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 8400
Ion Ratio Lower Upper
152 100
150 154.8 122.2 183.2
115 62.3 47.2 70.8

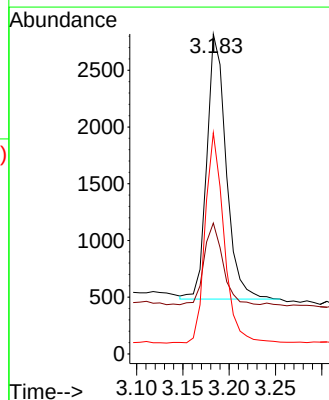
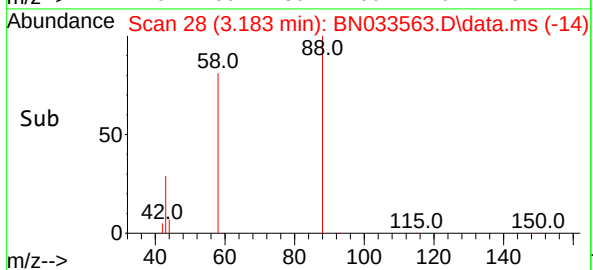
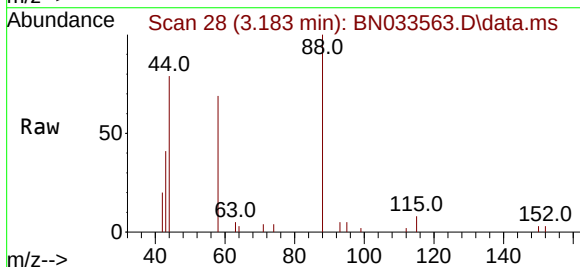
Manual Integrations
APPROVED

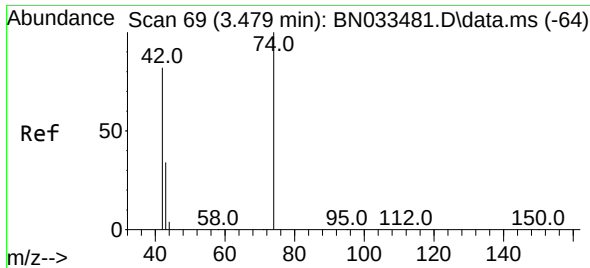
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#2
1,4-Dioxane
Concen: 0.350 ng
RT: 3.183 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

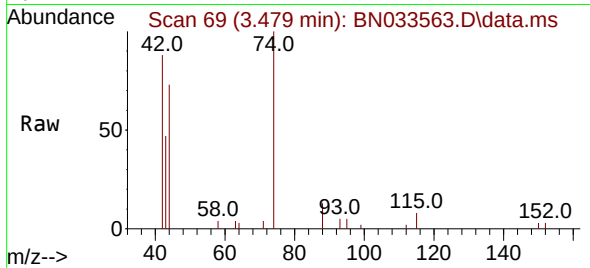
Tgt Ion: 88 Resp: 3382
Ion Ratio Lower Upper
88 100
43 29.8 25.0 37.4
58 77.6 62.5 93.7





#3
n-Nitrosodimethylamine
Concen: 0.348 ng
RT: 3.479 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

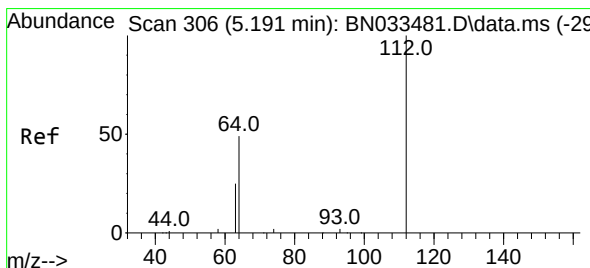
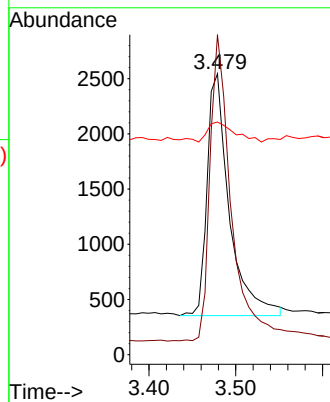
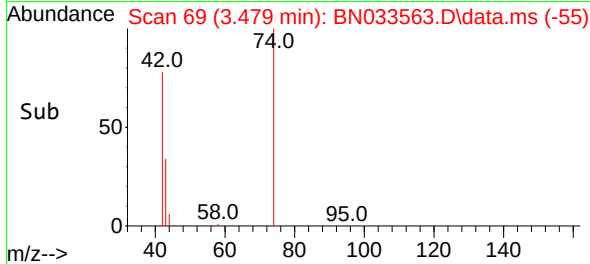
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 42 Resp: 391
Ion Ratio Lower Upper
42 100
74 120.6 100.2 150.2
44 9.7 5.3 7.9

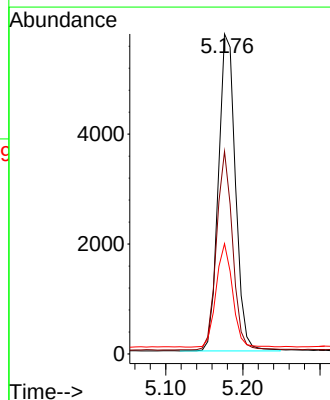
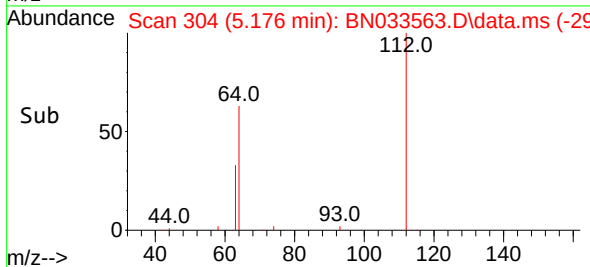
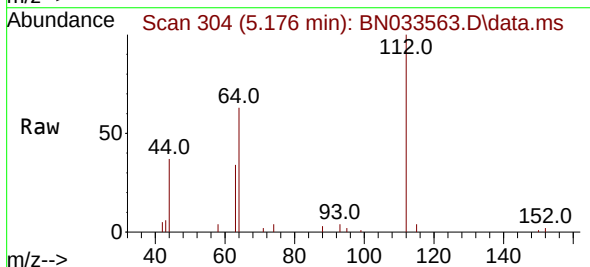
Manual Integrations
APPROVED

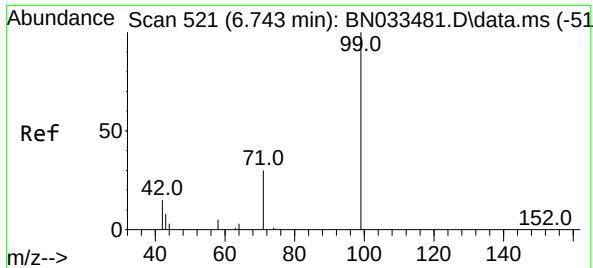
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.332 ng
RT: 5.176 min Scan# 304
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

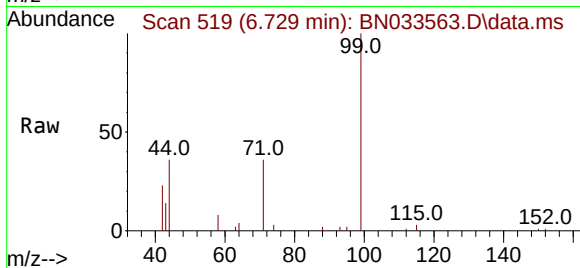
Tgt Ion:112 Resp: 8863
Ion Ratio Lower Upper
112 100
64 59.2 47.1 70.7
63 31.3 24.9 37.3





#5
Phenol-d6
Concen: 0.348 ng
RT: 6.729 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

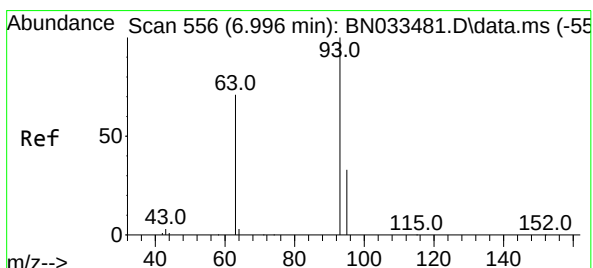
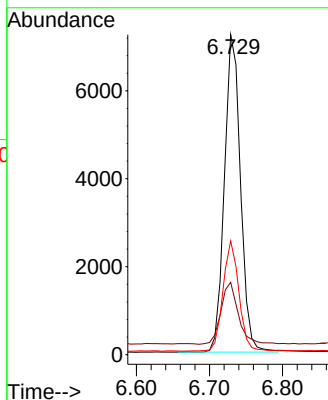
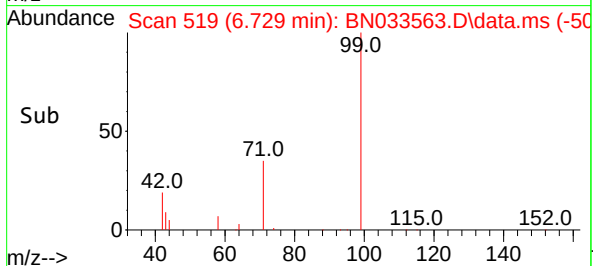
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 99 Resp: 1104
Ion Ratio Lower Upper
99 100
42 21.1 16.6 24.8
71 34.3 26.2 39.4

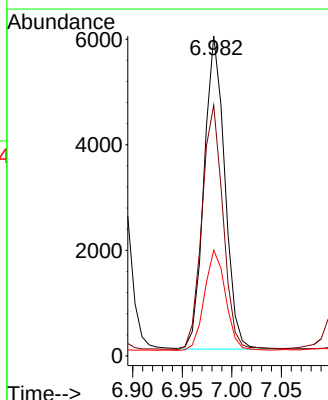
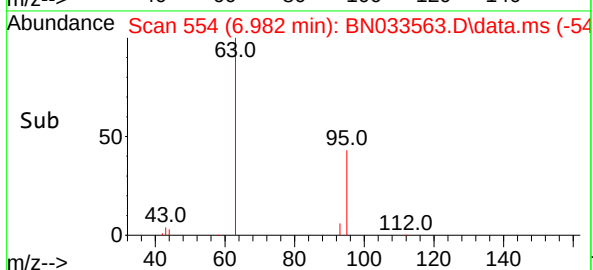
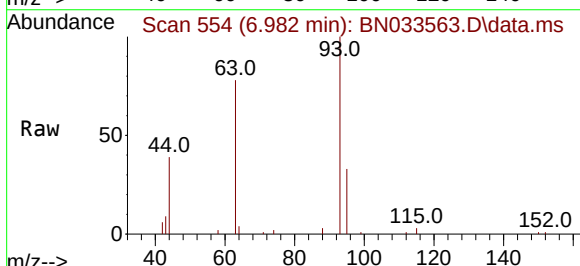
Manual Integrations
APPROVED

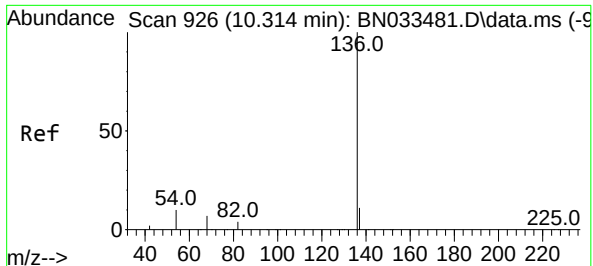
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.382 ng
RT: 6.982 min Scan# 554
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

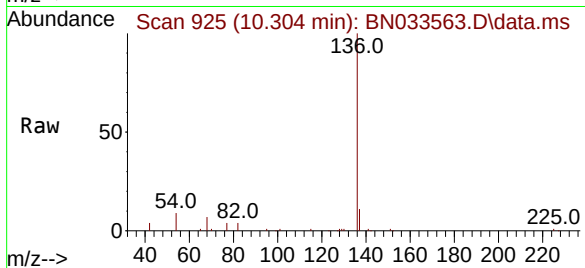
Tgt Ion: 93 Resp: 8604
Ion Ratio Lower Upper
93 100
63 79.2 63.0 94.4
95 32.6 26.0 39.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

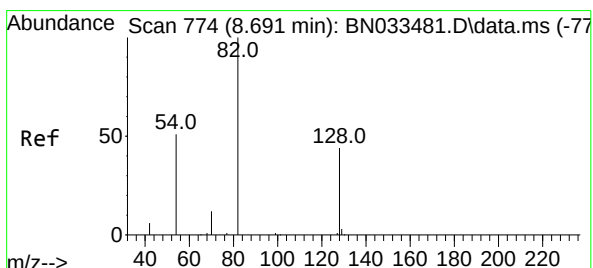
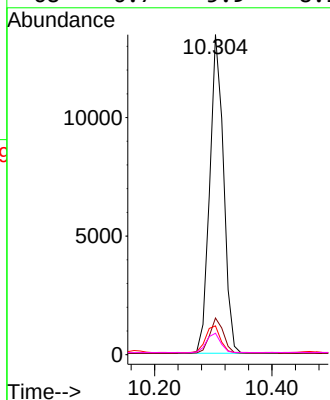
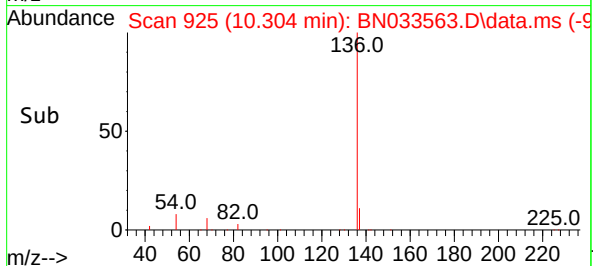
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 136 Resp: 2201
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 9.0 8.3 12.5
68 6.7 5.9 8.9

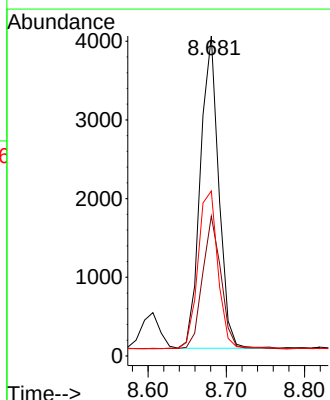
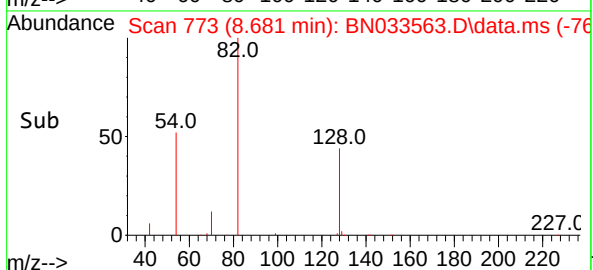
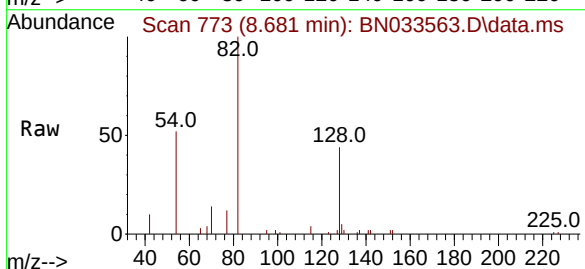
Manual Integrations
APPROVED

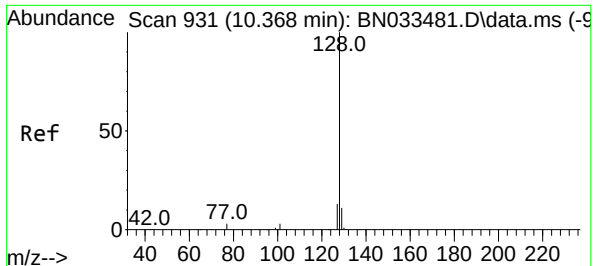
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#8
Nitrobenzene-d5
Concen: 0.355 ng
RT: 8.681 min Scan# 773
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

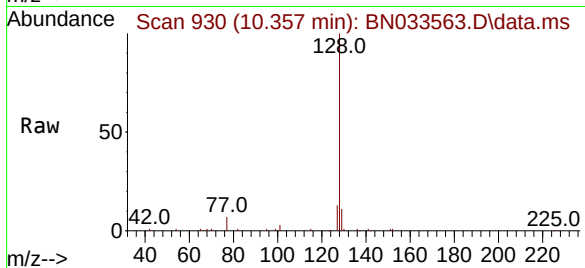
Tgt Ion: 82 Resp: 6487
Ion Ratio Lower Upper
82 100
128 43.7 36.0 54.0
54 51.5 42.0 63.0





#9
Naphthalene
Concen: 0.368 ng
RT: 10.357 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

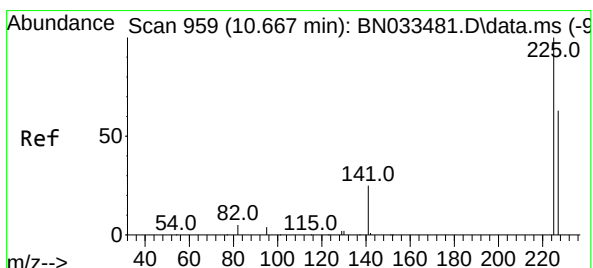
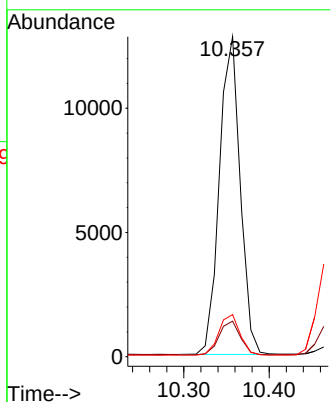
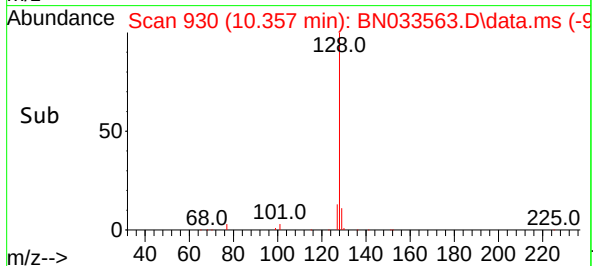
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:128 Resp: 21629
Ion Ratio Lower Upper
128 100
129 11.1 9.1 13.7
127 13.2 10.7 16.1

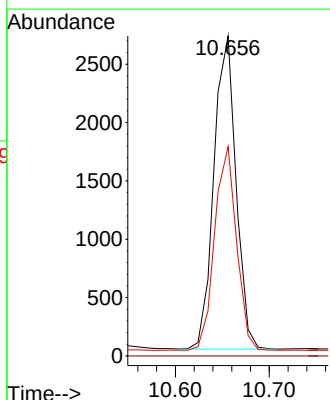
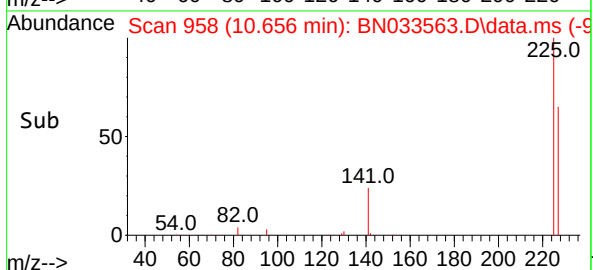
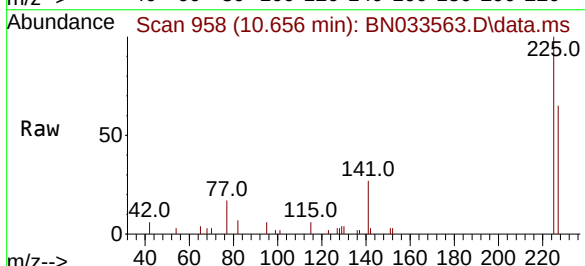
Manual Integrations
APPROVED

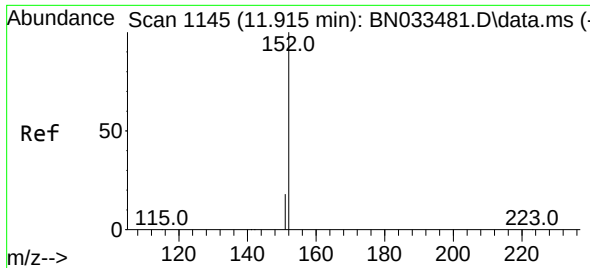
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#10
Hexachlorobutadiene
Concen: 0.374 ng
RT: 10.656 min Scan# 958
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

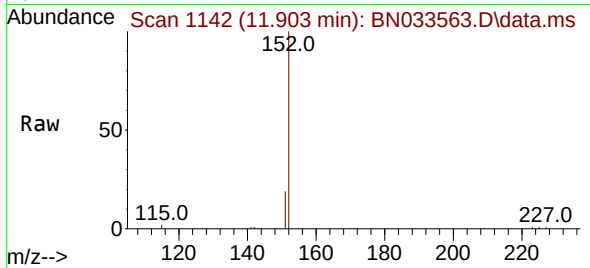
Tgt Ion:225 Resp: 4393
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.2 76.8





#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.903 min Scan# 1145
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

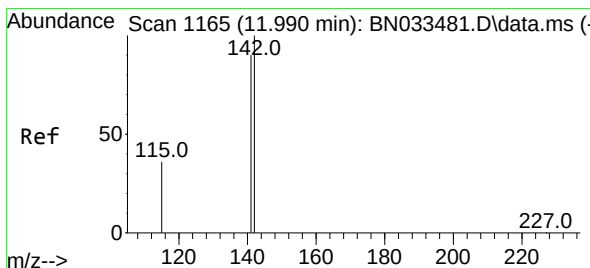
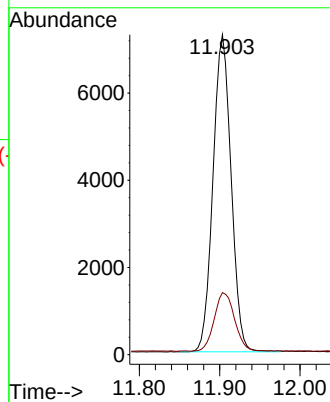
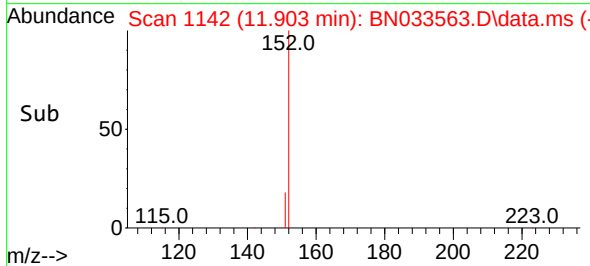
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 1139
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0

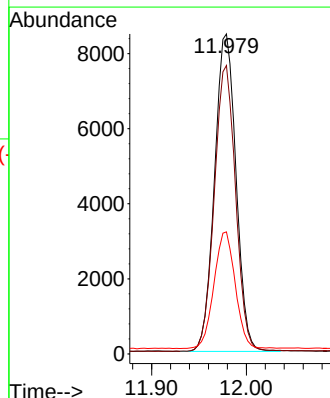
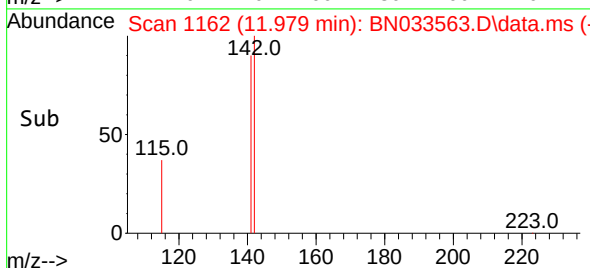
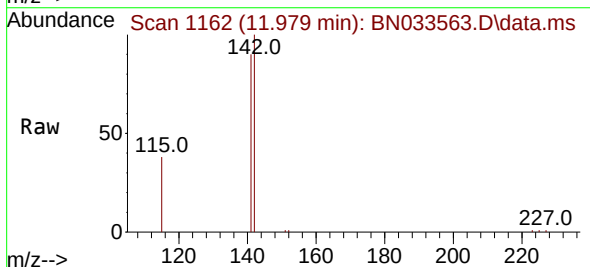
Manual Integrations
APPROVED

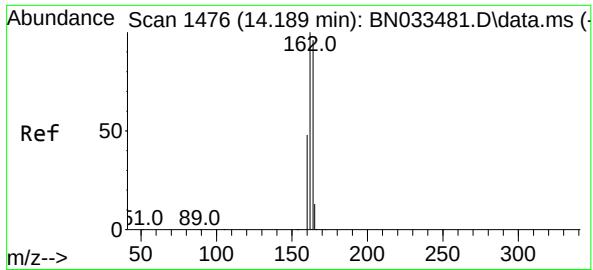
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#12
2-Methylnaphthalene
Concen: 0.359 ng
RT: 11.979 min Scan# 1162
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

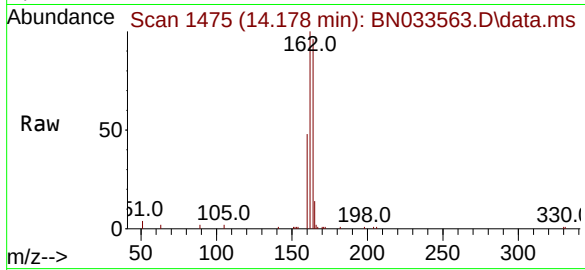
Tgt Ion:142 Resp: 13365
Ion Ratio Lower Upper
142 100
141 90.1 71.7 107.5
115 38.1 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1475
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

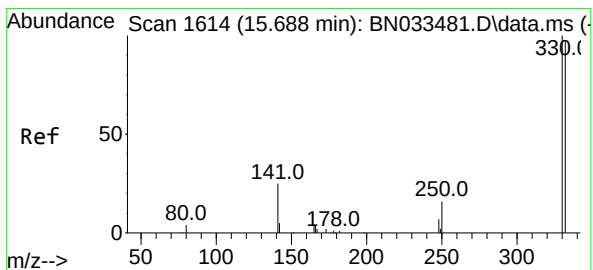
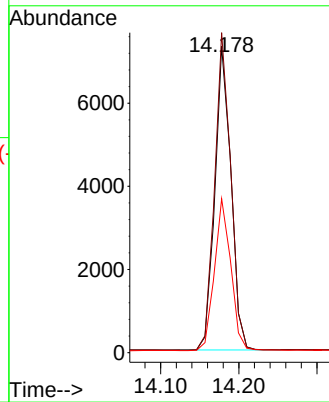
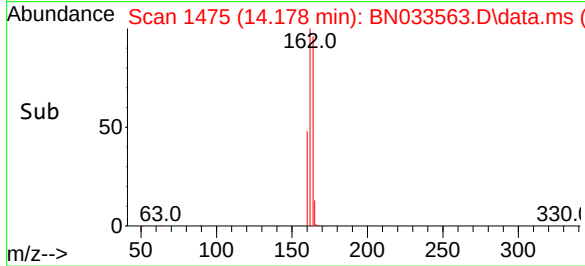
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



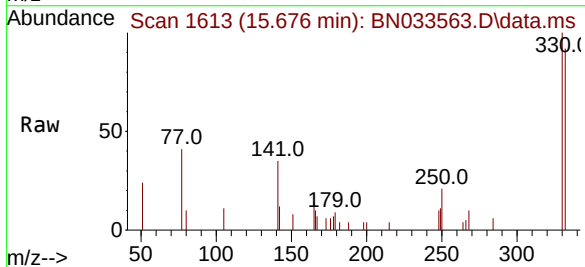
Tgt Ion:164 Resp: 10449
Ion Ratio Lower Upper
164 100
162 104.5 83.5 125.3
160 50.3 40.2 60.4

Manual Integrations
APPROVED

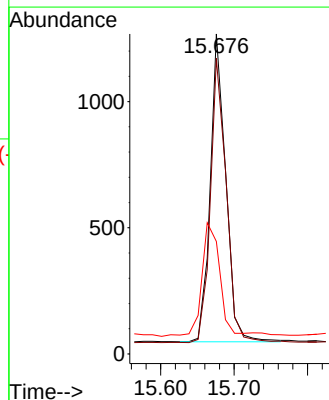
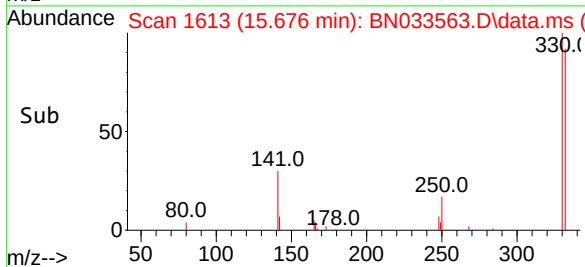
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

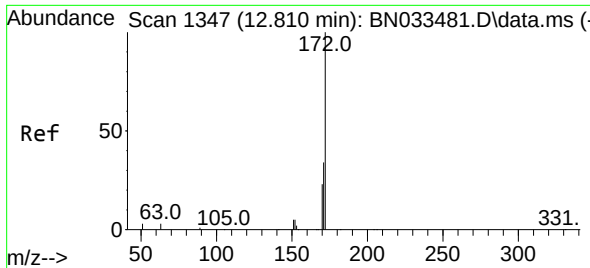


#14
2,4,6-Tribromophenol
Concen: 0.319 ng
RT: 15.676 min Scan# 1613
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03



Tgt Ion:330 Resp: 1794
Ion Ratio Lower Upper
330 100
332 94.4 77.5 116.3
141 44.1 33.9 50.9





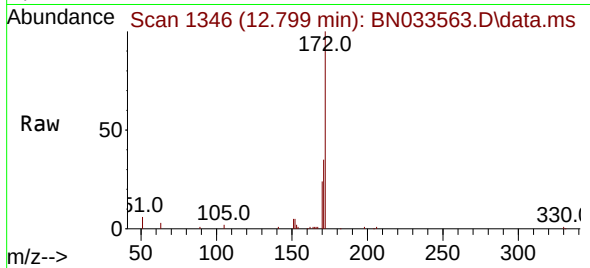
#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 12.799 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



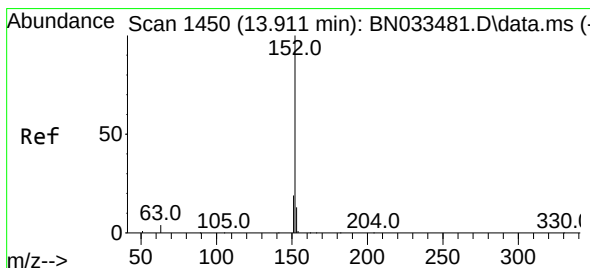
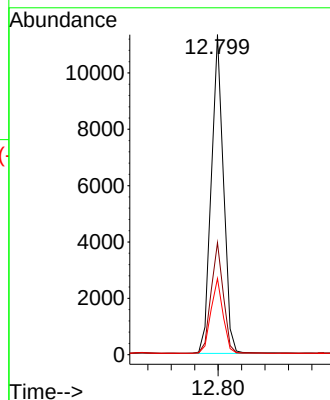
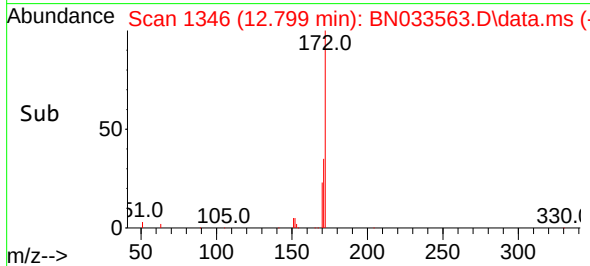
Tgt Ion:172 Resp: 16340
Ion Ratio Lower Upper
172 100
171 35.0 27.7 41.5
170 23.8 18.3 27.5

Manual Integrations

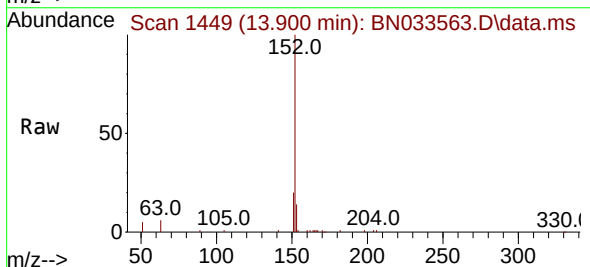
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

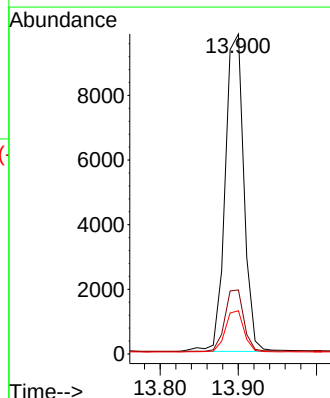
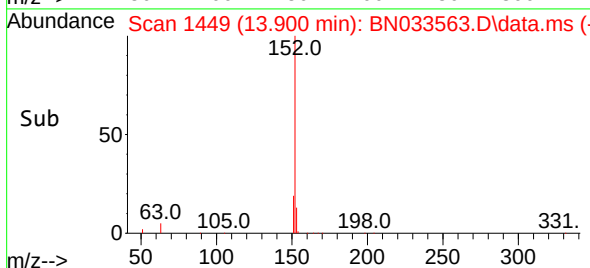
Supervised By :mohammad ahmed 08/24/2024

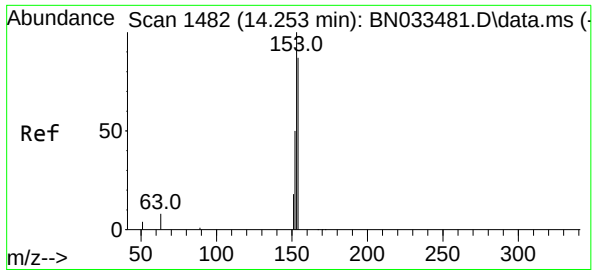


#16
Acenaphthylene
Concen: 0.357 ng
RT: 13.900 min Scan# 1449
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03



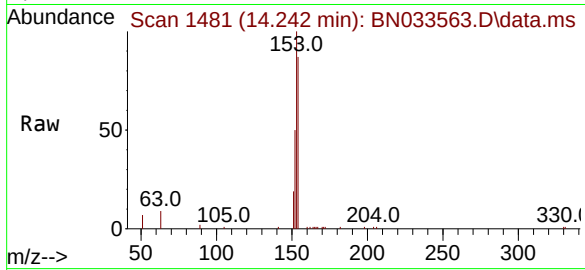
Tgt Ion:152 Resp: 16356
Ion Ratio Lower Upper
152 100
151 19.4 15.7 23.5
153 13.2 10.3 15.5





#17
Acenaphthene
Concen: 0.353 ng
RT: 14.242 min Scan# 1482
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

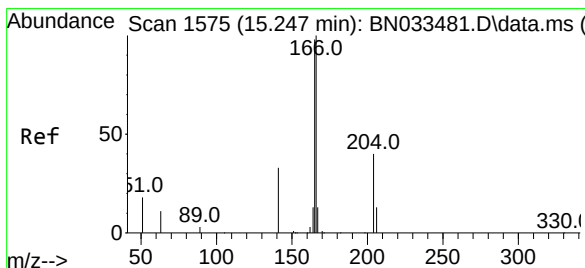
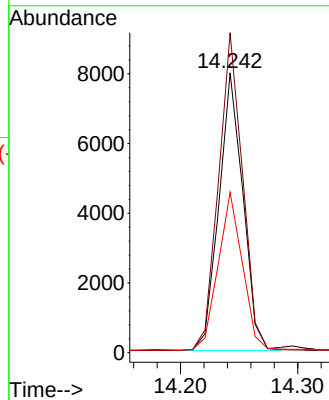
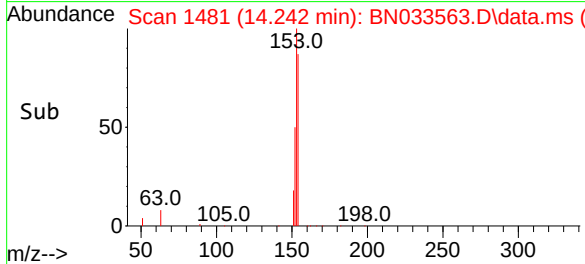
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 11378
Ion Ratio Lower Upper
154 100
153 113.9 89.0 133.6
152 57.2 45.2 67.8

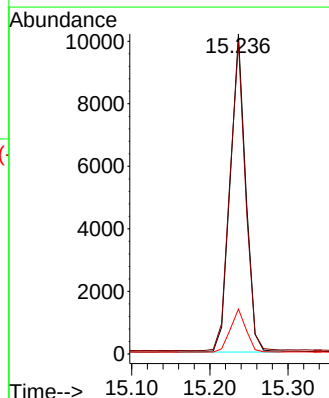
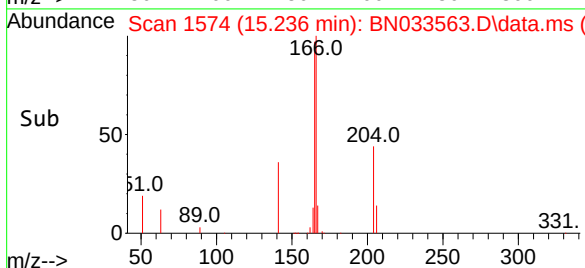
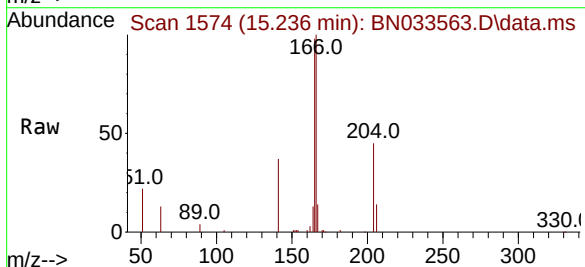
Manual Integrations
APPROVED

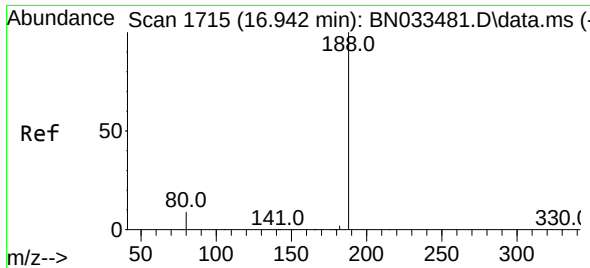
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#18
Fluorene
Concen: 0.345 ng
RT: 15.236 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

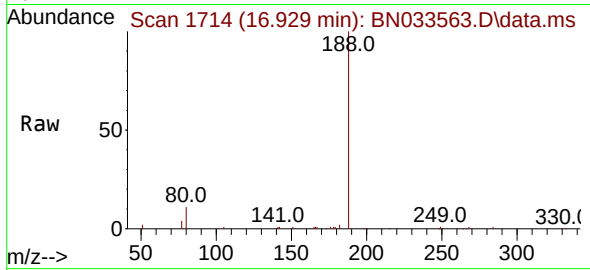
Tgt Ion:166 Resp: 14023
Ion Ratio Lower Upper
166 100
165 98.0 78.2 117.4
167 13.7 10.6 16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

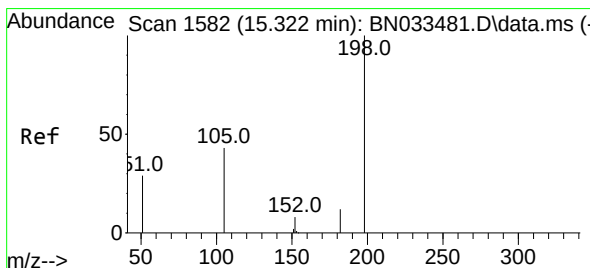
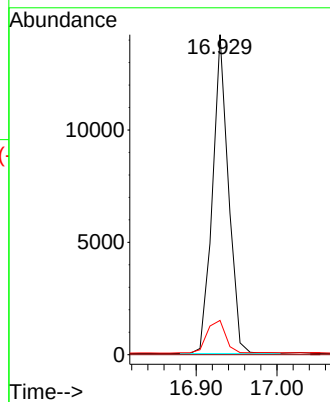
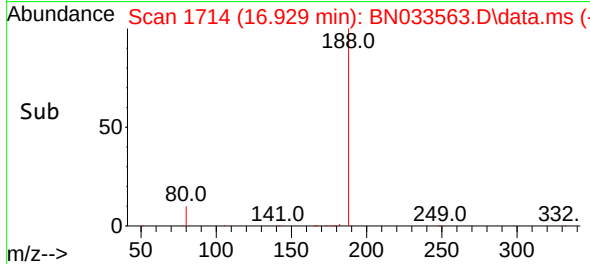
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:188 Resp: 19500
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.7 7.8 11.8

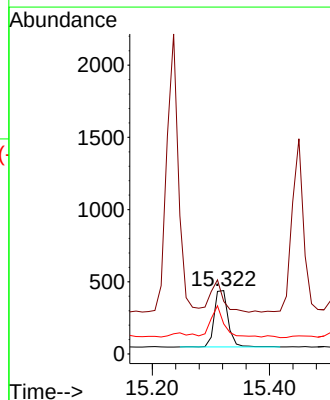
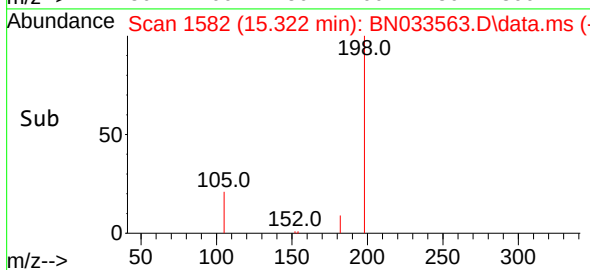
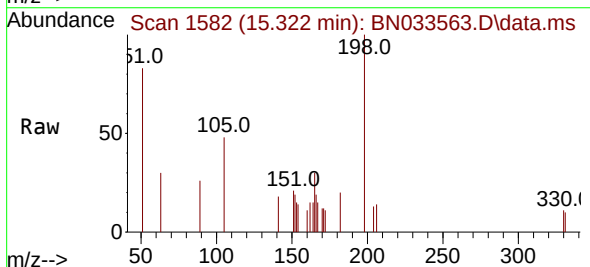
Manual Integrations
APPROVED

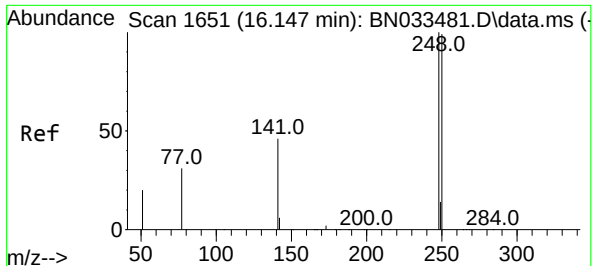
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.212 ng
RT: 15.322 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

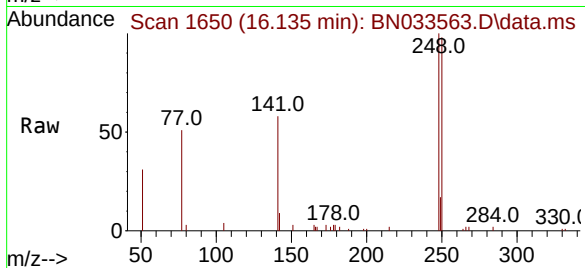
Tgt Ion:198 Resp: 646
Ion Ratio Lower Upper
198 100
51 83.1 65.1 97.7
105 47.6 44.8 67.2





#21
4-Bromophenyl-phenylether
Concen: 0.374 ng
RT: 16.135 min Scan# 1650
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

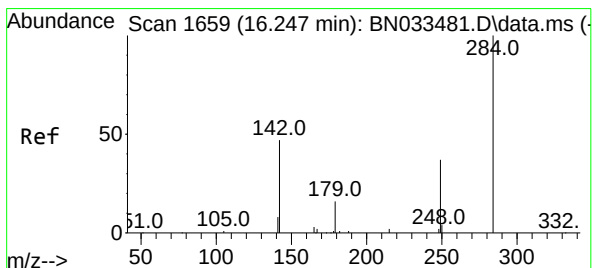
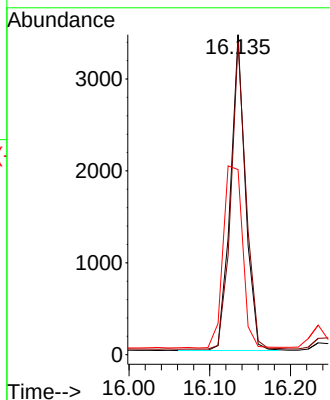
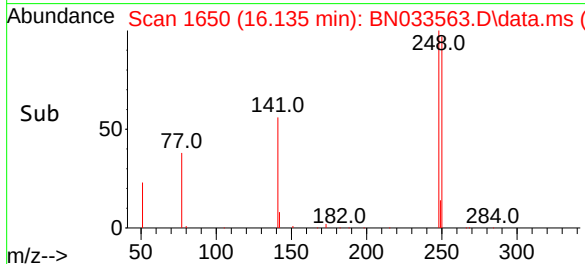
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:248 Resp: 443
Ion Ratio Lower Upper
248 100
250 97.6 79.2 118.8
141 57.8 37.9 56.9

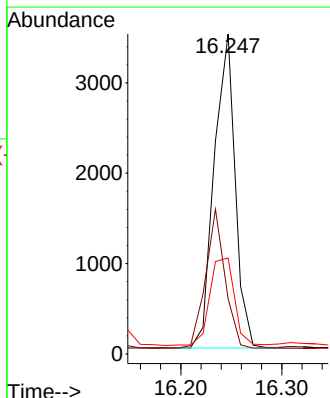
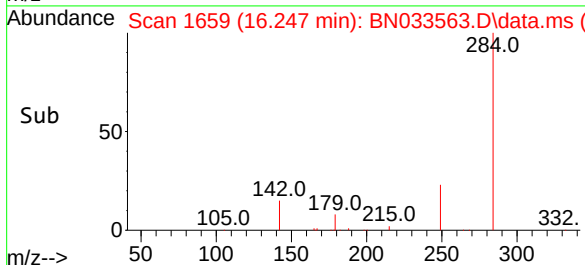
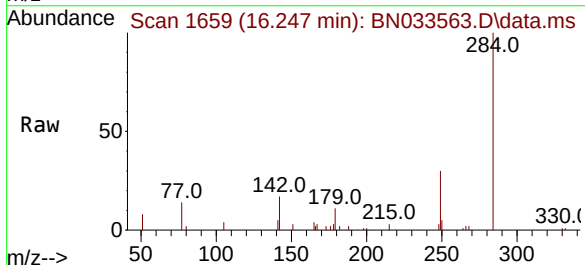
Manual Integrations
APPROVED

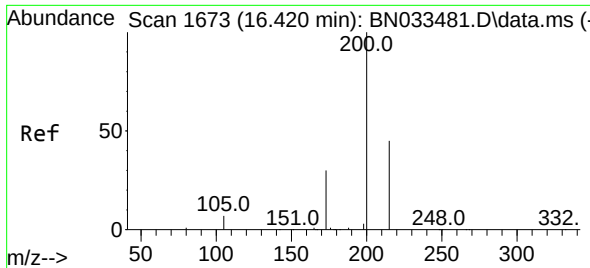
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#22
Hexachlorobenzene
Concen: 0.383 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

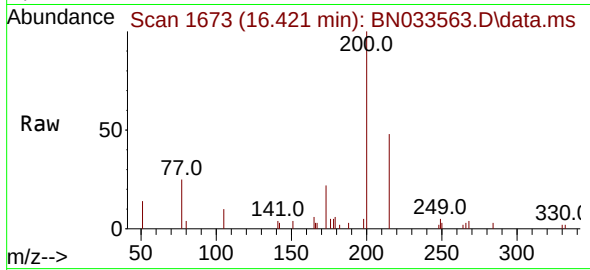
Tgt Ion:284 Resp: 5010
Ion Ratio Lower Upper
284 100
142 41.1 31.8 47.6
249 32.7 26.0 39.0





#23
Atrazine
Concen: 0.350 ng
RT: 16.421 min Scan# 1673
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

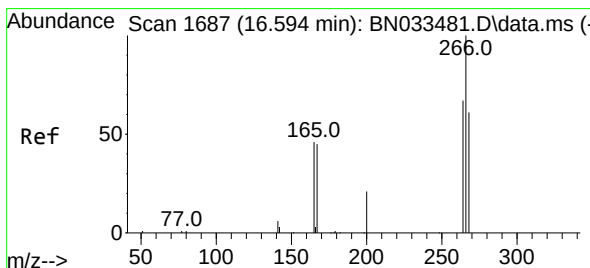
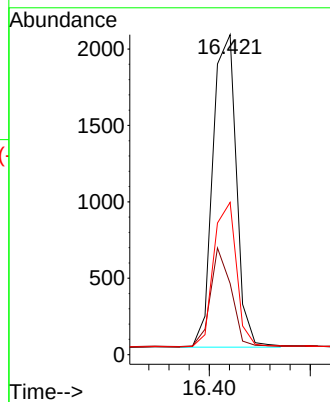
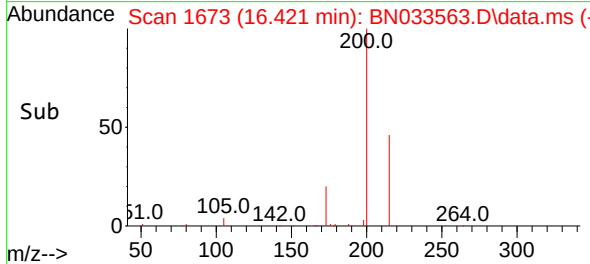
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 3310
Ion Ratio Lower Upper
200 100
173 22.3 25.3 37.9
215 47.6 36.6 54.8

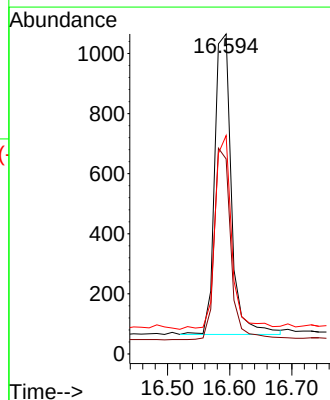
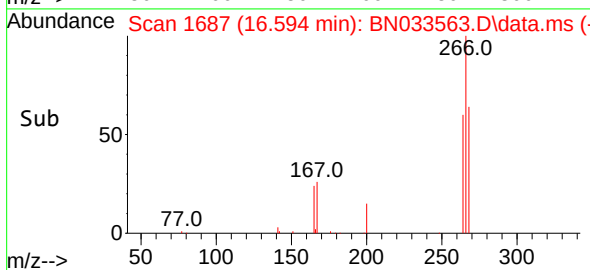
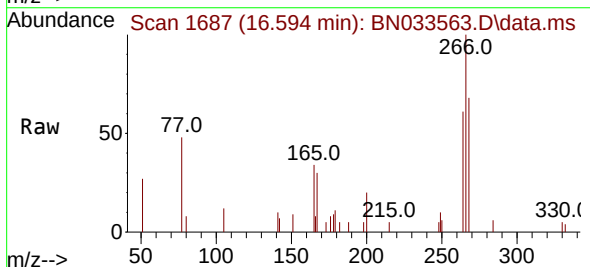
Manual Integrations
APPROVED

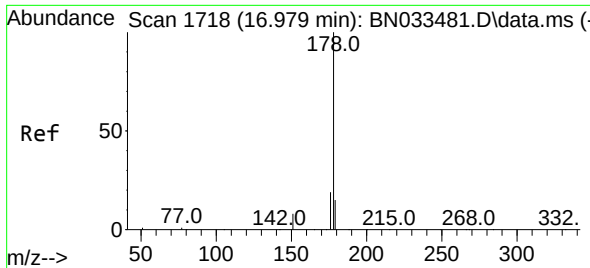
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#24
Pentachlorophenol
Concen: 0.330 ng
RT: 16.594 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

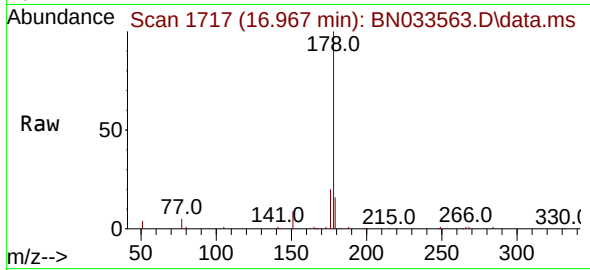
Tgt Ion:266 Resp: 1869
Ion Ratio Lower Upper
266 100
264 62.9 51.9 77.9
268 64.7 51.0 76.4





#25
Phenanthrene
Concen: 0.371 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

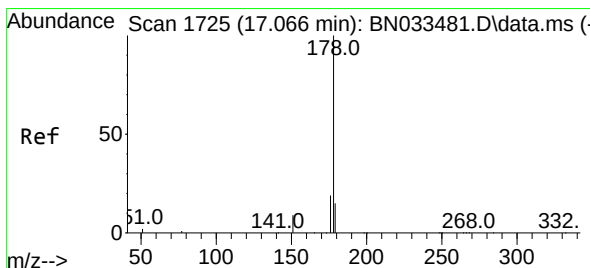
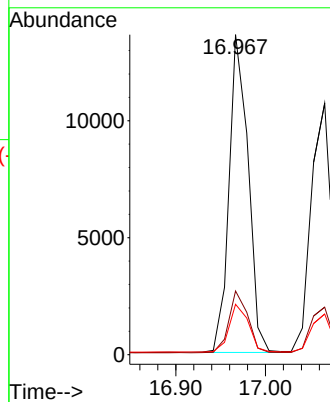
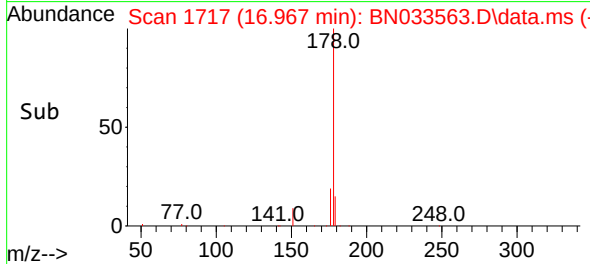
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 20144
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.2 12.3 18.5

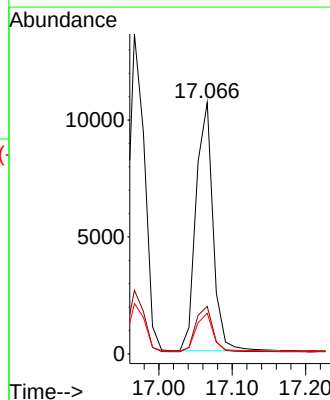
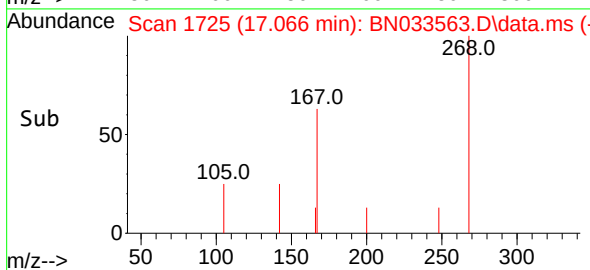
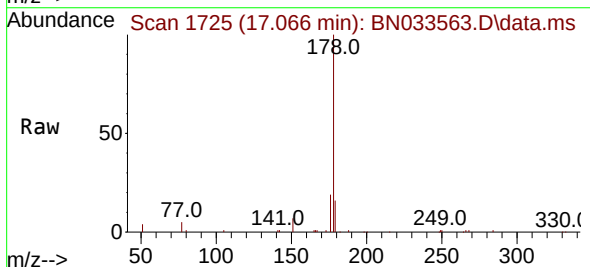
Manual Integrations
APPROVED

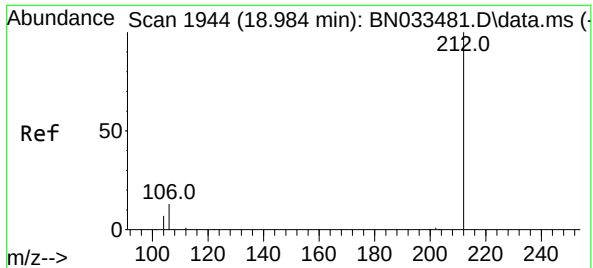
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#26
Anthracene
Concen: 0.356 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

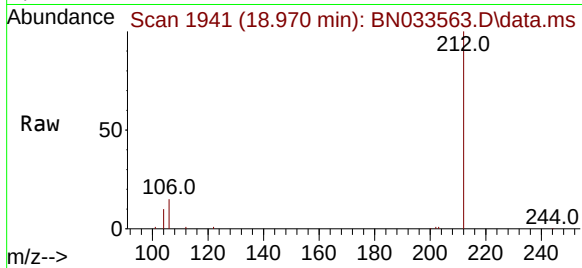
Tgt Ion:178 Resp: 17109
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.4 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.355 ng
RT: 18.970 min Scan# 1941
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

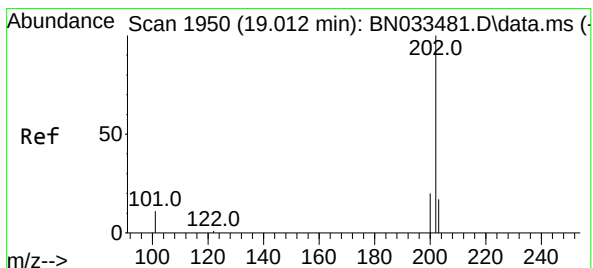
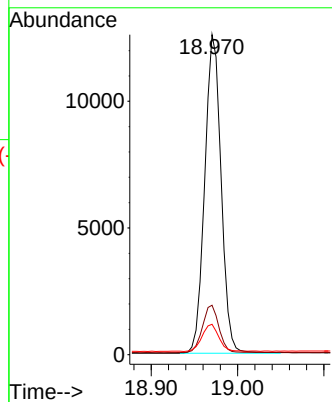
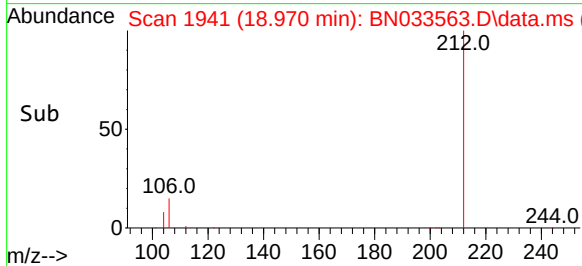
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



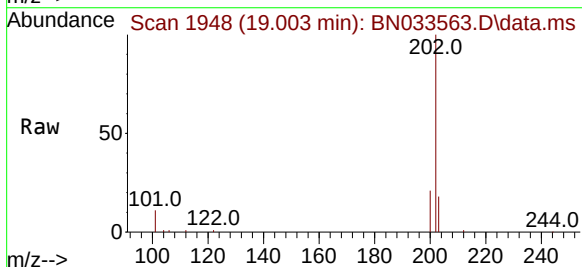
Tgt Ion:212 Resp: 1663
Ion Ratio Lower Upper
212 100
106 15.1 12.3 18.5
104 8.7 7.0 10.4

Manual Integrations
APPROVED

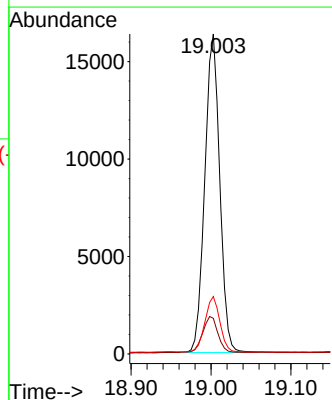
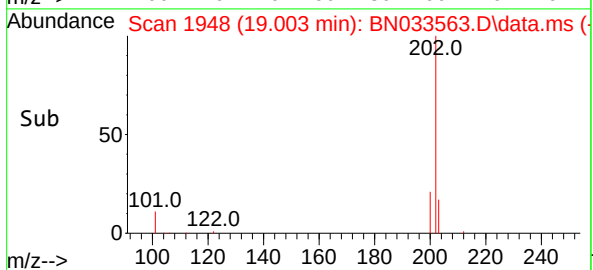
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

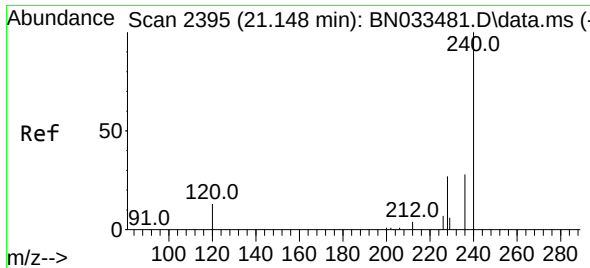


#28
Fluoranthene
Concen: 0.353 ng
RT: 19.003 min Scan# 1948
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03



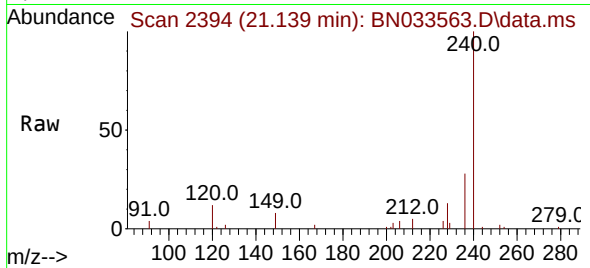
Tgt Ion:202 Resp: 21191
Ion Ratio Lower Upper
202 100
101 11.8 9.5 14.3
203 17.2 13.8 20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 21139
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

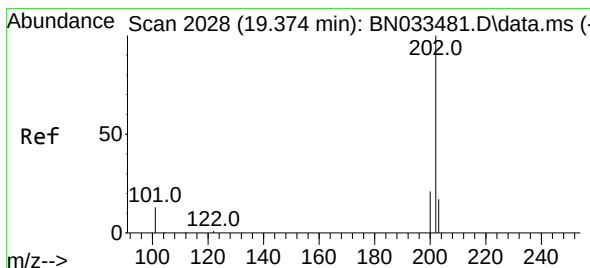
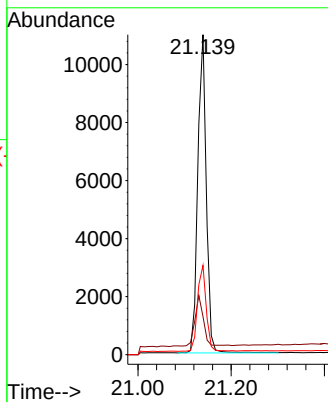
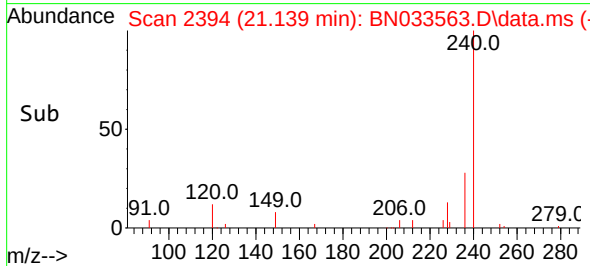
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:240 Resp: 13945
Ion Ratio Lower Upper
240 100
120 11.9 12.4 18.6
236 27.9 23.0 34.6

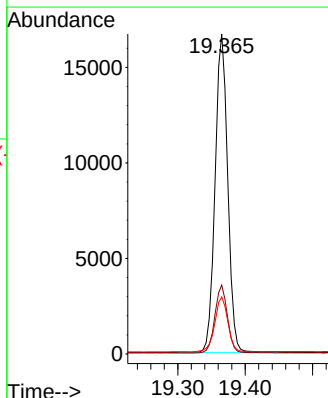
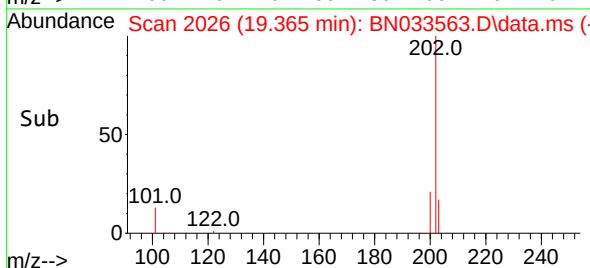
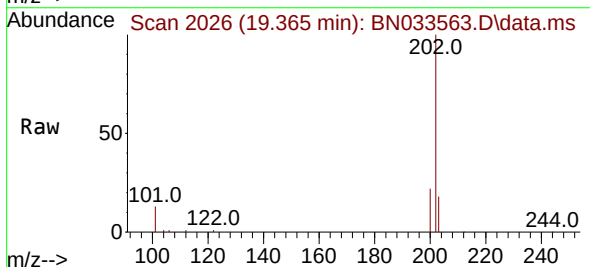
Manual Integrations
APPROVED

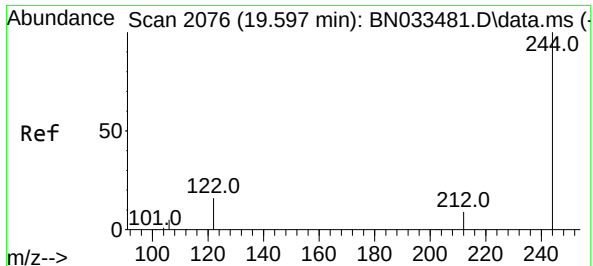
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#30
Pyrene
Concen: 0.348 ng
RT: 19.365 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

Tgt Ion:202 Resp: 21665
Ion Ratio Lower Upper
202 100
200 21.1 16.6 24.8
203 17.8 14.2 21.4





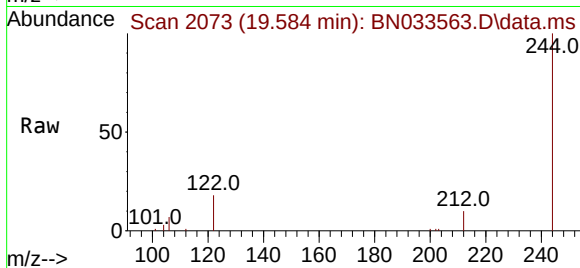
#31
Terphenyl-d14
Concen: 0.346 ng
RT: 19.584 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

Instrument :

BNA_N

ClientSampleId :

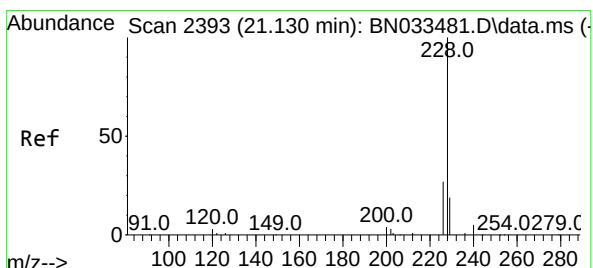
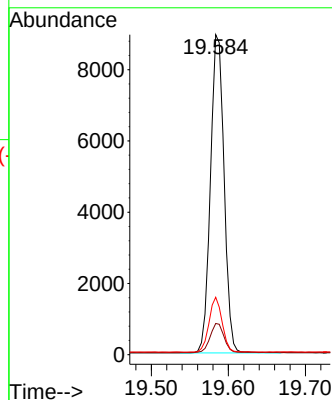
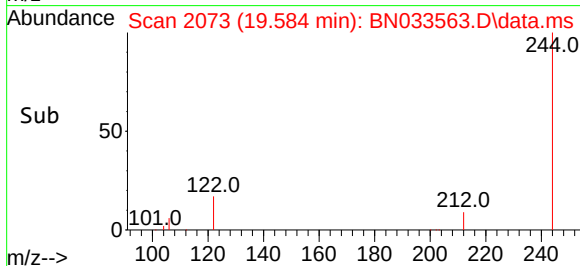
SSTDCCC0.4



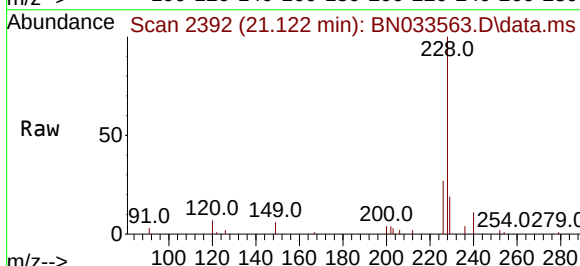
Tgt Ion:244 Resp: 1097
Ion Ratio Lower Upper
244 100
212 9.8 7.8 11.6
122 17.9 13.3 19.9

Manual Integrations
APPROVED

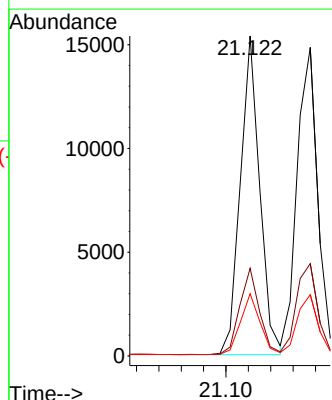
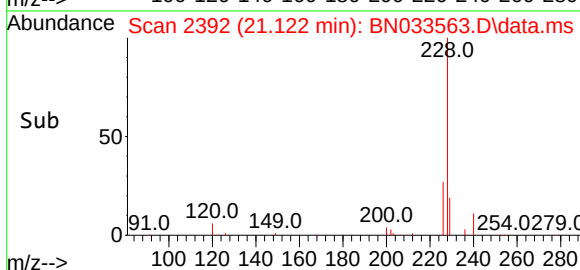
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

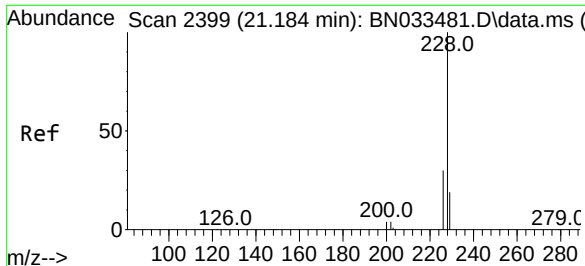


#32
Benzo(a)anthracene
Concen: 0.367 ng
RT: 21.122 min Scan# 2392
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03



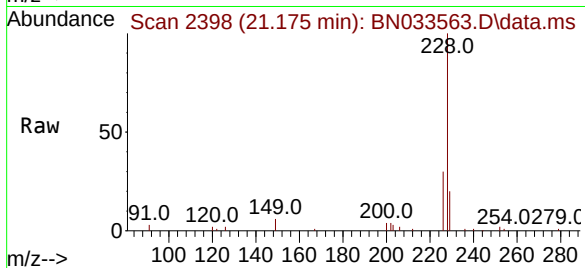
Tgt Ion:228 Resp: 18513
Ion Ratio Lower Upper
228 100
226 27.4 21.8 32.6
229 19.5 15.8 23.6





#33
Chrysene
Concen: 0.375 ng
RT: 21.175 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

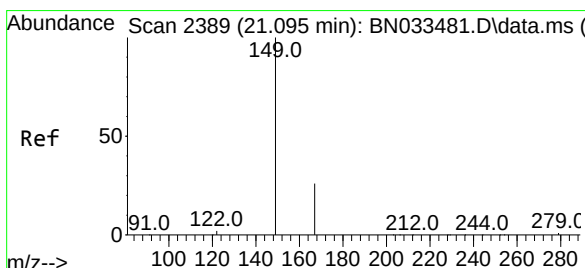
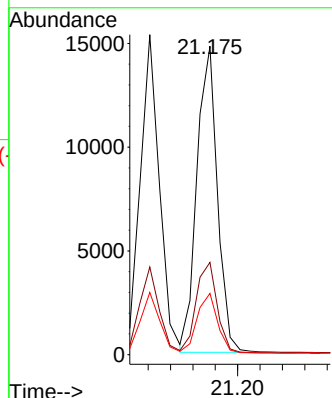
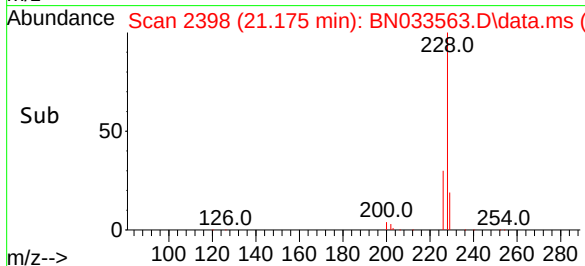
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:228 Resp: 18774
Ion Ratio Lower Upper
228 100
226 29.9 23.8 35.8
229 19.9 15.6 23.4

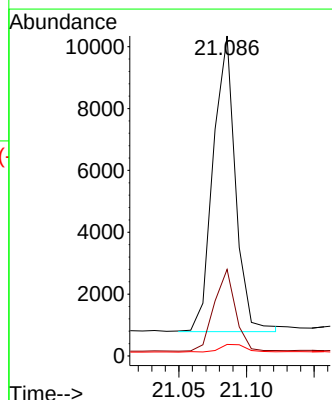
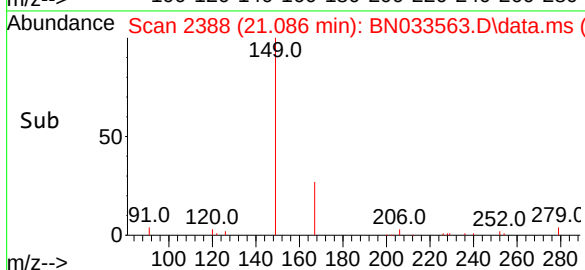
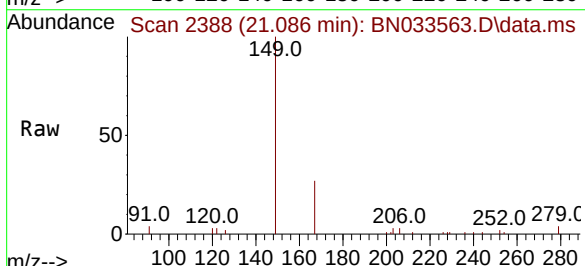
Manual Integrations
APPROVED

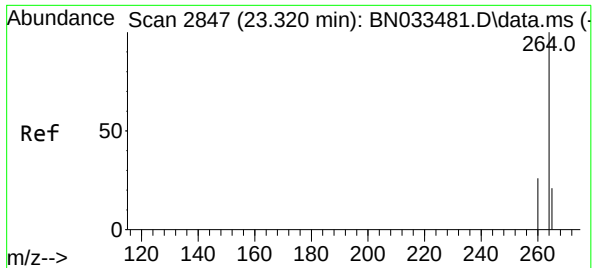
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.344 ng m
RT: 21.086 min Scan# 2388
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

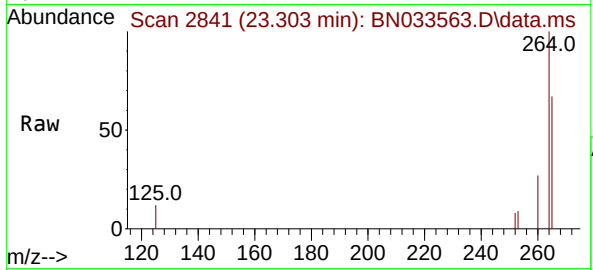
Tgt Ion:149 Resp: 10987
Ion Ratio Lower Upper
149 100
167 28.4 21.5 32.3
279 13.4 2.2 3.2#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

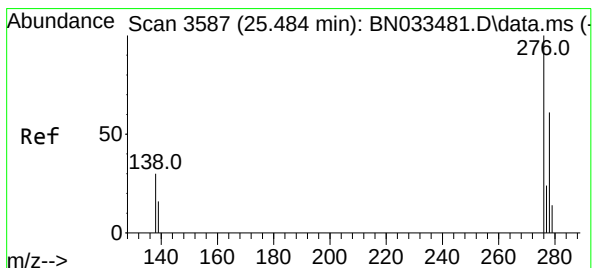
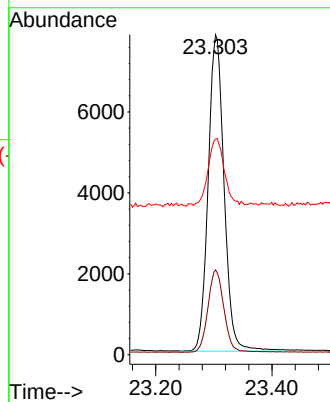
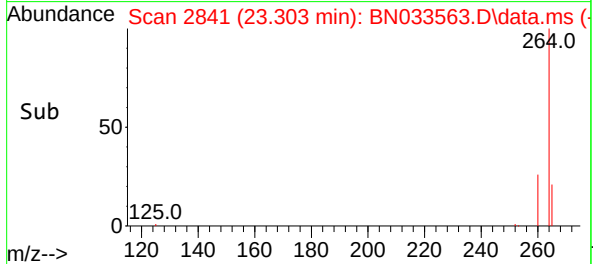
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 14850
Ion Ratio Lower Upper
264 100
260 26.5 20.8 31.2
265 67.4 52.2 78.2

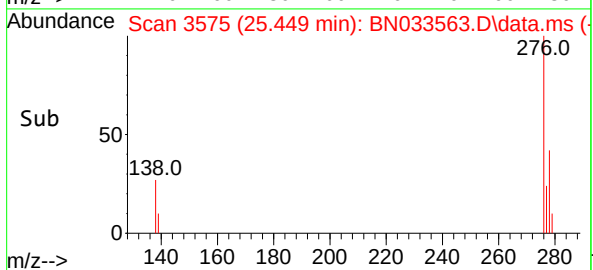
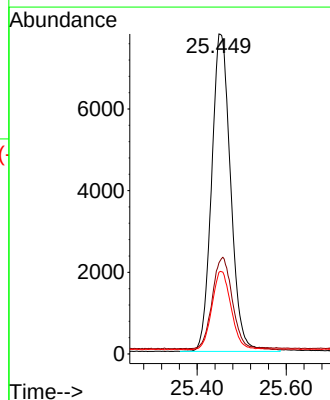
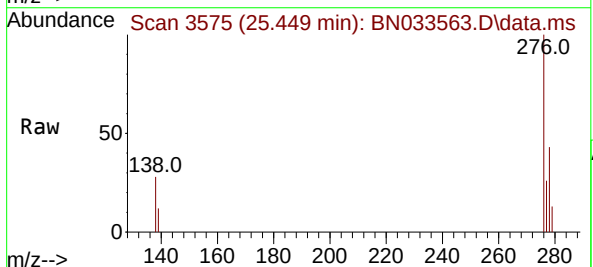
Manual Integrations
APPROVED

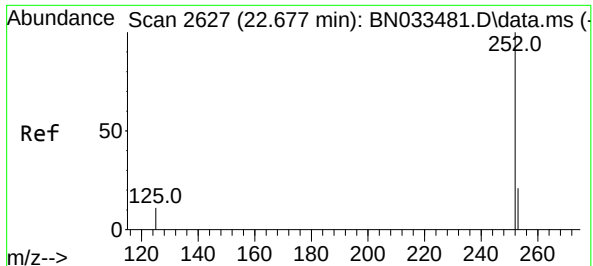
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.375 ng
RT: 25.449 min Scan# 3575
Delta R.T. 0.000 min
Lab File: BN033563.D
Acq: 22 Aug 2024 22:03

Tgt Ion:276 Resp: 23101
Ion Ratio Lower Upper
276 100
138 30.1 24.4 36.6
277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.366 ng

RT: 22.660 min Scan# 2621

Delta R.T. 0.000 min

Lab File: BN033563.D

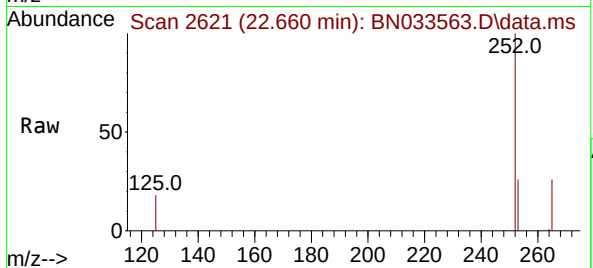
Acq: 22 Aug 2024 22:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



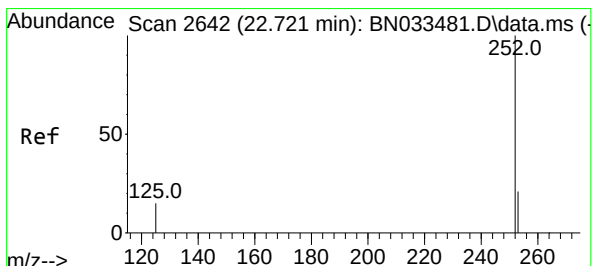
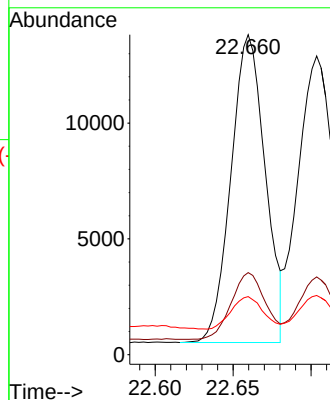
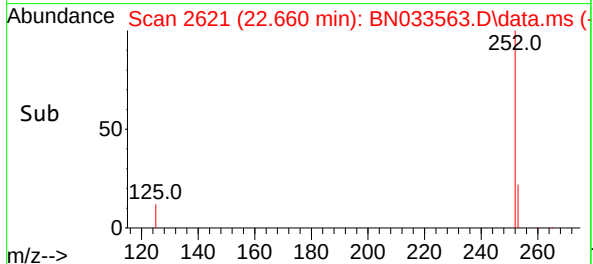
Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.6	19.8	29.8
125	18.2	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#38

Benzo(k)fluoranthene

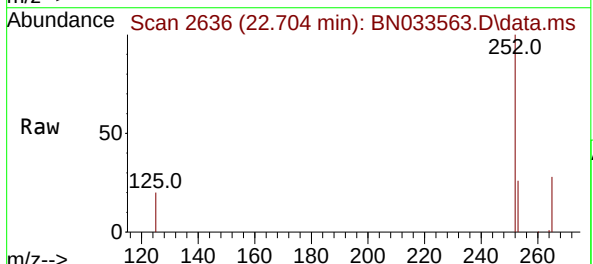
Concen: 0.367 ng

RT: 22.704 min Scan# 2636

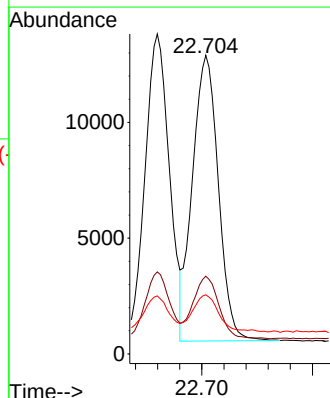
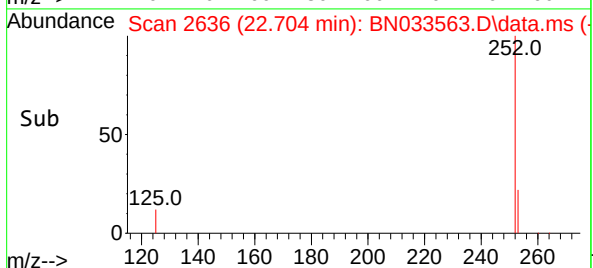
Delta R.T. 0.000 min

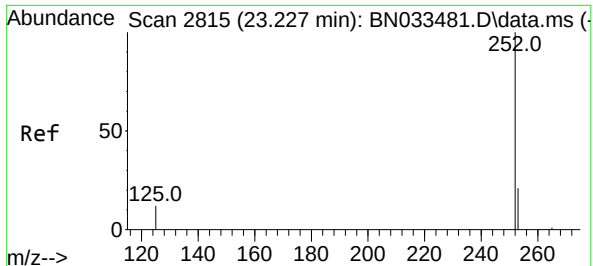
Lab File: BN033563.D

Acq: 22 Aug 2024 22:03



Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.1	19.8	29.8
125	19.8	15.8	23.8





#39

Benzo(a)pyrene

Concen: 0.366 ng

RT: 23.209 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033563.D

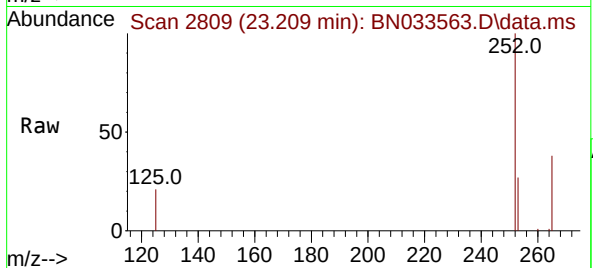
Acq: 22 Aug 2024 22:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

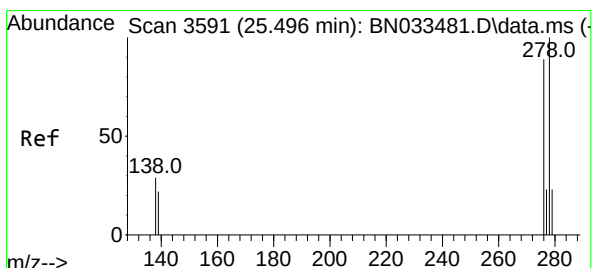
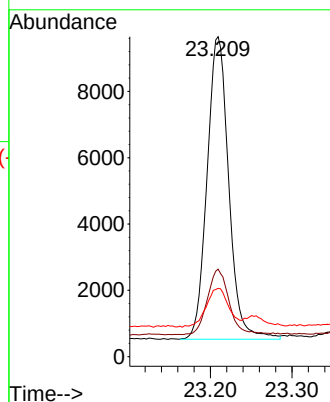
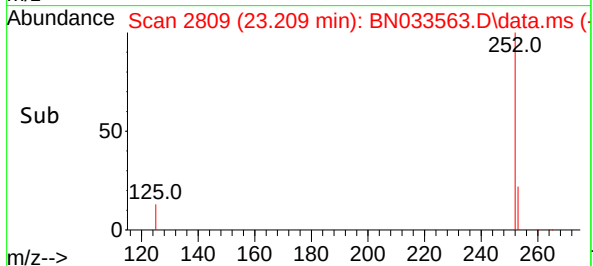


Tgt Ion:	252	Resp:	1679
Ion Ratio	Lower	Upper	
252	100		
253	27.3	21.5	32.3
125	21.3	17.0	25.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#40

Dibenzo(a,h)anthracene

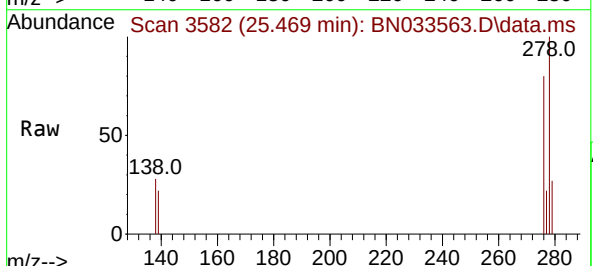
Concen: 0.371 ng

RT: 25.469 min Scan# 3582

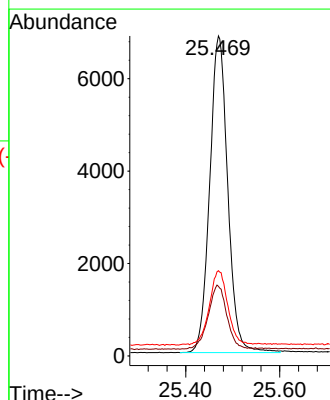
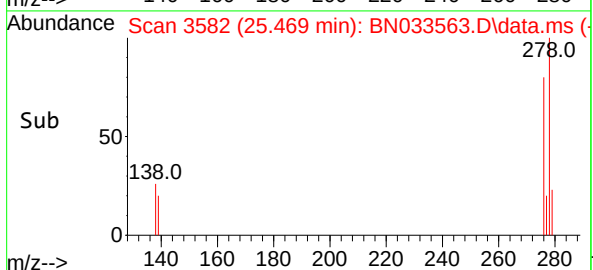
Delta R.T. 0.000 min

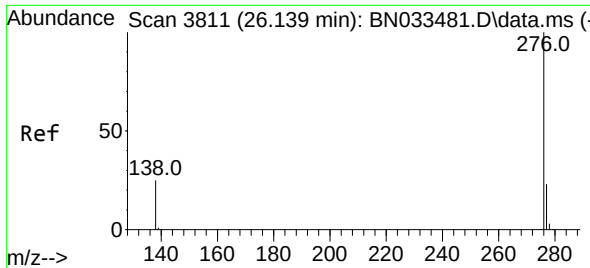
Lab File: BN033563.D

Acq: 22 Aug 2024 22:03



Tgt Ion:	278	Resp:	18290
Ion Ratio	Lower	Upper	
278	100		
139	21.7	19.1	28.7
279	26.7	21.0	31.4





#41

Benzo(g,h,i)perylene

Concen: 0.374 ng

RT: 26.104 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN033563.D

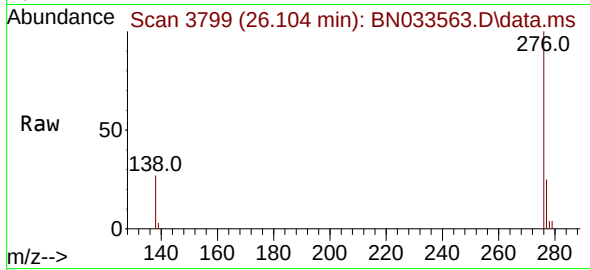
Acq: 22 Aug 2024 22:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 19730

Ion Ratio Lower Upper

276 100

277 24.7 19.7 29.5

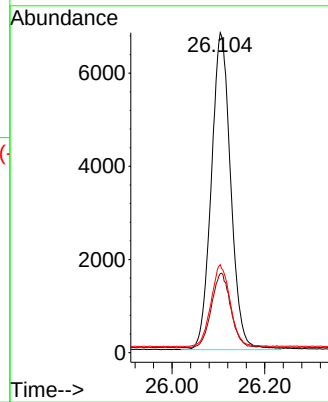
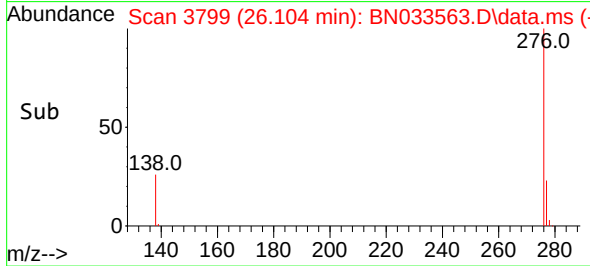
138 27.5 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033563.D
Acq On : 22 Aug 2024 22:03
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 23 00:23:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 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	65	0.00
2	1,4-Dioxane	0.460	0.403	12.4	80	0.00
3	n-Nitrosodimethylamine	0.535	0.466	12.9	67	0.00
4 S	2-Fluorophenol	1.271	1.055	17.0	54	0.00
5 S	Phenol-d6	1.512	1.314	13.1	63	0.00
6	bis(2-Chloroethyl)ether	1.072	1.024	4.5	89	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	90	0.00
8 S	Nitrobenzene-d5	0.332	0.295	11.1	88	0.00
9	Naphthalene	1.069	0.983	8.0	94	0.00
10	Hexachlorobutadiene	0.213	0.200	6.1	94	0.00
11 SURR	2-Methylnaphthalene-d10	0.572	0.518	9.4	95	0.00
12	2-Methylnaphthalene	0.677	0.607	10.3	94	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00
14 S	2,4,6-Tribromophenol	0.215	0.172	20.0	81	0.00
15 S	2-Fluorobiphenyl	1.634	1.564	4.3	92	0.00
16	Acenaphthylene	1.754	1.565	10.8	89	0.00
17	Acenaphthene	1.234	1.089	11.8	86	0.00
18	Fluorene	1.555	1.342	13.7	85	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	80	0.00
20	4,6-Dinitro-2-methylphenol	0.062	0.033	46.8#	52	0.00
21	4-Bromophenyl-phenylether	0.243	0.227	6.6	82	0.00
22	Hexachlorobenzene	0.268	0.257	4.1	82	0.00
23	Atrazine	0.194	0.170	12.4	78	0.00
24	Pentachlorophenol	0.116	0.096	17.2	79	0.00
25	Phenanthrene	1.113	1.033	7.2	80	0.00
26	Anthracene	0.985	0.877	11.0	80	0.00
27 SURR	Fluoranthene-d10	0.961	0.853	11.2	78	0.00
28	Fluoranthene	1.230	1.087	11.6	78	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	87	0.00
30	Pyrene	1.785	1.554	12.9	79	0.00
31 S	Terphenyl-d14	0.909	0.787	13.4	79	0.00
32	Benzo(a)anthracene	1.446	1.328	8.2	87	0.00
33	Chrysene	1.437	1.346	6.3	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.915	0.788	13.9	84	0.00
35 I	Perylene-d12	1.000	1.000	0.0	93	0.00
36	Indeno(1,2,3-cd)pyrene	1.661	1.555	6.4	95	0.00
37	Benzo(b)fluoranthene	1.494	1.368	8.4	96	0.00
38	Benzo(k)fluoranthene	1.470	1.350	8.2	95	0.00
39 C	Benzo(a)pyrene	1.236	1.131	8.5	96	0.00
40	Dibenzo(a,h)anthracene	1.328	1.231	7.3	93	0.00
41	Benzo(g,h,i)perylene	1.420	1.328	6.5	96	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033563.D
Acq On : 22 Aug 2024 22:03
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 23 00:23:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 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	65	0.00
2	1,4-Dioxane	0.400	0.350	12.5	80	0.00
3	n-Nitrosodimethylamine	0.400	0.348	13.0	67	0.00
4 S	2-Fluorophenol	0.400	0.332	17.0	54	0.00
5 S	Phenol-d6	0.400	0.348	13.0	63	0.00
6	bis(2-Chloroethyl)ether	0.400	0.382	4.5	89	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	90	0.00
8 S	Nitrobenzene-d5	0.400	0.355	11.3	88	0.00
9	Naphthalene	0.400	0.368	8.0	94	0.00
10	Hexachlorobutadiene	0.400	0.374	6.5	94	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.362	9.5	95	0.00
12	2-Methylnaphthalene	0.400	0.359	10.3	94	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	87	0.00
14 S	2,4,6-Tribromophenol	0.400	0.319	20.3	81	0.00
15 S	2-Fluorobiphenyl	0.400	0.383	4.3	92	0.00
16	Acenaphthylene	0.400	0.357	10.8	89	0.00
17	Acenaphthene	0.400	0.353	11.8	86	0.00
18	Fluorene	0.400	0.345	13.8	85	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	80	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.212	47.0#	52	0.00
21	4-Bromophenyl-phenylether	0.400	0.374	6.5	82	0.00
22	Hexachlorobenzene	0.400	0.383	4.3	82	0.00
23	Atrazine	0.400	0.350	12.5	78	0.00
24	Pentachlorophenol	0.400	0.330	17.5	79	0.00
25	Phenanthrene	0.400	0.371	7.3	80	0.00
26	Anthracene	0.400	0.356	11.0	80	0.00
27 SURR	Fluoranthene-d10	0.400	0.355	11.3	78	0.00
28	Fluoranthene	0.400	0.353	11.8	78	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	87	0.00
30	Pyrene	0.400	0.348	13.0	79	0.00
31 S	Terphenyl-d14	0.400	0.346	13.5	79	0.00
32	Benzo(a)anthracene	0.400	0.367	8.3	87	0.00
33	Chrysene	0.400	0.375	6.3	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.344	14.0	84	0.00
35 I	Perylene-d12	0.400	0.400	0.0	93	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.375	6.3	95	0.00
37	Benzo(b)fluoranthene	0.400	0.366	8.5	96	0.00
38	Benzo(k)fluoranthene	0.400	0.367	8.3	95	0.00
39 C	Benzo(a)pyrene	0.400	0.366	8.5	96	0.00
40	Dibenzo(a,h)anthracene	0.400	0.371	7.3	93	0.00
41	Benzo(g,h,i)perylene	0.400	0.374	6.5	96	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.: P3671 SAS No.: P3671 SDG No.: P3671

Instrument ID: BNA_N Calibration Date/Time: 08/23/2024 09:48

Lab File ID: BN033582.D Init. Calib. Date(s): 08/19/2024 08/19/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:16 19:53

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.572	0.537		-6.1	20.0
Fluoranthene-d10	0.961	0.996		3.6	20.0
2-Fluorophenol	1.271	1.116		-12.2	20.0
Phenol-d6	1.512	1.361		-10.0	20.0
Nitrobenzene-d5	0.332	0.305		-8.1	20.0
Naphthalene	1.069	0.979		-8.4	20.0
2-Methylnaphthalene	0.677	0.621		-8.3	20.0
2-Fluorobiphenyl	1.634	1.456		-10.9	20.0
Acenaphthylene	1.754	1.541		-12.1	20.0
Acenaphthene	1.234	1.077		-12.7	20.0
Fluorene	1.555	1.395		-10.3	20.0
2,4,6-Tribromophenol	0.215	0.215		0.0	20.0
Phenanthrene	1.113	1.005		-9.7	20.0
Anthracene	0.985	0.894		-9.2	20.0
Fluoranthene	1.230	1.243		1.1	20.0
Pyrene	1.785	1.433		-19.7	20.0
Terphenyl-d14	0.909	0.768		-15.5	20.0
Benzo(a)anthracene	1.446	1.377		-4.8	20.0
Chrysene	1.437	1.334		-7.2	20.0
Benzo(b)fluoranthene	1.494	1.327		-11.2	20.0
Benzo(k)fluoranthene	1.470	1.255		-14.6	20.0
Benzo(a)pyrene	1.236	1.116		-9.7	20.0
Indeno(1,2,3-cd)pyrene	1.661	1.484		-10.7	20.0
Dibenzo(a,h)anthracene	1.328	1.183		-10.9	20.0
Benzo(g,h,i)perylene	1.420	1.247		-12.2	20.0
1,4-Dioxane	0.460	0.443		-3.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
 Data File : BN033582.D
 Acq On : 23 Aug 2024 09:48
 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 08/24/2024

Supervised By :mohammad ahmed 08/29/2024

Quant Time: Aug 23 13:38:16 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 23 00:22:18 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	7007	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	18519	0.400	ng	# 0.00
13) Acenaphthene-d10	14.178	164	9756	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	21233	0.400	ng	0.00
29) Chrysene-d12	21.139	240	19542	0.400	ng	# 0.00
35) Perylene-d12	23.306	264	22177	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.176	112	7822	0.351	ng	0.00
5) Phenol-d6	6.729	99	9537	0.360	ng	0.00
8) Nitrobenzene-d5	8.670	82	5644	0.367	ng	-0.01
11) 2-Methylnaphthalene-d10	11.899	152	9940	0.375	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	2093	0.399	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	14208	0.357	ng	0.00
27) Fluoranthene-d10	18.970	212	21144	0.414	ng	0.00
31) Terphenyl-d14	19.583	244	15002	0.338	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.183	88	3102	0.385	ng	93
3) n-Nitrosodimethylamine	3.471	42	3090	0.330	ng	# 99
6) bis(2-Chloroethyl)ether	6.981	93	7079	0.377	ng	99
9) Naphthalene	10.346	128	18130	0.366	ng	99
10) Hexachlorobutadiene	10.645	225	3685	0.373	ng	# 100
12) 2-Methylnaphthalene	11.975	142	11497	0.367	ng	99
16) Acenaphthylene	13.889	152	15033	0.351	ng	100
17) Acenaphthene	14.242	154	10508	0.349	ng	98
18) Fluorene	15.236	166	13611	0.359	ng	99
20) 4,6-Dinitro-2-methylph...	15.311	198	1295	0.391	ng	94
21) 4-Bromophenyl-phenylether	16.135	248	4554	0.353	ng	98
22) Hexachlorobenzene	16.247	284	5166	0.363	ng	99
23) Atrazine	16.408	200	3931	0.382	ng	98
24) Pentachlorophenol	16.582	266	2455	0.398	ng	98
25) Phenanthrene	16.966	178	21333	0.361	ng	100
26) Anthracene	17.053	178	18975	0.363	ng	99
28) Fluoranthene	18.998	202	26399	0.404	ng	100
30) Pyrene	19.365	202	28003	0.321	ng	100
32) Benzo(a)anthracene	21.121	228	26910	0.381	ng	100
33) Chrysene	21.175	228	26060	0.371	ng	100
34) Bis(2-ethylhexyl)phtha...	21.085	149	19294m	0.431	ng	
36) Indeno(1,2,3-cd)pyrene	25.454	276	32901	0.357	ng	98
37) Benzo(b)fluoranthene	22.659	252	29428	0.355	ng	99
38) Benzo(k)fluoranthene	22.703	252	27836	0.341	ng	98
39) Benzo(a)pyrene	23.209	252	24756	0.361	ng	97
40) Dibenzo(a,h)anthracene	25.466	278	26225	0.356	ng	97
41) Benzo(g,h,i)perylene	26.106	276	27657	0.351	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033582.D
Acq On : 23 Aug 2024 09:48
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

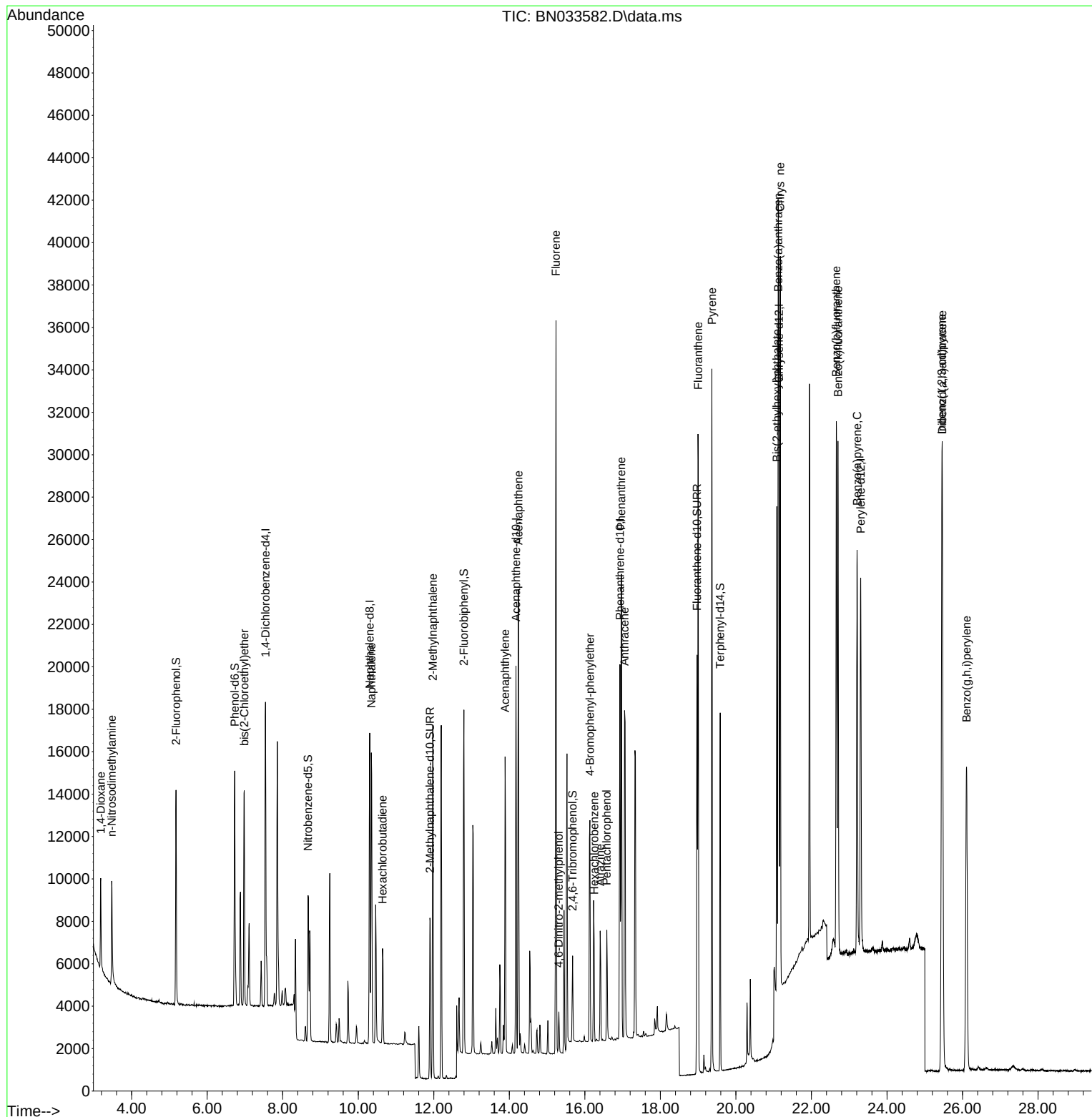
Manual Integrations

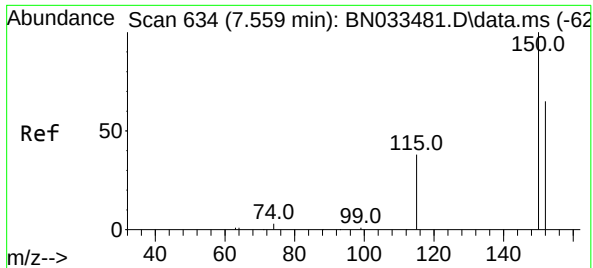
APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024

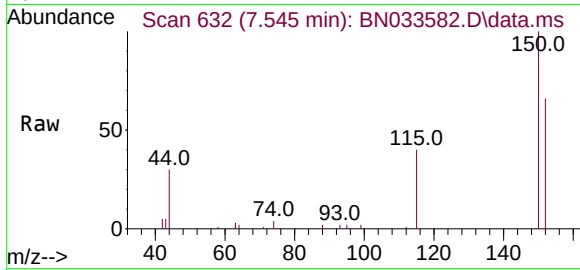
Quant Time: Aug 23 13:38:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

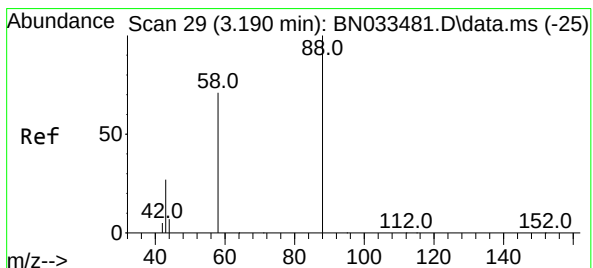
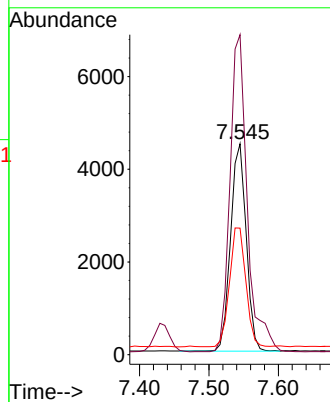
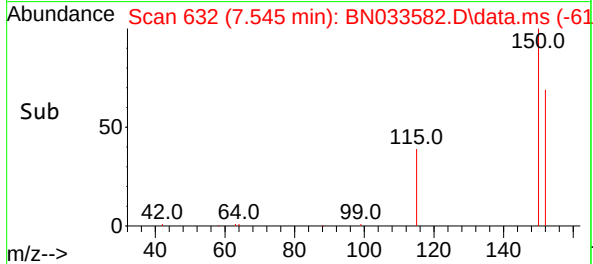
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 700
Ion Ratio Lower Upper
152 100
150 151.7 122.2 183.2
115 60.0 47.2 70.8

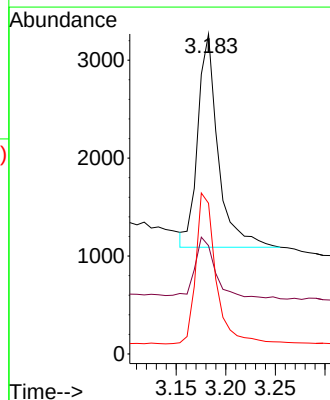
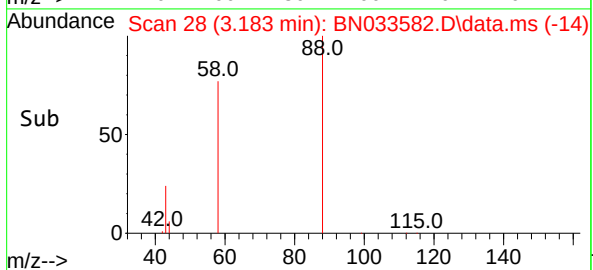
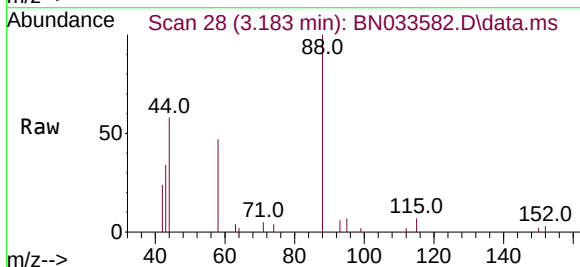
Manual Integrations
APPROVED

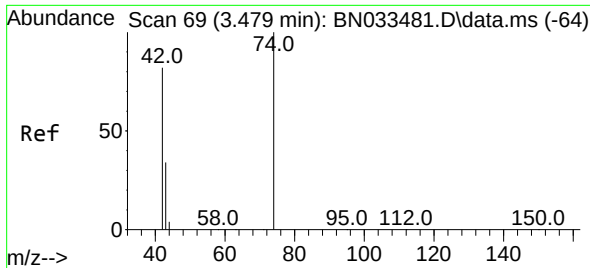
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#2
1,4-Dioxane
Concen: 0.385 ng
RT: 3.183 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

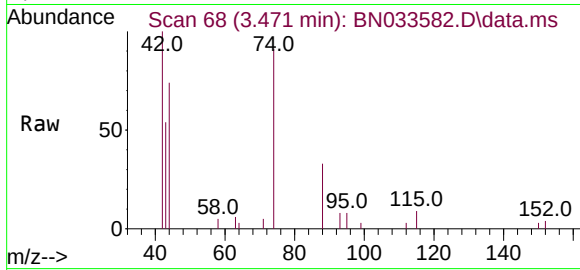
Tgt Ion: 88 Resp: 3102
Ion Ratio Lower Upper
88 100
43 30.6 25.0 37.4
58 70.4 62.5 93.7





#3
n-Nitrosodimethylamine
Concen: 0.330 ng
RT: 3.471 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

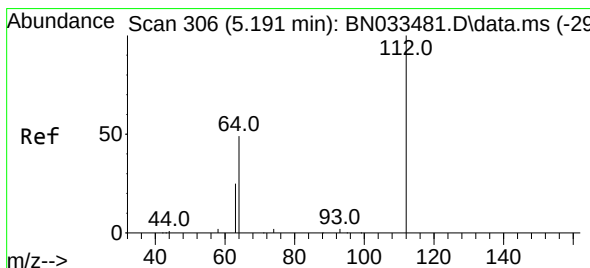
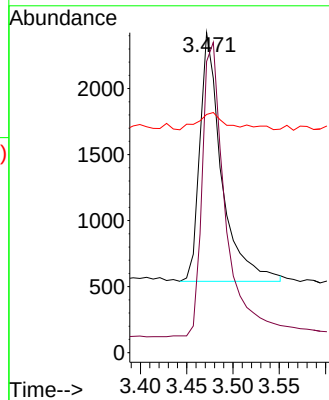
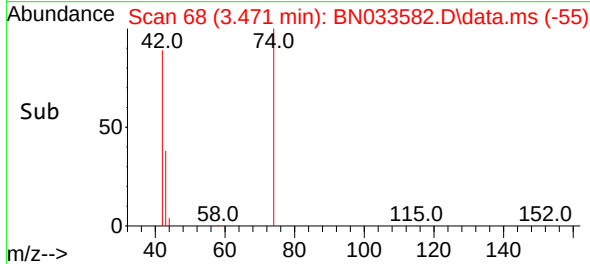
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 42 Resp: 3090
Ion Ratio Lower Upper
42 100
74 126.6 100.2 150.2
44 8.0 5.3 7.9

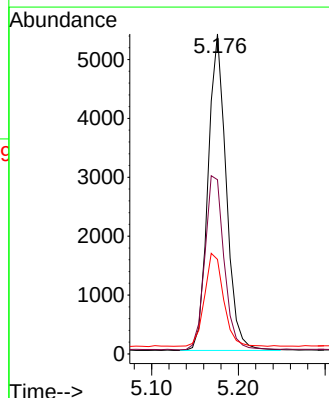
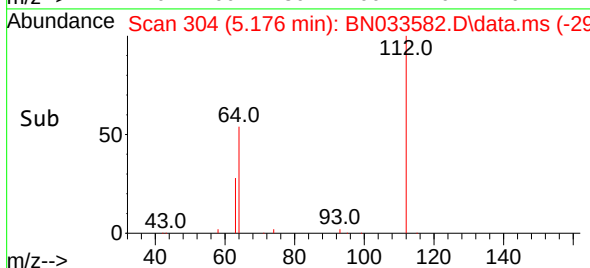
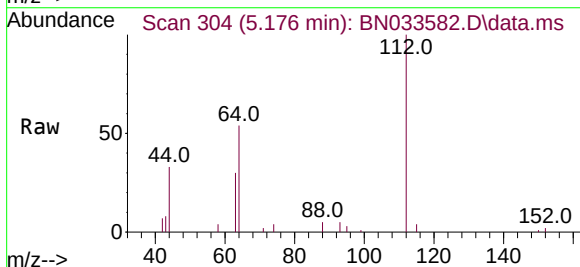
Manual Integrations
APPROVED

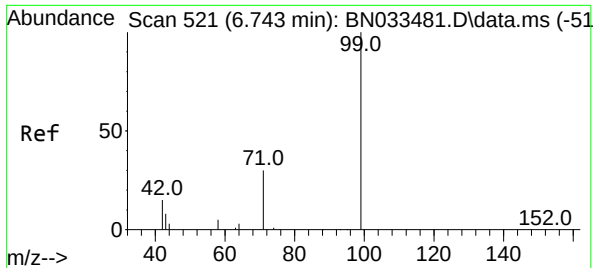
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#4
2-Fluorophenol
Concen: 0.351 ng
RT: 5.176 min Scan# 304
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

Tgt Ion:112 Resp: 7822
Ion Ratio Lower Upper
112 100
64 58.4 47.1 70.7
63 30.6 24.9 37.3





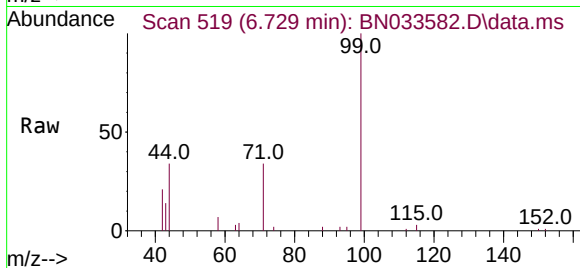
#5
Phenol-d6
Concen: 0.360 ng
RT: 6.729 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

Instrument :

BNA_N

ClientSampleId :

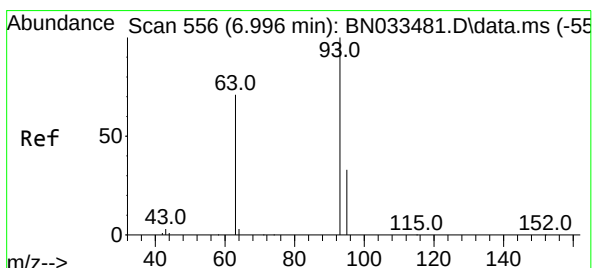
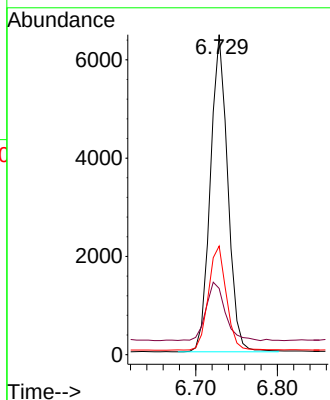
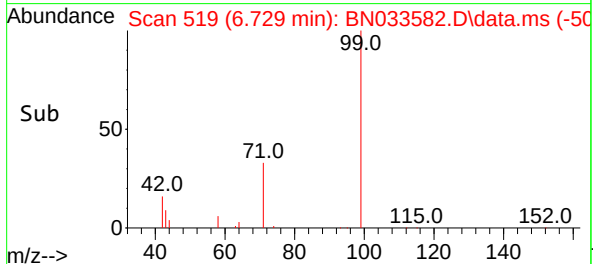
SSTDCCC0.4



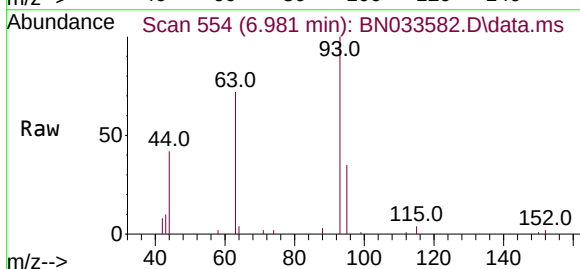
Tgt Ion: 99 Resp: 953
Ion Ratio Lower Upper
99 100
42 20.1 16.6 24.8
71 34.0 26.2 39.4

Manual Integrations
APPROVED

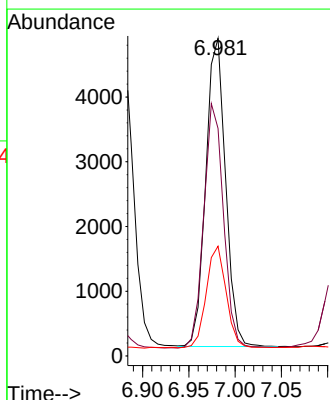
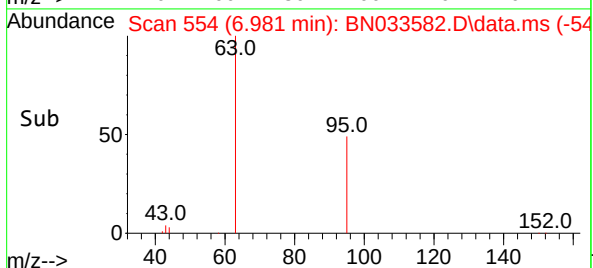
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

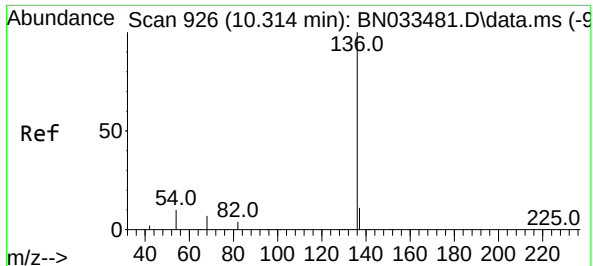


#6
bis(2-Chloroethyl)ether
Concen: 0.377 ng
RT: 6.981 min Scan# 554
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48



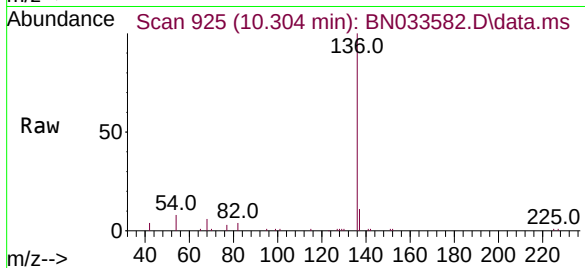
Tgt Ion: 93 Resp: 7079
Ion Ratio Lower Upper
93 100
63 79.1 63.0 94.4
95 33.2 26.0 39.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

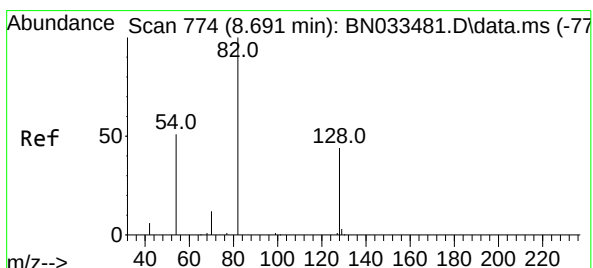
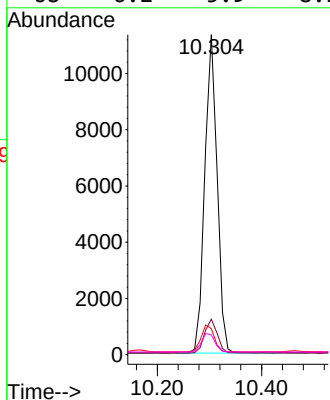
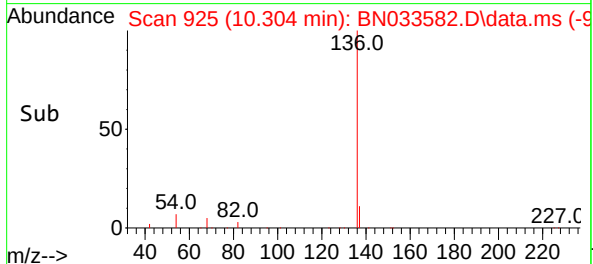
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:136 Resp: 18519
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.6
54 8.1 8.3 12.5
68 6.2 5.9 8.9

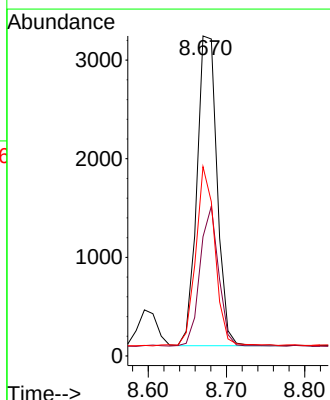
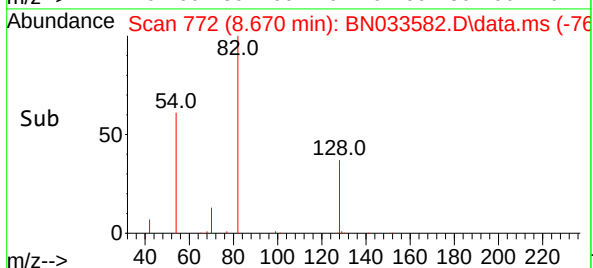
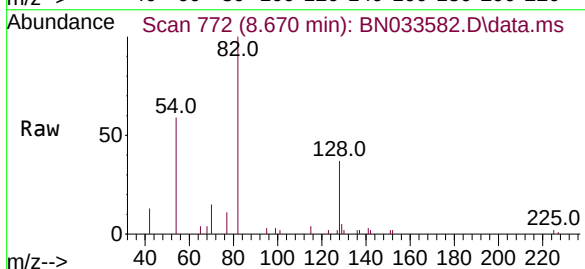
Manual Integrations
APPROVED

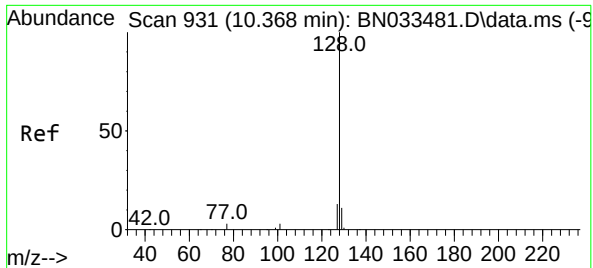
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#8
Nitrobenzene-d5
Concen: 0.367 ng
RT: 8.670 min Scan# 772
Delta R.T. -0.011 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

Tgt Ion: 82 Resp: 5644
Ion Ratio Lower Upper
82 100
128 37.3 36.0 54.0
54 59.2 42.0 63.0





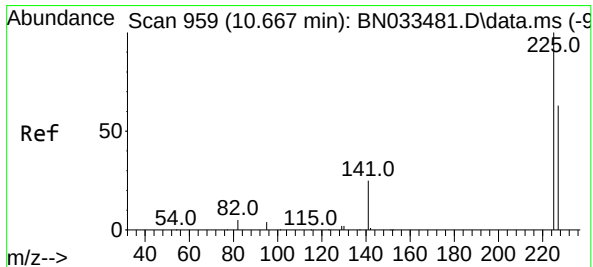
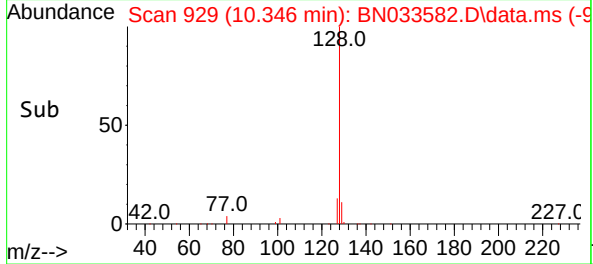
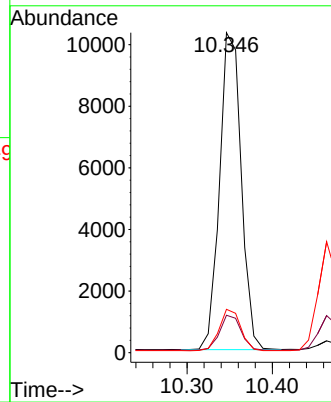
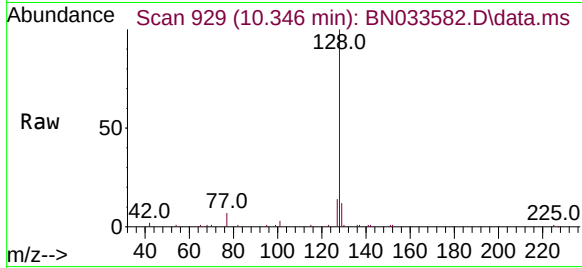
#9
Naphthalene
Concen: 0.366 ng
RT: 10.346 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 18130
Ion Ratio Lower Upper
128 100
129 11.7 9.1 13.7
127 13.5 10.7 16.1

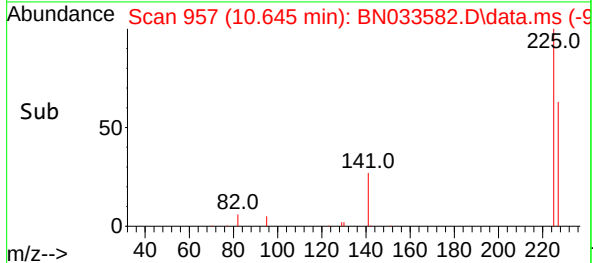
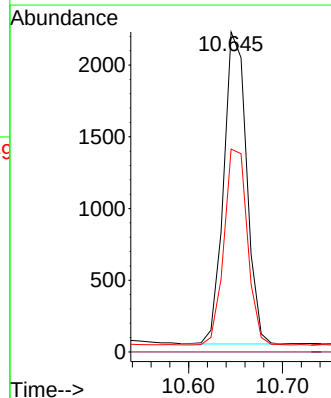
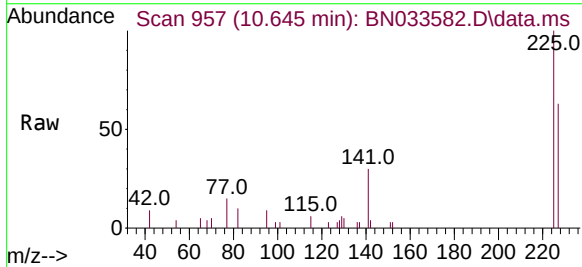
Manual Integrations
APPROVED

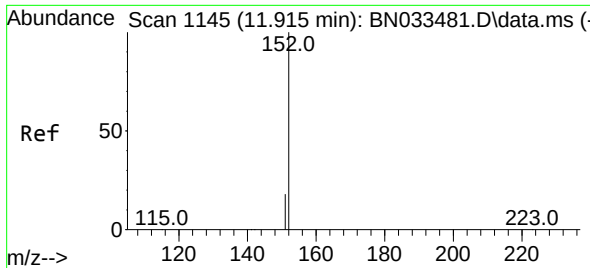
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.645 min Scan# 957
Delta R.T. -0.011 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

Tgt Ion:225 Resp: 3685
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.2 76.8





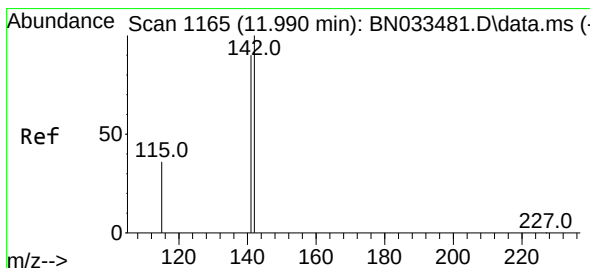
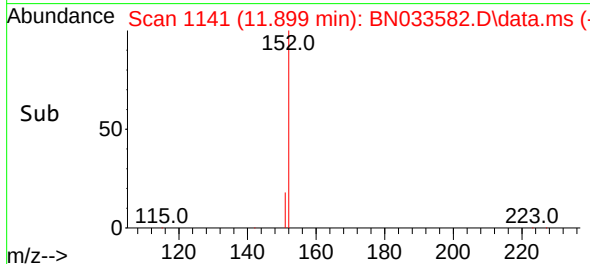
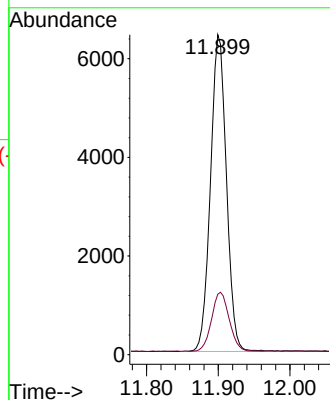
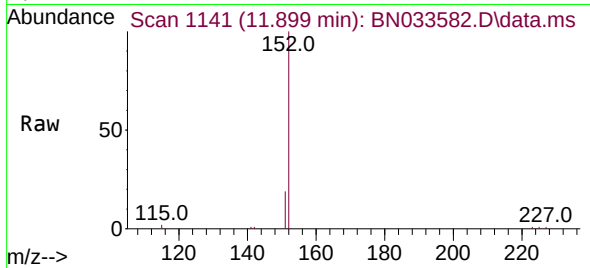
#11
2-Methylnaphthalene-d10
Concen: 0.375 ng
RT: 11.899 min Scan# 1141
Delta R.T. -0.004 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 9940
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0

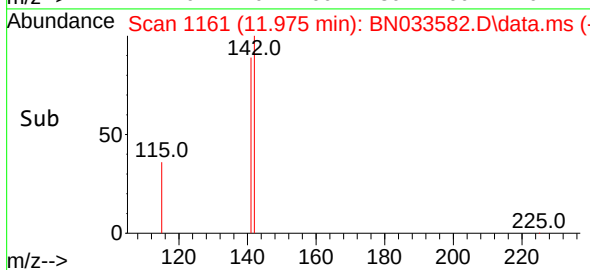
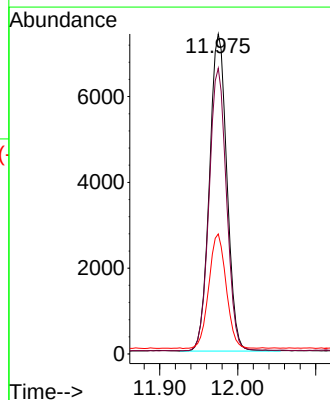
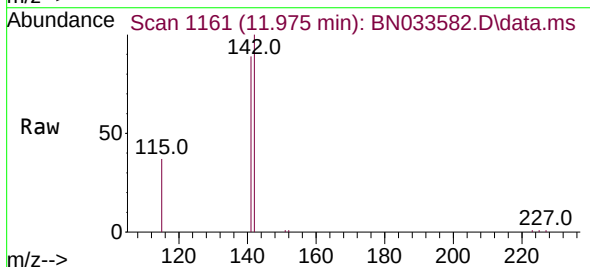
Manual Integrations
APPROVED

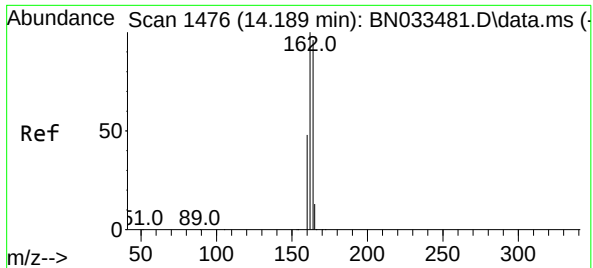
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#12
2-Methylnaphthalene
Concen: 0.367 ng
RT: 11.975 min Scan# 1161
Delta R.T. -0.004 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

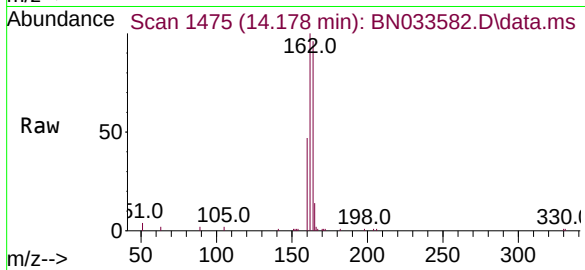
Tgt Ion:142 Resp: 11497
Ion Ratio Lower Upper
142 100
141 89.3 71.7 107.5
115 37.5 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1475
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

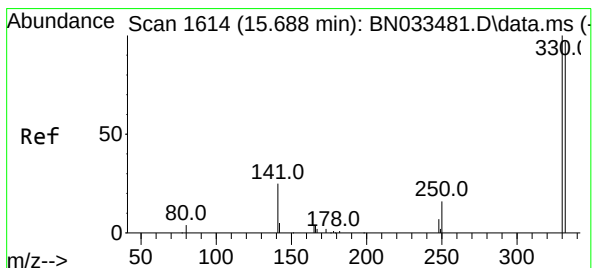
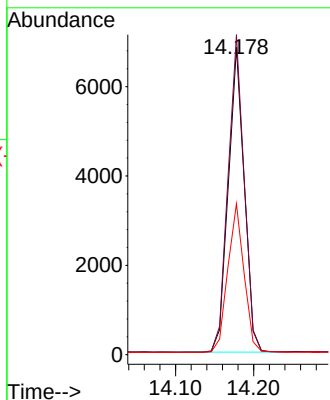
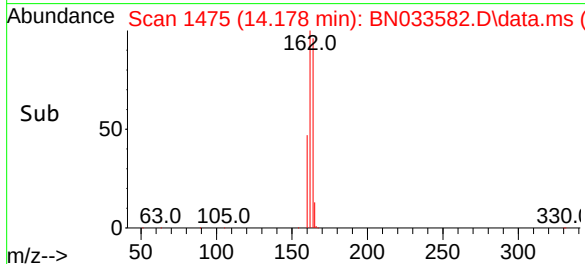
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



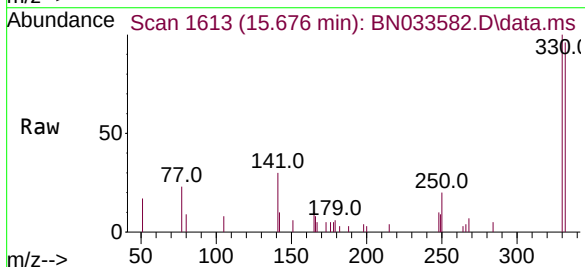
Tgt Ion:164 Resp: 9750
Ion Ratio Lower Upper
164 100
162 104.1 83.5 125.3
160 49.1 40.2 60.4

Manual Integrations
APPROVED

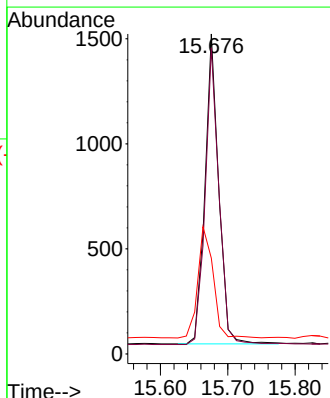
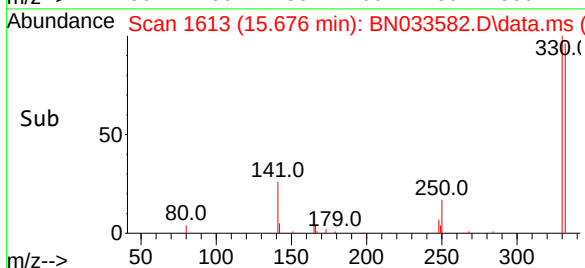
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

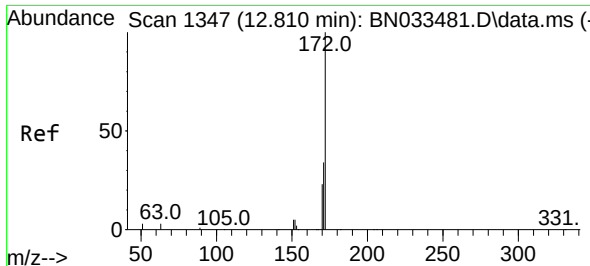


#14
2,4,6-Tribromophenol
Concen: 0.399 ng
RT: 15.676 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48



Tgt Ion:330 Resp: 2093
Ion Ratio Lower Upper
330 100
332 96.0 77.5 116.3
141 39.5 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 0.357 ng

RT: 12.799 min Scan# 1447

Delta R.T. -0.000 min

Lab File: BN033582.D

Acq: 23 Aug 2024 09:48

Instrument :

BNA_N

ClientSampleId :

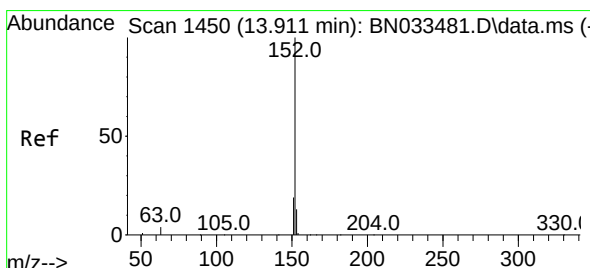
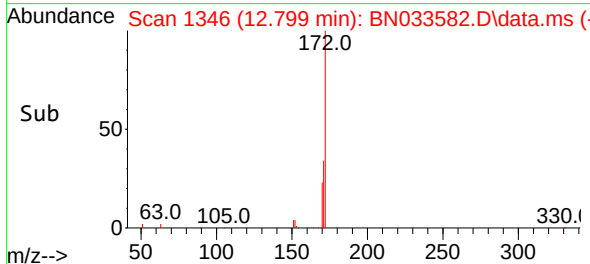
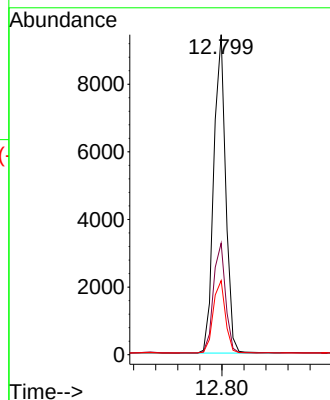
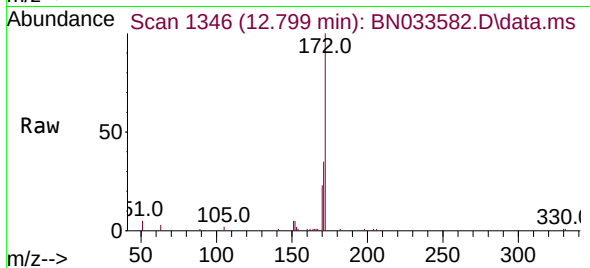
SSTDCCC0.4

Tgt Ion:	172	Resp:	1420
Ion Ratio	Lower	Upper	
172	100		
171	34.8	27.7	41.5
170	23.1	18.3	27.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#16

Acenaphthylene

Concen: 0.351 ng

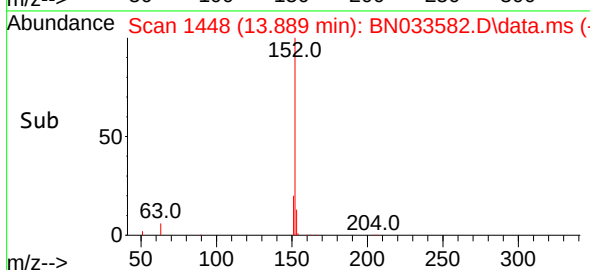
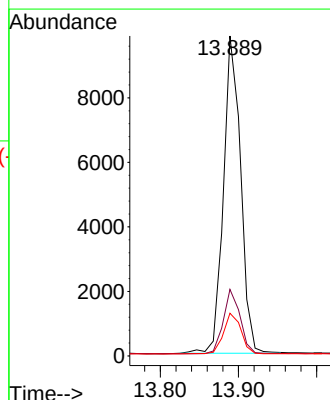
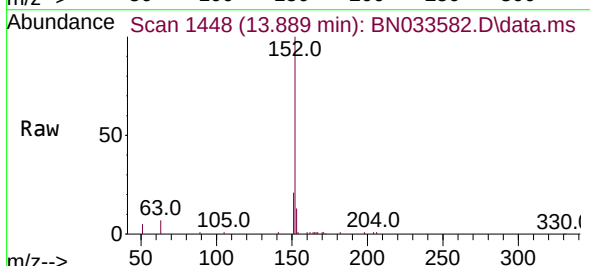
RT: 13.889 min Scan# 1448

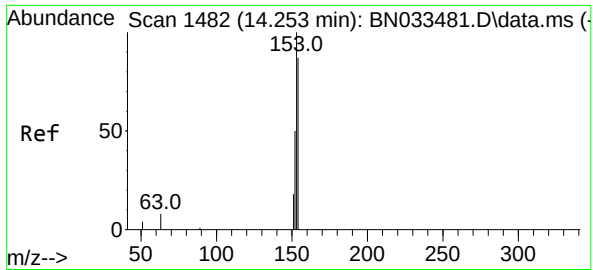
Delta R.T. -0.011 min

Lab File: BN033582.D

Acq: 23 Aug 2024 09:48

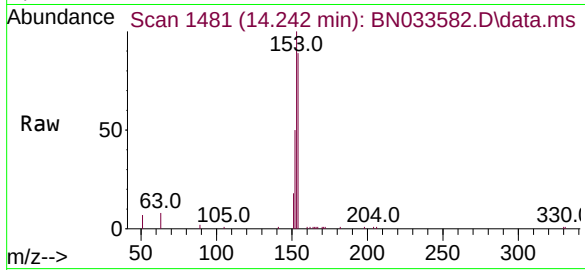
Tgt Ion:	152	Resp:	15033
Ion Ratio	Lower	Upper	
152	100		
151	19.8	15.7	23.5
153	12.9	10.3	15.5





#17
Acenaphthene
Concen: 0.349 ng
RT: 14.242 min Scan# 1481
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

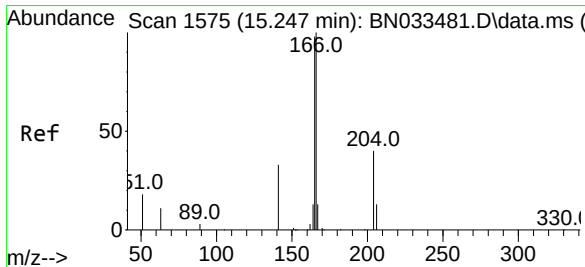
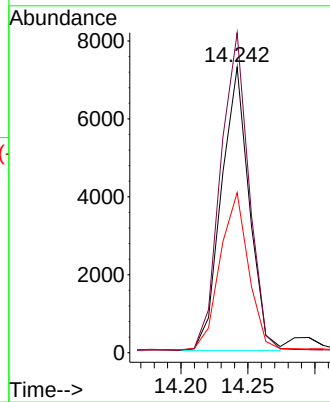
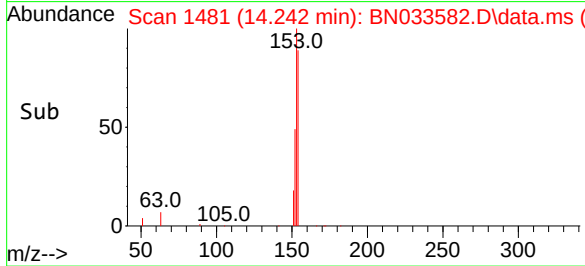
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 10508
Ion Ratio Lower Upper
154 100
153 113.5 89.0 133.6
152 56.9 45.2 67.8

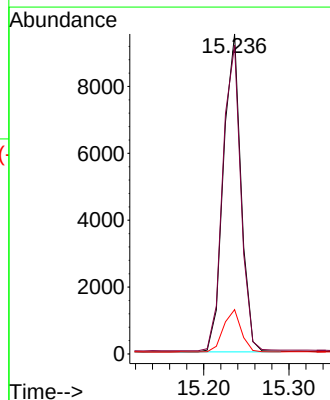
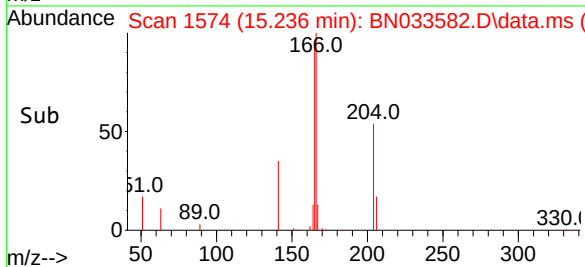
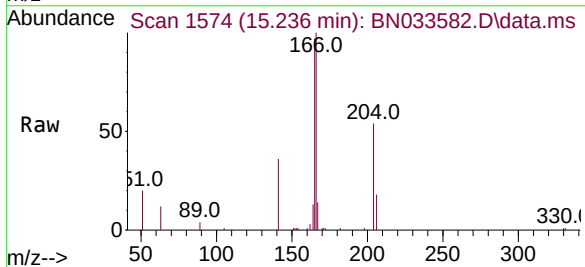
Manual Integrations
APPROVED

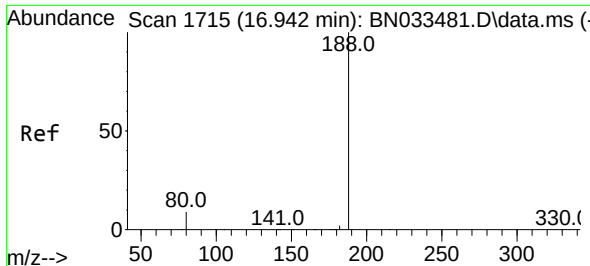
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#18
Fluorene
Concen: 0.359 ng
RT: 15.236 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

Tgt Ion:166 Resp: 13611
Ion Ratio Lower Upper
166 100
165 98.4 78.2 117.4
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.929 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033582.D

Acq: 23 Aug 2024 09:48

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

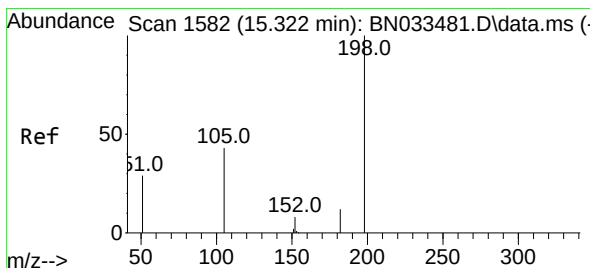
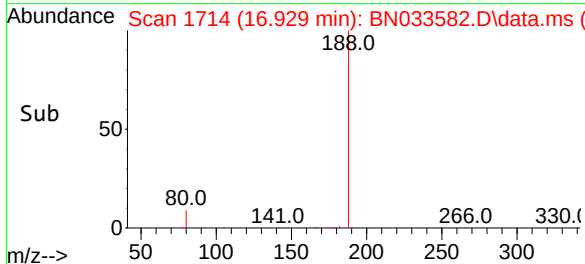
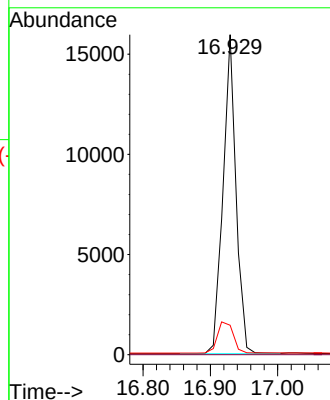
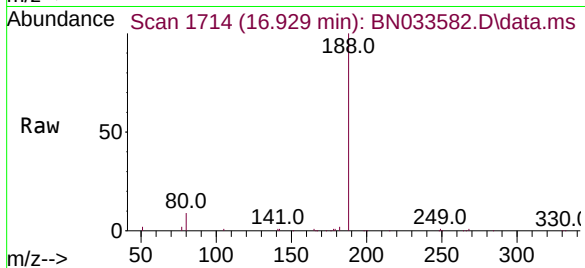
Tgt Ion:188	Resp:	2123
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	9.2	11.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.391 ng

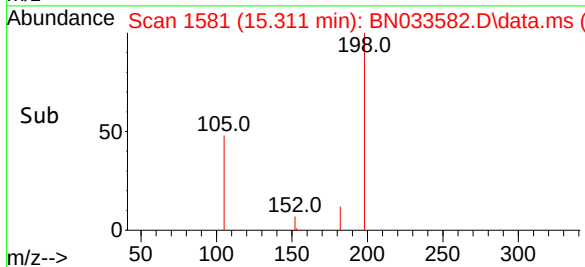
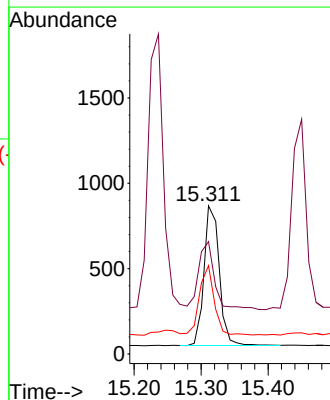
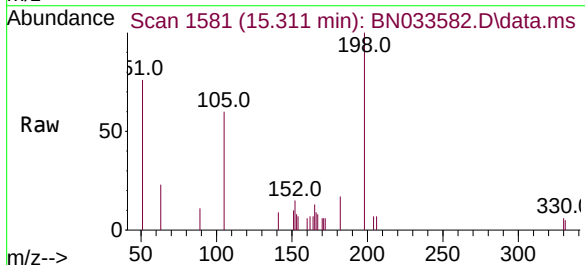
RT: 15.311 min Scan# 1581

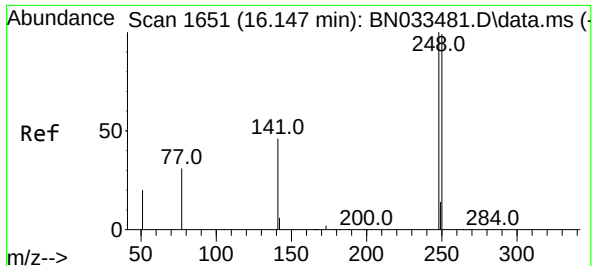
Delta R.T. -0.011 min

Lab File: BN033582.D

Acq: 23 Aug 2024 09:48

Tgt Ion:198	Resp:	1295
Ion Ratio	Lower	Upper
198	100	
51	75.8	65.1
105	59.7	44.8





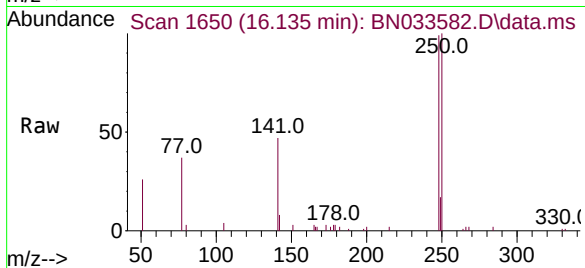
#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 16.135 min Scan# 1650
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

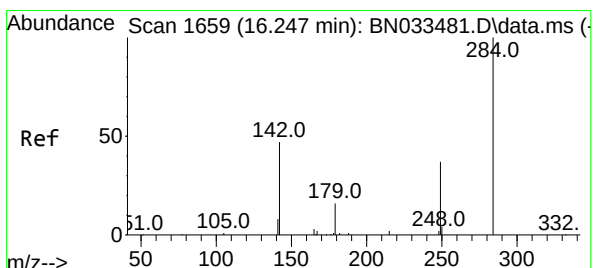
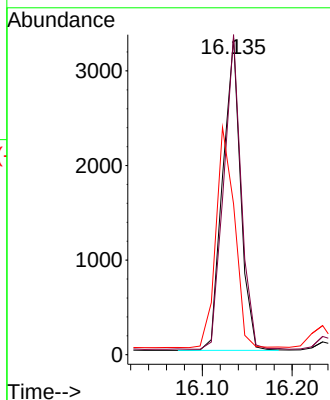
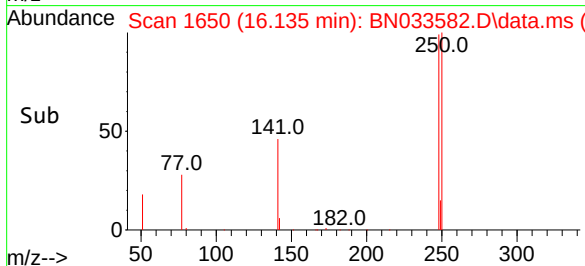


Tgt Ion:248 Resp: 455
Ion Ratio Lower Upper
248 100
250 101.1 79.2 118.8
141 47.6 37.9 56.9

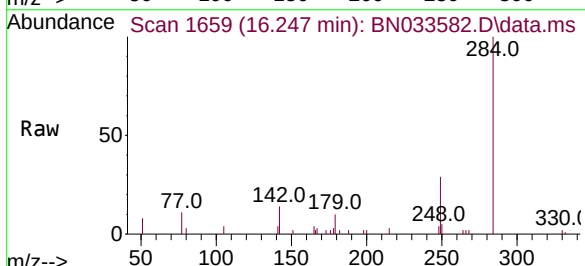
Manual Integrations

APPROVED

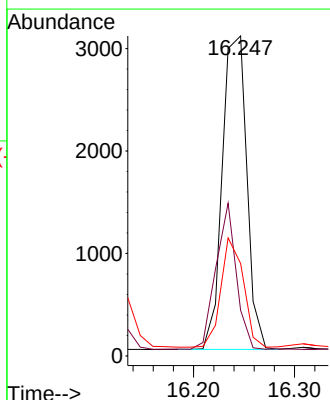
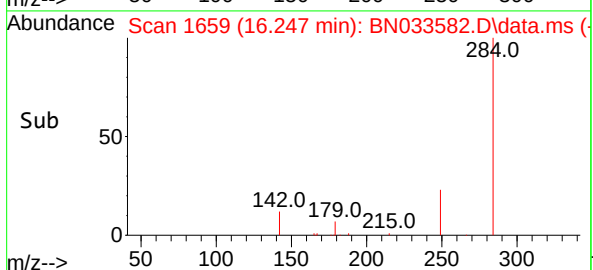
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

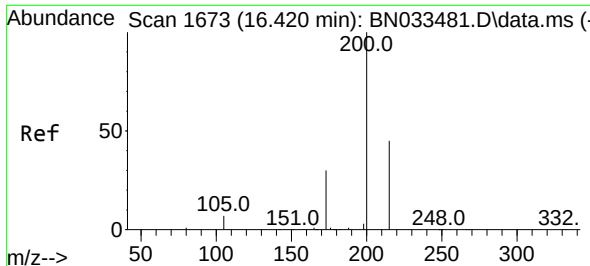


#22
Hexachlorobenzene
Concen: 0.363 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48



Tgt Ion:284 Resp: 5166
Ion Ratio Lower Upper
284 100
142 38.6 31.8 47.6
249 31.9 26.0 39.0





#23

Atrazine

Concen: 0.382 ng

RT: 16.408 min Scan# 1672

Delta R.T. -0.013 min

Lab File: BN033582.D

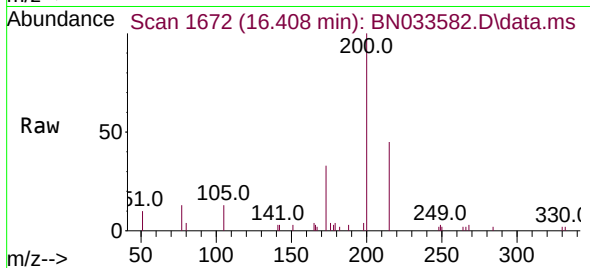
Acq: 23 Aug 2024 09:48

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

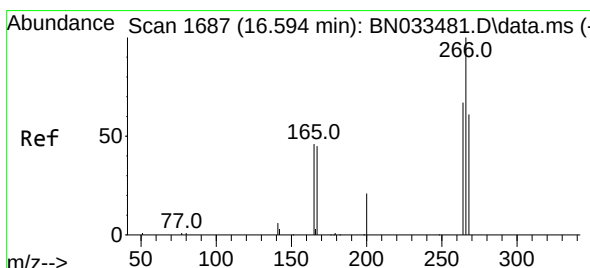
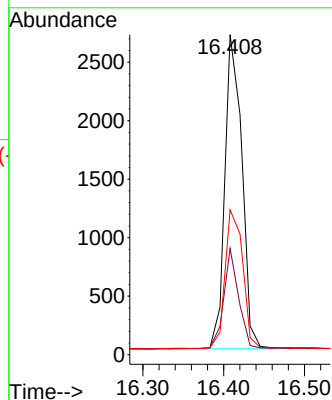
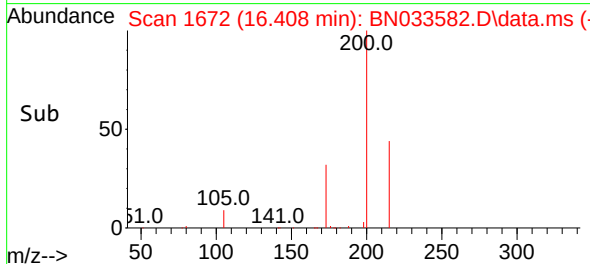


Tgt Ion:	200	Resp:	393
Ion Ratio	Lower	Upper	
200	100		
173	33.2	25.3	37.9
215	45.3	36.6	54.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#24

Pentachlorophenol

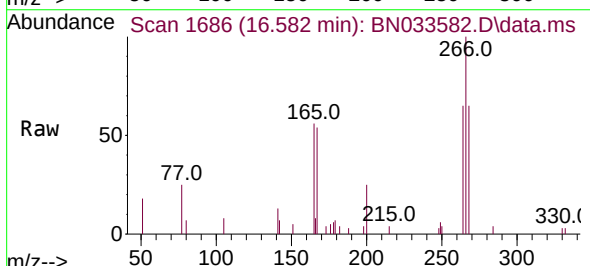
Concen: 0.398 ng

RT: 16.582 min Scan# 1686

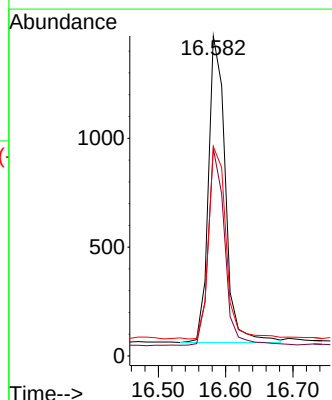
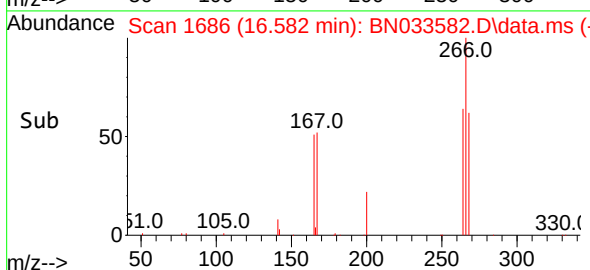
Delta R.T. -0.013 min

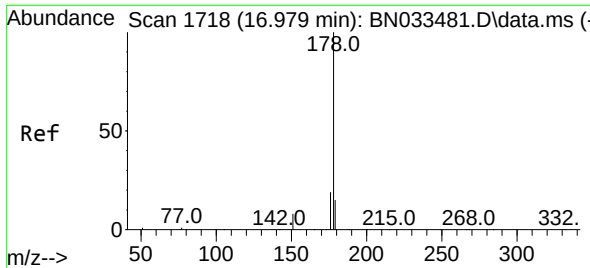
Lab File: BN033582.D

Acq: 23 Aug 2024 09:48



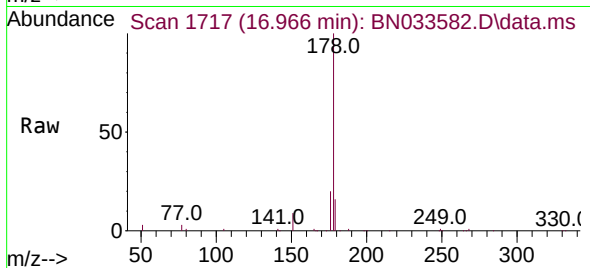
Tgt Ion:	266	Resp:	2455
Ion Ratio	Lower	Upper	
266	100		
264	62.3	51.9	77.9
268	64.6	51.0	76.4





#25
Phenanthrene
Concen: 0.361 ng
RT: 16.966 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

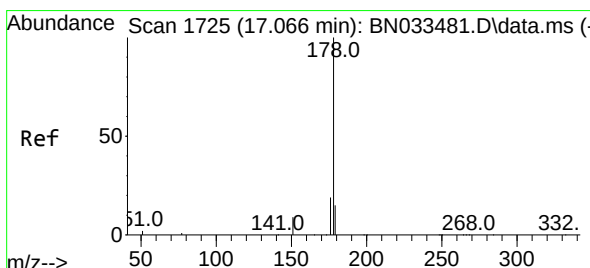
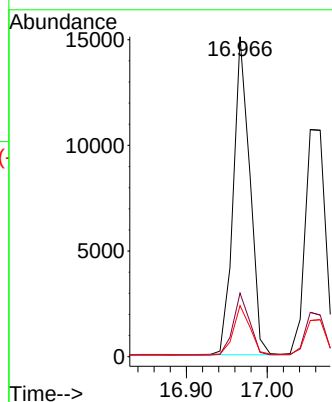
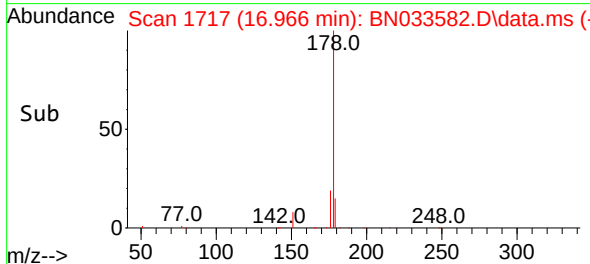
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 2133
Ion Ratio Lower Upper
178 100
176 19.4 15.3 22.9
179 15.3 12.3 18.5

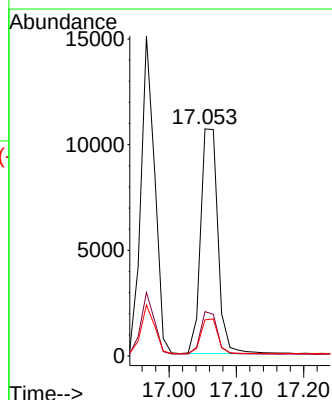
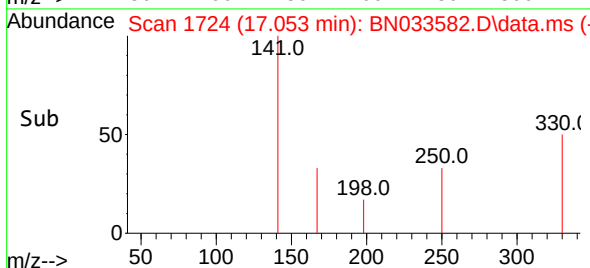
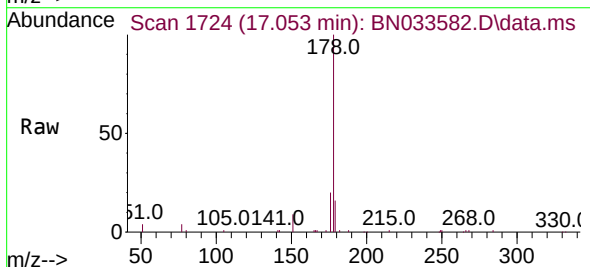
Manual Integrations
APPROVED

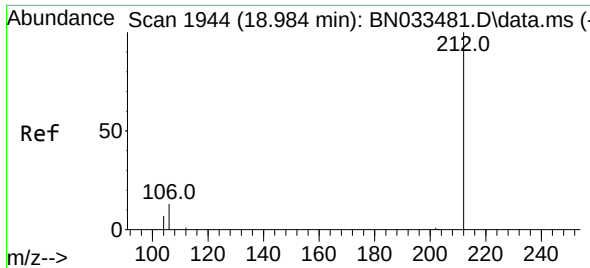
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#26
Anthracene
Concen: 0.363 ng
RT: 17.053 min Scan# 1724
Delta R.T. -0.013 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

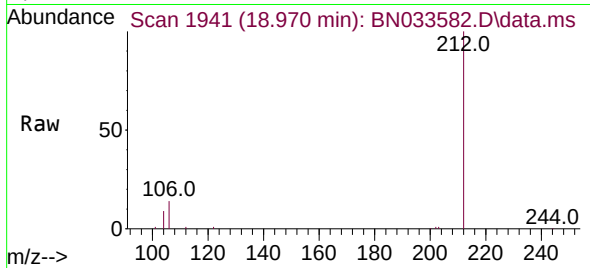
Tgt Ion:178 Resp: 18975
Ion Ratio Lower Upper
178 100
176 18.2 15.0 22.6
179 15.2 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.414 ng
RT: 18.970 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

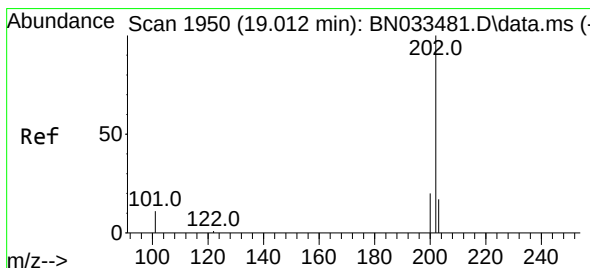
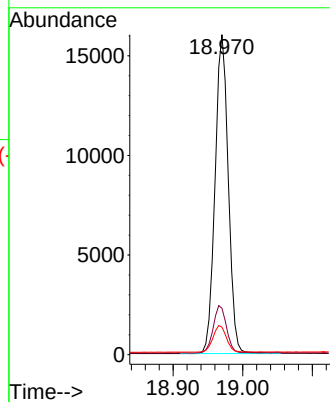
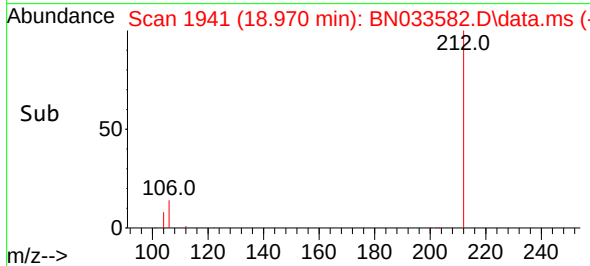
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:212 Resp: 21144
Ion Ratio Lower Upper
212 100
106 14.9 12.3 18.5
104 8.5 7.0 10.4

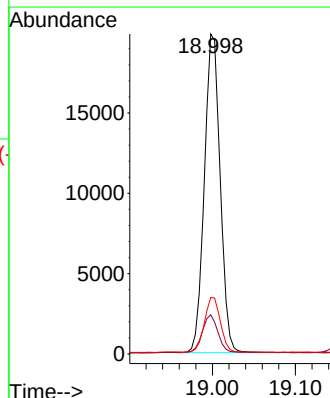
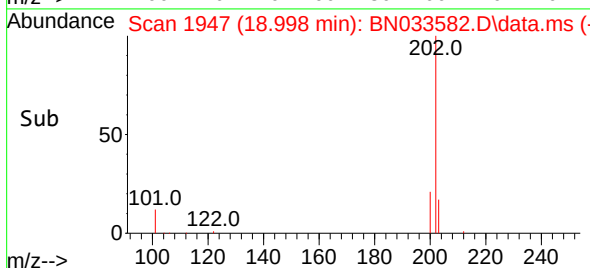
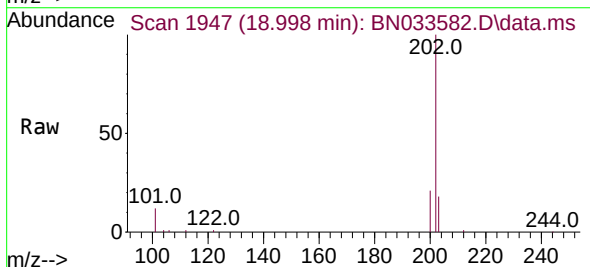
Manual Integrations
APPROVED

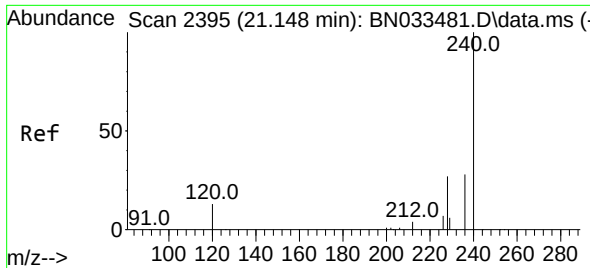
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#28
Fluoranthene
Concen: 0.404 ng
RT: 18.998 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

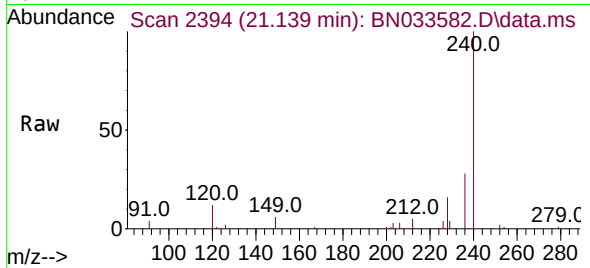
Tgt Ion:202 Resp: 26399
Ion Ratio Lower Upper
202 100
101 11.9 9.5 14.3
203 17.3 13.8 20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

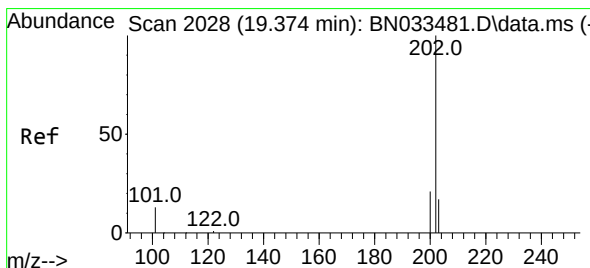
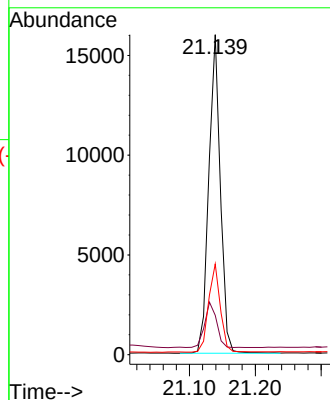
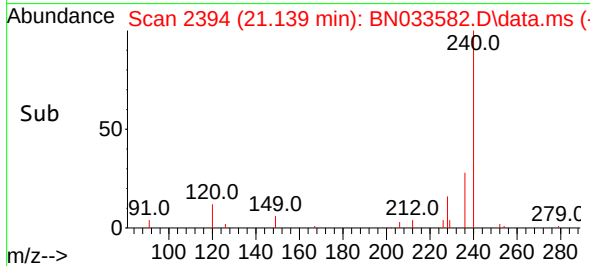
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



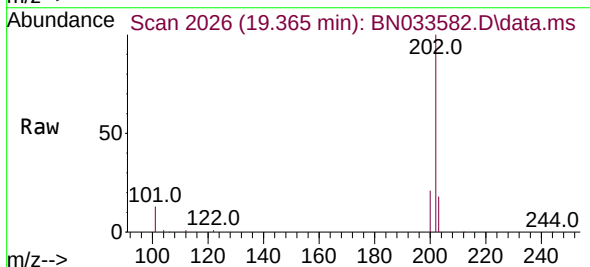
Tgt Ion:240 Resp: 1954
Ion Ratio Lower Upper
240 100
120 12.3 12.4 18.6
236 28.3 23.0 34.6

Manual Integrations
APPROVED

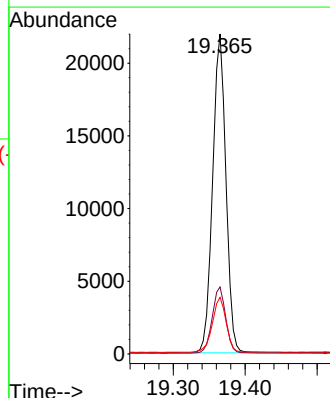
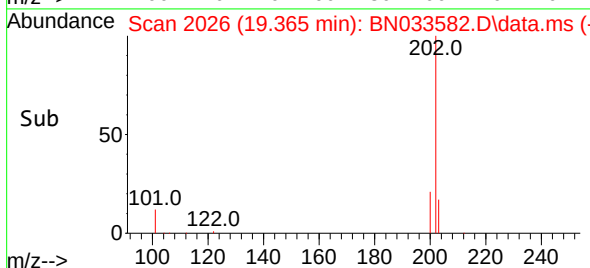
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

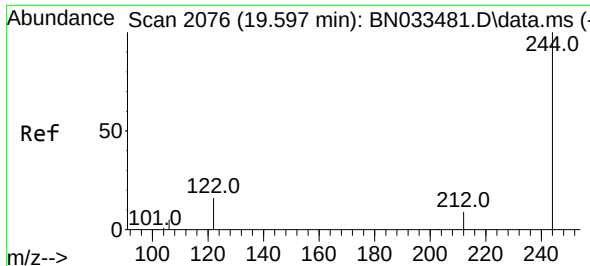


#30
Pyrene
Concen: 0.321 ng
RT: 19.365 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48



Tgt Ion:202 Resp: 28003
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 17.8 14.2 21.4





#31
Terphenyl-d14
Concen: 0.338 ng
RT: 19.583 min Scan# 2076
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

Instrument :

BNA_N

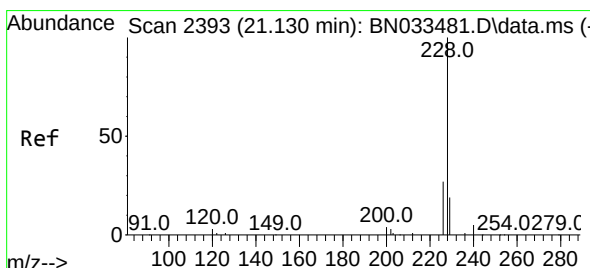
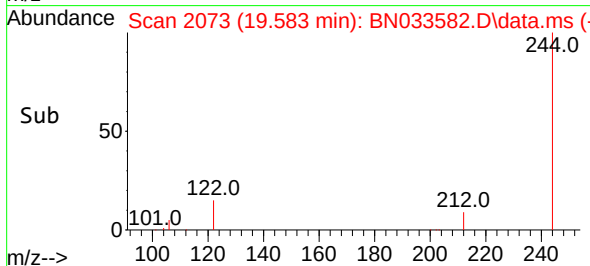
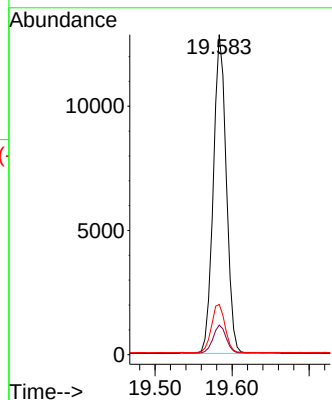
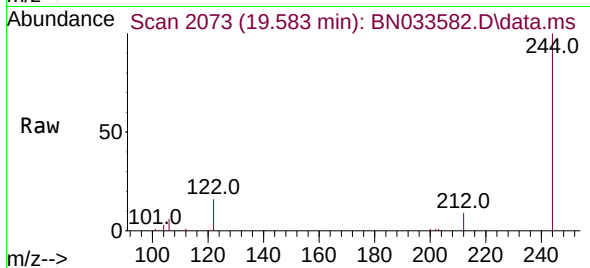
ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.8	11.6
122	15.7	13.3	19.9

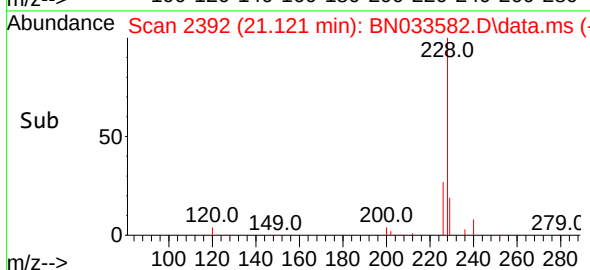
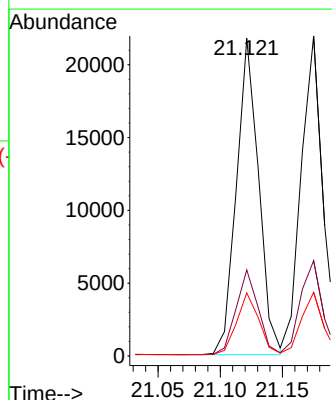
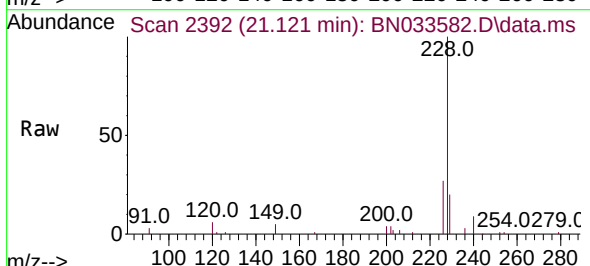
Manual Integrations
APPROVED

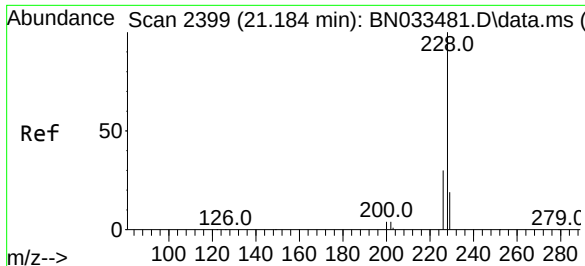
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.121 min Scan# 2392
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

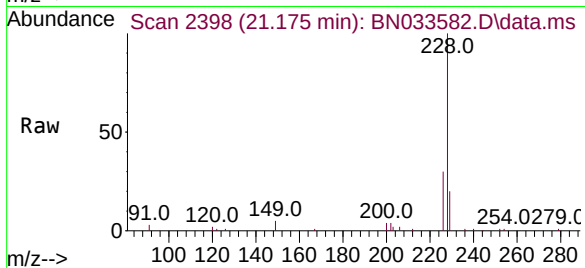
Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.6
229	19.8	15.8	23.6





#33
Chrysene
Concen: 0.371 ng
RT: 21.175 min Scan# 2117
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

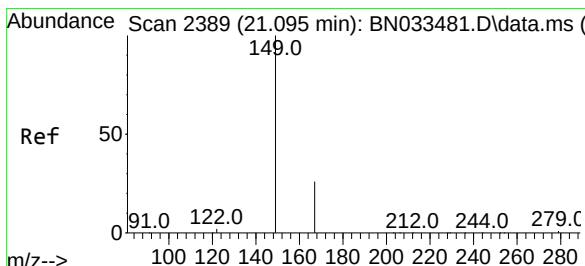
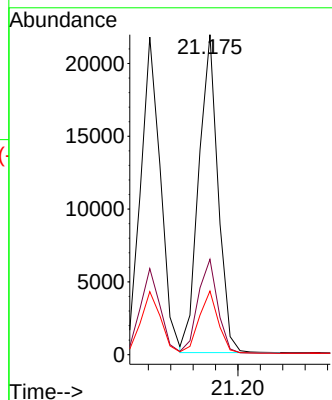
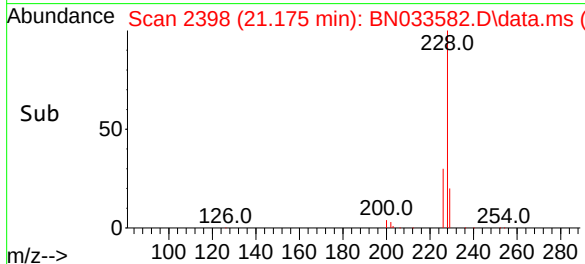
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 228 Resp: 26060
Ion Ratio Lower Upper
228 100
226 29.8 23.8 35.8
229 19.9 15.6 23.4

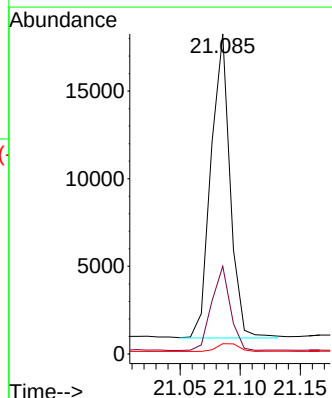
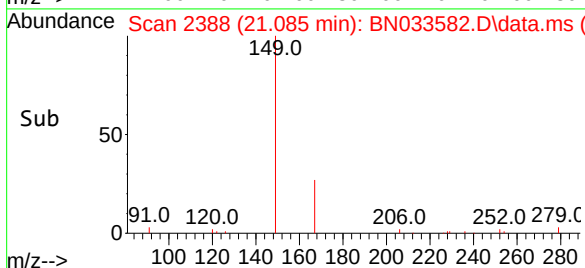
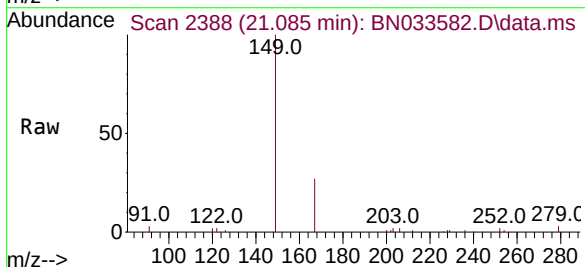
Manual Integrations
APPROVED

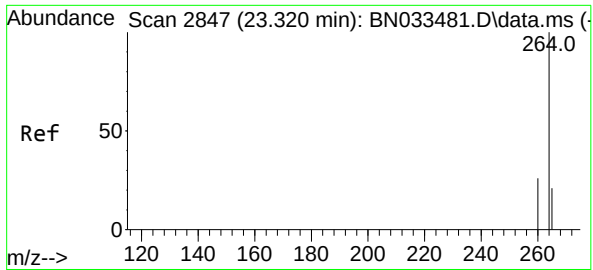
Reviewed By : Yogesh Patel 08/24/2024
Supervised By : mohammad ahmed 08/29/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.431 ng m
RT: 21.085 min Scan# 2388
Delta R.T. -0.000 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

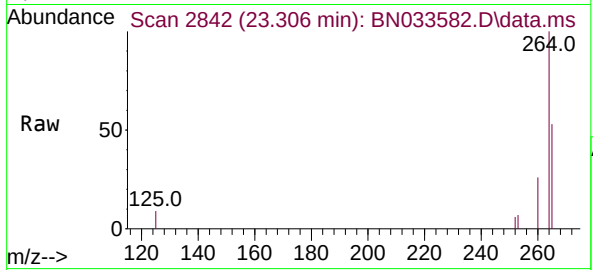
Tgt Ion: 149 Resp: 19294
Ion Ratio Lower Upper
149 100
167 28.0 21.5 32.3
279 3.4 2.2 3.2#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.306 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

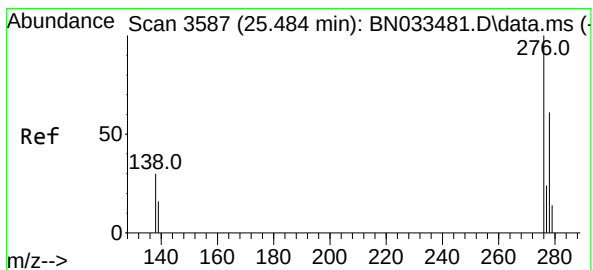
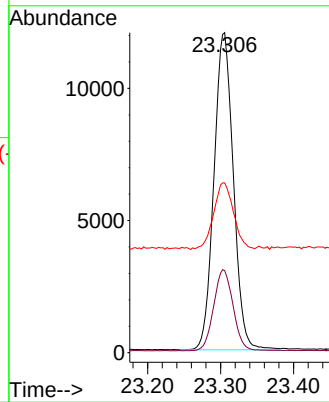
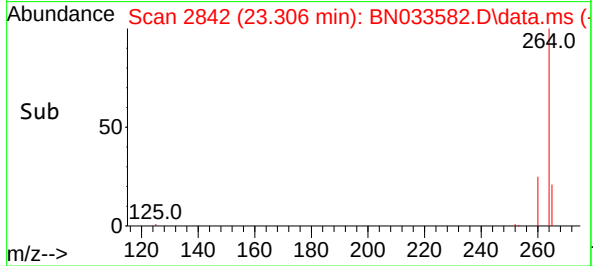
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 2217
Ion Ratio Lower Upper
264 100
260 25.6 20.8 31.2
265 53.1 52.2 78.2

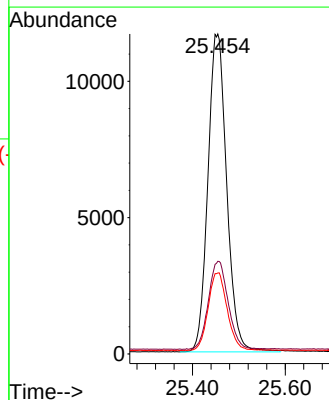
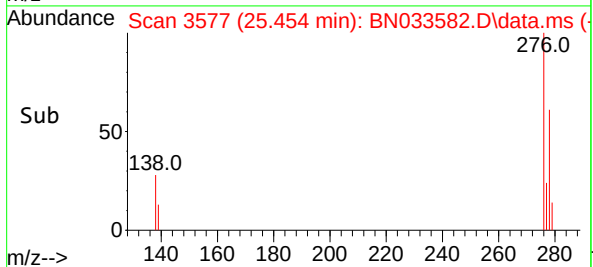
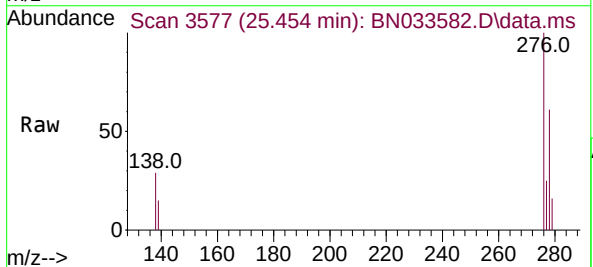
Manual Integrations
APPROVED

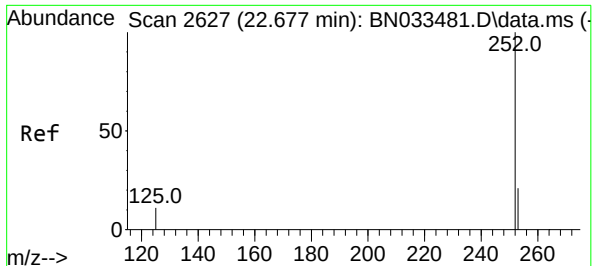
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.454 min Scan# 3577
Delta R.T. 0.006 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

Tgt Ion:276 Resp: 32901
Ion Ratio Lower Upper
276 100
138 29.0 24.4 36.6
277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.355 ng

RT: 22.659 min Scan# 2621

Delta R.T. -0.000 min

Lab File: BN033582.D

Acq: 23 Aug 2024 09:48

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

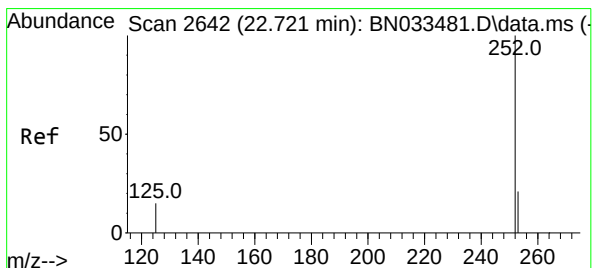
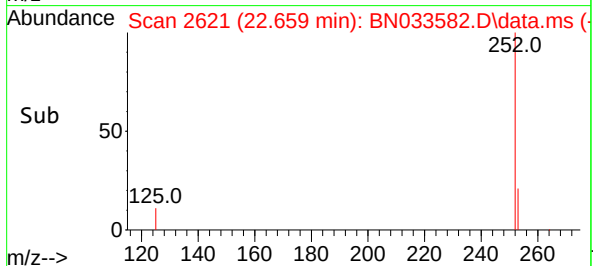
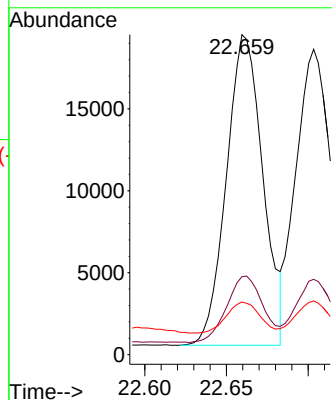
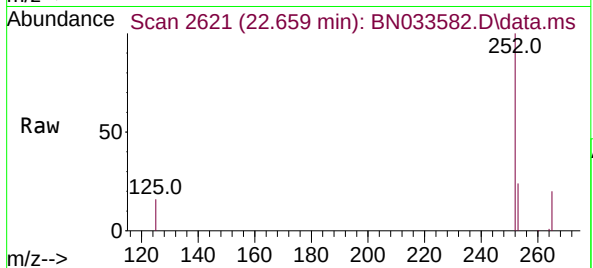
Tgt Ion:252	Resp:	29428
Ion Ratio	Lower	Upper
252	100	
253	24.4	19.8 29.8
125	16.4	13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#38

Benzo(k)fluoranthene

Concen: 0.341 ng

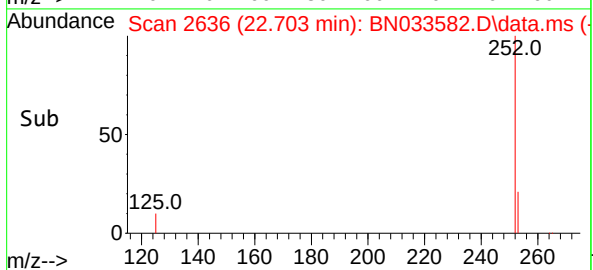
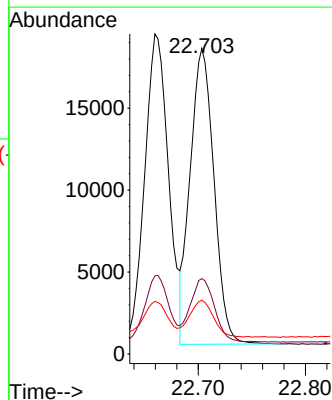
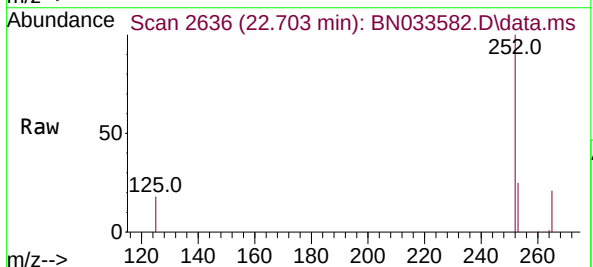
RT: 22.703 min Scan# 2636

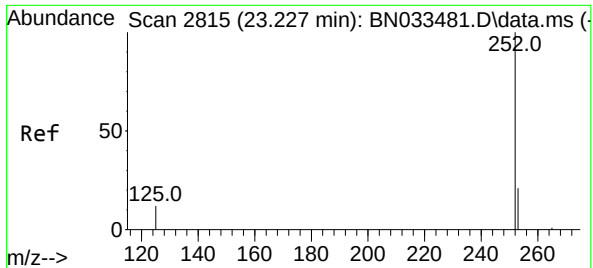
Delta R.T. -0.000 min

Lab File: BN033582.D

Acq: 23 Aug 2024 09:48

Tgt Ion:252	Resp:	27836
Ion Ratio	Lower	Upper
252	100	
253	24.7	19.8 29.8
125	17.6	15.8 23.8





#39

Benzo(a)pyrene

Concen: 0.361 ng

RT: 23.209 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033582.D

Acq: 23 Aug 2024 09:48

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

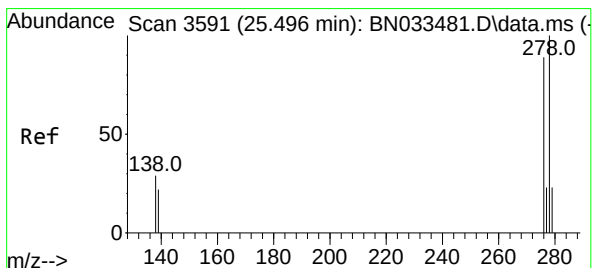
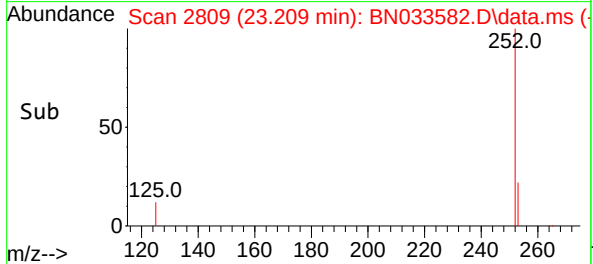
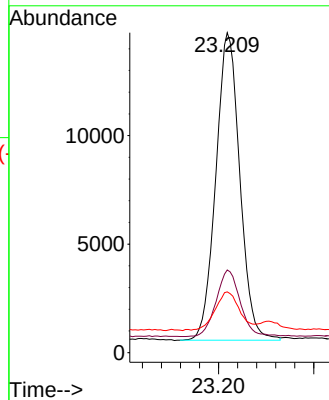
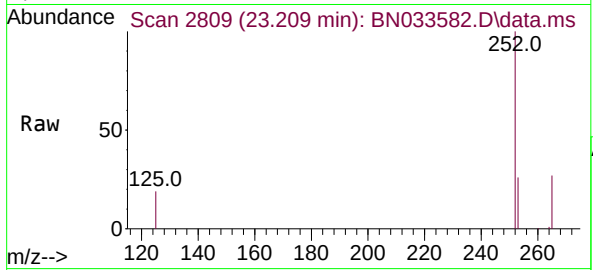
Tgt Ion:	252	Resp:	24750
Ion Ratio	Lower	Upper	
252	100		
253	25.9	21.5	32.3
125	19.0	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.356 ng

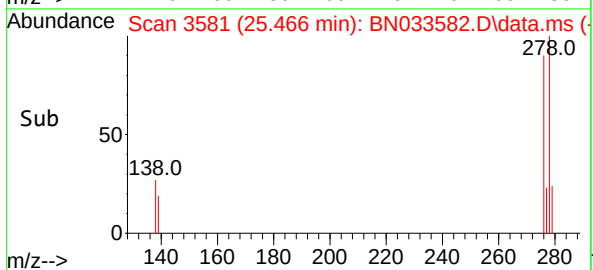
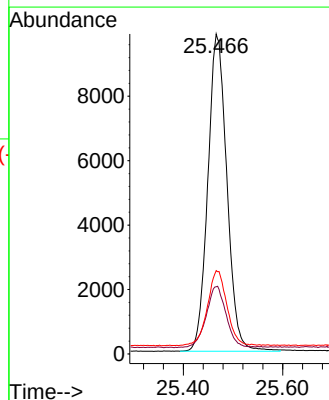
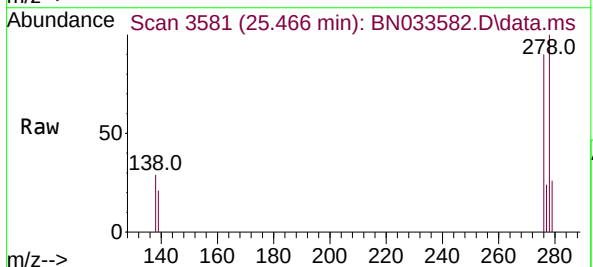
RT: 25.466 min Scan# 3581

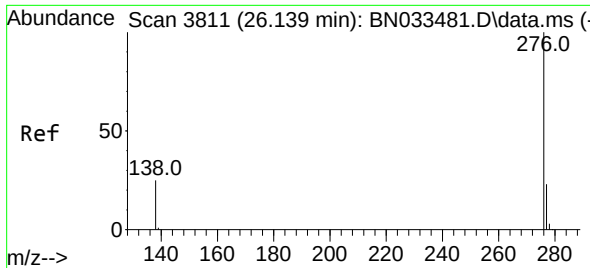
Delta R.T. -0.003 min

Lab File: BN033582.D

Acq: 23 Aug 2024 09:48

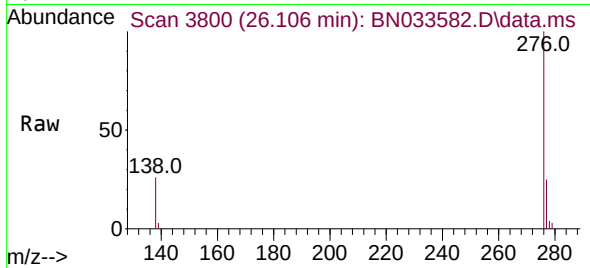
Tgt Ion:	278	Resp:	26225
Ion Ratio	Lower	Upper	
278	100		
139	21.0	19.1	28.7
279	26.1	21.0	31.4





#41
Benzo(g,h,i)perylene
Concen: 0.351 ng
RT: 26.106 min Scan# 3811
Delta R.T. 0.003 min
Lab File: BN033582.D
Acq: 23 Aug 2024 09:48

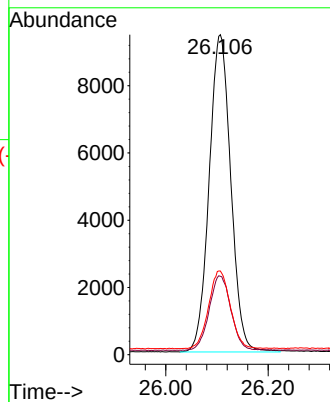
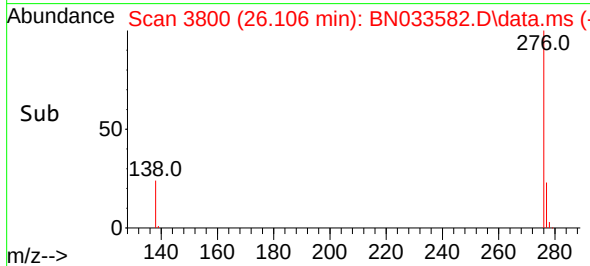
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.7	29.5
138	26.1	21.8	32.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033582.D
Acq On : 23 Aug 2024 09:48
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 23 13:38:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 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	54	0.00
2	1,4-Dioxane	0.460	0.443	3.7	73	0.00
3	n-Nitrosodimethylamine	0.535	0.441	17.6	53	0.00
4 S	2-Fluorophenol	1.271	1.116	12.2	48#	0.00
5 S	Phenol-d6	1.512	1.361	10.0	54	0.00
6	bis(2-Chloroethyl)ether	1.072	1.010	5.8	73	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	76	0.00
8 S	Nitrobenzene-d5	0.332	0.305	8.1	76	-0.01
9	Naphthalene	1.069	0.979	8.4	79	-0.01
10	Hexachlorobutadiene	0.213	0.199	6.6	79	-0.01
11 SURR	2-Methylnaphthalene-d10	0.572	0.537	6.1	83	0.00
12	2-Methylnaphthalene	0.677	0.621	8.3	80	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	81	0.00
14 S	2,4,6-Tribromophenol	0.215	0.215	0.0	94	0.00
15 S	2-Fluorobiphenyl	1.634	1.456	10.9	80	0.00
16	Acenaphthylene	1.754	1.541	12.1	82	-0.01
17	Acenaphthene	1.234	1.077	12.7	79	0.00
18	Fluorene	1.555	1.395	10.3	82	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00
20	4,6-Dinitro-2-methylphenol	0.062	0.061	1.6	103	-0.01
21	4-Bromophenyl-phenylether	0.243	0.214	11.9	84	0.00
22	Hexachlorobenzene	0.268	0.243	9.3	85	0.00
23	Atrazine	0.194	0.185	4.6	93	-0.01
24	Pentachlorophenol	0.116	0.116	0.0	104	-0.01
25	Phenanthrene	1.113	1.005	9.7	84	0.00
26	Anthracene	0.985	0.894	9.2	88	-0.01
27 SURR	Fluoranthene-d10	0.961	0.996	-3.6	99	0.00
28	Fluoranthene	1.230	1.243	-1.1	97	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	121	0.00
30	Pyrene	1.785	1.433	19.7	102	0.00
31 S	Terphenyl-d14	0.909	0.768	15.5	108	0.00
32	Benzo(a)anthracene	1.446	1.377	4.8	127	0.00
33	Chrysene	1.437	1.334	7.2	121	0.00
34	Bis(2-ethylhexyl)phthalate	0.915	0.987	-7.9	147	0.00
35 I	Perylene-d12	1.000	1.000	0.0	139	0.00
36	Indeno(1,2,3-cd)pyrene	1.661	1.484	10.7	135	0.00
37	Benzo(b)fluoranthene	1.494	1.327	11.2	138	0.00
38	Benzo(k)fluoranthene	1.470	1.255	14.6	132	0.00
39 C	Benzo(a)pyrene	1.236	1.116	9.7	142	0.00
40	Dibenzo(a,h)anthracene	1.328	1.183	10.9	134	0.00
41	Benzo(g,h,i)perylene	1.420	1.247	12.2	134	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033582.D
Acq On : 23 Aug 2024 09:48
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 23 13:38:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 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	54	0.00
2	1,4-Dioxane	0.400	0.385	3.8	73	0.00
3	n-Nitrosodimethylamine	0.400	0.330	17.5	53	0.00
4 S	2-Fluorophenol	0.400	0.351	12.3	48	0.00
5 S	Phenol-d6	0.400	0.360	10.0	54	0.00
6	bis(2-Chloroethyl)ether	0.400	0.377	5.8	73	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	76	0.00
8 S	Nitrobenzene-d5	0.400	0.367	8.3	76	-0.01
9	Naphthalene	0.400	0.366	8.5	79	-0.01
10	Hexachlorobutadiene	0.400	0.373	6.8	79	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.375	6.3	83	0.00
12	2-Methylnaphthalene	0.400	0.367	8.3	80	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	81	0.00
14 S	2,4,6-Tribromophenol	0.400	0.399	0.3	94	0.00
15 S	2-Fluorobiphenyl	0.400	0.357	10.8	80	0.00
16	Acenaphthylene	0.400	0.351	12.3	82	-0.01
17	Acenaphthene	0.400	0.349	12.8	79	0.00
18	Fluorene	0.400	0.359	10.3	82	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	87	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.391	2.3	103	-0.01
21	4-Bromophenyl-phenylether	0.400	0.353	11.8	84	0.00
22	Hexachlorobenzene	0.400	0.363	9.3	85	0.00
23	Atrazine	0.400	0.382	4.5	93	-0.01
24	Pentachlorophenol	0.400	0.398	0.5	104	-0.01
25	Phenanthrene	0.400	0.361	9.8	84	0.00
26	Anthracene	0.400	0.363	9.3	88	-0.01
27 SURR	Fluoranthene-d10	0.400	0.414	-3.5	99	0.00
28	Fluoranthene	0.400	0.404	-1.0	97	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	121	0.00
30	Pyrene	0.400	0.321	19.8	102	0.00
31 S	Terphenyl-d14	0.400	0.338	15.5	108	0.00
32	Benzo(a)anthracene	0.400	0.381	4.8	127	0.00
33	Chrysene	0.400	0.371	7.3	121	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.431	-7.7	147	0.00
35 I	Perylene-d12	0.400	0.400	0.0	139	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.357	10.8	135	0.00
37	Benzo(b)fluoranthene	0.400	0.355	11.3	138	0.00
38	Benzo(k)fluoranthene	0.400	0.341	14.8	132	0.00
39 C	Benzo(a)pyrene	0.400	0.361	9.8	142	0.00
40	Dibenzo(a,h)anthracene	0.400	0.356	11.0	134	0.00
41	Benzo(g,h,i)perylene	0.400	0.351	12.3	134	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.: P3671 SAS No.: P3671 SDG No.: P3671

Instrument ID: BNA_N Calibration Date/Time: 08/23/2024 21:30

Lab File ID: BN033599.D Init. Calib. Date(s): 08/19/2024 08/19/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:16 19:53

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.572	0.518		-9.4	20.0
Fluoranthene-d10	0.961	0.910		-5.3	20.0
2-Fluorophenol	1.271	1.086		-14.6	20.0
Phenol-d6	1.512	1.337		-11.6	20.0
Nitrobenzene-d5	0.332	0.315		-5.1	20.0
Naphthalene	1.069	0.971		-9.2	20.0
2-Methylnaphthalene	0.677	0.599		-11.5	20.0
2-Fluorobiphenyl	1.634	1.564		-4.3	20.0
Acenaphthylene	1.754	1.573		-10.3	20.0
Acenaphthene	1.234	1.071		-13.2	20.0
Fluorene	1.555	1.316		-15.4	20.0
2,4,6-Tribromophenol	0.215	0.200		-7.0	20.0
Phenanthrene	1.113	1.007		-9.5	20.0
Anthracene	0.985	0.891		-9.5	20.0
Fluoranthene	1.230	1.133		-7.9	20.0
Pyrene	1.785	1.498		-16.1	20.0
Terphenyl-d14	0.909	0.792		-12.9	20.0
Benzo (a) anthracene	1.446	1.396		-3.5	20.0
Chrysene	1.437	1.338		-6.9	20.0
Benzo (b) fluoranthene	1.494	1.296		-13.3	20.0
Benzo (k) fluoranthene	1.470	1.233		-16.1	20.0
Benzo (a) pyrene	1.236	1.129		-8.7	20.0
Indeno (1,2,3-cd) pyrene	1.661	1.494		-10.1	20.0
Dibenzo (a,h) anthracene	1.328	1.193		-10.2	20.0
Benzo (g,h,i) perylene	1.420	1.267		-10.8	20.0
1,4-Dioxane	0.460	0.371		-19.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
 Data File : BN033599.D
 Acq On : 23 Aug 2024 21:30
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024

Quant Time: Aug 24 02:19:01 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 23 00:22:18 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	8463	0.400	ng	0.00
7) Naphthalene-d8	10.303	136	21893	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	10120	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	19008	0.400	ng	0.00
29) Chrysene-d12	21.139	240	15095	0.400	ng	0.00
35) Perylene-d12	23.305	264	17412	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	9194	0.342	ng	0.00
5) Phenol-d6	6.736	99	11316	0.354	ng	0.00
8) Nitrobenzene-d5	8.680	82	6887	0.379	ng	0.00
11) 2-Methylnaphthalene-d10	11.899	152	11350	0.362	ng	0.00
14) 2,4,6-Tribromophenol	15.675	330	2021	0.371	ng	0.00
15) 2-Fluorobiphenyl	12.798	172	15825	0.383	ng	0.00
27) Fluoranthene-d10	18.970	212	17306	0.379	ng	0.00
31) Terphenyl-d14	19.583	244	11954	0.348	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.182	88	3140	0.322	ng	98
3) n-Nitrosodimethylamine	3.471	42	3795	0.335	ng	# 96
6) bis(2-Chloroethyl)ether	6.981	93	8655	0.381	ng	99
9) Naphthalene	10.357	128	21253	0.363	ng	100
10) Hexachlorobutadiene	10.645	225	4482	0.384	ng	# 99
12) 2-Methylnaphthalene	11.975	142	13121	0.354	ng	99
16) Acenaphthylene	13.889	152	15919	0.359	ng	100
17) Acenaphthene	14.242	154	10839	0.347	ng	98
18) Fluorene	15.236	166	13314	0.338	ng	99
20) 4,6-Dinitro-2-methylph...	15.321	198	369	0.124	ng	# 74
21) 4-Bromophenyl-phenylether	16.134	248	4322	0.374	ng	98
22) Hexachlorobenzene	16.246	284	4849	0.380	ng	99
23) Atrazine	16.420	200	3565	0.387	ng	# 90
24) Pentachlorophenol	16.594	266	2109	0.382	ng	98
25) Phenanthrene	16.966	178	19150	0.362	ng	100
26) Anthracene	17.065	178	16935	0.362	ng	100
28) Fluoranthene	19.002	202	21543	0.369	ng	100
30) Pyrene	19.365	202	22618	0.336	ng	99
32) Benzo(a)anthracene	21.121	228	21080	0.386	ng	99
33) Chrysene	21.175	228	20201	0.372	ng	100
34) Bis(2-ethylhexyl)phtha...	21.085	149	17187m	0.497	ng	
36) Indeno(1,2,3-cd)pyrene	25.454	276	26015	0.360	ng	98
37) Benzo(b)fluoranthene	22.662	252	22565	0.347	ng	97
38) Benzo(k)fluoranthene	22.703	252	21472	0.335	ng	97
39) Benzo(a)pyrene	23.209	252	19663	0.365	ng	99
40) Dibenzo(a,h)anthracene	25.472	278	20764	0.359	ng	98
41) Benzo(g,h,i)perylene	26.106	276	22053	0.357	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
 Data File : BN033599.D
 Acq On : 23 Aug 2024 21:30
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024

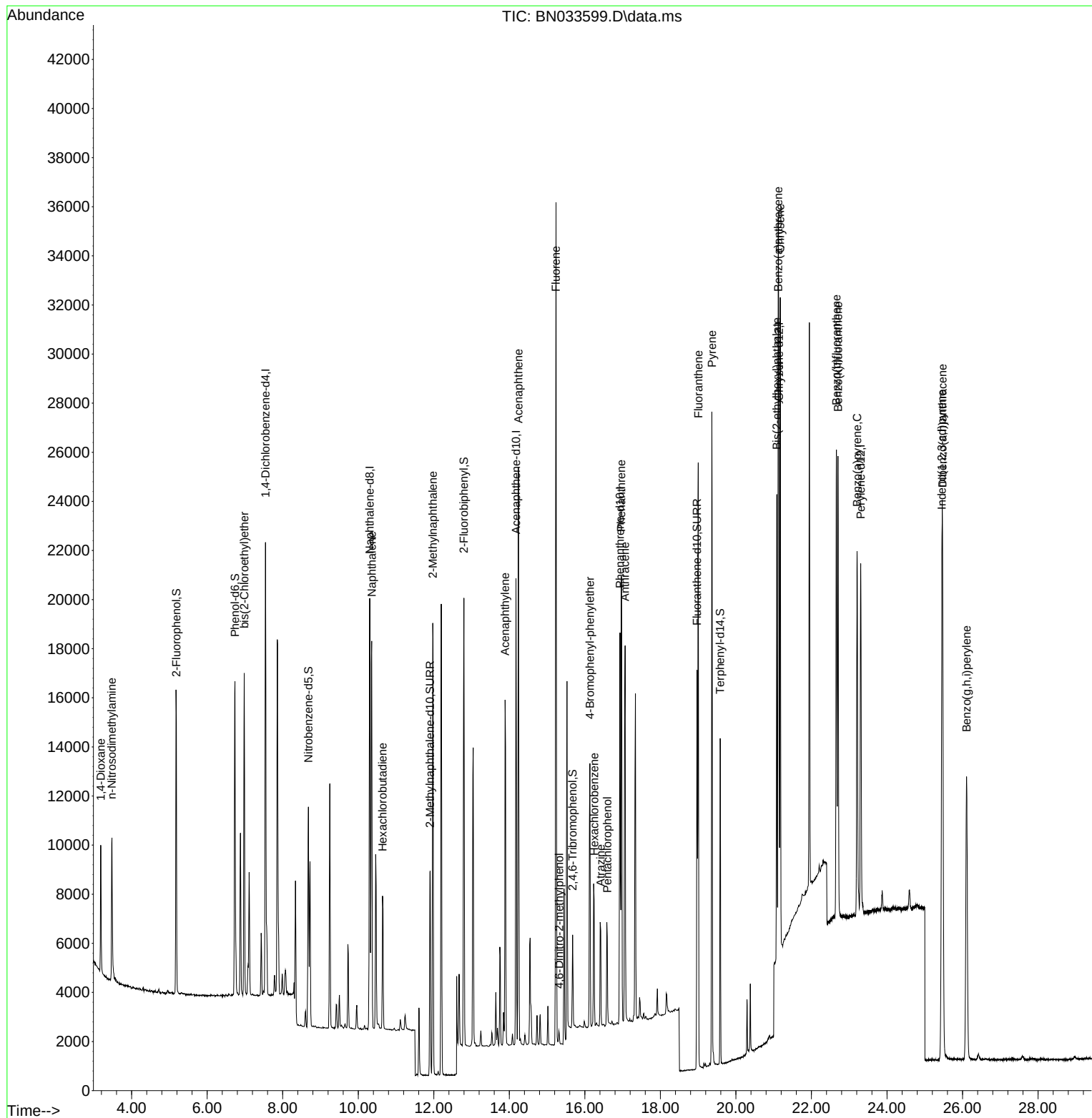
Quant Time: Aug 24 02:19:01 2024

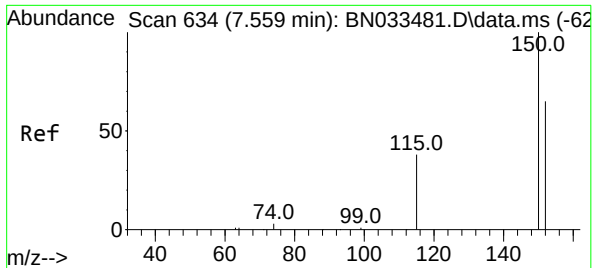
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 23 00:22:18 2024

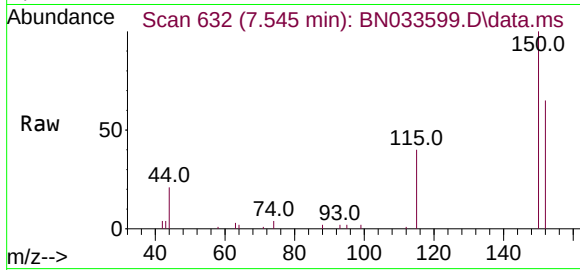
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

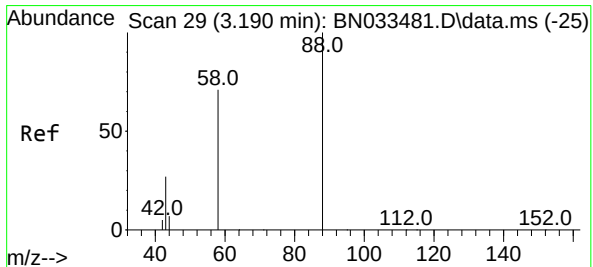
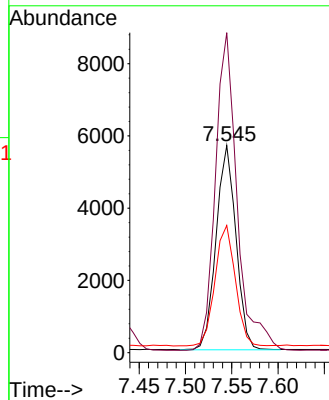
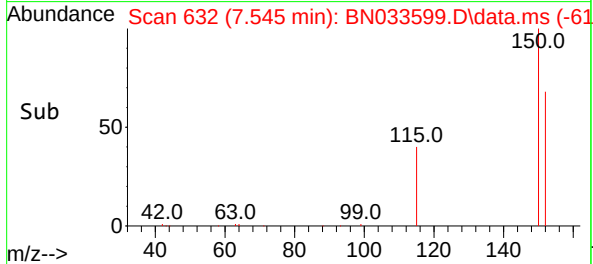
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 846
Ion Ratio Lower Upper
152 100
150 154.5 122.2 183.2
115 61.4 47.2 70.8

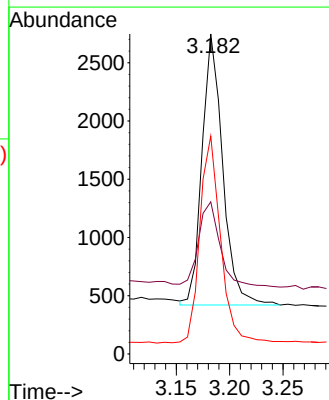
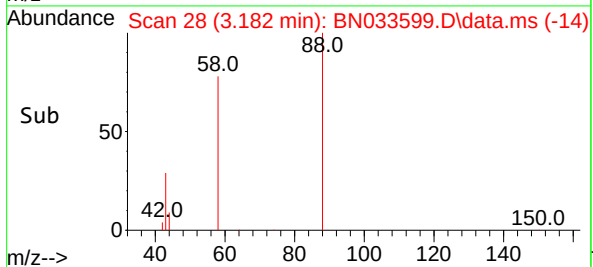
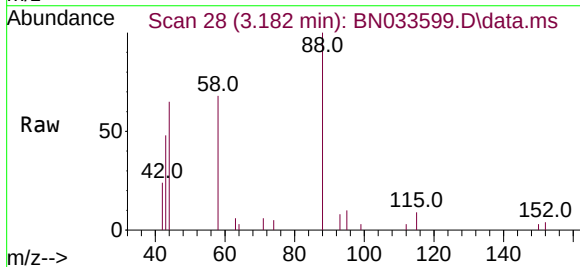
Manual Integrations
APPROVED

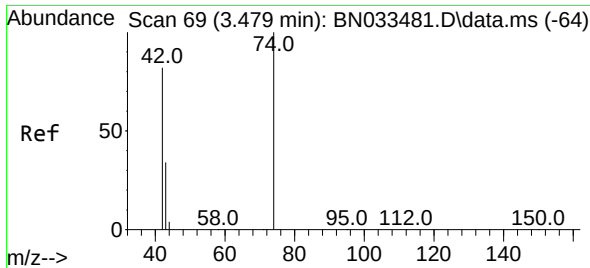
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#2
1,4-Dioxane
Concen: 0.322 ng
RT: 3.182 min Scan# 28
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

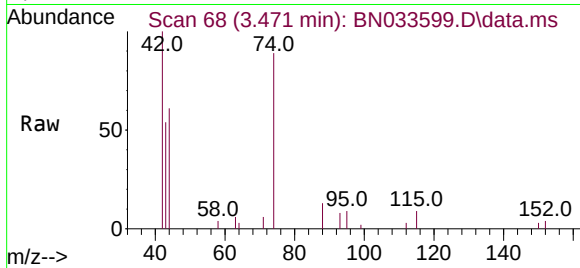
Tgt Ion: 88 Resp: 3140
Ion Ratio Lower Upper
88 100
43 33.1 25.0 37.4
58 76.8 62.5 93.7





#3
n-Nitrosodimethylamine
Concen: 0.335 ng
RT: 3.471 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

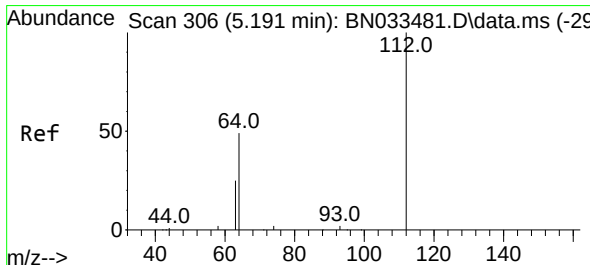
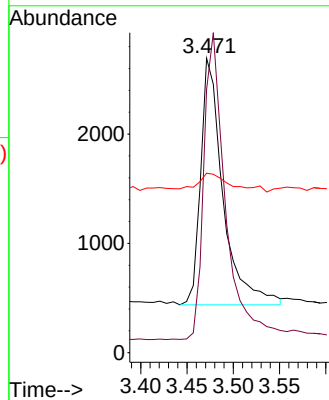
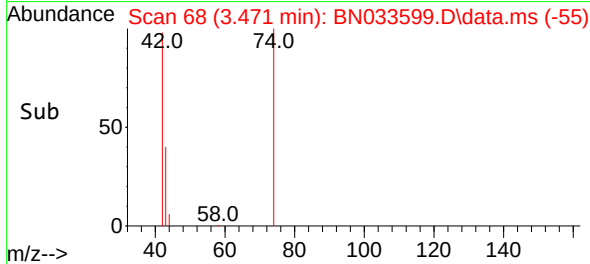
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 42 Resp: 379
Ion Ratio Lower Upper
42 100
74 121.3 100.2 150.2
44 11.1 5.3 7.9

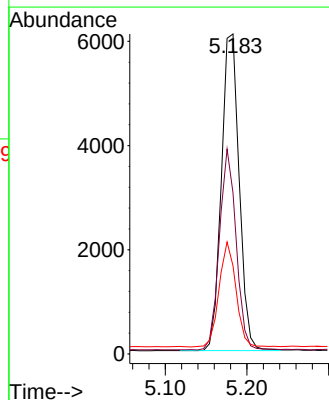
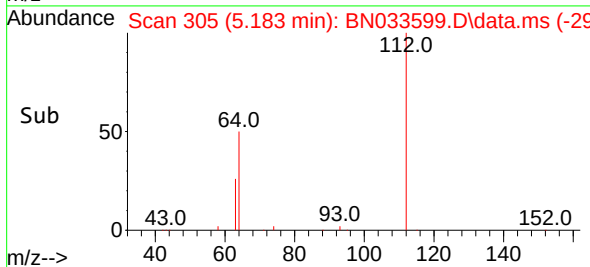
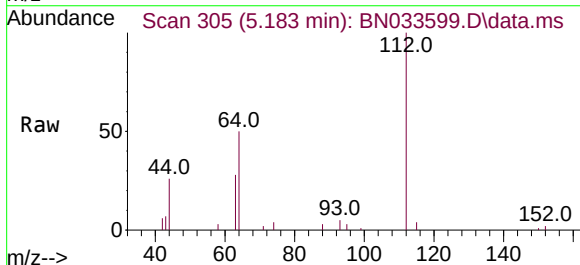
Manual Integrations
APPROVED

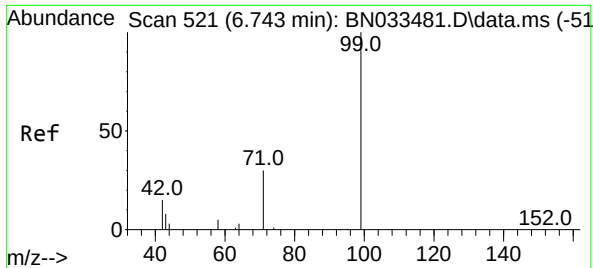
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#4
2-Fluorophenol
Concen: 0.342 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

Tgt Ion:112 Resp: 9194
Ion Ratio Lower Upper
112 100
64 59.4 47.1 70.7
63 31.4 24.9 37.3





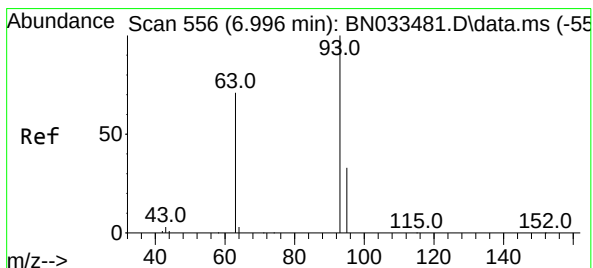
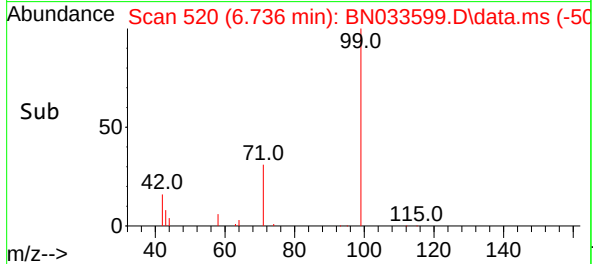
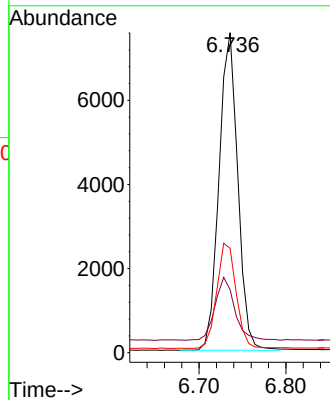
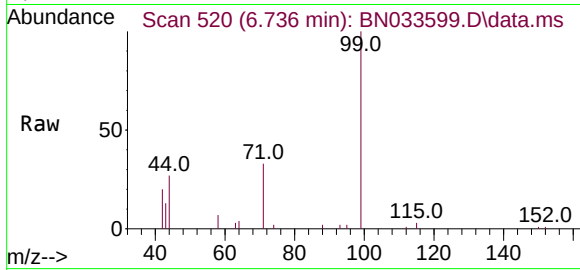
#5
Phenol-d6
Concen: 0.354 ng
RT: 6.736 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 11310
Ion Ratio Lower Upper
99 100
42 20.6 16.6 24.8
71 34.3 26.2 39.4

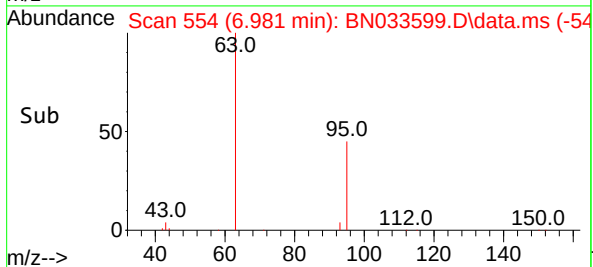
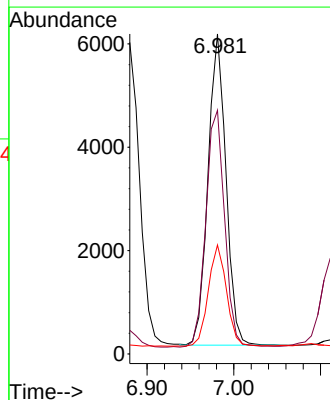
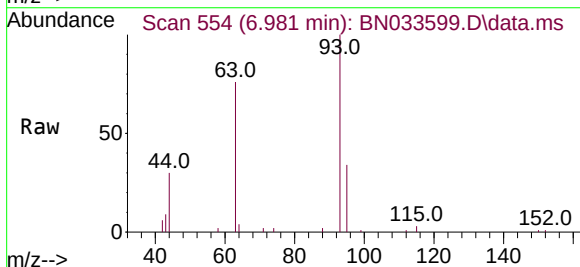
Manual Integrations
APPROVED

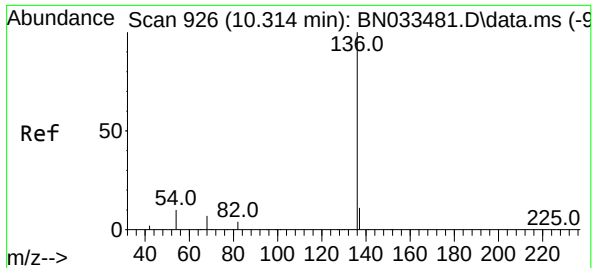
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 6.981 min Scan# 554
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

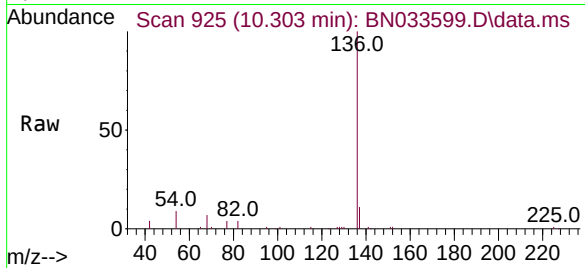
Tgt Ion: 93 Resp: 8655
Ion Ratio Lower Upper
93 100
63 79.8 63.0 94.4
95 32.9 26.0 39.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.303 min Scan# 91
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

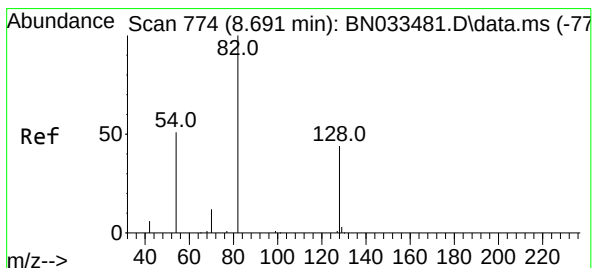
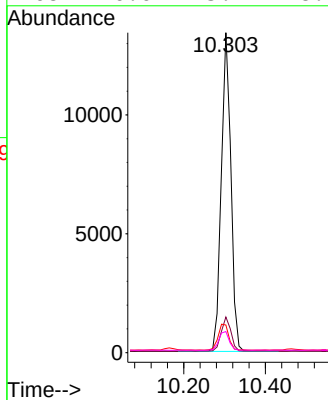
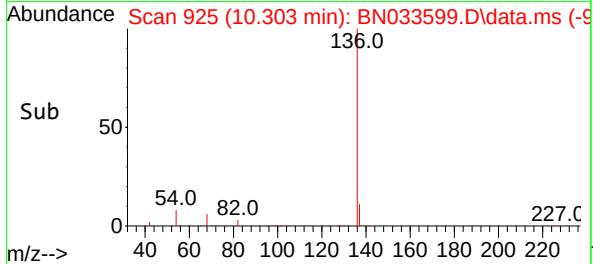
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 136 Resp: 2189
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.6
54 8.6 8.3 12.5
68 6.6 5.9 8.9

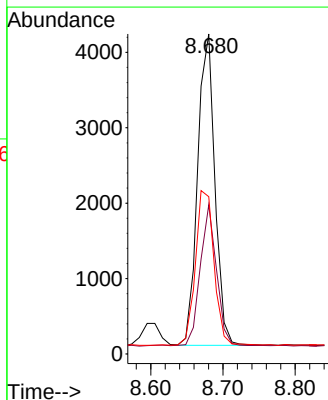
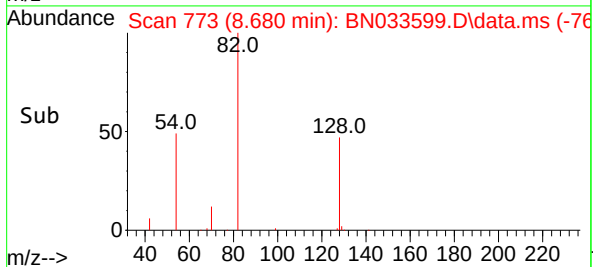
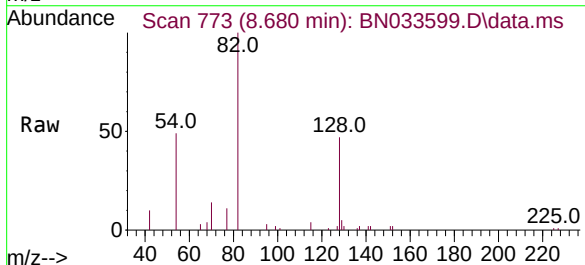
Manual Integrations
APPROVED

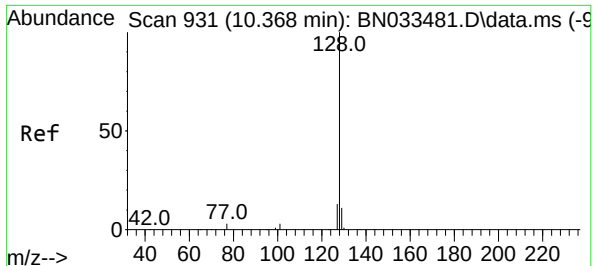
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.680 min Scan# 773
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

Tgt Ion: 82 Resp: 6887
Ion Ratio Lower Upper
82 100
128 46.6 36.0 54.0
54 49.2 42.0 63.0





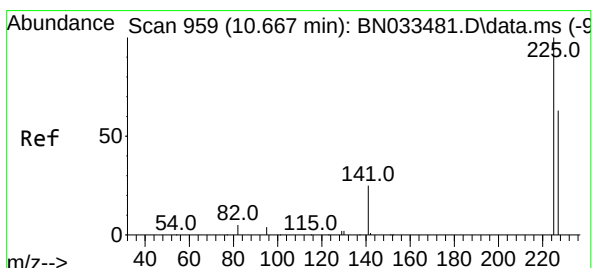
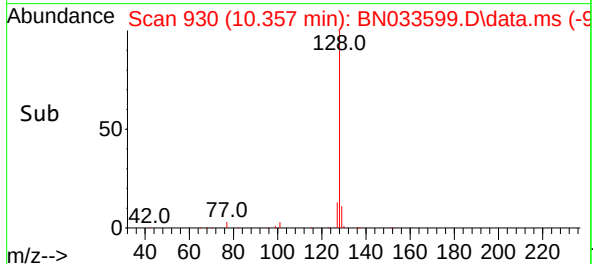
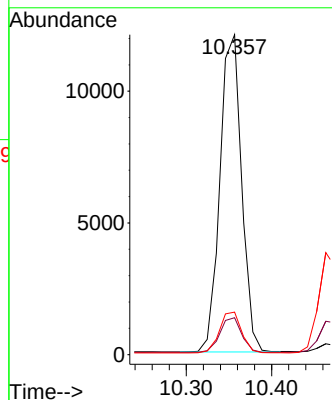
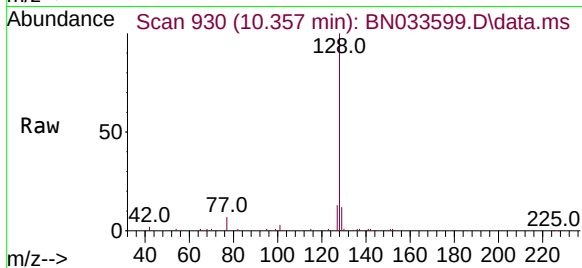
#9
Naphthalene
Concen: 0.363 ng
RT: 10.357 min Scan# 911
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 2125
Ion Ratio Lower Upper
128 100
129 11.6 9.1 13.7
127 13.3 10.7 16.1

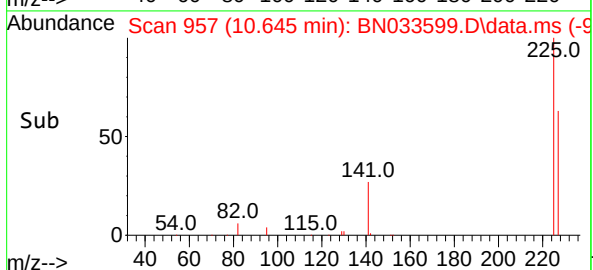
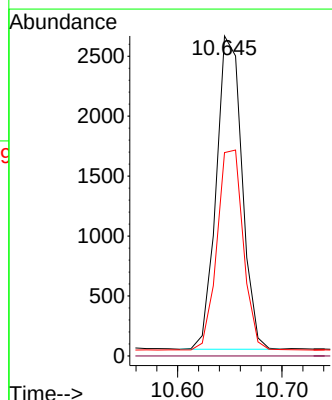
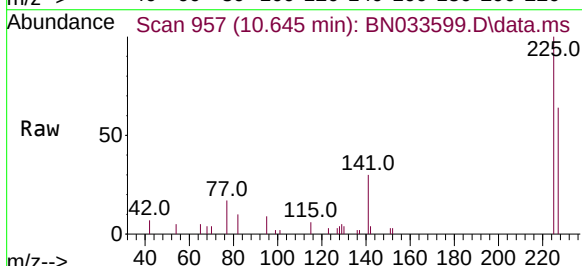
Manual Integrations
APPROVED

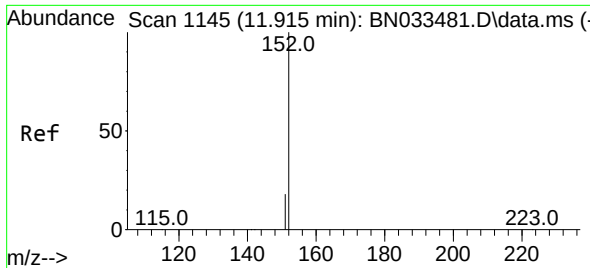
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#10
Hexachlorobutadiene
Concen: 0.384 ng
RT: 10.645 min Scan# 957
Delta R.T. -0.011 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

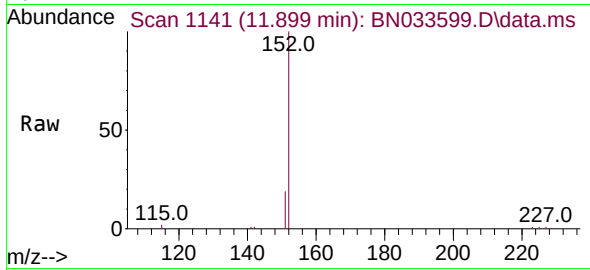
Tgt Ion:225 Resp: 4482
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.1 51.2 76.8





#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.899 min Scan# 1145
Delta R.T. -0.004 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

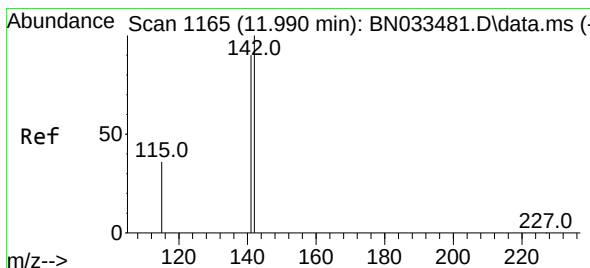
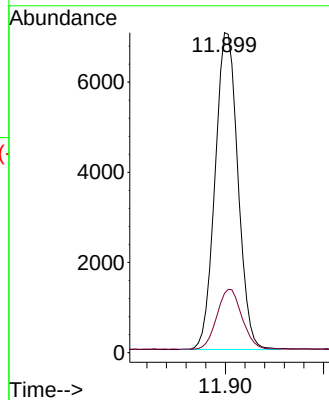
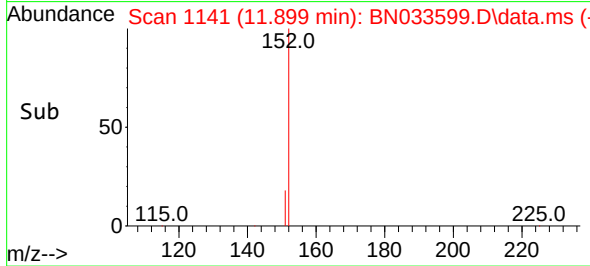
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 11350
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0

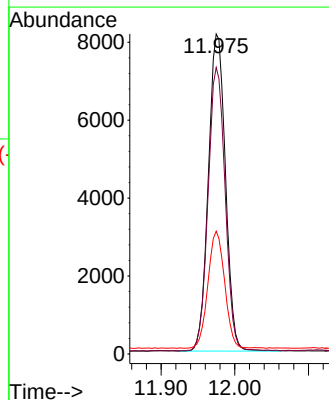
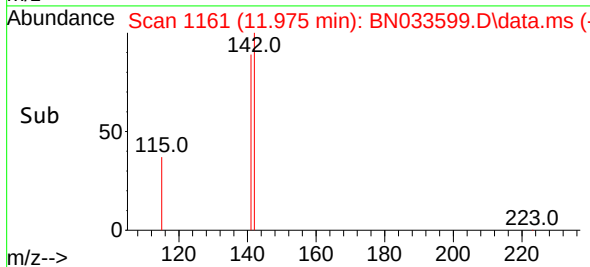
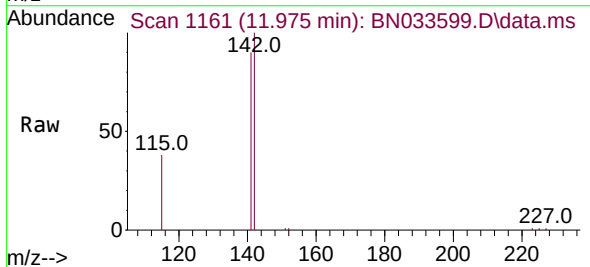
Manual Integrations
APPROVED

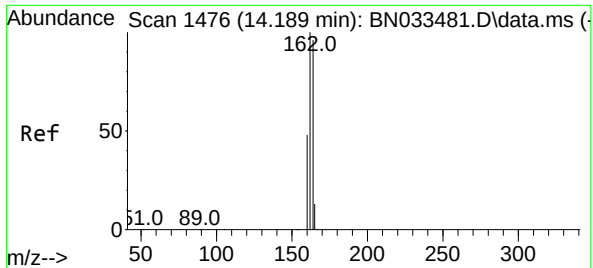
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 11.975 min Scan# 1161
Delta R.T. -0.004 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

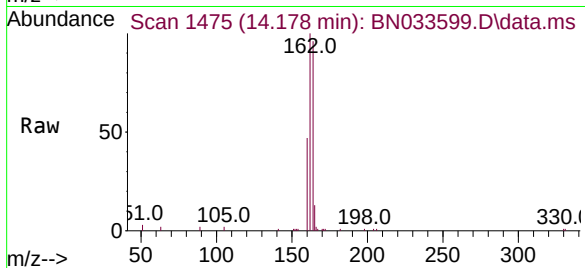
Tgt Ion:142 Resp: 13121
Ion Ratio Lower Upper
142 100
141 89.5 71.7 107.5
115 38.3 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1475
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

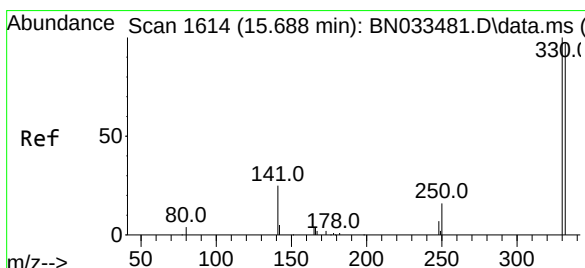
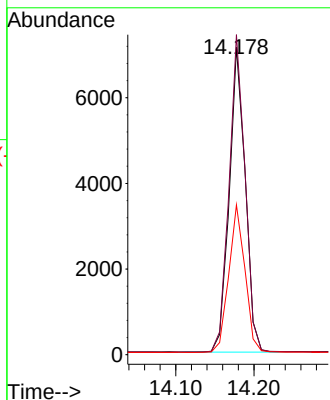
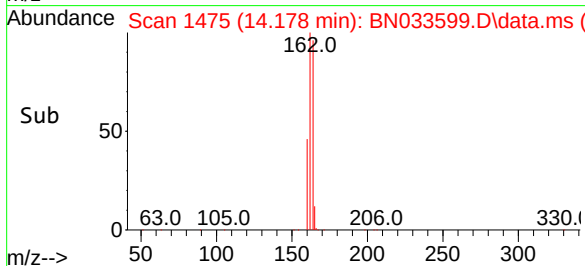
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



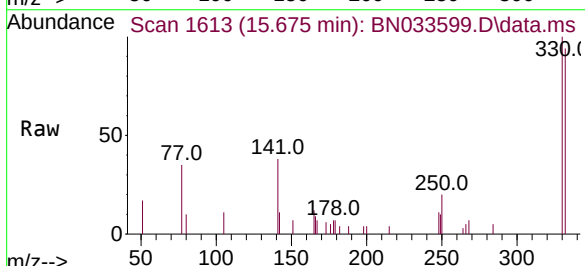
Tgt Ion:164 Resp: 10120
Ion Ratio Lower Upper
164 100
162 104.2 83.5 125.3
160 48.8 40.2 60.4

Manual Integrations
APPROVED

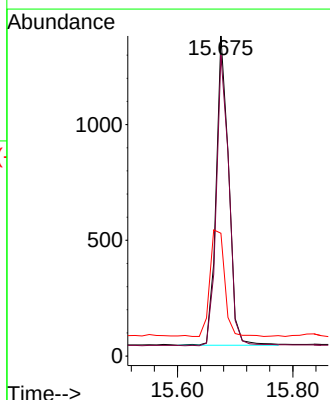
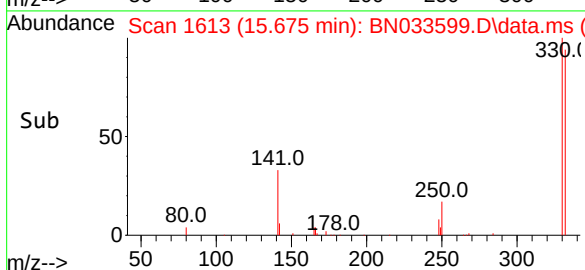
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

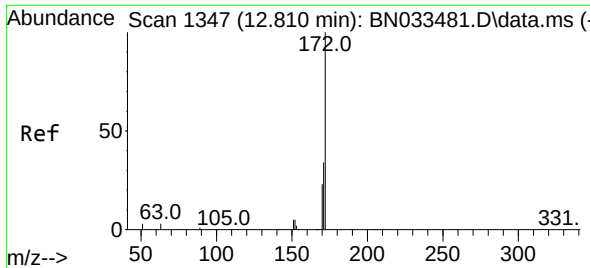


#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.675 min Scan# 1613
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30



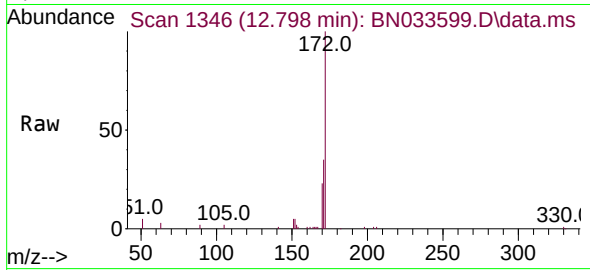
Tgt Ion:330 Resp: 2021
Ion Ratio Lower Upper
330 100
332 94.7 77.5 116.3
141 40.3 33.9 50.9





#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 12.798 min Scan# 11
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

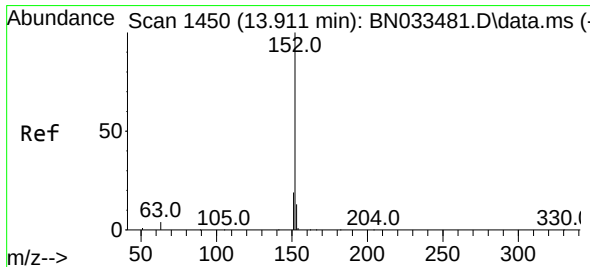
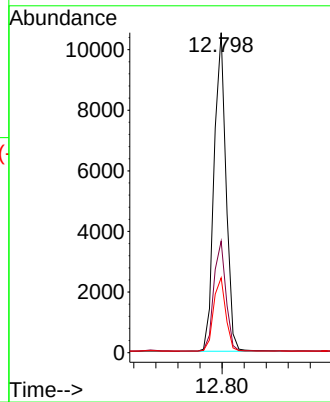
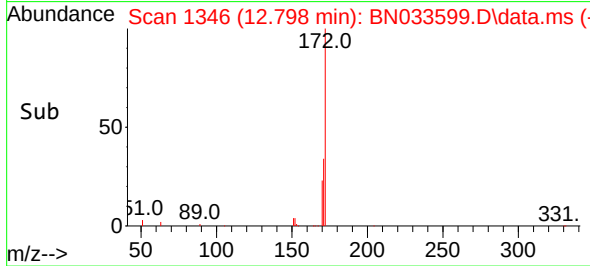
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 1582
Ion Ratio Lower Upper
172 100
171 34.8 27.7 41.5
170 23.4 18.3 27.5

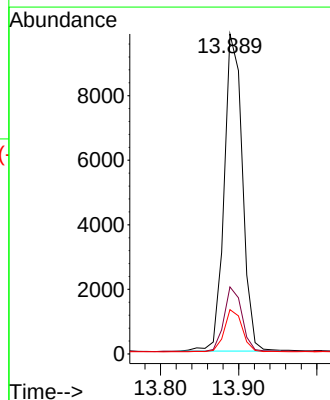
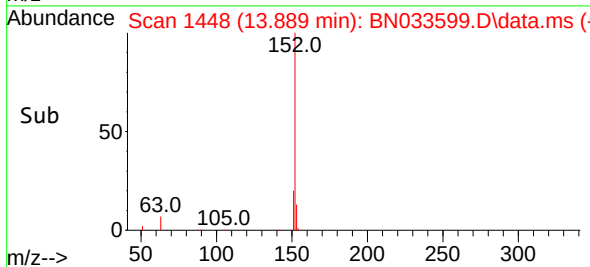
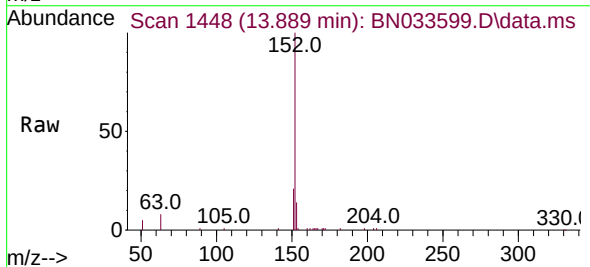
Manual Integrations
APPROVED

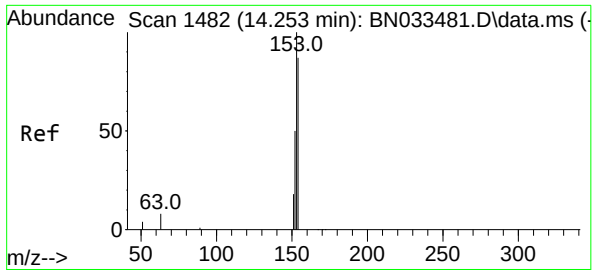
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#16
Acenaphthylene
Concen: 0.359 ng
RT: 13.889 min Scan# 1448
Delta R.T. -0.011 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

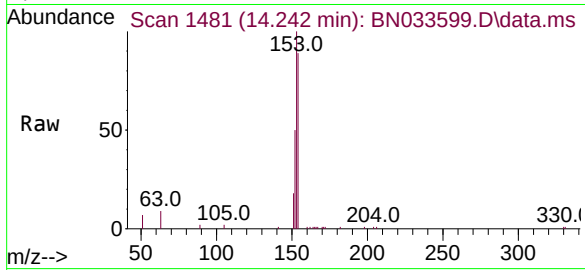
Tgt Ion:152 Resp: 15919
Ion Ratio Lower Upper
152 100
151 19.8 15.7 23.5
153 13.0 10.3 15.5





#17
Acenaphthene
Concen: 0.347 ng
RT: 14.242 min Scan# 1482
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

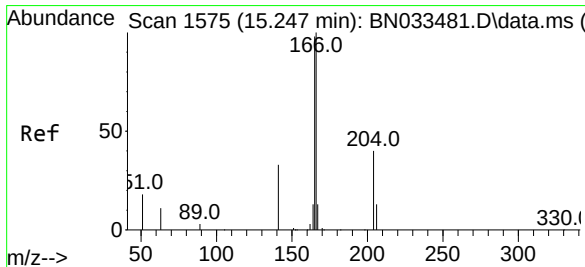
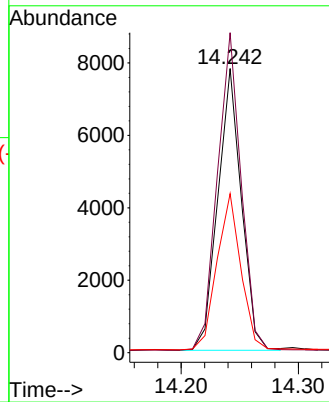
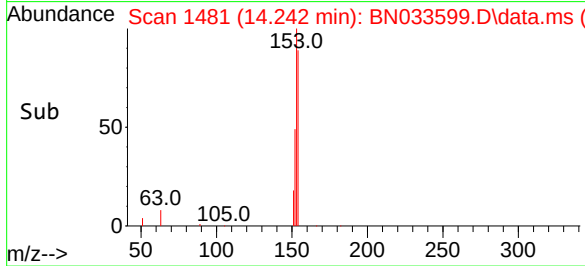
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 10839
Ion Ratio Lower Upper
154 100
153 113.7 89.0 133.6
152 56.4 45.2 67.8

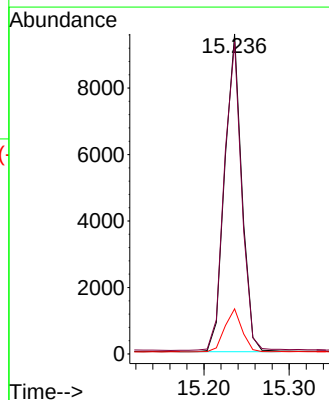
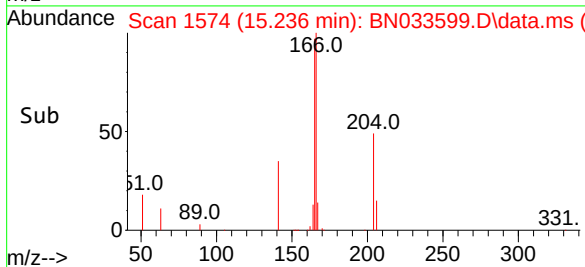
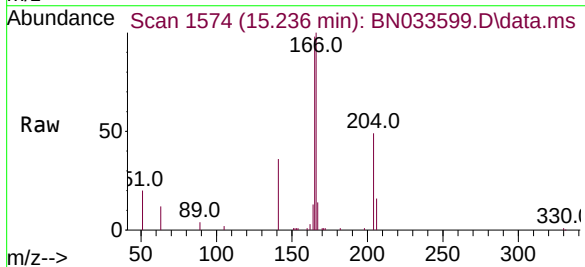
Manual Integrations
APPROVED

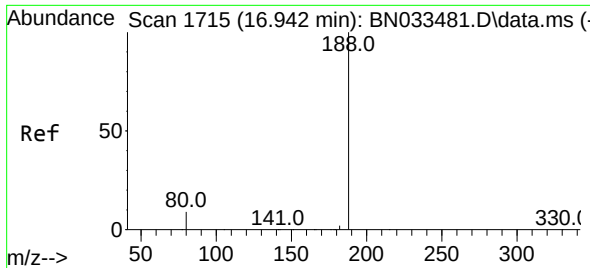
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#18
Fluorene
Concen: 0.338 ng
RT: 15.236 min Scan# 1574
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

Tgt Ion:166 Resp: 13314
Ion Ratio Lower Upper
166 100
165 98.3 78.2 117.4
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.929 min Scan# 1715

Delta R.T. -0.001 min

Lab File: BN033599.D

Acq: 23 Aug 2024 21:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

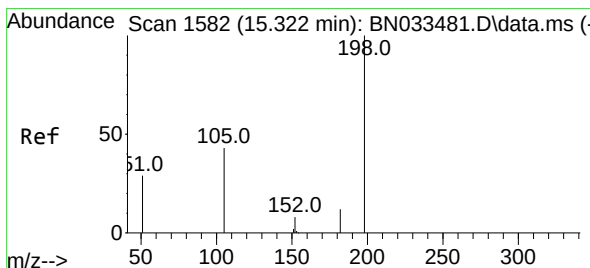
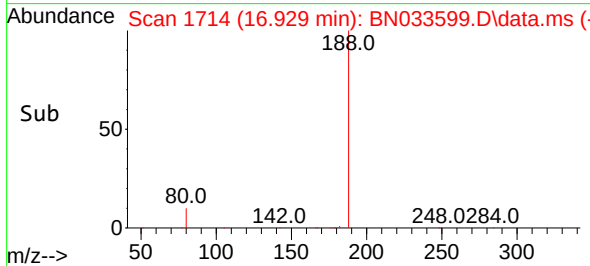
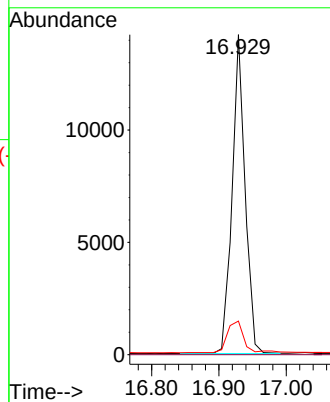
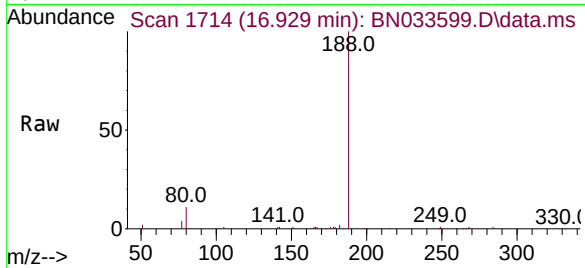
Tgt Ion:188	Resp:	1900
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	10.5	11.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.124 ng

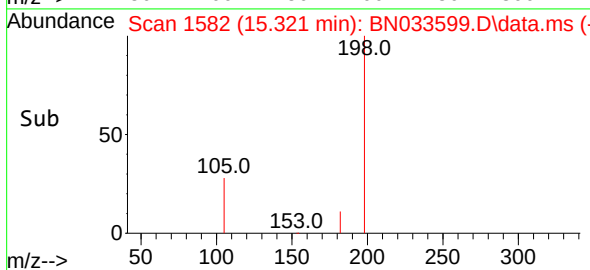
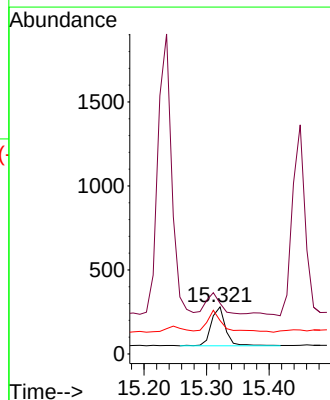
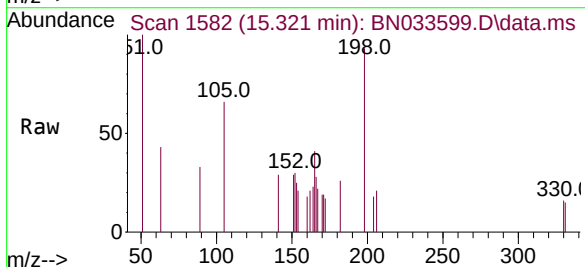
RT: 15.321 min Scan# 1582

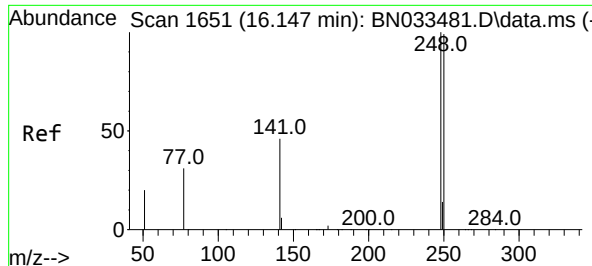
Delta R.T. -0.001 min

Lab File: BN033599.D

Acq: 23 Aug 2024 21:30

Tgt Ion:198	Resp:	369
Ion Ratio	Lower	Upper
198	100	
51	107.9	65.1
105	71.1	44.8





#21
4-Bromophenyl-phenylether
Concen: 0.374 ng
RT: 16.134 min Scan# 1650
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

Instrument :

BNA_N

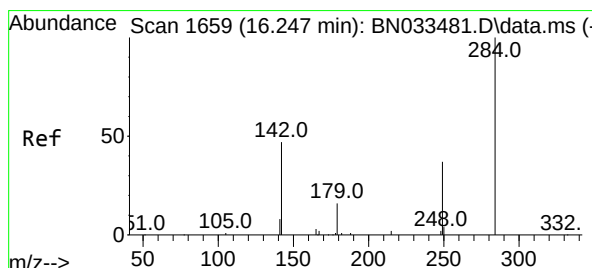
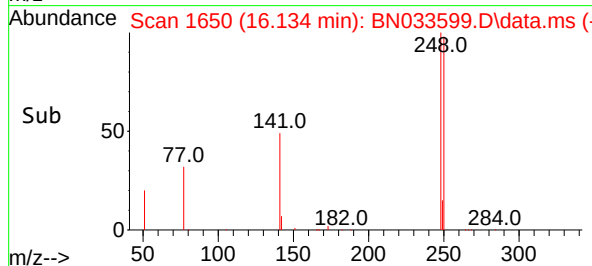
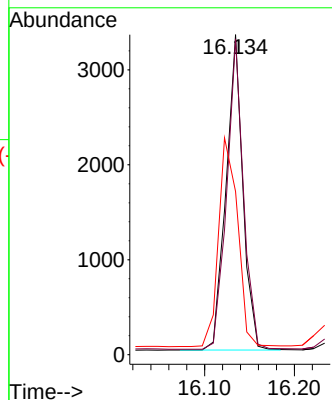
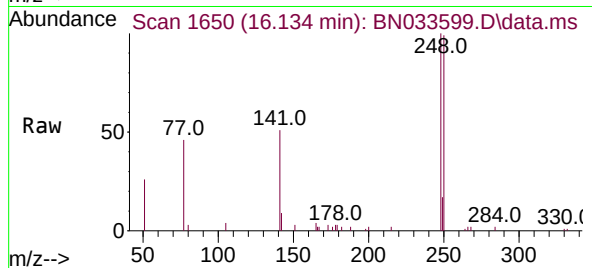
ClientSampleId :

SSTDCCC0.4

Tgt Ion:248 Resp: 432
Ion Ratio Lower Upper
248 100
250 98.7 79.2 118.8
141 51.0 37.9 56.9

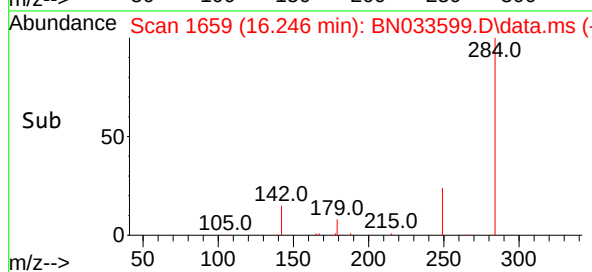
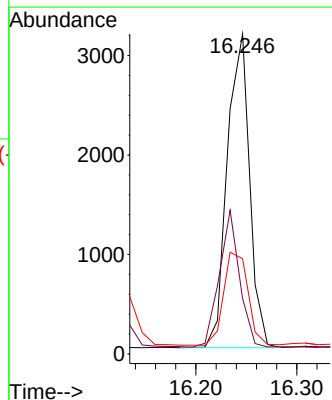
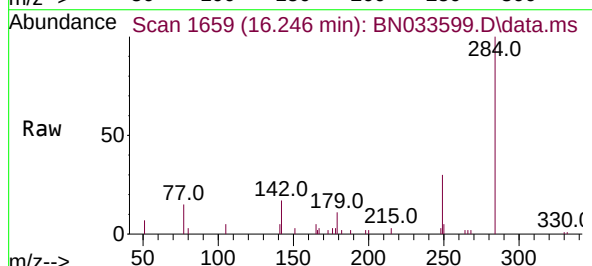
Manual Integrations
APPROVED

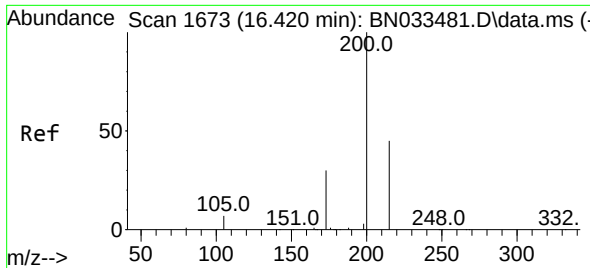
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.246 min Scan# 1659
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

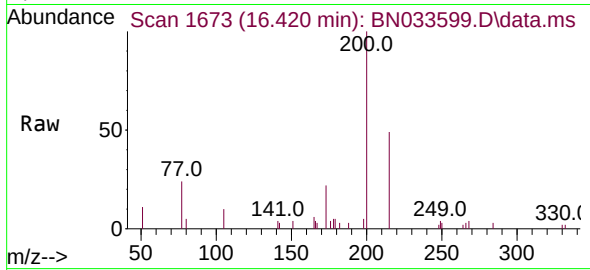
Tgt Ion:284 Resp: 4849
Ion Ratio Lower Upper
284 100
142 39.0 31.8 47.6
249 32.0 26.0 39.0





#23
Atrazine
Concen: 0.387 ng
RT: 16.420 min Scan# 1673
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

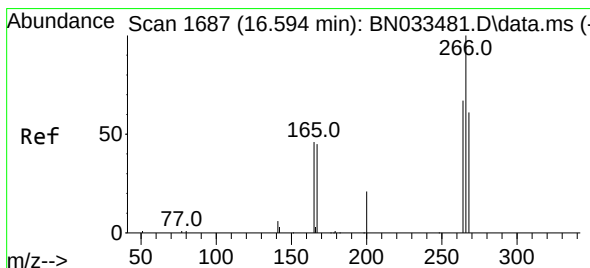
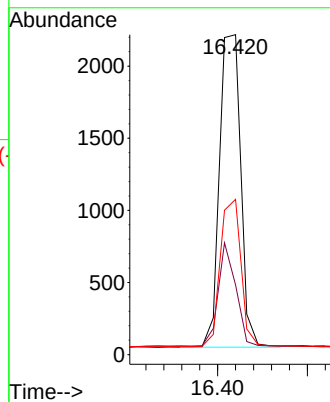
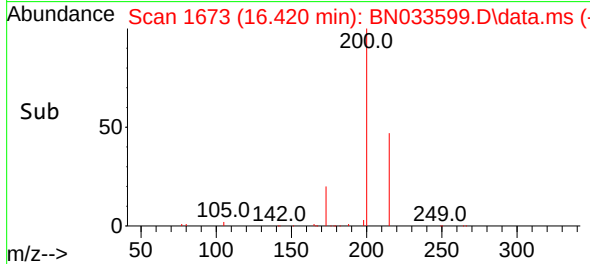
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 356
Ion Ratio Lower Upper
200 100
173 21.8 25.3 37.9
215 48.6 36.6 54.8

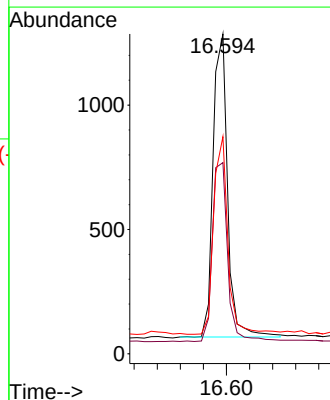
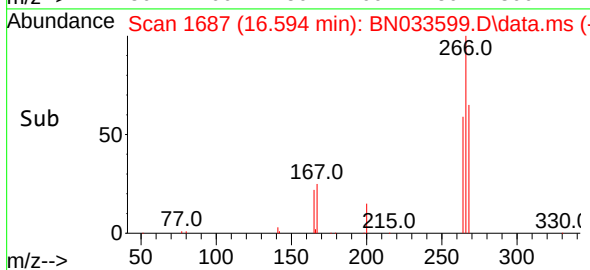
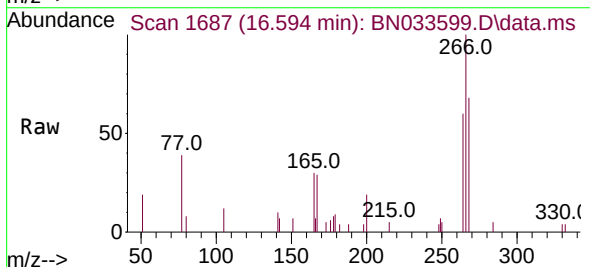
Manual Integrations
APPROVED

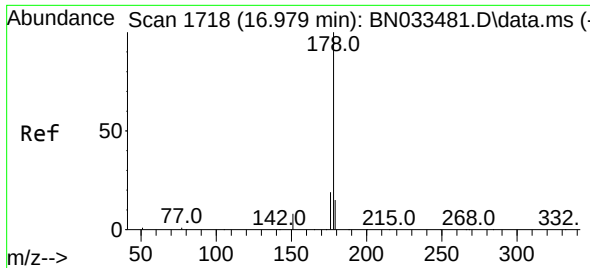
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#24
Pentachlorophenol
Concen: 0.382 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

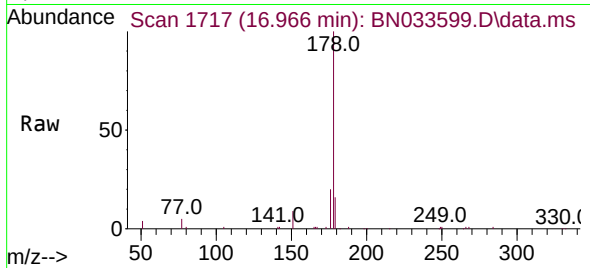
Tgt Ion:266 Resp: 2109
Ion Ratio Lower Upper
266 100
264 62.4 51.9 77.9
268 64.6 51.0 76.4





#25
Phenanthrene
Concen: 0.362 ng
RT: 16.966 min Scan# 1718
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

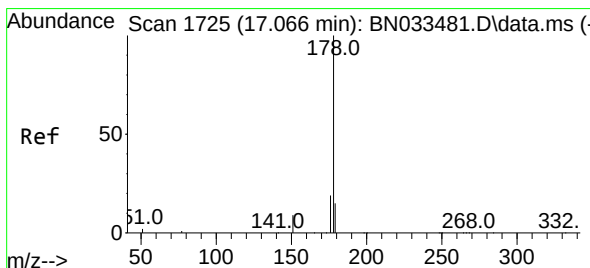
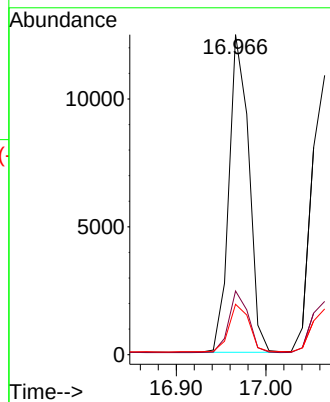
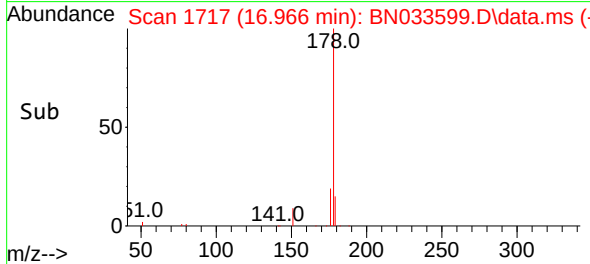
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 19150
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.4 12.3 18.5

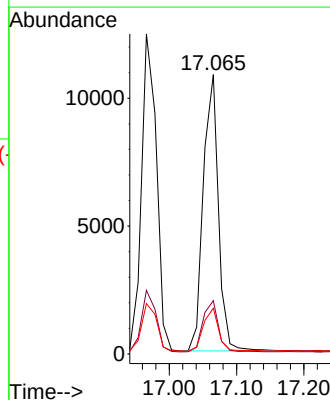
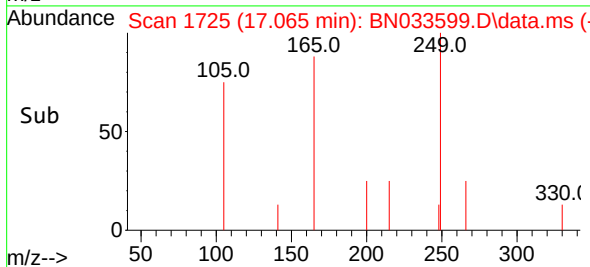
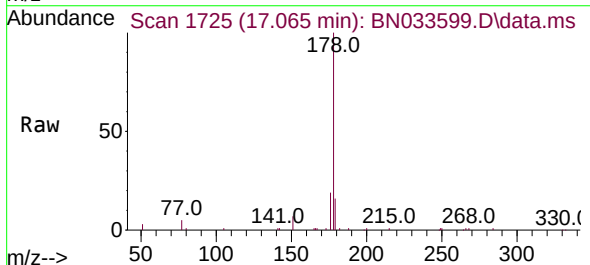
Manual Integrations
APPROVED

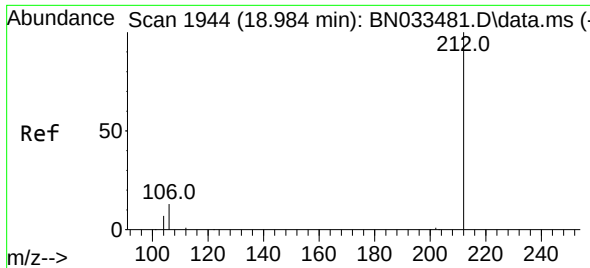
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#26
Anthracene
Concen: 0.362 ng
RT: 17.065 min Scan# 1725
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

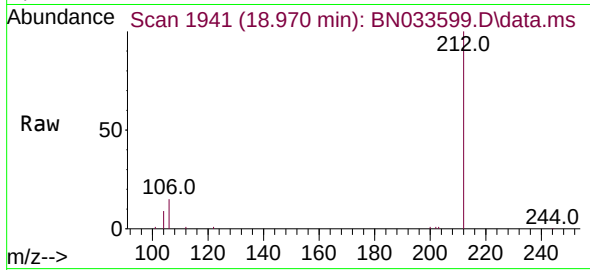
Tgt Ion:178 Resp: 16935
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.6 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.379 ng
RT: 18.970 min Scan# 1941
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

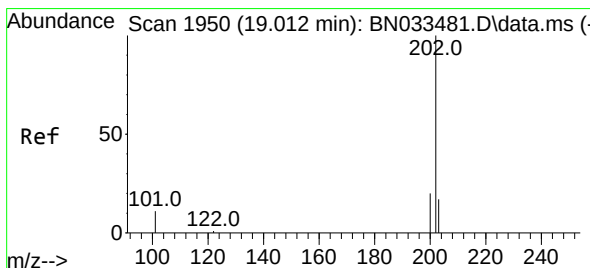
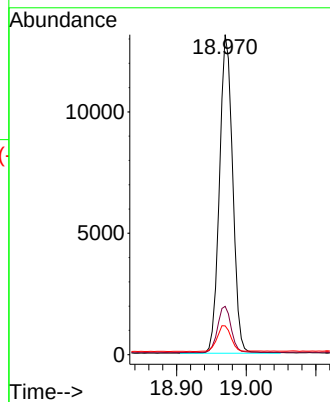
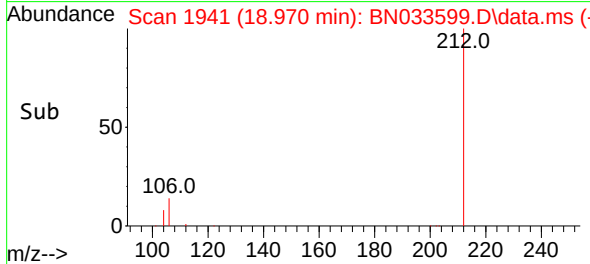
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



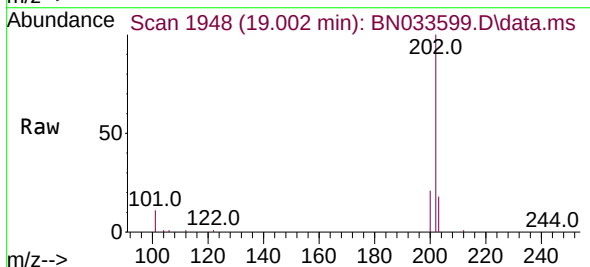
Tgt Ion:212 Resp: 17300
Ion Ratio Lower Upper
212 100
106 14.8 12.3 18.5
104 8.5 7.0 10.4

Manual Integrations
APPROVED

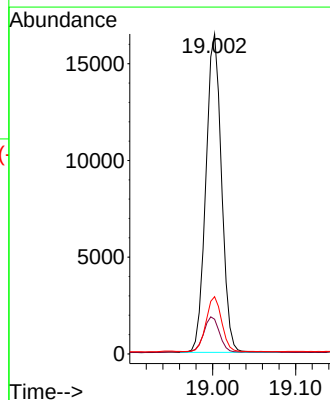
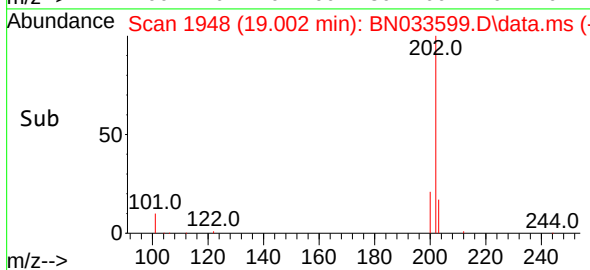
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

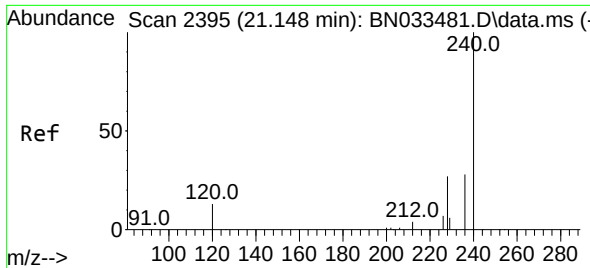


#28
Fluoranthene
Concen: 0.369 ng
RT: 19.002 min Scan# 1948
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30



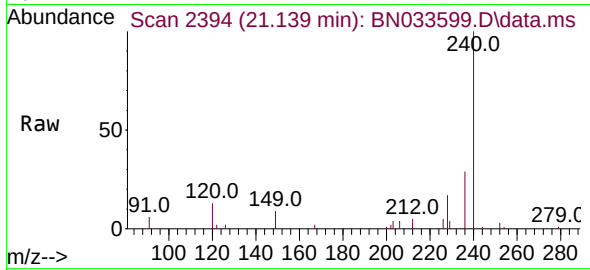
Tgt Ion:202 Resp: 21543
Ion Ratio Lower Upper
202 100
101 11.7 9.5 14.3
203 17.3 13.8 20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 21139
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

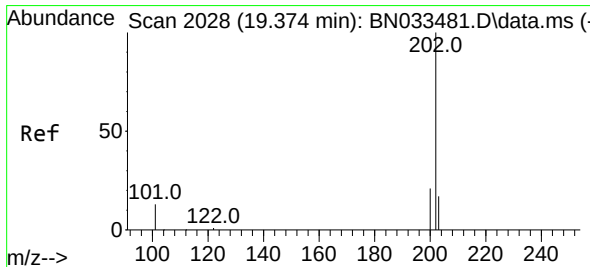
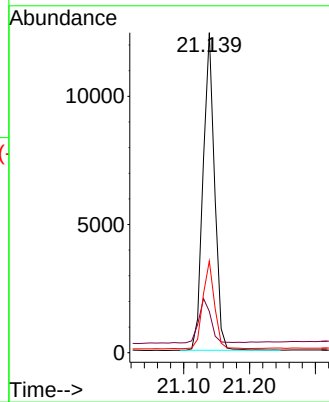
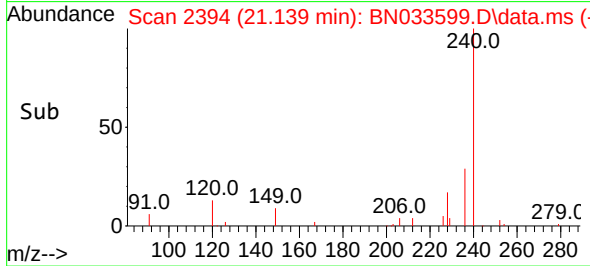
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



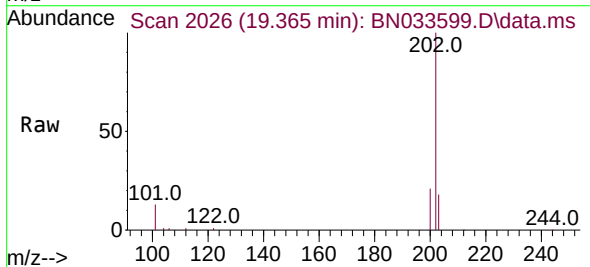
Tgt Ion:240 Resp: 1509
Ion Ratio Lower Upper
240 100
120 12.9 12.4 18.6
236 28.6 23.0 34.6

Manual Integrations
APPROVED

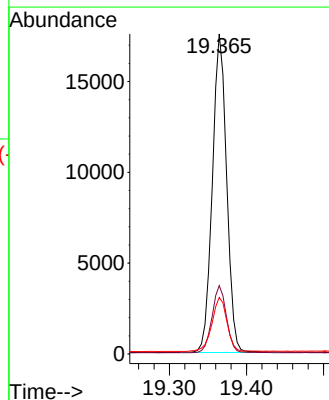
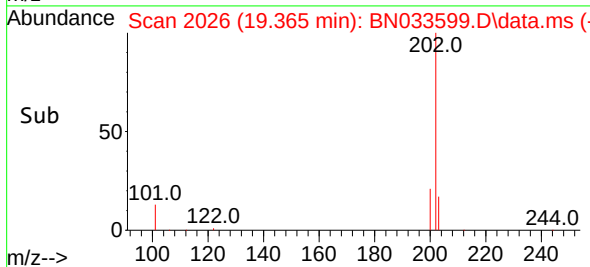
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024

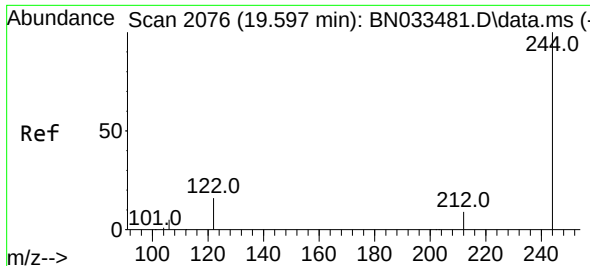


#30
Pyrene
Concen: 0.336 ng
RT: 19.365 min Scan# 2026
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30



Tgt Ion:202 Resp: 22618
Ion Ratio Lower Upper
202 100
200 21.1 16.6 24.8
203 17.9 14.2 21.4





#31
Terphenyl-d14
Concen: 0.348 ng
RT: 19.583 min Scan# 2076
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

Instrument :

BNA_N

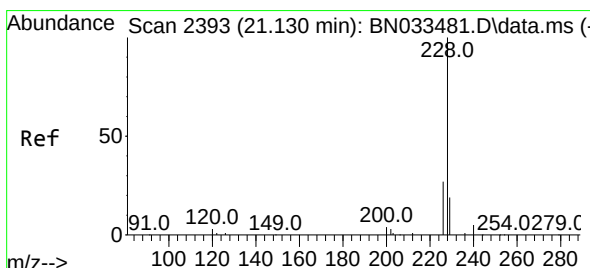
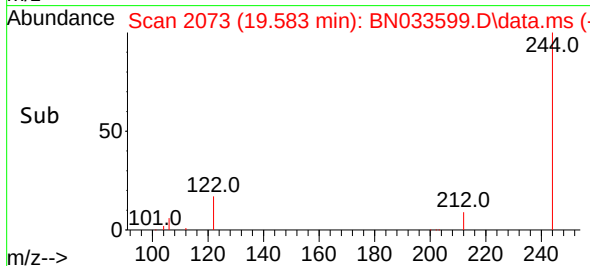
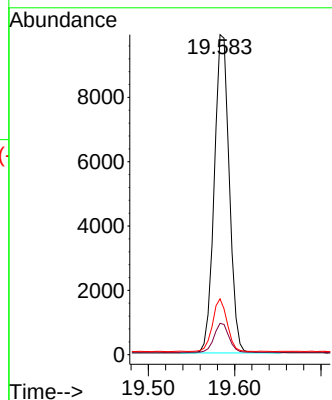
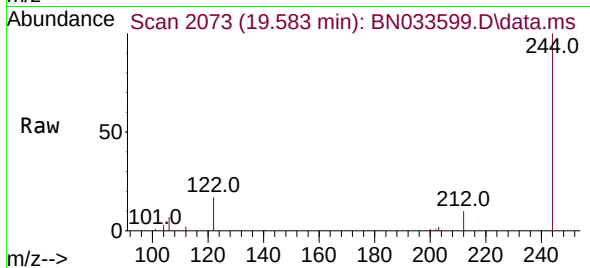
ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.8	11.6
122	17.4	13.3	19.9

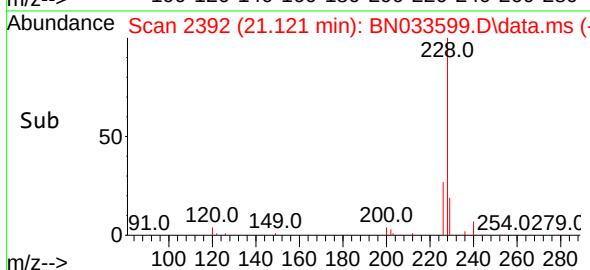
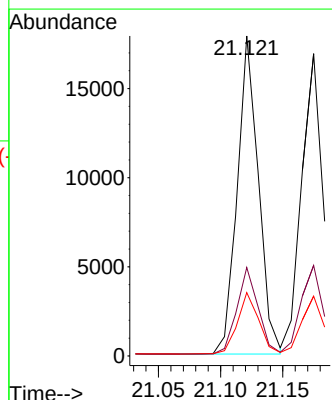
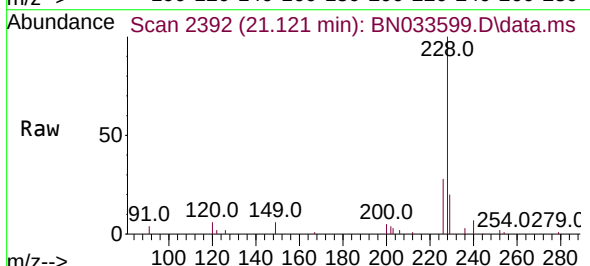
Manual Integrations
APPROVED

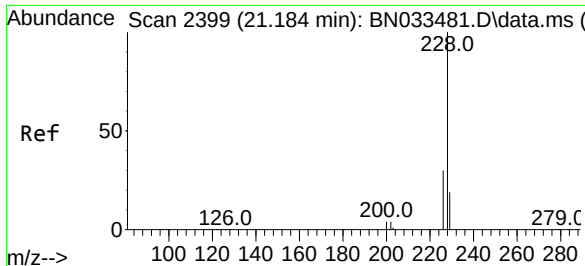
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#32
Benzo(a)anthracene
Concen: 0.386 ng
RT: 21.121 min Scan# 2392
Delta R.T. -0.001 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.8	32.6
229	19.8	15.8	23.6





#33

Chrysene

Concen: 0.372 ng

RT: 21.175 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN033599.D

Acq: 23 Aug 2024 21:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:228 Resp: 2020

Ion Ratio Lower Upper

228 100

226 30.0 23.8 35.8

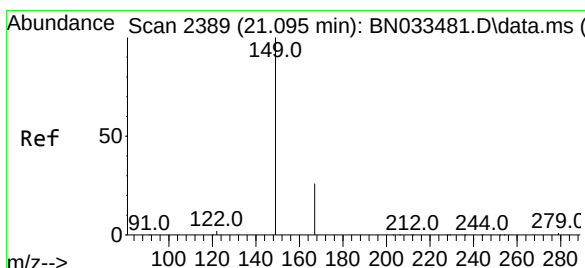
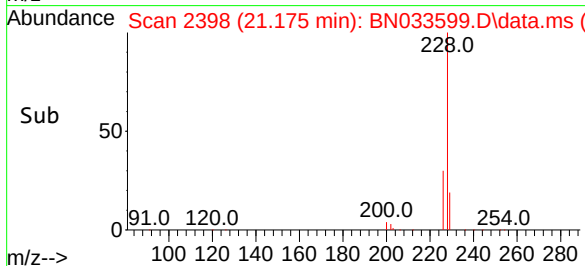
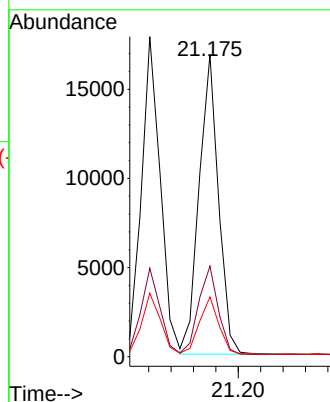
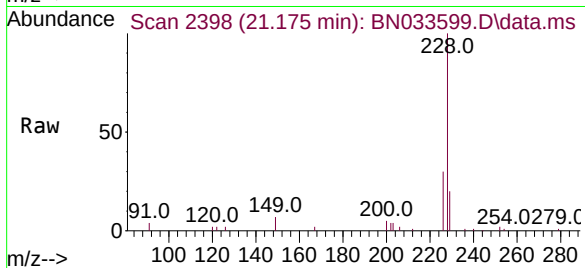
229 19.8 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.497 ng m

RT: 21.085 min Scan# 2388

Delta R.T. -0.001 min

Lab File: BN033599.D

Acq: 23 Aug 2024 21:30

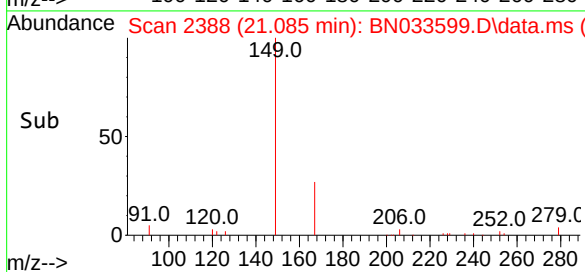
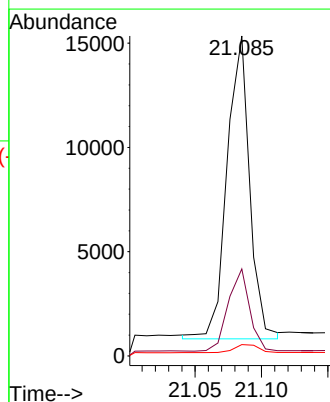
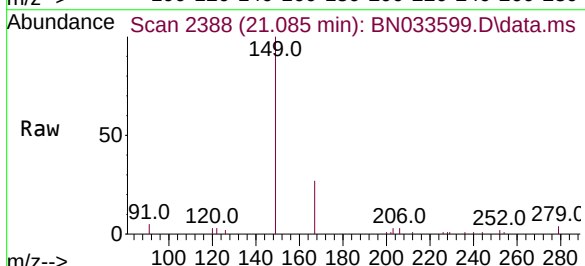
Tgt Ion:149 Resp: 17187

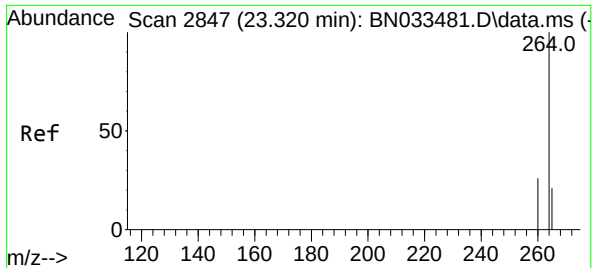
Ion Ratio Lower Upper

149 100

167 27.3 21.5 32.3

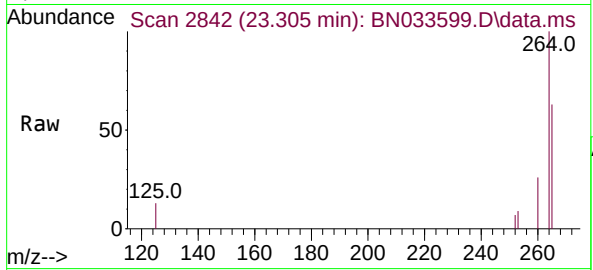
279 9.5 2.2 3.2#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.305 min Scan# 2842
Delta R.T. 0.002 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

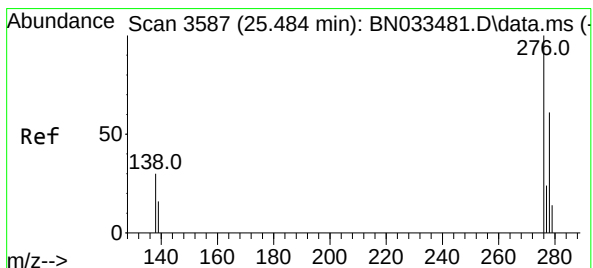
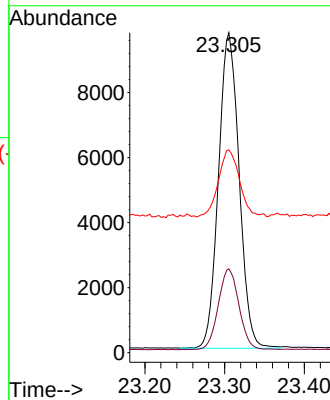
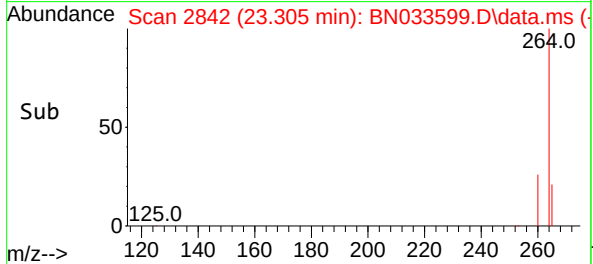
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 1741
Ion Ratio Lower Upper
264 100
260 26.2 20.8 31.2
265 63.4 52.2 78.2

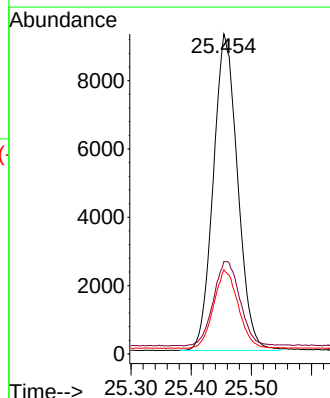
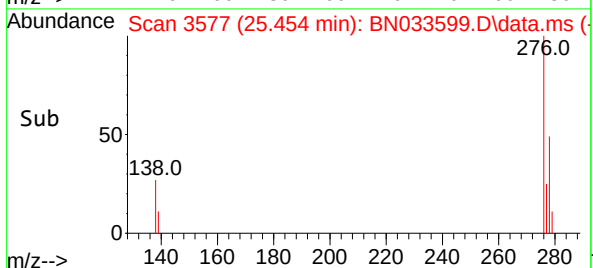
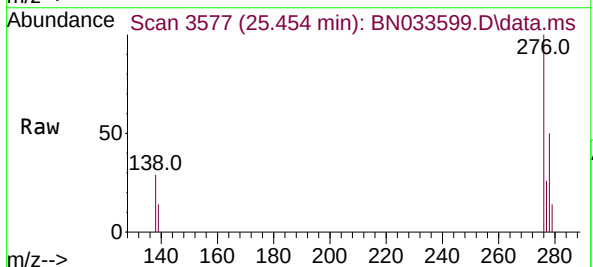
Manual Integrations
APPROVED

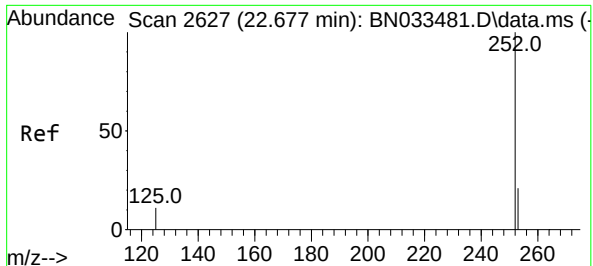
Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.360 ng
RT: 25.454 min Scan# 3577
Delta R.T. 0.005 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

Tgt Ion:276 Resp: 26015
Ion Ratio Lower Upper
276 100
138 29.2 24.4 36.6
277 25.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.347 ng

RT: 22.662 min Scan# 2622

Delta R.T. 0.002 min

Lab File: BN033599.D

Acq: 23 Aug 2024 21:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

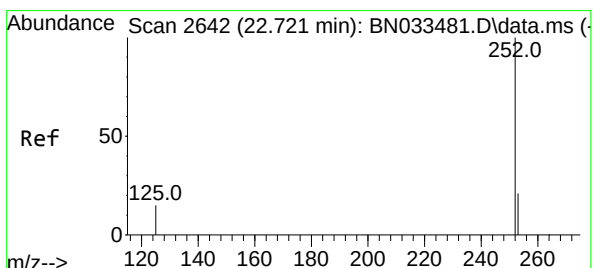
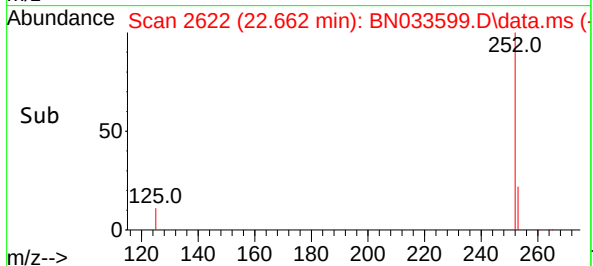
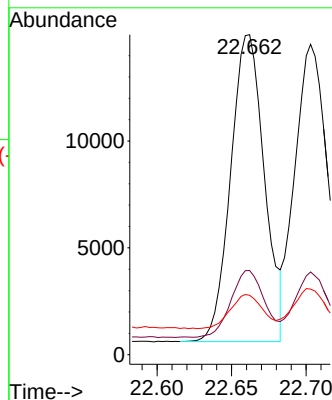
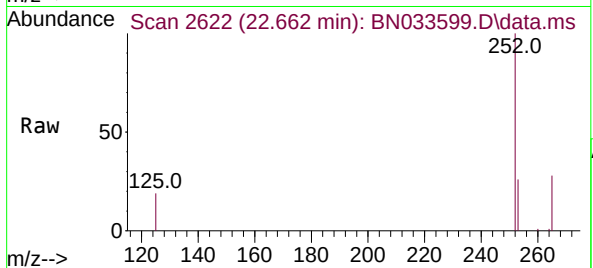
Tgt Ion:	252	Resp:	2256
Ion Ratio	Lower	Upper	
252	100		
253	26.3	19.8	29.8
125	18.5	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#38

Benzo(k)fluoranthene

Concen: 0.335 ng

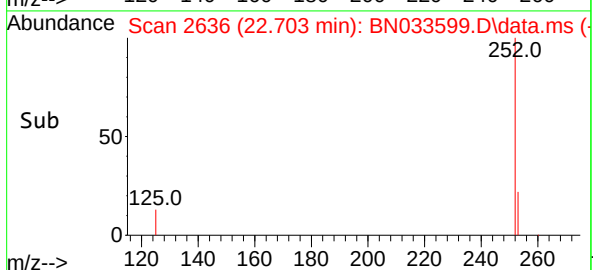
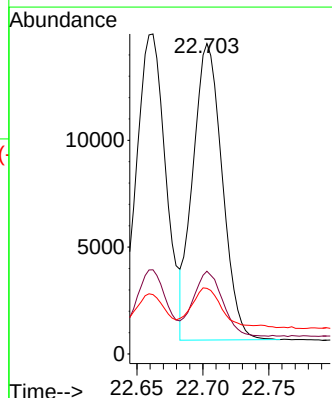
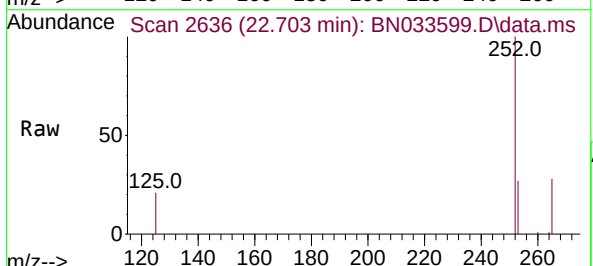
RT: 22.703 min Scan# 2636

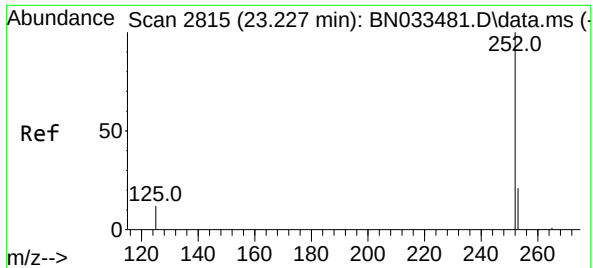
Delta R.T. -0.001 min

Lab File: BN033599.D

Acq: 23 Aug 2024 21:30

Tgt Ion:	252	Resp:	21472
Ion Ratio	Lower	Upper	
252	100		
253	26.7	19.8	29.8
125	21.1	15.8	23.8





#39

Benzo(a)pyrene

Concen: 0.365 ng

RT: 23.209 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN033599.D

Acq: 23 Aug 2024 21:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

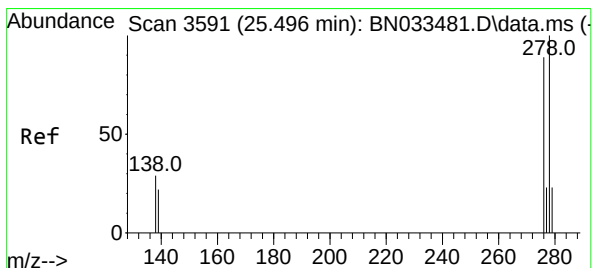
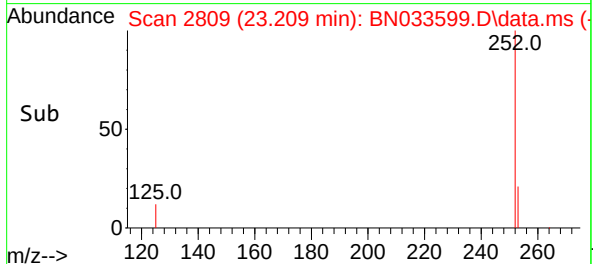
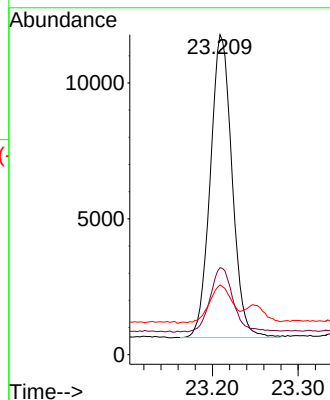
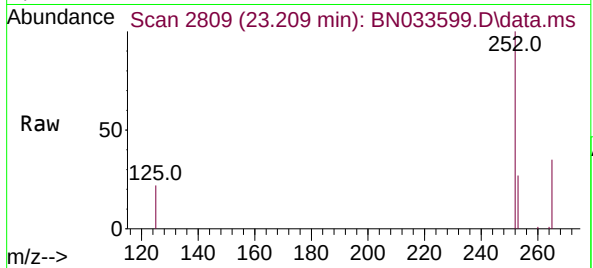
Tgt Ion:	252	Resp:	1966
Ion Ratio	Lower	Upper	
252	100		
253	27.2	21.5	32.3
125	21.8	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2024

Supervised By :mohammad ahmed 08/29/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.359 ng

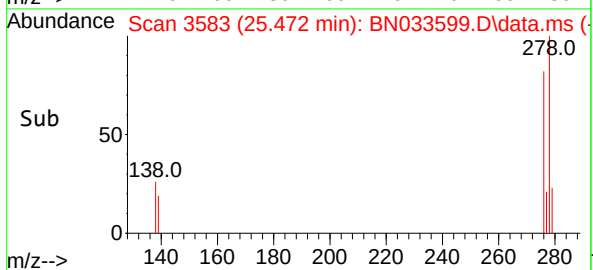
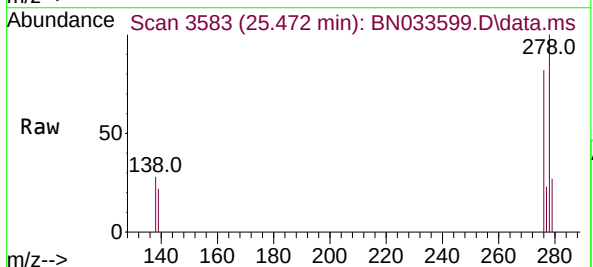
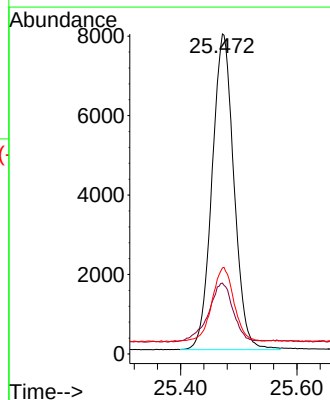
RT: 25.472 min Scan# 3583

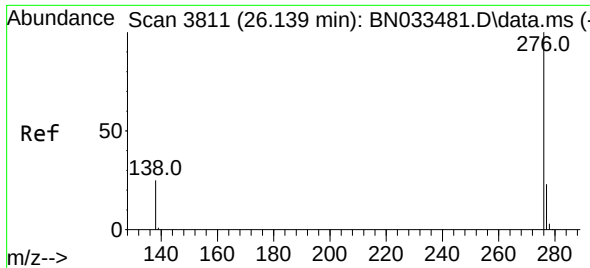
Delta R.T. 0.002 min

Lab File: BN033599.D

Acq: 23 Aug 2024 21:30

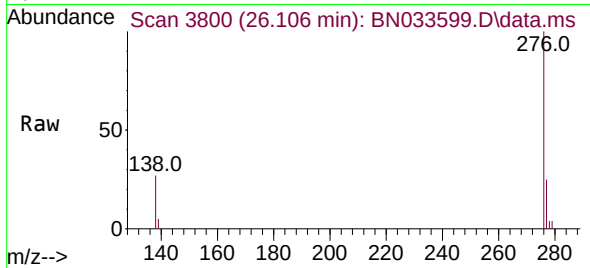
Tgt Ion:	278	Resp:	20764
Ion Ratio	Lower	Upper	
278	100		
139	22.1	19.1	28.7
279	26.9	21.0	31.4





#41
Benzo(g,h,i)perylene
Concen: 0.357 ng
RT: 26.106 min Scan# 3811
Delta R.T. 0.002 min
Lab File: BN033599.D
Acq: 23 Aug 2024 21:30

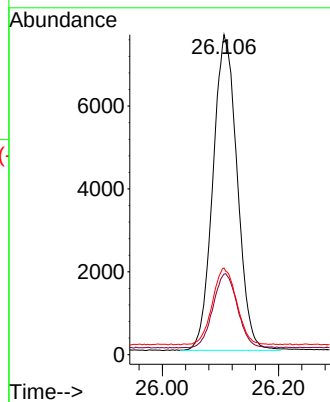
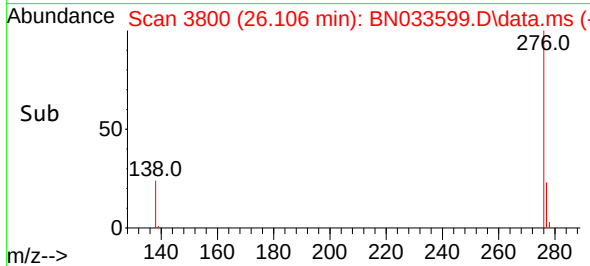
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 276 Resp: 2205
Ion Ratio Lower Upper
276 100
277 25.2 19.7 29.5
138 27.1 21.8 32.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2024
Supervised By :mohammad ahmed 08/29/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033599.D
Acq On : 23 Aug 2024 21:30
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 24 02:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 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	66	0.00
2	1,4-Dioxane	0.460	0.371	19.3	74	0.00
3	n-Nitrosodimethylamine	0.535	0.448	16.3	65	0.00
4 S	2-Fluorophenol	1.271	1.086	14.6	56	0.00
5 S	Phenol-d6	1.512	1.337	11.6	65	0.00
6	bis(2-Chloroethyl)ether	1.072	1.023	4.6	89	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	90	0.00
8 S	Nitrobenzene-d5	0.332	0.315	5.1	93	0.00
9	Naphthalene	1.069	0.971	9.2	92	0.00
10	Hexachlorobutadiene	0.213	0.205	3.8	96	-0.01
11 SURR	2-Methylnaphthalene-d10	0.572	0.518	9.4	95	0.00
12	2-Methylnaphthalene	0.677	0.599	11.5	92	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	84	0.00
14 S	2,4,6-Tribromophenol	0.215	0.200	7.0	91	0.00
15 S	2-Fluorobiphenyl	1.634	1.564	4.3	89	0.00
16	Acenaphthylene	1.754	1.573	10.3	86	-0.01
17	Acenaphthene	1.234	1.071	13.2	82	0.00
18	Fluorene	1.555	1.316	15.4	80	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	78	0.00
20	4,6-Dinitro-2-methylphenol	0.062	0.019	69.4#	29#	0.00
21	4-Bromophenyl-phenylether	0.243	0.227	6.6	80	0.00
22	Hexachlorobenzene	0.268	0.255	4.9	80	0.00
23	Atrazine	0.194	0.188	3.1	84	0.00
24	Pentachlorophenol	0.116	0.111	4.3	89	0.00
25	Phenanthrene	1.113	1.007	9.5	76	0.00
26	Anthracene	0.985	0.891	9.5	79	0.00
27 SURR	Fluoranthene-d10	0.961	0.910	5.3	81	0.00
28	Fluoranthene	1.230	1.133	7.9	79	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	94	0.00
30	Pyrene	1.785	1.498	16.1	82	0.00
31 S	Terphenyl-d14	0.909	0.792	12.9	86	0.00
32	Benzo(a)anthracene	1.446	1.396	3.5	99	0.00
33	Chrysene	1.437	1.338	6.9	94	0.00
34	Bis(2-ethylhexyl)phthalate	0.915	1.139	-24.5	131	0.00
35 I	Perylene-d12	1.000	1.000	0.0	109	0.00
36	Indeno(1,2,3-cd)pyrene	1.661	1.494	10.1	107	0.00
37	Benzo(b)fluoranthene	1.494	1.296	13.3	106	0.00
38	Benzo(k)fluoranthene	1.470	1.233	16.1	102	0.00
39 C	Benzo(a)pyrene	1.236	1.129	8.7	113	0.00
40	Dibenzo(a,h)anthracene	1.328	1.193	10.2	106	0.00
41	Benzo(g,h,i)perylene	1.420	1.267	10.8	107	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033599.D
Acq On : 23 Aug 2024 21:30
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 24 02:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 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	66	0.00
2	1,4-Dioxane	0.400	0.322	19.5	74	0.00
3	n-Nitrosodimethylamine	0.400	0.335	16.3	65	0.00
4 S	2-Fluorophenol	0.400	0.342	14.5	56	0.00
5 S	Phenol-d6	0.400	0.354	11.5	65	0.00
6	bis(2-Chloroethyl)ether	0.400	0.381	4.8	89	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	90	0.00
8 S	Nitrobenzene-d5	0.400	0.379	5.3	93	0.00
9	Naphthalene	0.400	0.363	9.3	92	0.00
10	Hexachlorobutadiene	0.400	0.384	4.0	96	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.362	9.5	95	0.00
12	2-Methylnaphthalene	0.400	0.354	11.5	92	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	84	0.00
14 S	2,4,6-Tribromophenol	0.400	0.371	7.3	91	0.00
15 S	2-Fluorobiphenyl	0.400	0.383	4.3	89	0.00
16	Acenaphthylene	0.400	0.359	10.3	86	-0.01
17	Acenaphthene	0.400	0.347	13.3	82	0.00
18	Fluorene	0.400	0.338	15.5	80	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	78	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.124	69.0#	29	0.00
21	4-Bromophenyl-phenylether	0.400	0.374	6.5	80	0.00
22	Hexachlorobenzene	0.400	0.380	5.0	80	0.00
23	Atrazine	0.400	0.387	3.3	84	0.00
24	Pentachlorophenol	0.400	0.382	4.5	89	0.00
25	Phenanthrene	0.400	0.362	9.5	76	0.00
26	Anthracene	0.400	0.362	9.5	79	0.00
27 SURR	Fluoranthene-d10	0.400	0.379	5.3	81	0.00
28	Fluoranthene	0.400	0.369	7.8	79	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	94	0.00
30	Pyrene	0.400	0.336	16.0	82	0.00
31 S	Terphenyl-d14	0.400	0.348	13.0	86	0.00
32	Benzo(a)anthracene	0.400	0.386	3.5	99	0.00
33	Chrysene	0.400	0.372	7.0	94	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.497	-24.2	131	0.00
35 I	Perylene-d12	0.400	0.400	0.0	109	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.360	10.0	107	0.00
37	Benzo(b)fluoranthene	0.400	0.347	13.3	106	0.00
38	Benzo(k)fluoranthene	0.400	0.335	16.3	102	0.00
39 C	Benzo(a)pyrene	0.400	0.365	8.8	113	0.00
40	Dibenzo(a,h)anthracene	0.400	0.359	10.3	106	0.00
41	Benzo(g,h,i)perylene	0.400	0.357	10.8	107	0.00

(#) = Out of Range

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



QC SAMPLE DATA

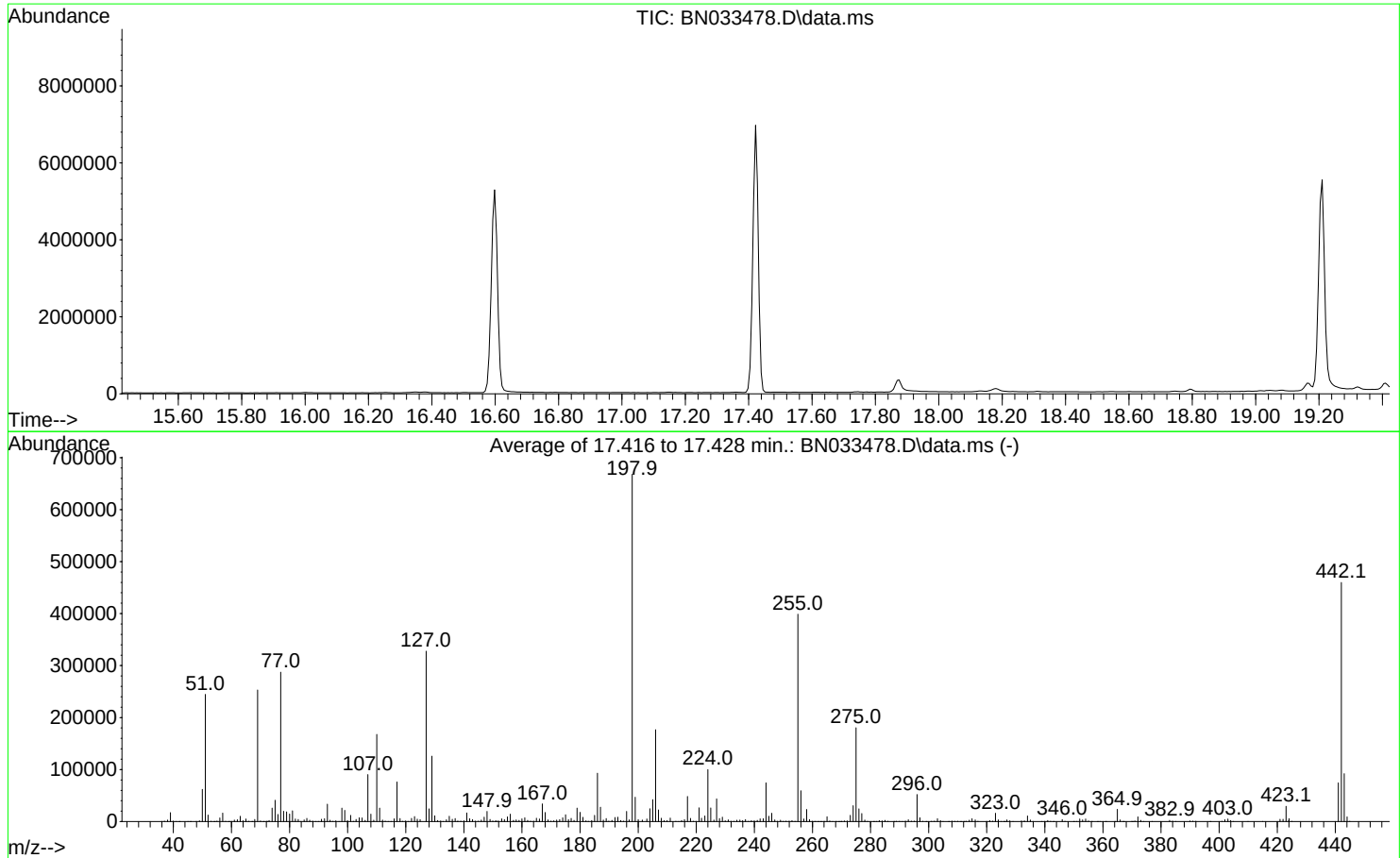
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033478.D
Acq On : 19 Aug 2024 15:37
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-BN081924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 19 23:32:18 2024



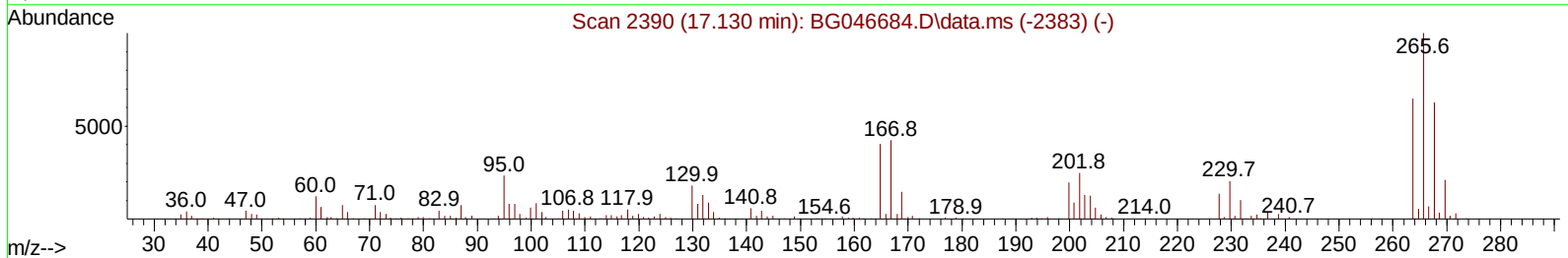
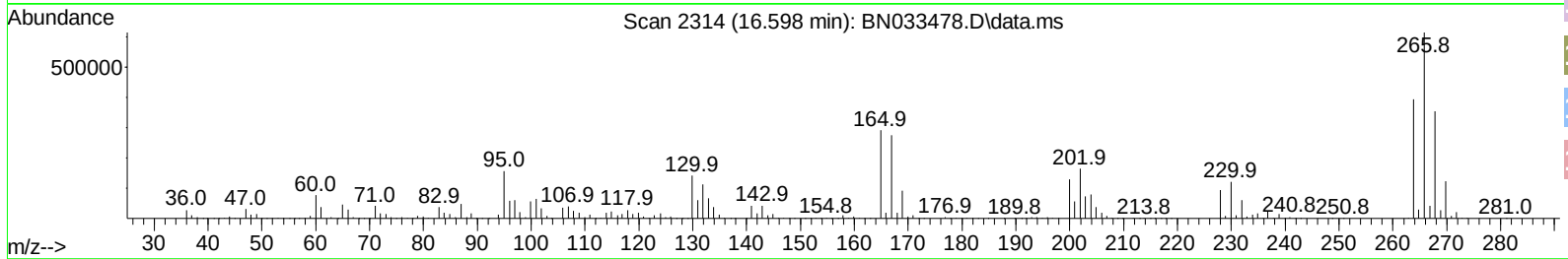
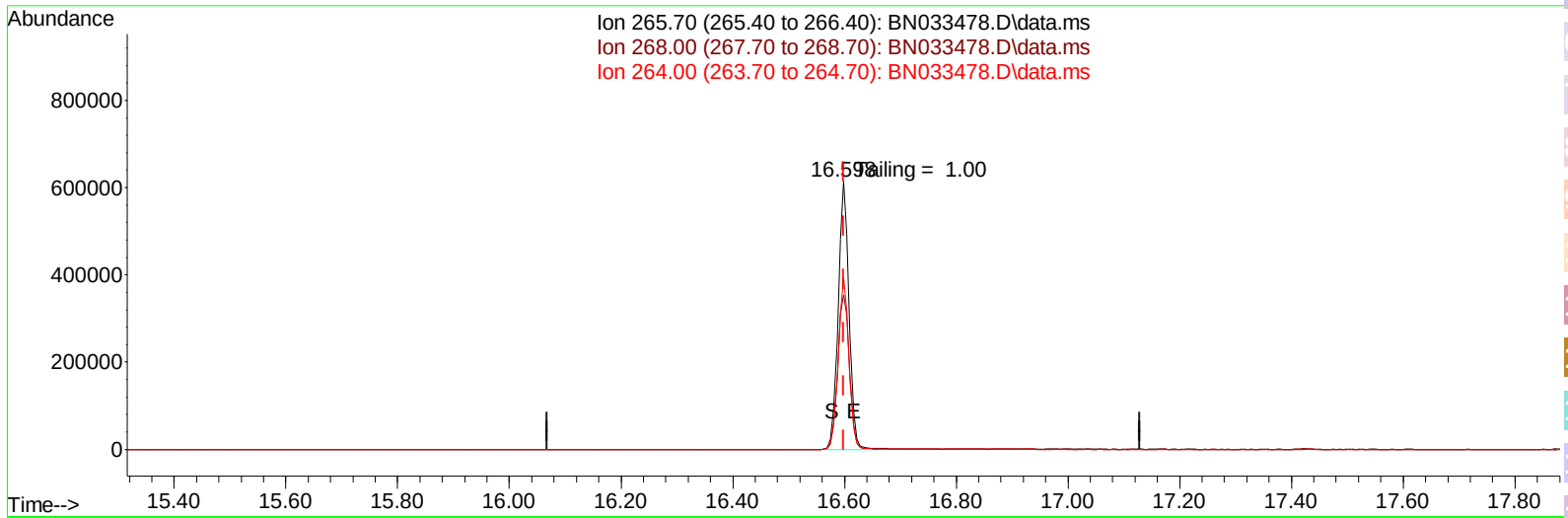
AutoFind: Scans 2453, 2454, 2455; Background Corrected with Scan 2446

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	36.6	244669	PASS
68	69	0.00	2	1.6	3975	PASS
69	198	0.00	100	37.9	253111	PASS
70	69	0.00	2	0.4	1124	PASS
127	198	10	80	49.1	327765	PASS
197	198	0.00	2	0.5	3324	PASS
198	198	100	100	100.0	667925	PASS
199	198	5	9	7.0	46784	PASS
275	198	10	60	27.0	180331	PASS
365	198	1	100	3.5	23424	PASS
441	198	0.01	100	11.2	74525	PASS
442	442	50	100	100.0	459861	PASS
443	442	15	24	20.0	92101	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033478.D
Acq On : 19 Aug 2024 15:37
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 04:50:59 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 20 04:49:48 2024
Response via : Initial Calibration



TIC: BN033478.D\data.ms

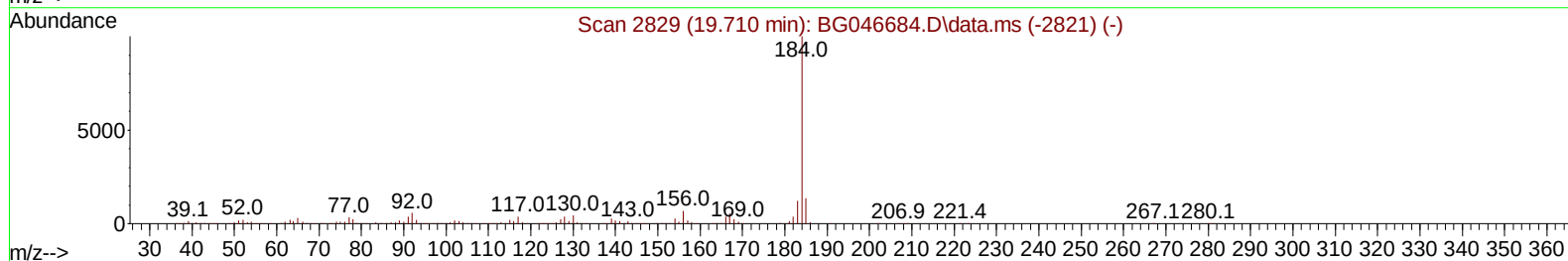
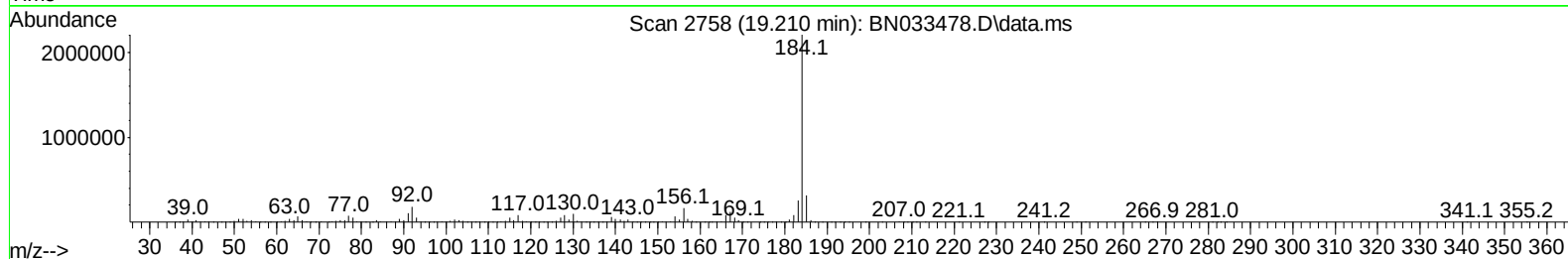
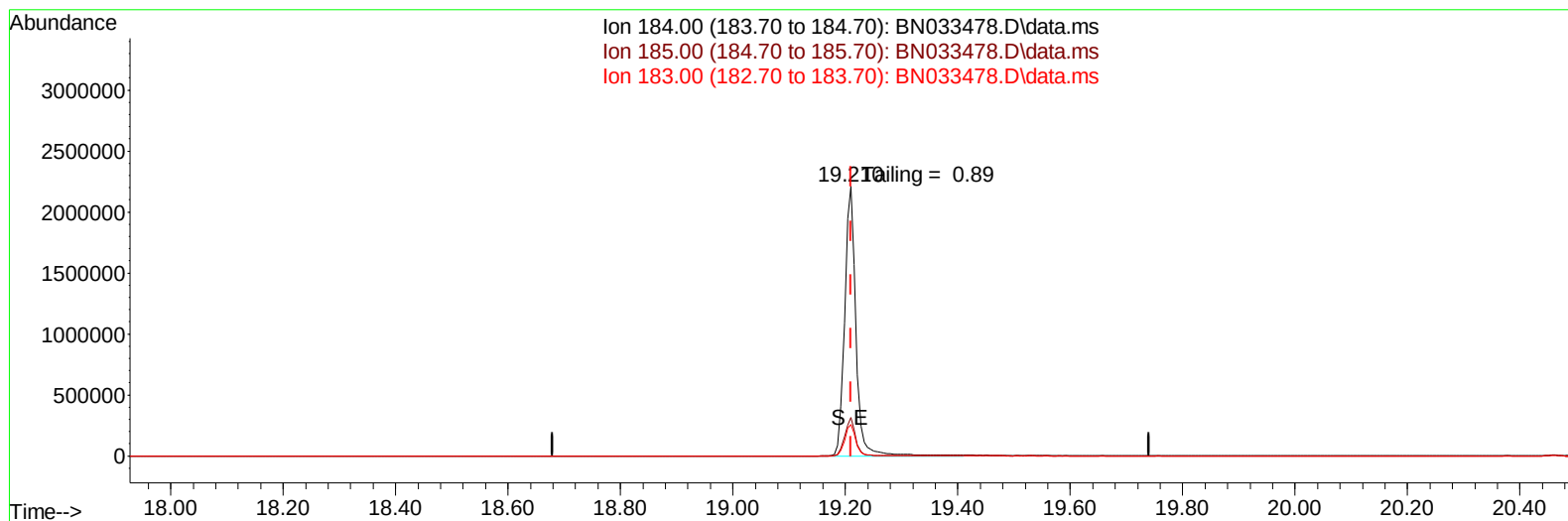
(70) Pentachlorophenol (C)**16.598min (-0.000) 25243.84 ng****response 836211**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	57.76
264.00	61.60	64.04
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033478.D
Acq On : 19 Aug 2024 15:37
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 04:50:59 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 20 04:49:48 2024
Response via : Initial Calibration



TIC: BN033478.D\data.ms

(77) Benzidine**19.210min (-0.000) 1831888.84 ng****response 3105776**

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.31
183.00	13.20	11.63
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

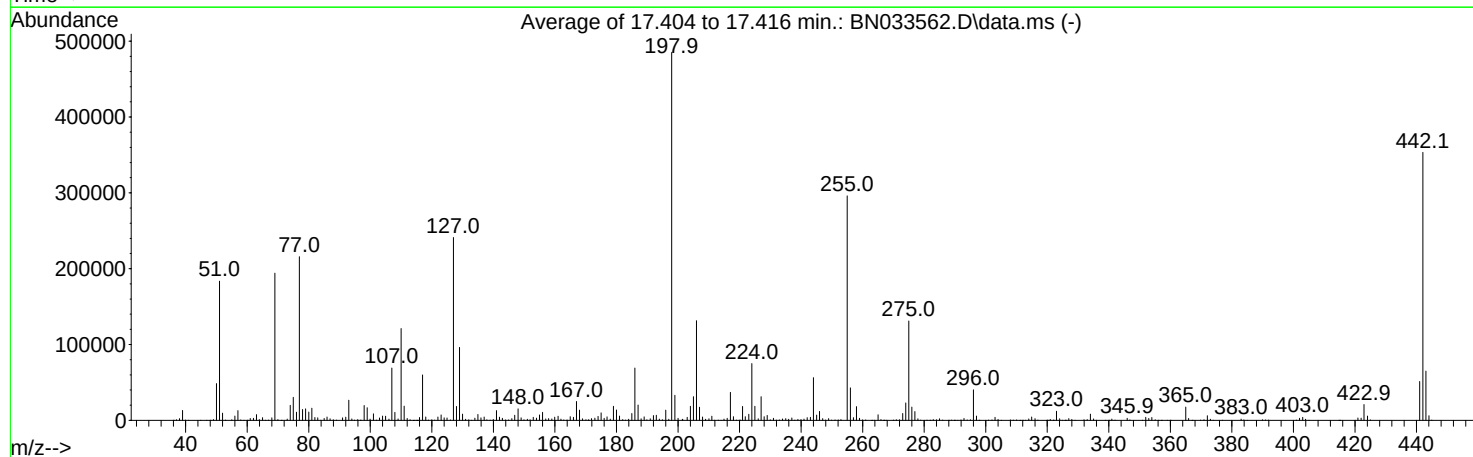
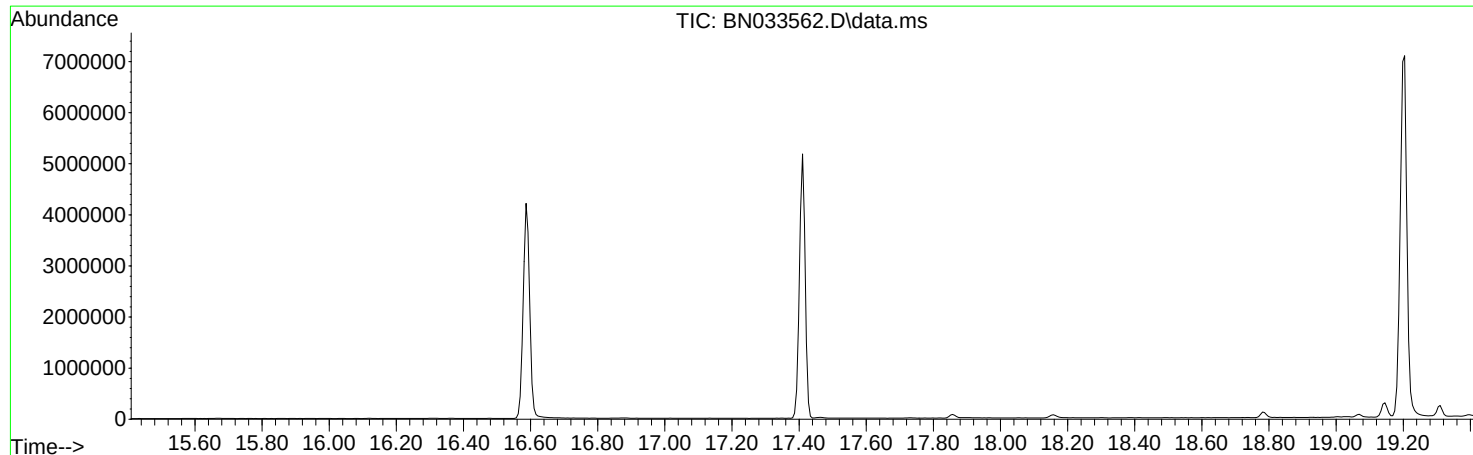
Date	Instrument Name	DFTPP Data File
8/19/2024	BNA_N	<u>BN033478.D</u>
Compound Name	Response	Retention Time
DDT	2164760	20.463
DDD	37665	20.016
DDE	773	19.51
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
38438	2203198	1.74

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033562.D
Acq On : 22 Aug 2024 21:24
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-BN081924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Aug 23 00:22:18 2024



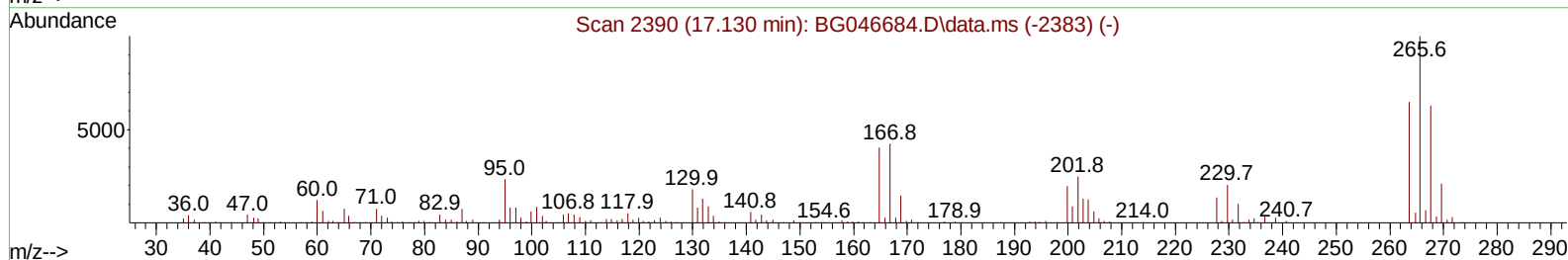
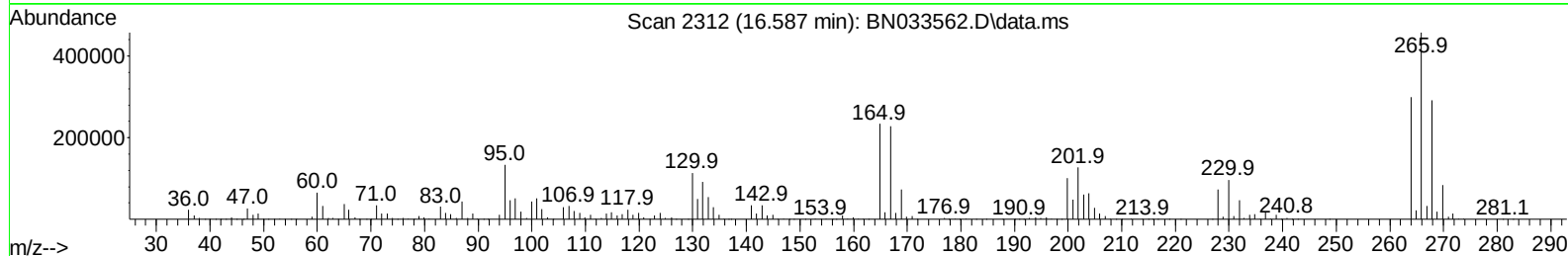
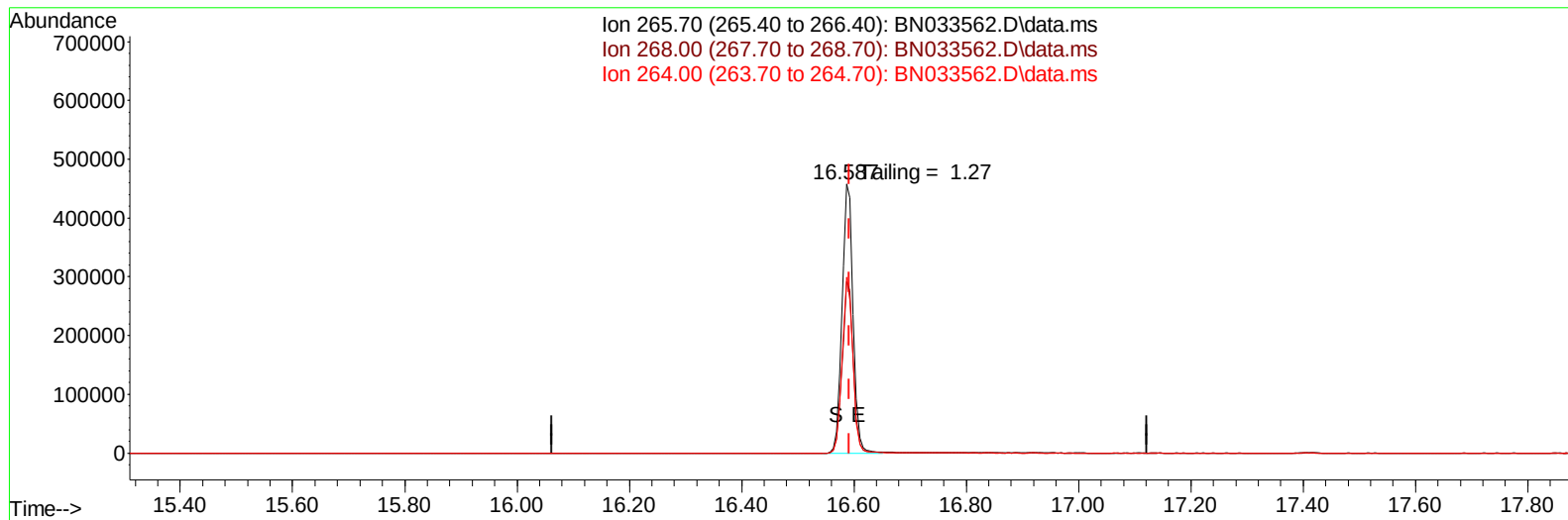
AutoFind: Scans 2451, 2452, 2453; Background Corrected with Scan 2444

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.9	183614	PASS
68	69	0.00	2	1.8	3432	PASS
69	198	0.00	100	40.0	194197	PASS
70	69	0.00	2	0.5	1014	PASS
127	198	10	80	49.7	241152	PASS
197	198	0.00	2	0.3	1497	PASS
198	198	100	100	100.0	485077	PASS
199	198	5	9	6.8	33064	PASS
275	198	10	60	27.0	131016	PASS
365	198	1	100	3.6	17521	PASS
441	198	0.01	100	10.6	51227	PASS
442	442	50	100	100.0	353387	PASS
443	442	15	24	18.4	65013	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033562.D
Acq On : 22 Aug 2024 21:24
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 23 07:44:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 07:42:58 2024
Response via : Initial Calibration



TIC: BN033562.D\data.ms

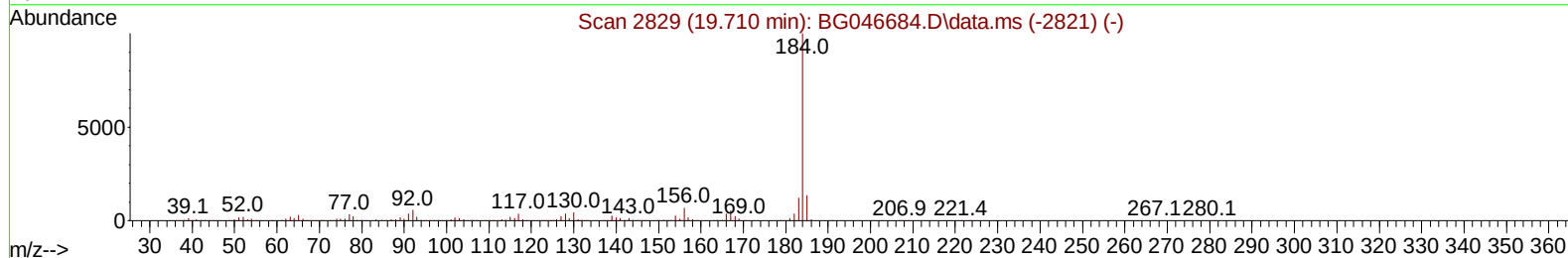
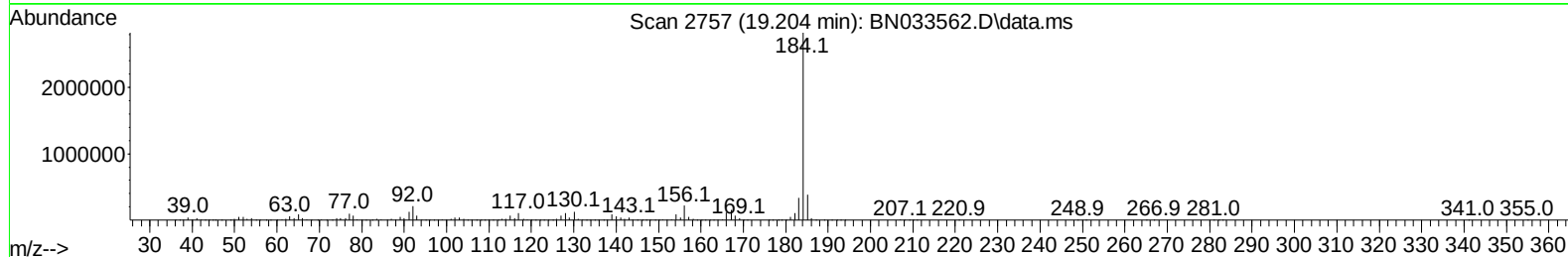
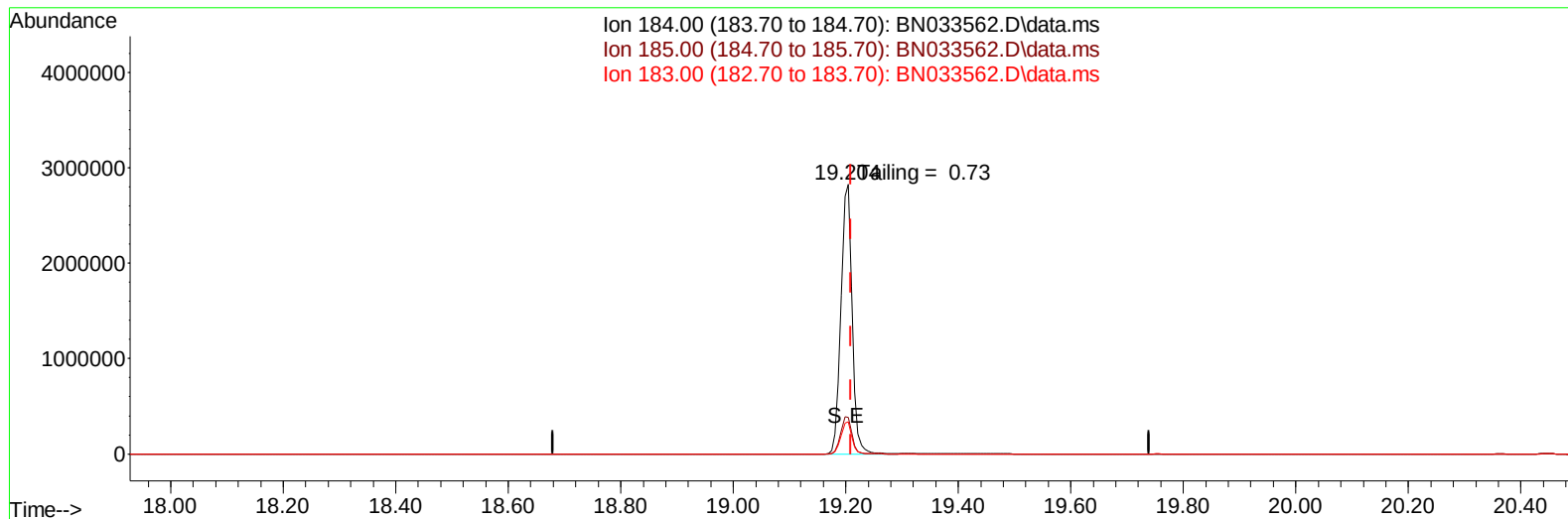
(70) Pentachlorophenol (C)**16.587min (-0.006) 266711.29 ng****response 630018**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.86
264.00	61.60	65.33
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033562.D
Acq On : 22 Aug 2024 21:24
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 23 07:44:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 07:42:58 2024
Response via : Initial Calibration



TIC: BN033562.D\data.ms

(77) Benzidine

19.204min (-0.006) 5344.12 ng

response 3912941

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.57
183.00	13.20	12.02
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

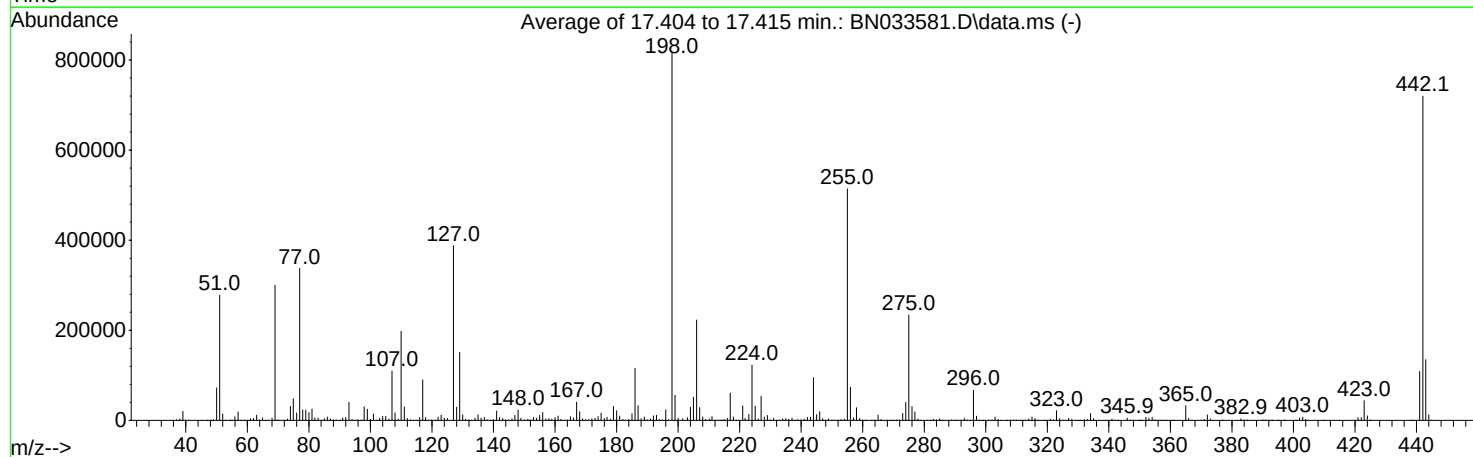
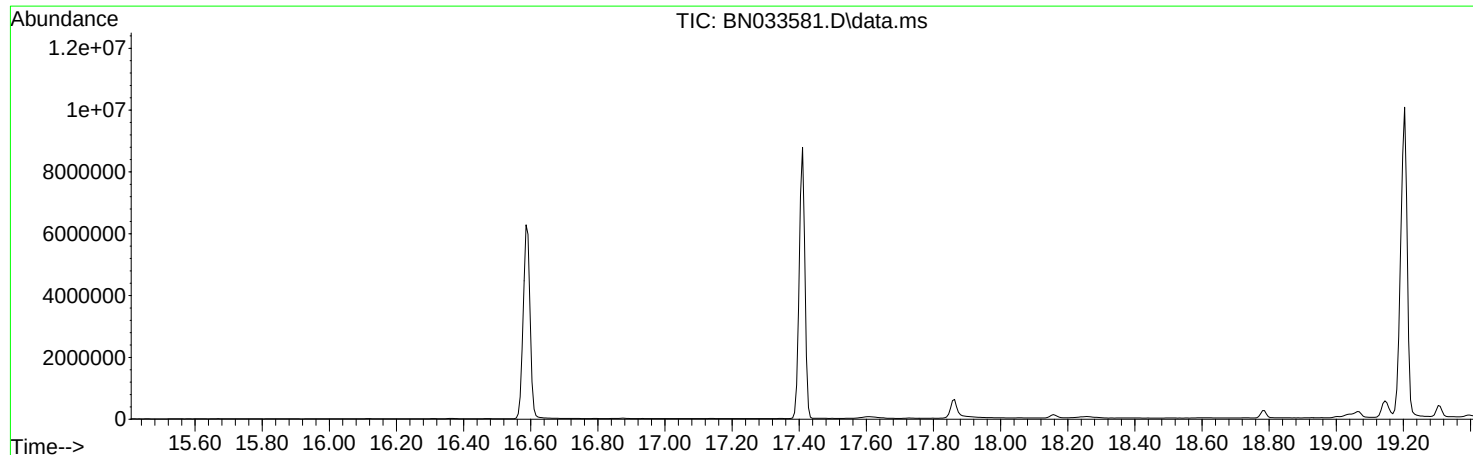
Date	Instrument Name	DFTPP Data File
8/22/2024	BNA_N	<u>BN033562.D</u>
Compound Name	Response	Retention Time
DDT	1657614	20.445
DDD	210956	20.004
DDE	1311	19.492
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
212267	1869881	11.35

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033581.D
Acq On : 23 Aug 2024 09:06
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-BN081924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Aug 23 00:22:18 2024



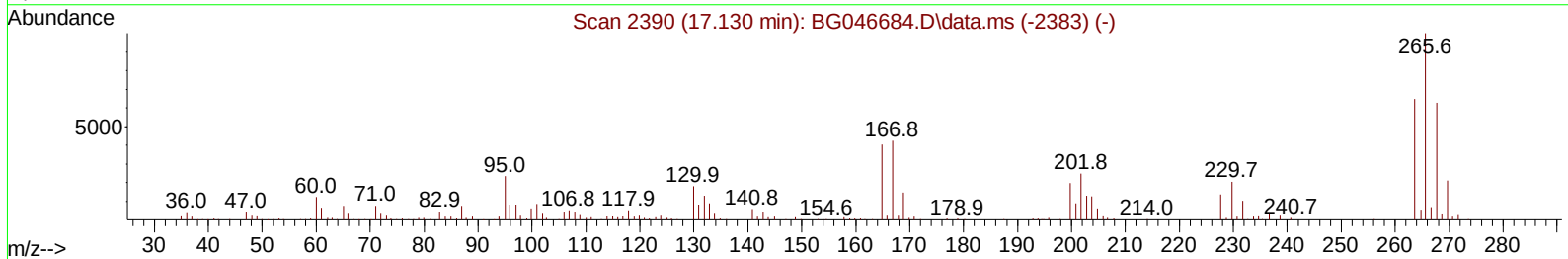
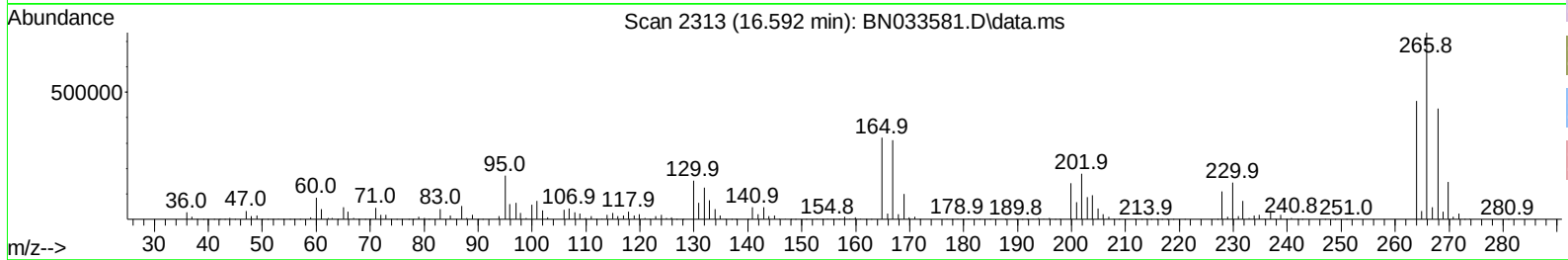
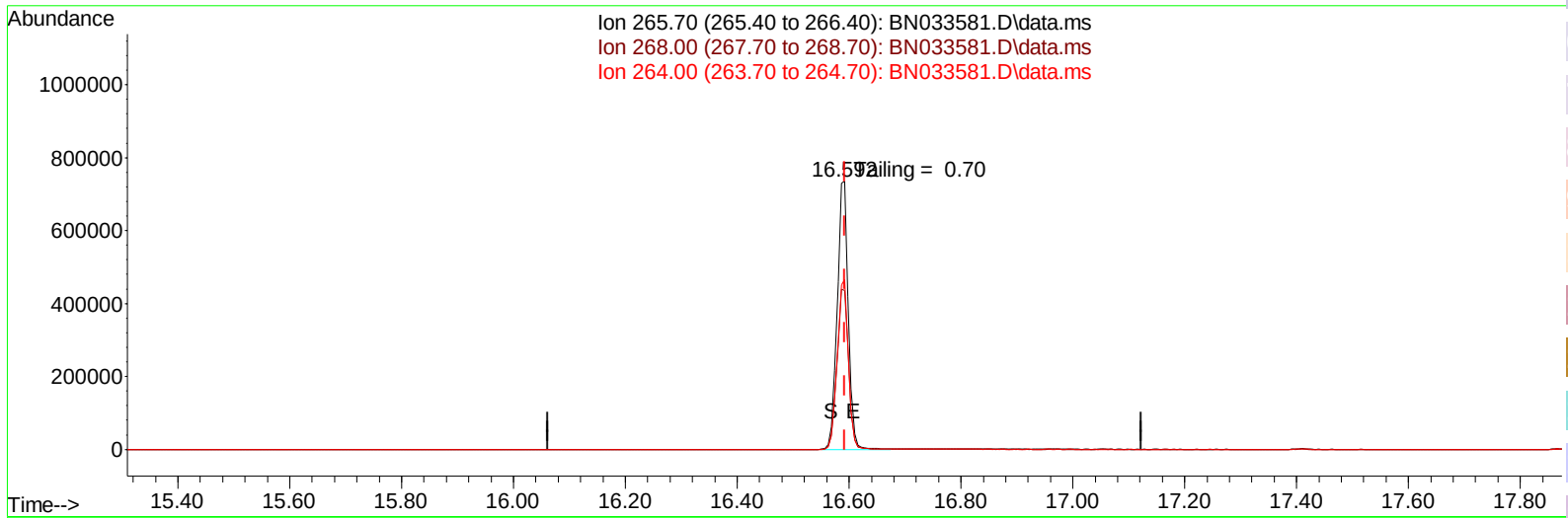
AutoFind: Scans 2451, 2452, 2453; Background Corrected with Scan 2443

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	34.0	277730	PASS
68	69	0.00	2	1.6	4842	PASS
69	198	0.00	100	36.7	299688	PASS
70	69	0.00	2	0.4	1334	PASS
127	198	10	80	47.5	387861	PASS
197	198	0.00	2	0.2	1293	PASS
198	198	100	100	100.0	816640	PASS
199	198	5	9	6.8	55896	PASS
275	198	10	60	28.7	234197	PASS
365	198	1	100	4.0	32875	PASS
441	198	0.01	100	13.3	108448	PASS
442	442	50	100	100.0	719509	PASS
443	442	15	24	18.7	134733	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033581.D
Acq On : 23 Aug 2024 09:06
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 24 06:44:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 24 06:44:36 2024
Response via : Initial Calibration



TIC: BN033581.D\data.ms

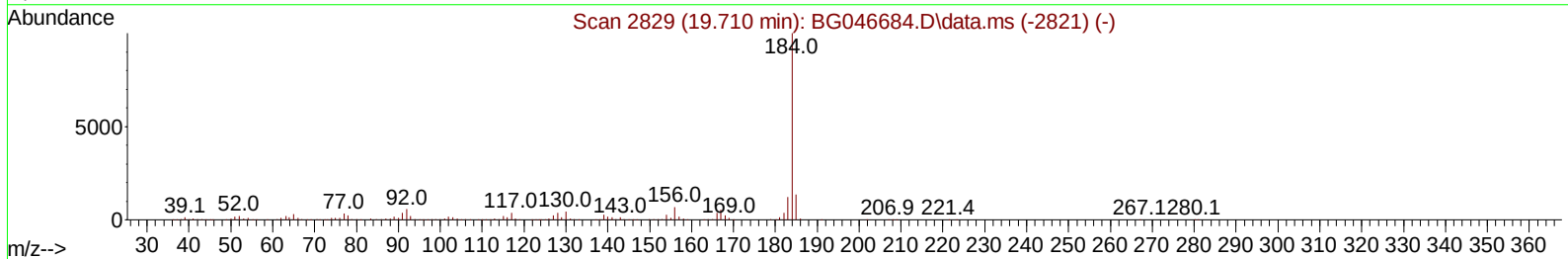
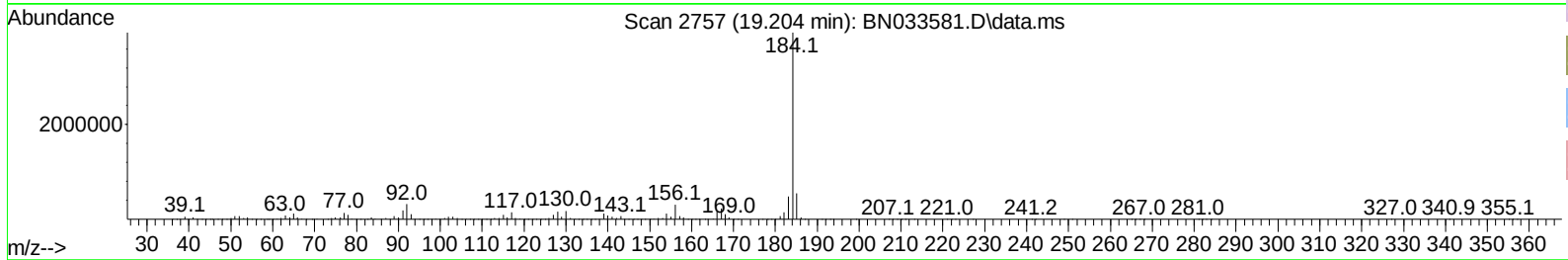
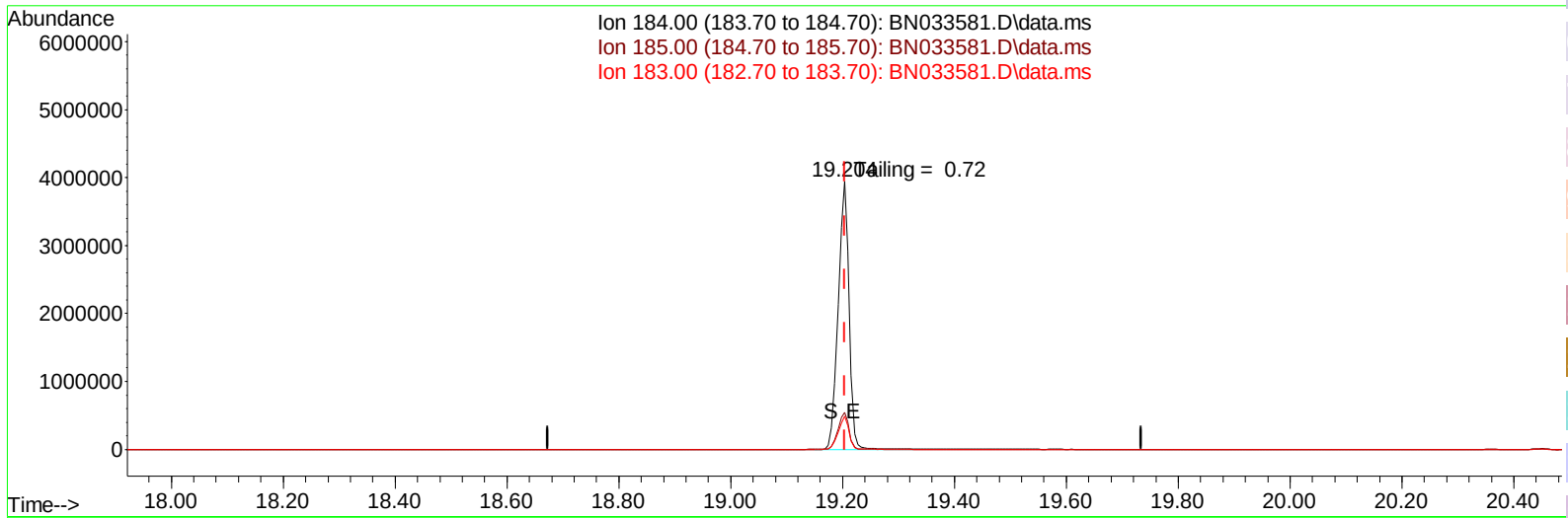
(70) Pentachlorophenol (C)**16.592min (0.000) 248809.79 ng****response 1021208**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.36
264.00	61.60	63.30
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033581.D
Acq On : 23 Aug 2024 09:06
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 24 06:44:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 24 06:44:36 2024
Response via : Initial Calibration



TIC: BN033581.D\data.ms

(77) Benzidine

19.204min (0.000) 4281.63 ng

response 5372497

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.90
183.00	13.20	12.29
0.00	0.00	0.00

DDT Breakdown

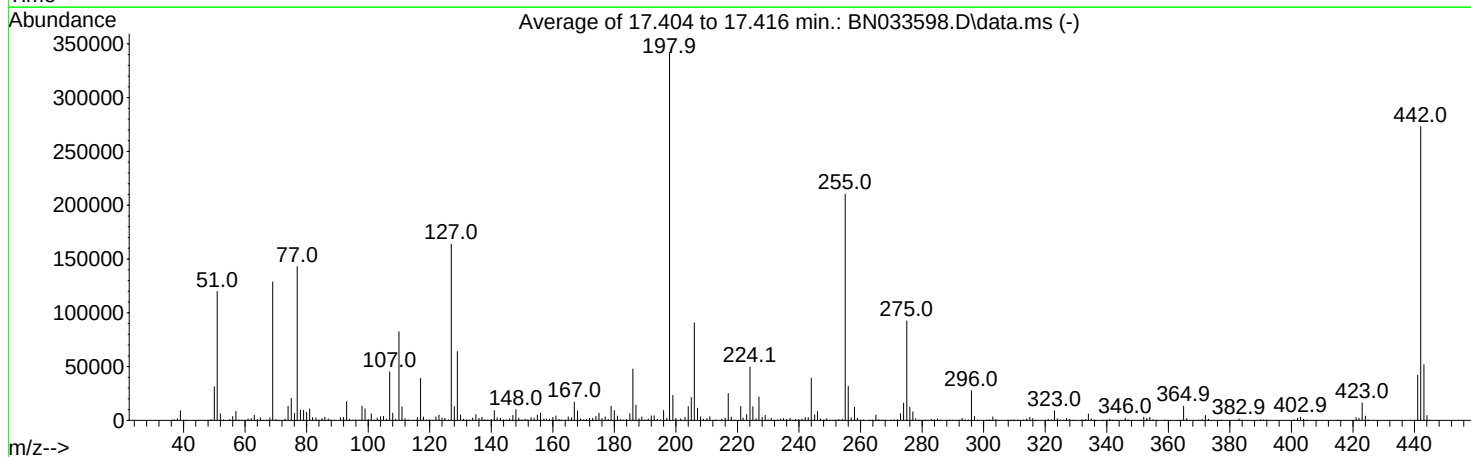
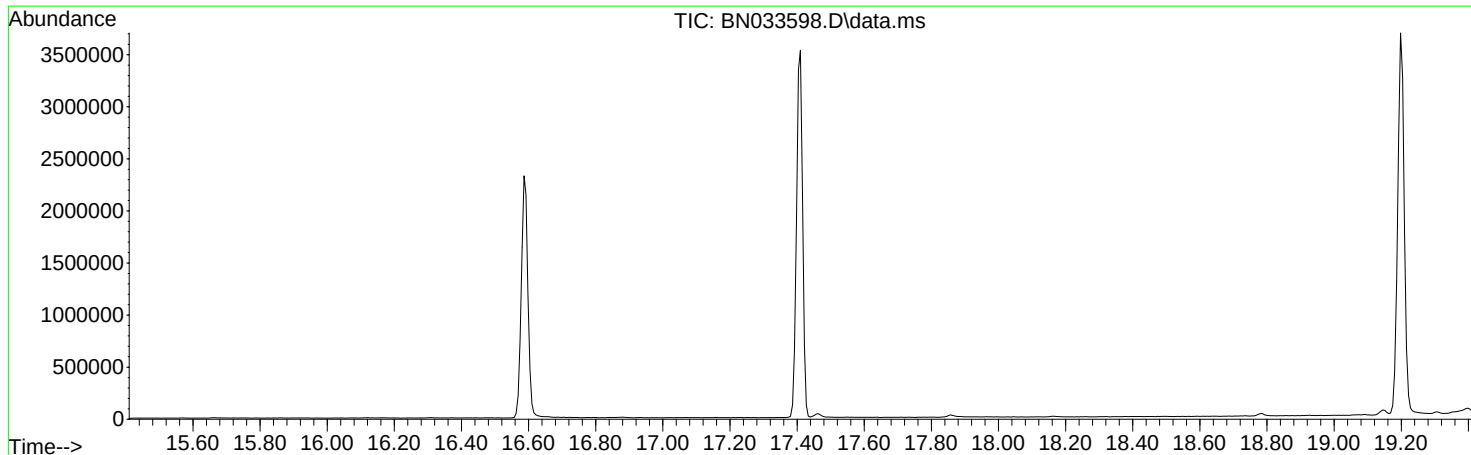
Date	Instrument Name	DFTPP Data File
8/23/2024	BNA_N	<u>BN033581.D</u>
Compound Name	Response	Retention Time
DDT	2823987	20.451
DDD	38911	20.057
DDE	349	19.492
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
39260	2863247	1.37

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033598.D
Acq On : 23 Aug 2024 20:51
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-BN081924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Aug 23 00:22:18 2024



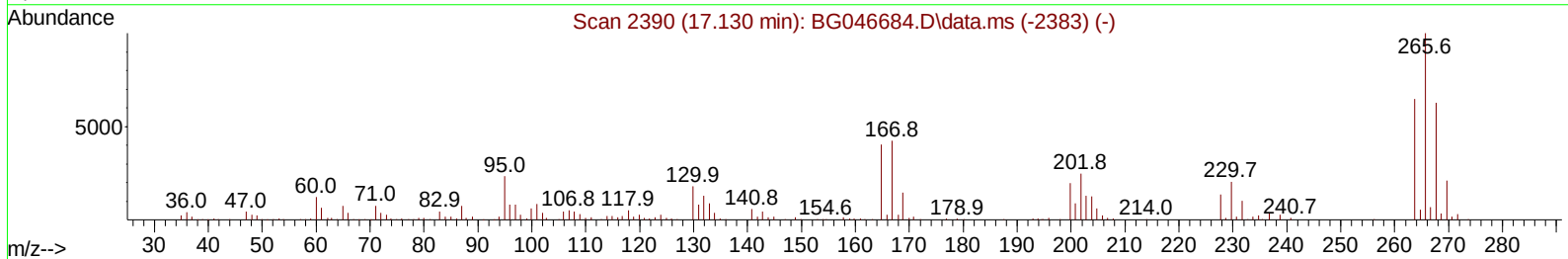
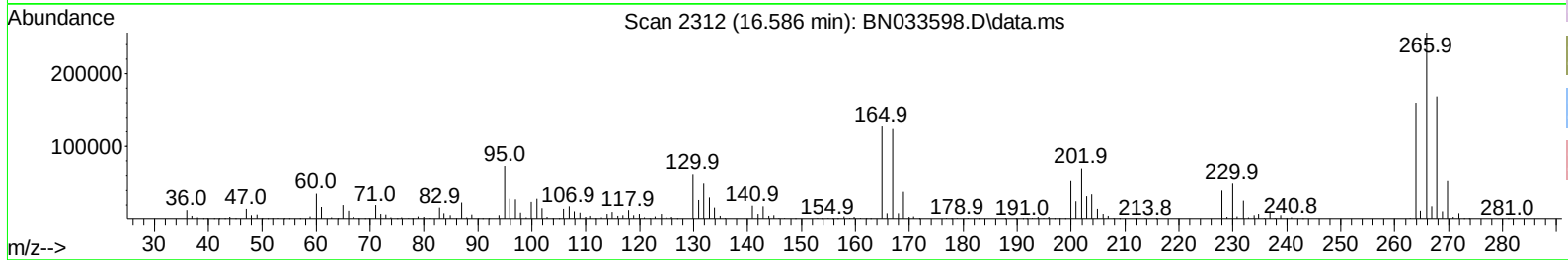
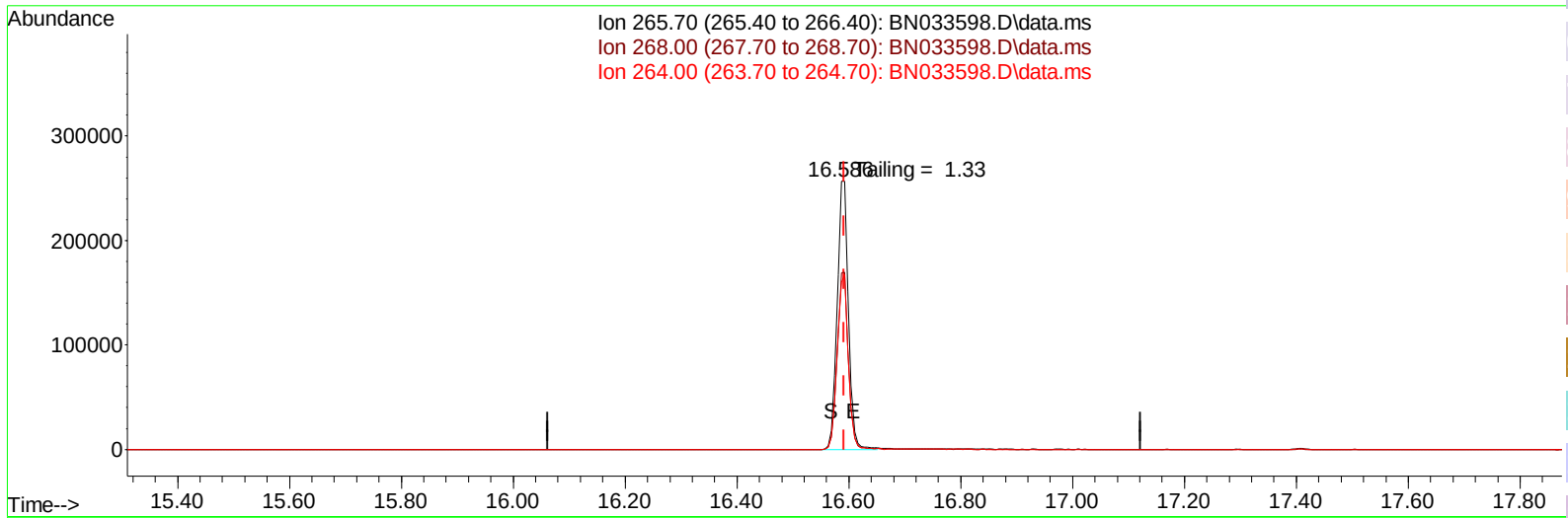
AutoFind: Scans 2451, 2452, 2453; Background Corrected with Scan 2444

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.1	119878	PASS
68	69	0.00	2	1.7	2196	PASS
69	198	0.00	100	37.6	128634	PASS
70	69	0.00	2	0.6	771	PASS
127	198	10	80	47.9	163808	PASS
197	198	0.00	2	0.6	1988	PASS
198	198	100	100	100.0	341952	PASS
199	198	5	9	6.8	23268	PASS
275	198	10	60	27.0	92328	PASS
365	198	1	100	3.8	13090	PASS
441	198	0.01	100	12.3	41963	PASS
442	442	50	100	100.0	273045	PASS
443	442	15	24	18.9	51704	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033598.D
Acq On : 23 Aug 2024 20:51
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 24 06:45:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 24 06:44:36 2024
Response via : Initial Calibration



TIC: BN033598.D\data.ms

(70) Pentachlorophenol (C)

16.586min (-0.006) 229085.58 ng

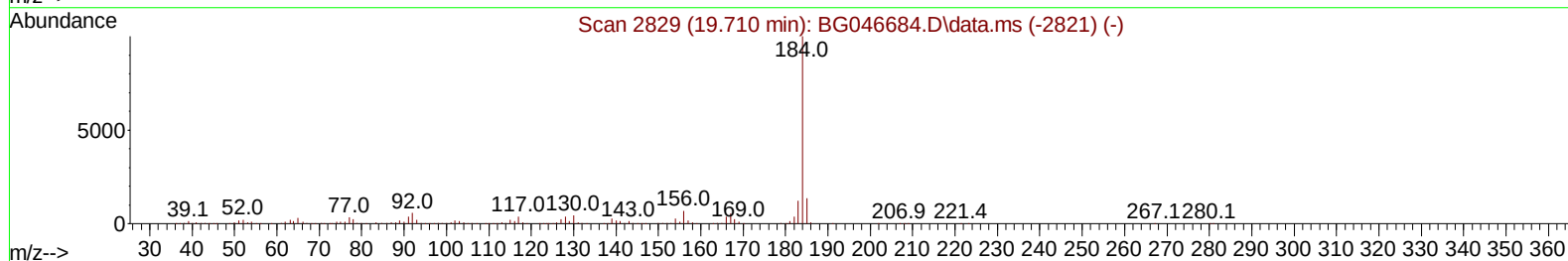
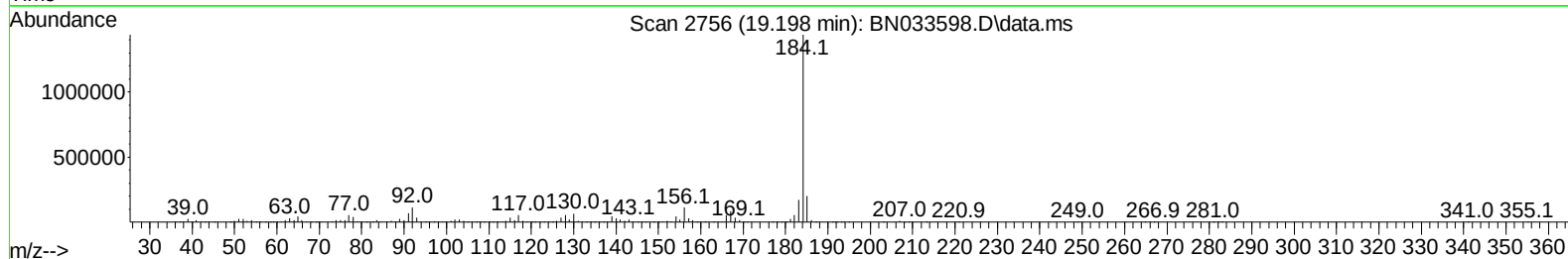
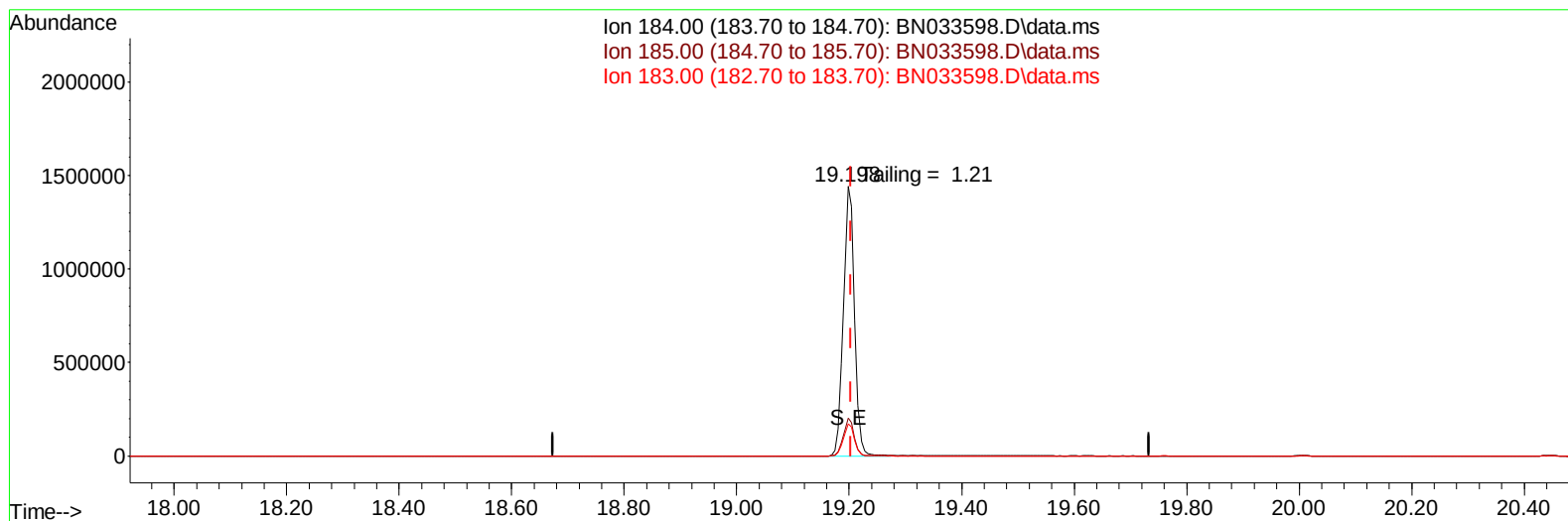
response 361359

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.92
264.00	61.60	62.48
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082324\
Data File : BN033598.D
Acq On : 23 Aug 2024 20:51
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 24 06:45:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 24 06:44:36 2024
Response via : Initial Calibration



TIC: BN033598.D\data.ms

(77) Benzidine**19.198min (-0.006) 14681.39 ng****response 1986736**

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.97
183.00	13.20	11.90
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/23/2024	BNA_N	<u>BN033598.D</u>
Compound Name	Response	Retention Time
DDT	316046	20.445
DDD	482833	20.004
DDE	703	19.492
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
483536	799582	60.47

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162880BL	SDG No.:	P3671
Lab Sample ID:	PB162880BL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033564.D	1	08/21/24 09:38	08/22/24 22:39	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.69	U	0.69	3.30	ug/Kg
91-57-6	2-Methylnaphthalene	0.80	U	0.80	3.30	ug/Kg
208-96-8	Acenaphthylene	0.63	U	0.63	3.30	ug/Kg
83-32-9	Acenaphthene	0.55	U	0.55	3.30	ug/Kg
86-73-7	Fluorene	0.60	U	0.60	3.30	ug/Kg
85-01-8	Phenanthrene	0.63	U	0.63	3.30	ug/Kg
120-12-7	Anthracene	0.79	U	0.79	3.30	ug/Kg
206-44-0	Fluoranthene	0.67	U	0.67	3.30	ug/Kg
129-00-0	Pyrene	0.95	U	0.95	3.30	ug/Kg
56-55-3	Benzo(a)anthracene	0.76	U	0.76	3.30	ug/Kg
218-01-9	Chrysene	0.86	U	0.86	3.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	3.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.98	U	0.98	3.30	ug/Kg
50-32-8	Benzo(a)pyrene	1.70	U	1.70	3.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.30	U	1.30	3.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	3.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1.10	U	1.10	3.30	ug/Kg
123-91-1	1,4-Dioxane	2.20	U	2.20	6.60	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.36		30 (17) - 150 (161)	90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 (23) - 150 (138)	100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		30 (33) - 130 (121)	96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		30 (32) - 130 (121)	100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		30 (21) - 130 (130)	91%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6430	7.545			
1146-65-2	Naphthalene-d8	16100	10.304			
15067-26-2	Acenaphthene-d10	7240	14.178			
1517-22-2	Phenanthrene-d10	13600	16.929			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162880BL	SDG No.:	P3671
Lab Sample ID:	PB162880BL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033564.D	1	08/21/24 09:38	08/22/24 22:39	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	11000	21.139			
1520-96-3	Perylene-d12	12000	23.306			

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\BN082224\
Data File : BN033564.D
Acq On : 22 Aug 2024 22:39
Operator : MA/JU
Sample : PB162880BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162880BL

Quant Time: Aug 23 01:35:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	6432	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	16127	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	7236	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	13552	0.400	ng	0.00
29) Chrysene-d12	21.139	240	11004	0.400	ng	0.00
35) Perylene-d12	23.306	264	11993	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	6230	0.305	ng	0.00
5) Phenol-d6	6.729	99	7324	0.301	ng	0.00
8) Nitrobenzene-d5	8.681	82	5137	0.384	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	8327	0.361	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	979	0.252	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	11783	0.399	ng	0.00
27) Fluoranthene-d10	18.970	212	13025	0.400	ng	0.00
31) Terphenyl-d14	19.584	244	9117	0.365	ng	0.00

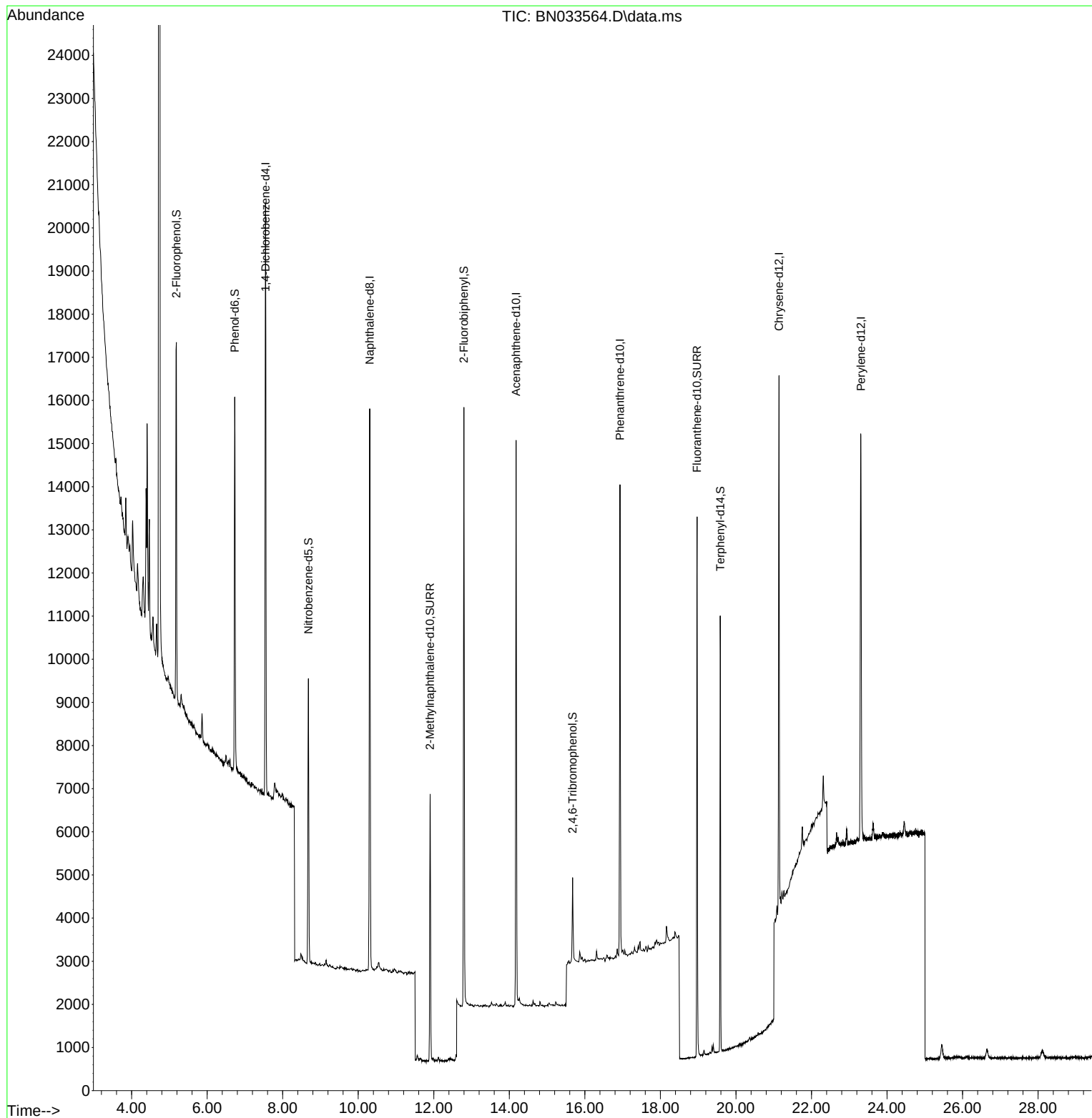
Target Compounds	Qvalue

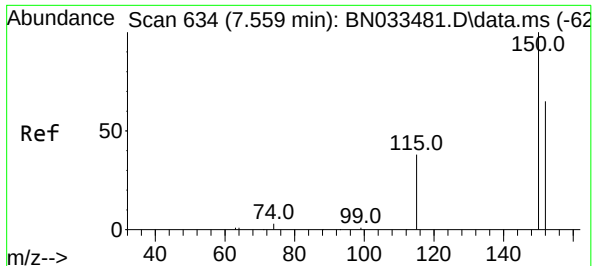
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033564.D
Acq On : 22 Aug 2024 22:39
Operator : MA/JU
Sample : PB162880BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162880BL

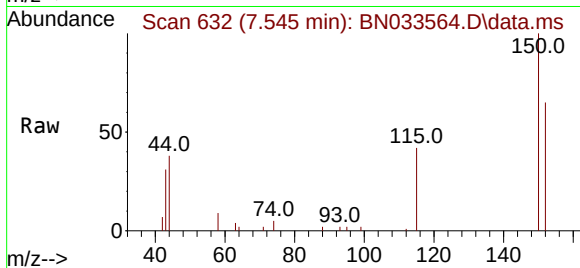
Quant Time: Aug 23 01:35:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration



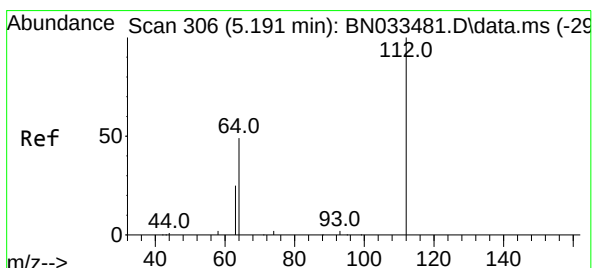
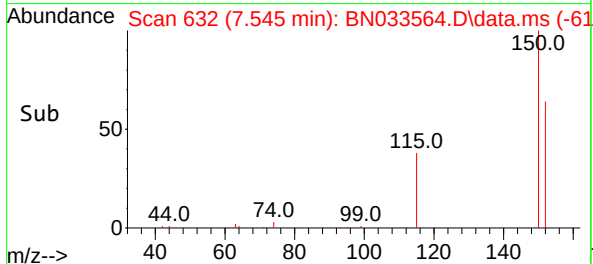
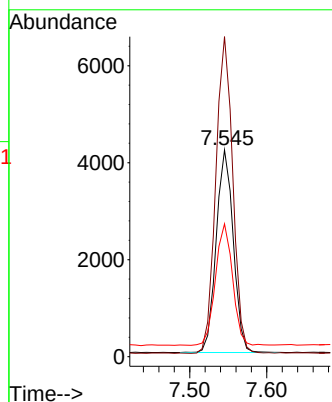


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

Instrument :
BNA_N
ClientSampleId :
PB162880BL

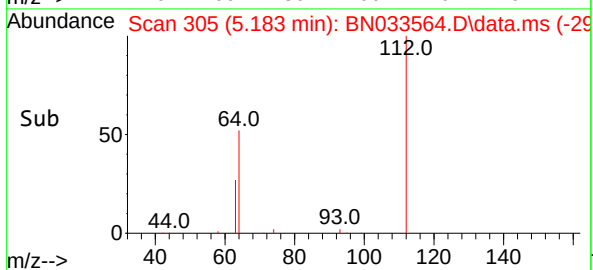
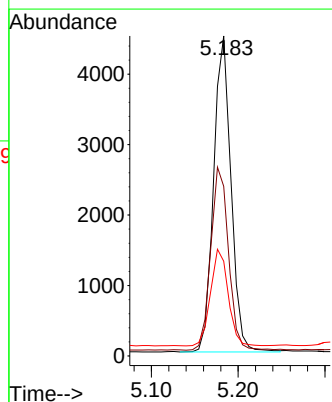
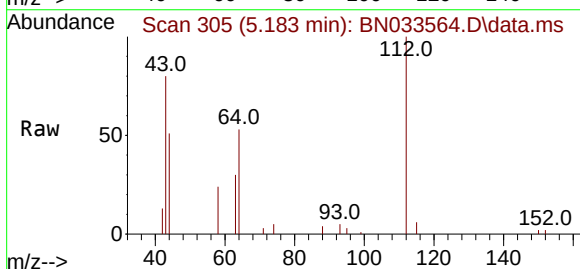


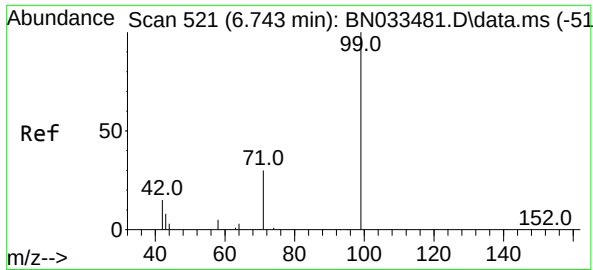
Tgt Ion:152 Resp: 6432
Ion Ratio Lower Upper
152 100
150 154.8 122.2 183.2
115 64.2 47.2 70.8



#4
2-Fluorophenol
Concen: 0.305 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

Tgt Ion:112 Resp: 6230
Ion Ratio Lower Upper
112 100
64 59.1 47.1 70.7
63 31.1 24.9 37.3

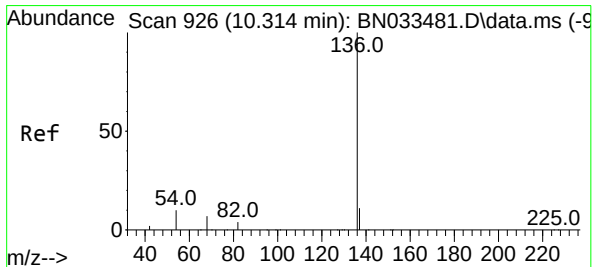
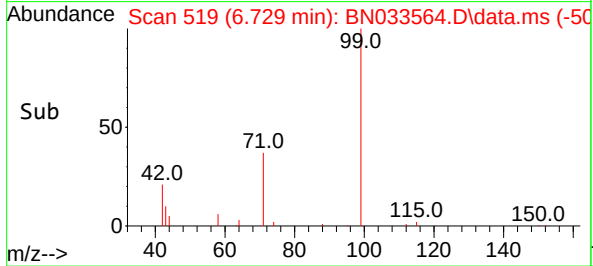
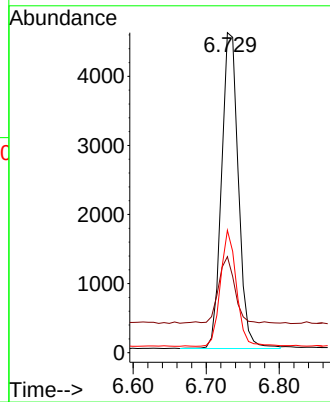
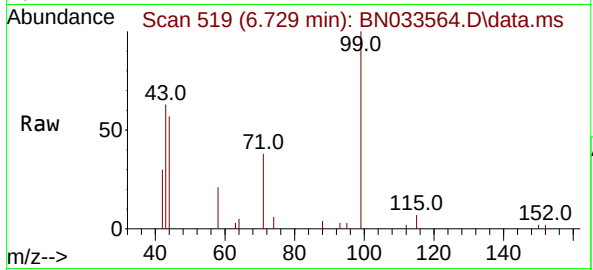




#5
Phenol-d6
Concen: 0.301 ng
RT: 6.729 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

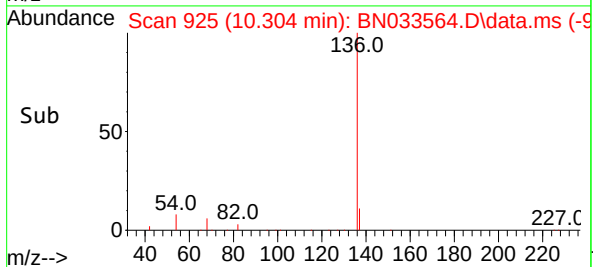
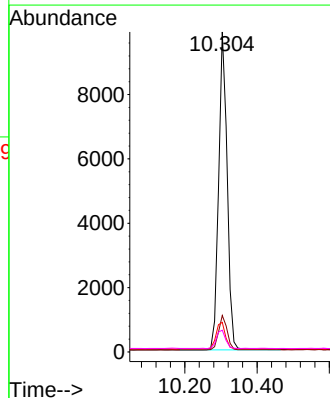
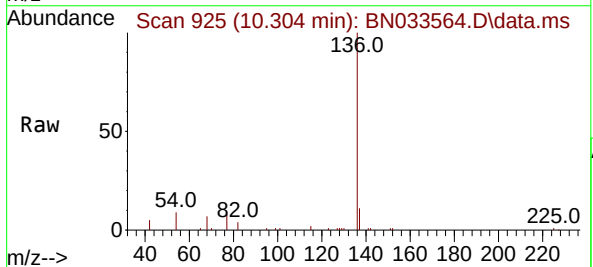
Instrument :
BNA_N
ClientSampleId :
PB162880BL

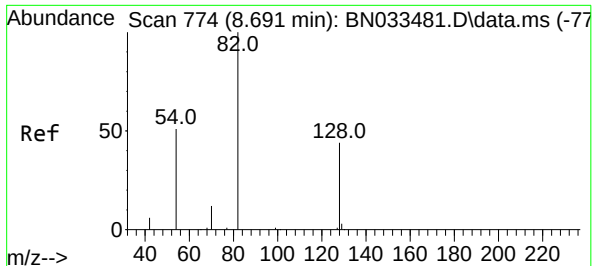
Tgt Ion: 99 Resp: 7324
Ion Ratio Lower Upper
99 100
42 20.3 16.6 24.8
71 34.8 26.2 39.4



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 925
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

Tgt Ion: 136 Resp: 16127
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 9.2 8.3 12.5
68 6.8 5.9 8.9

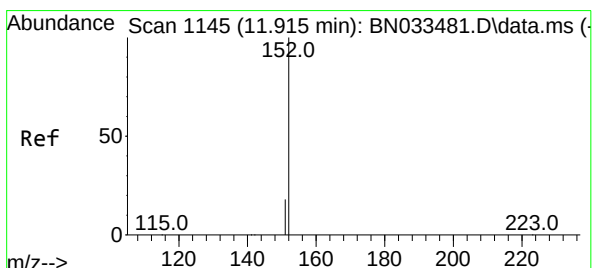
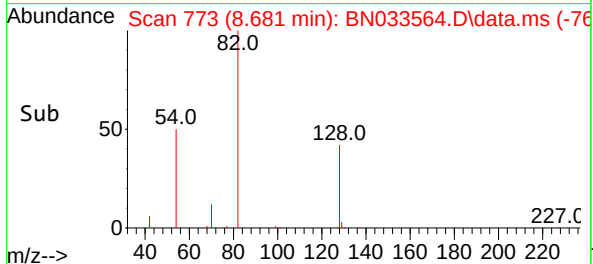
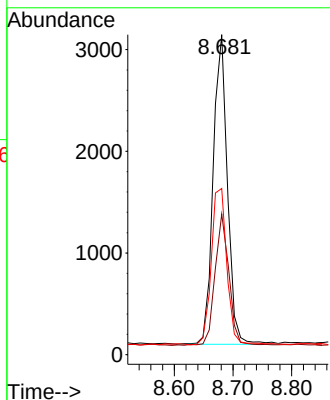
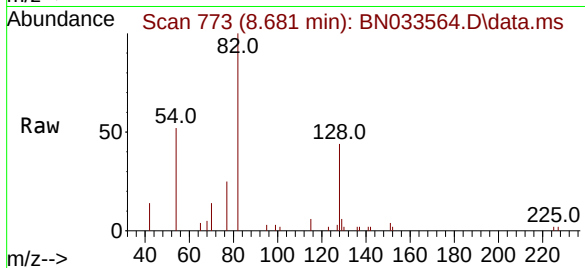




#8
Nitrobenzene-d5
Concen: 0.384 ng
RT: 8.681 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

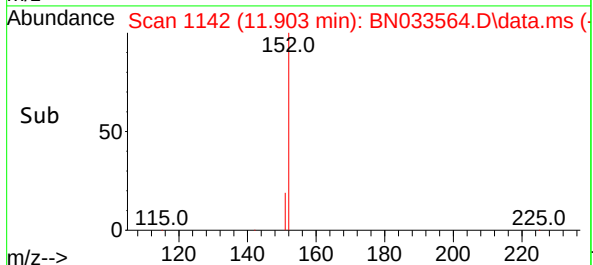
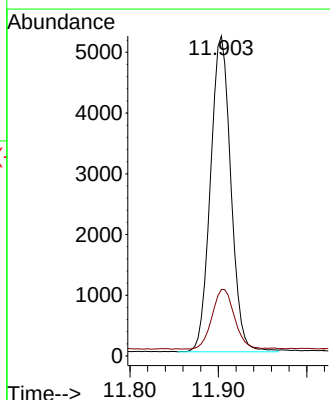
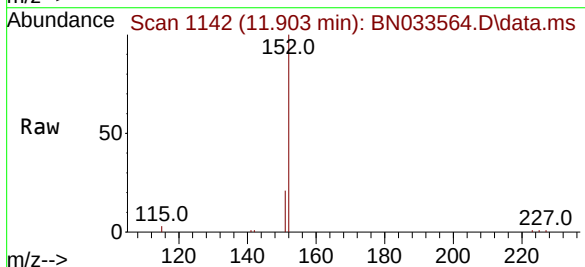
Instrument :
BNA_N
ClientSampleId :
PB162880BL

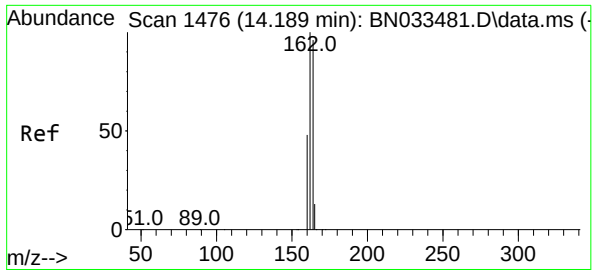
Tgt Ion: 82 Resp: 5137
Ion Ratio Lower Upper
82 100
128 43.9 36.0 54.0
54 52.0 42.0 63.0



#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 11.903 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

Tgt Ion: 152 Resp: 8327
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0

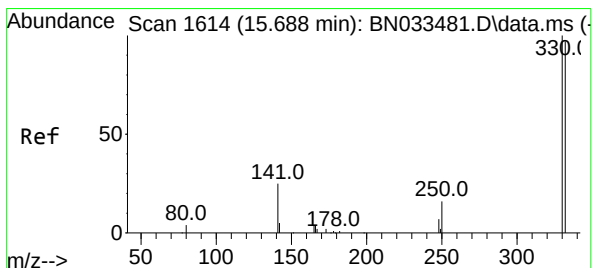
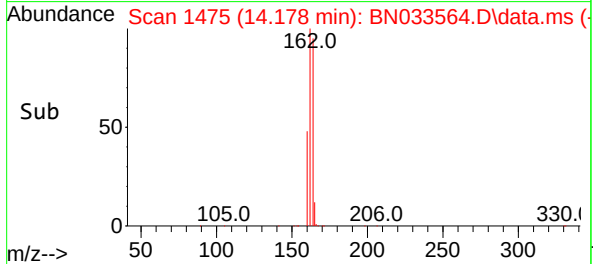
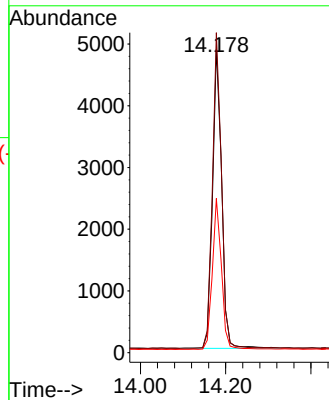
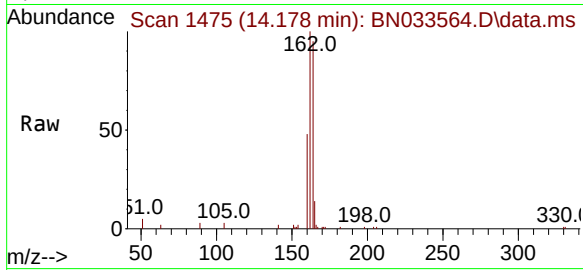




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

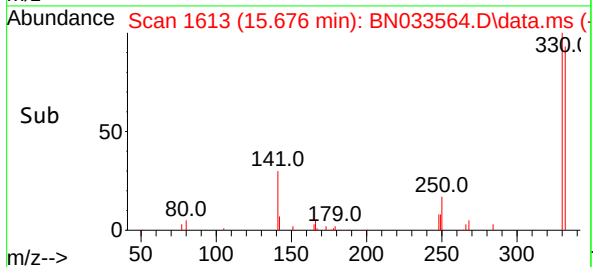
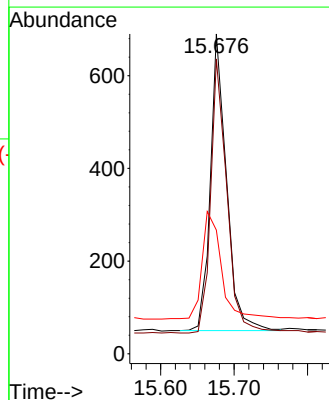
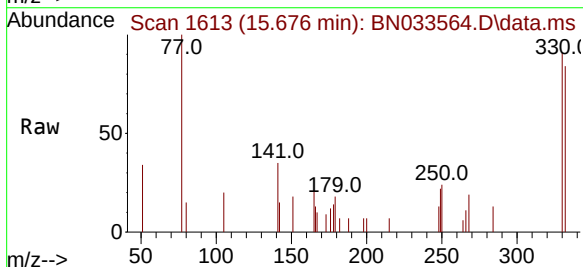
Instrument :
BNA_N
ClientSampleId :
PB162880BL

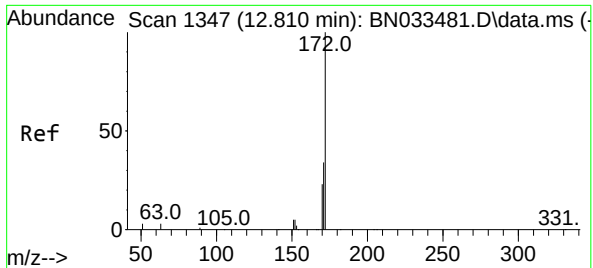
Tgt Ion:164 Resp: 7236
Ion Ratio Lower Upper
164 100
162 105.4 83.5 125.3
160 50.8 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.252 ng
RT: 15.676 min Scan# 1613
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

Tgt Ion:330 Resp: 979
Ion Ratio Lower Upper
330 100
332 92.3 77.5 116.3
141 43.4 33.9 50.9

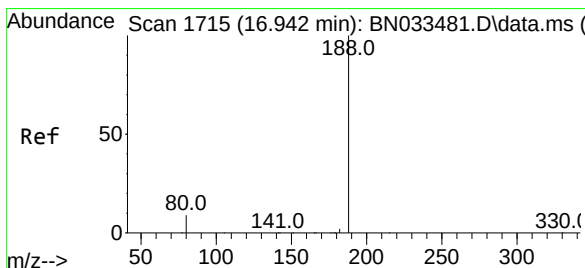
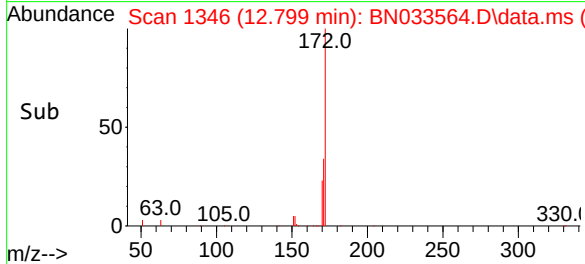
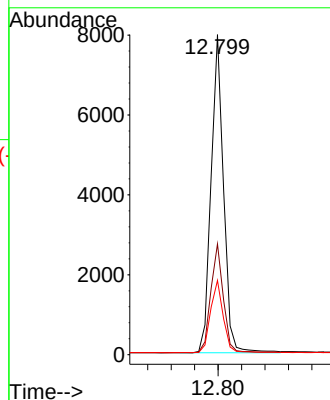
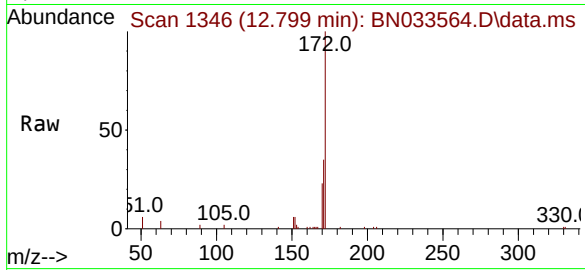




#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.799 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

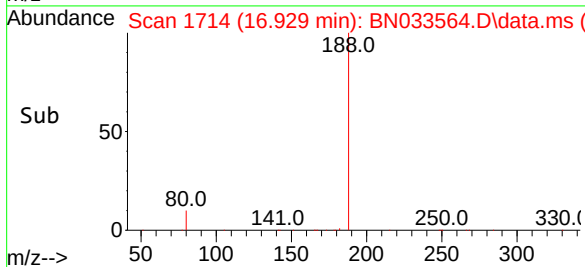
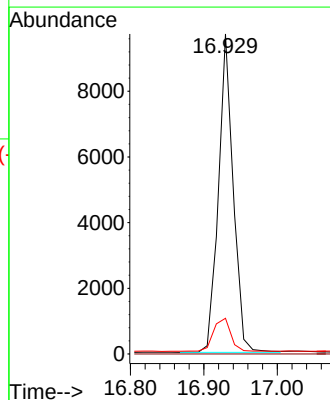
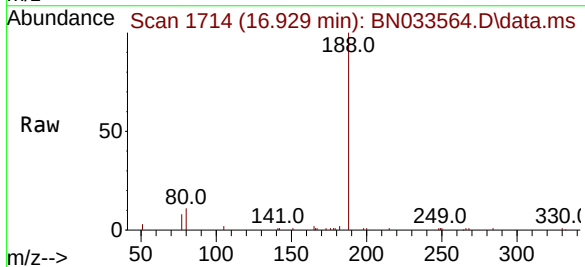
Instrument :
BNA_N
ClientSampleId :
PB162880BL

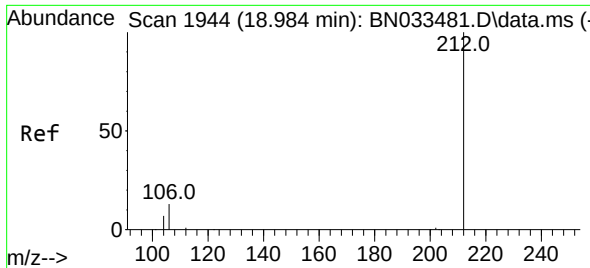
Tgt Ion:172	Resp:	11783
Ion Ratio	Lower	Upper
172	100	
171	34.6	27.7 41.5
170	23.2	18.3 27.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

Tgt Ion:188	Resp:	13552
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0 0.0
80	11.2	7.8 11.8

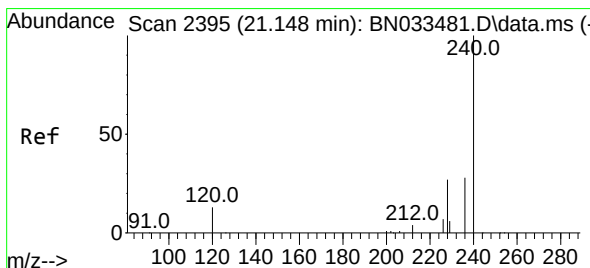
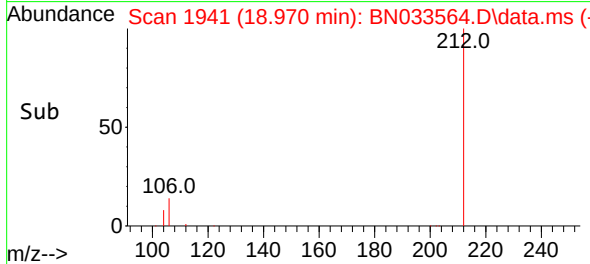
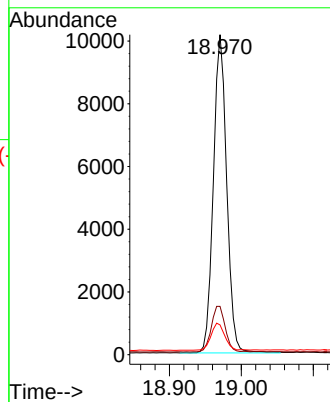
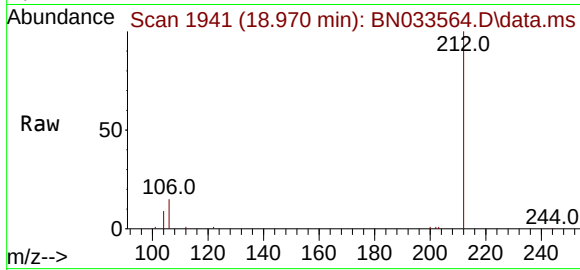




#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 18.970 min Scan# 1944
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

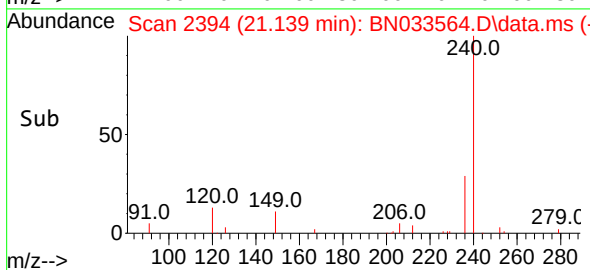
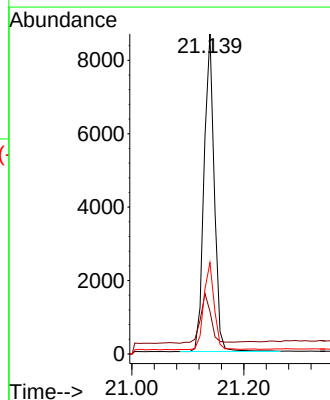
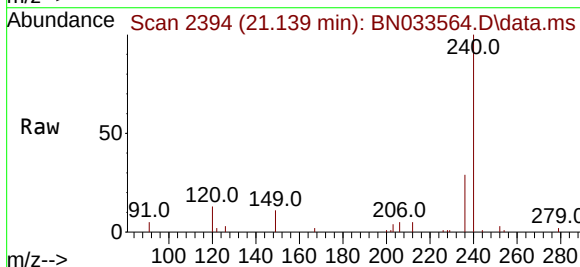
Instrument :
BNA_N
ClientSampleId :
PB162880BL

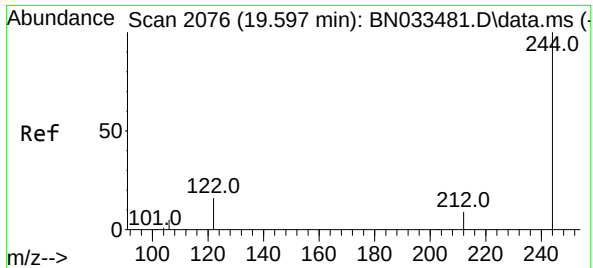
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.9	12.3	18.5
104	9.0	7.0	10.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 2394
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.3	12.4	18.6
236	28.5	23.0	34.6

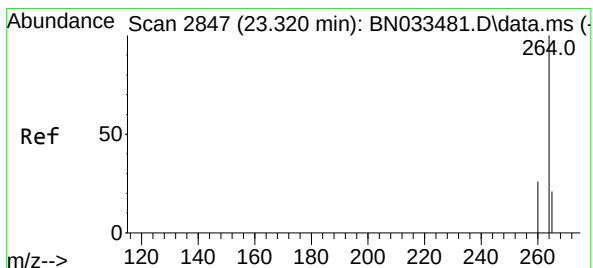
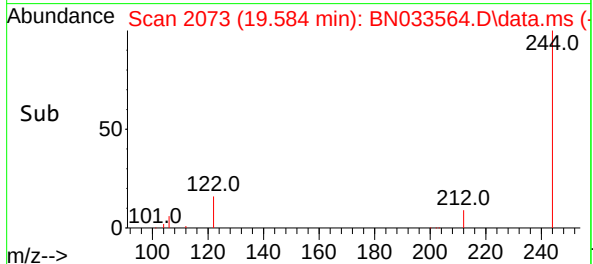
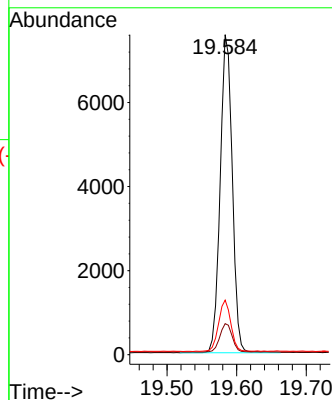
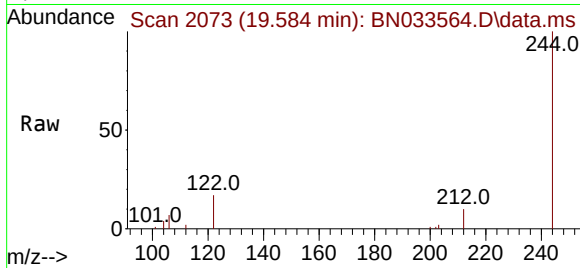




#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.584 min Scan# 2073
Delta R.T. 0.000 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

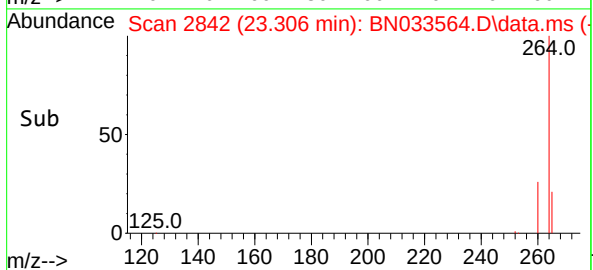
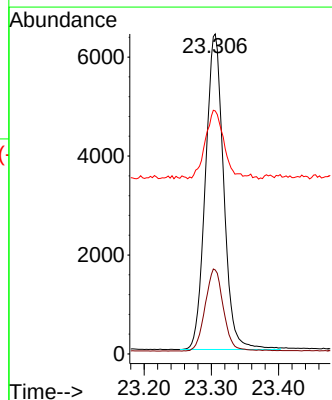
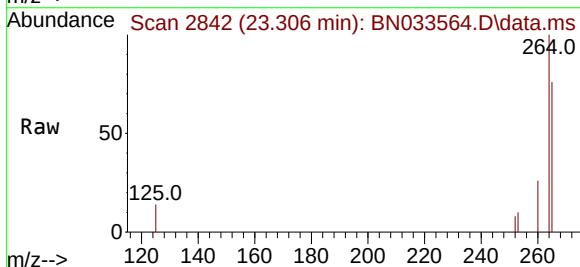
Instrument :
BNA_N
ClientSampleId :
PB162880BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.8	11.6
122	17.0	13.3	19.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.306 min Scan# 2842
Delta R.T. 0.003 min
Lab File: BN033564.D
Acq: 22 Aug 2024 22:39

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.3	20.8	31.2
265	75.9	52.2	78.2



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162880BS	SDG No.:	P3671
Lab Sample ID:	PB162880BS	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033565.D	1	08/21/24 09:38	08/22/24 23:16	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	12.0		0.69	3.30	ug/Kg
91-57-6	2-Methylnaphthalene	11.5		0.80	3.30	ug/Kg
208-96-8	Acenaphthylene	12.2		0.63	3.30	ug/Kg
83-32-9	Acenaphthene	11.8		0.55	3.30	ug/Kg
86-73-7	Fluorene	11.0		0.60	3.30	ug/Kg
85-01-8	Phenanthrene	12.5		0.63	3.30	ug/Kg
120-12-7	Anthracene	12.4		0.79	3.30	ug/Kg
206-44-0	Fluoranthene	11.9		0.67	3.30	ug/Kg
129-00-0	Pyrene	10.7		0.95	3.30	ug/Kg
56-55-3	Benzo(a)anthracene	12.1		0.76	3.30	ug/Kg
218-01-9	Chrysene	12.7		0.86	3.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	11.8		1.20	3.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	12.0		0.98	3.30	ug/Kg
50-32-8	Benzo(a)pyrene	13.1		1.70	3.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	13.0		1.30	3.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	12.8		1.20	3.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	12.1		1.10	3.30	ug/Kg
123-91-1	1,4-Dioxane	9.90		2.20	6.60	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.37		30 (17) - 150 (161)	93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 (23) - 150 (138)	89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		30 (33) - 130 (121)	90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		30 (32) - 130 (121)	97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		30 (21) - 130 (130)	80%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7160	7.545			
1146-65-2	Naphthalene-d8	18000	10.304			
15067-26-2	Acenaphthene-d10	7780	14.178			
1517-22-2	Phenanthrene-d10	14000	16.929			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162880BS	SDG No.:	P3671
Lab Sample ID:	PB162880BS	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033565.D	1	08/21/24 09:38	08/22/24 23:16	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	11300	21.139			
1520-96-3	Perylene-d12	12300	23.306			

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\BN082224\
Data File : BN033565.D
Acq On : 22 Aug 2024 23:16
Operator : MA/JU
Sample : PB162880BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162880BS

Quant Time: Aug 23 01:35:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	7155	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	18004	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	7779	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	14031	0.400	ng	0.00
29) Chrysene-d12	21.139	240	11303	0.400	ng	0.00
35) Perylene-d12	23.306	264	12304	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	6507	0.286	ng	0.00
5) Phenol-d6	6.729	99	7506	0.277	ng	0.00
8) Nitrobenzene-d5	8.681	82	5348	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	9553	0.371	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	994	0.238	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	12251	0.386	ng	0.00
27) Fluoranthene-d10	18.970	212	11978	0.355	ng	0.00
31) Terphenyl-d14	19.583	244	8223	0.320	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.183	88	2449	0.297	ng	Qvalue # 33
3) n-Nitrosodimethylamine	3.472	42	3380	0.353	ng	96
6) bis(2-Chloroethyl)ether	6.982	93	7270	0.379	ng	99
9) Naphthalene	10.357	128	17274	0.359	ng	100
10) Hexachlorobutadiene	10.656	225	3481	0.363	ng	# 99
12) 2-Methylnaphthalene	11.975	142	10529	0.346	ng	99
16) Acenaphthylene	13.889	152	12488	0.366	ng	100
17) Acenaphthene	14.242	154	8510	0.355	ng	98
18) Fluorene	15.236	166	9948	0.329	ng	99
20) 4,6-Dinitro-2-methylph...	15.322	198	441	0.201	ng	92
21) 4-Bromophenyl-phenylether	16.135	248	3018	0.354	ng	# 94
22) Hexachlorobenzene	16.247	284	3380	0.359	ng	97
23) Atrazine	16.408	200	2329	0.342	ng	96
24) Pentachlorophenol	16.582	266	2405	0.590	ng	98
25) Phenanthrene	16.967	178	14592	0.374	ng	100
26) Anthracene	17.066	178	12872	0.373	ng	100
28) Fluoranthene	19.003	202	15390	0.357	ng	99
30) Pyrene	19.365	202	16143	0.320	ng	100
32) Benzo(a)anthracene	21.121	228	14824	0.363	ng	99
33) Chrysene	21.175	228	15485	0.381	ng	99
34) Bis(2-ethylhexyl)phtha...	21.086	149	7460m	0.288	ng	
36) Indeno(1,2,3-cd)pyrene	25.455	276	19993	0.391	ng	99
37) Benzo(b)fluoranthene	22.663	252	16288	0.354	ng	99
38) Benzo(k)fluoranthene	22.706	252	16223	0.359	ng	97
39) Benzo(a)pyrene	23.212	252	14972	0.394	ng	99
40) Dibenzo(a,h)anthracene	25.475	278	15651	0.383	ng	97
41) Benzo(g,h,i)perylene	26.104	276	15878	0.364	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
 Data File : BN033565.D
 Acq On : 22 Aug 2024 23:16
 Operator : MA/JU
 Sample : PB162880BS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB162880BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024

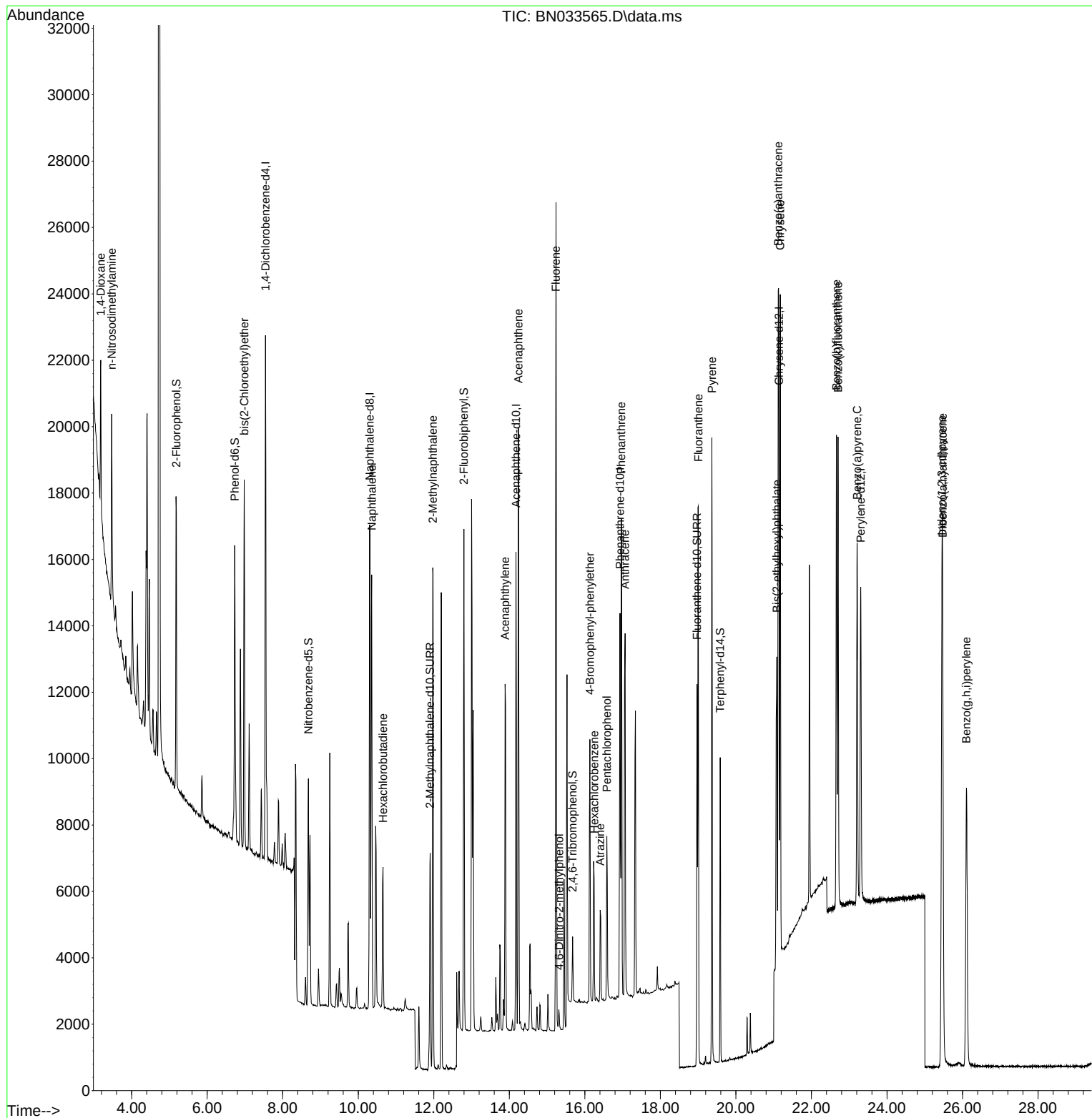
Quant Time: Aug 23 01:35:34 2024

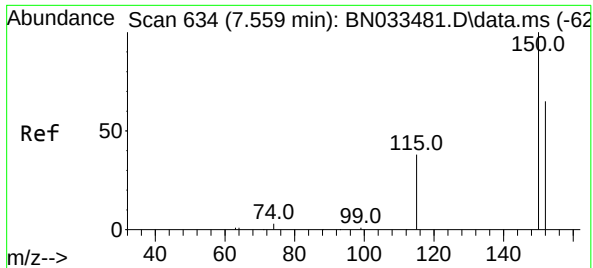
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 23 00:22:18 2024

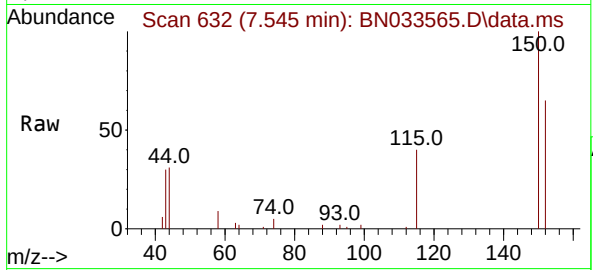
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

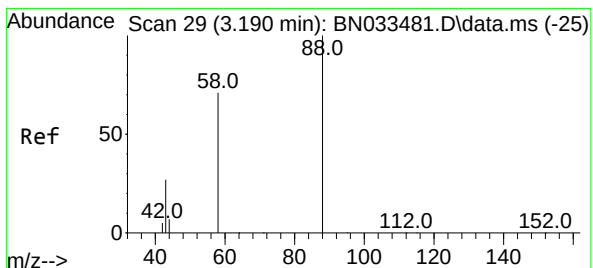
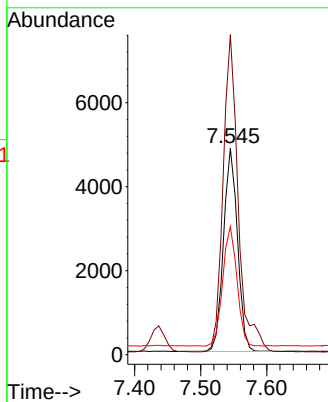
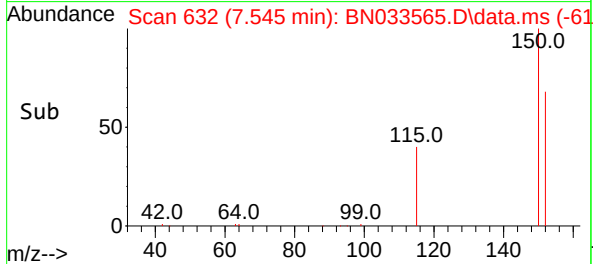
Instrument :
BNA_N
ClientSampleId :
PB162880BS



Tgt Ion: 152 Resp: 715
Ion Ratio Lower Upper
152 100
150 155.0 122.2 183.2
115 62.1 47.2 70.8

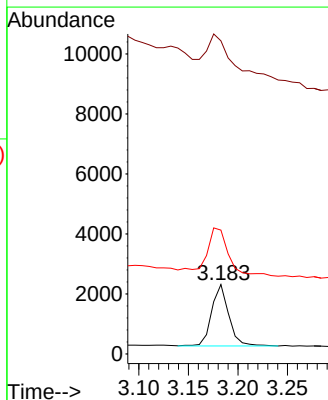
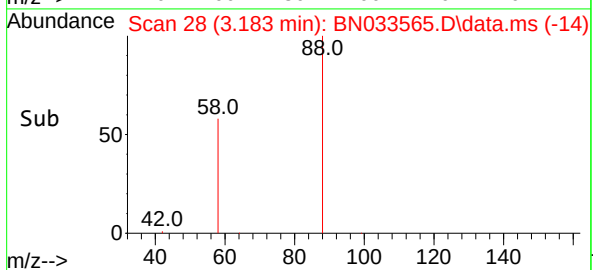
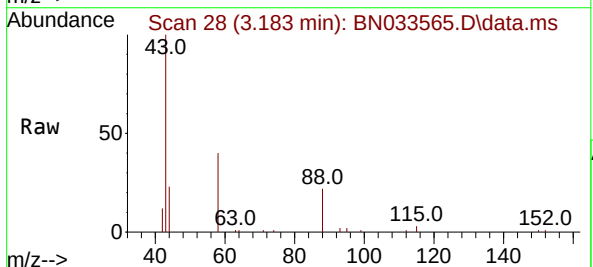
Manual Integrations
APPROVED

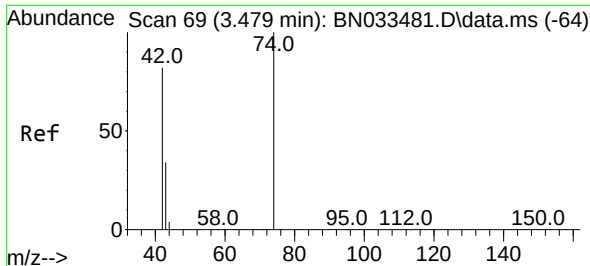
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#2
1,4-Dioxane
Concen: 0.297 ng
RT: 3.183 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

Tgt Ion: 88 Resp: 2449
Ion Ratio Lower Upper
88 100
43 123.8 25.0 37.4#
58 100.9 62.5 93.7#





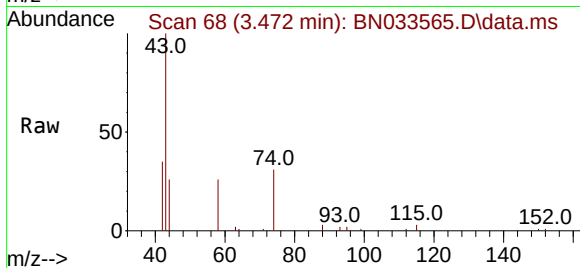
#3
n-Nitrosodimethylamine
Concen: 0.353 ng
RT: 3.472 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

Instrument :

BNA_N

ClientSampleId :

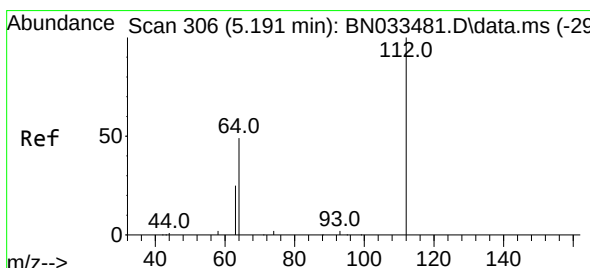
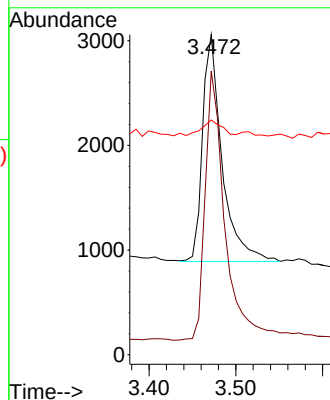
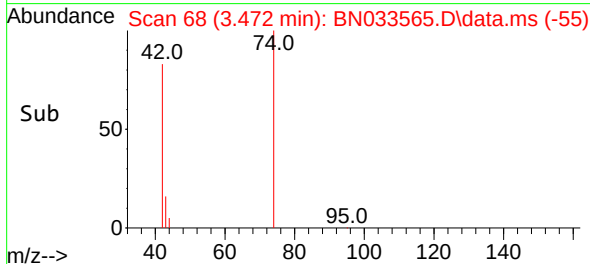
PB162880BS



Tgt Ion: 42 Resp: 3380
Ion Ratio Lower Upper
42 100
74 120.7 100.2 150.2
44 7.4 5.3 7.9

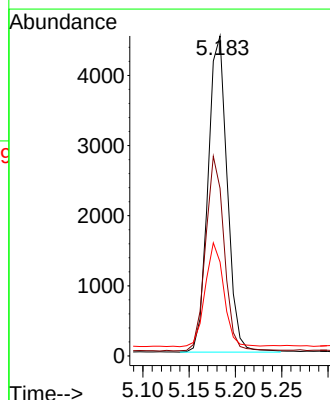
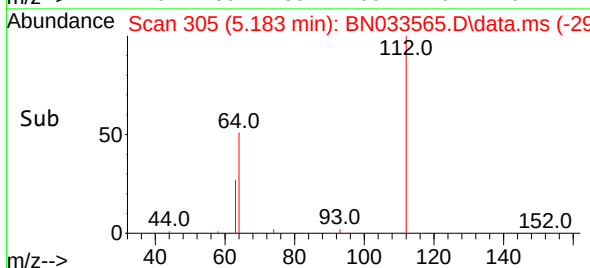
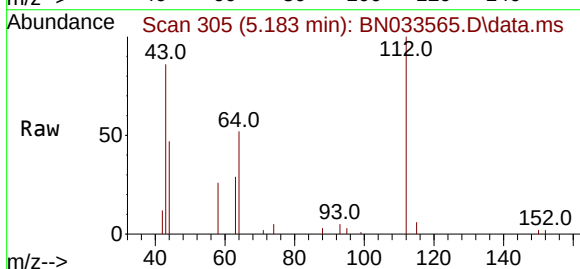
Manual Integrations
APPROVED

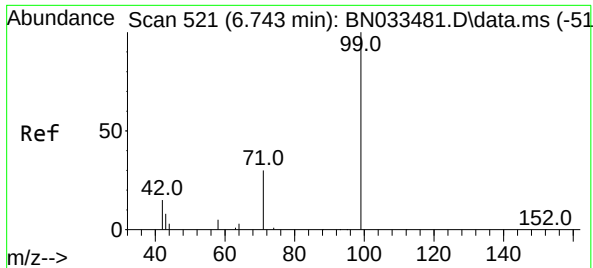
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.286 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

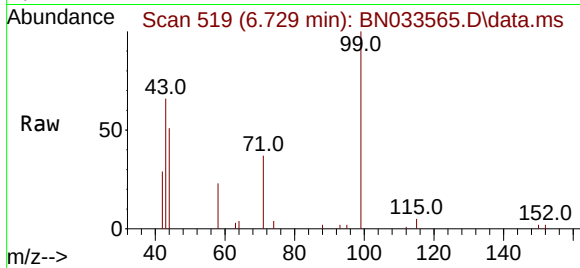
Tgt Ion:112 Resp: 6507
Ion Ratio Lower Upper
112 100
64 59.7 47.1 70.7
63 31.6 24.9 37.3





#5
Phenol-d6
Concen: 0.277 ng
RT: 6.729 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

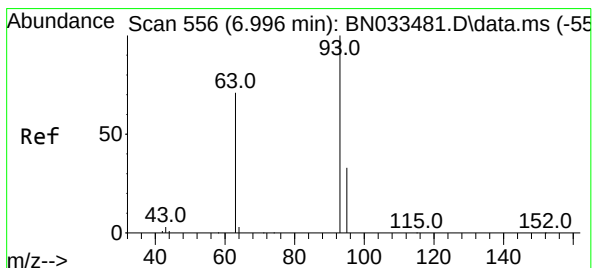
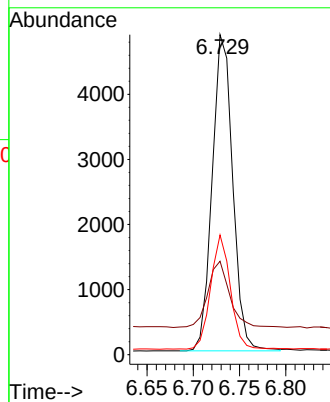
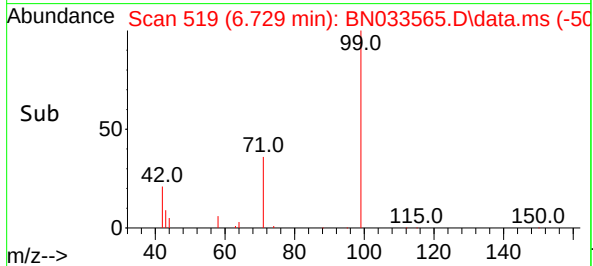
Instrument :
BNA_N
ClientSampleId :
PB162880BS



Tgt Ion: 99 Resp: 7500
Ion Ratio Lower Upper
99 100
42 22.3 16.6 24.8
71 34.7 26.2 39.4

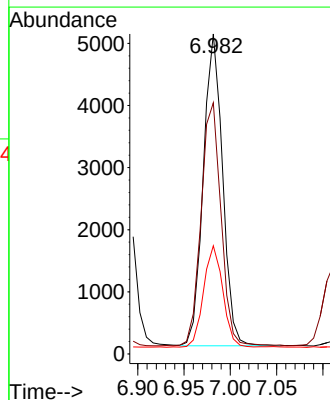
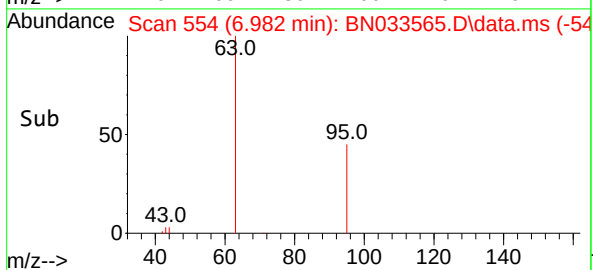
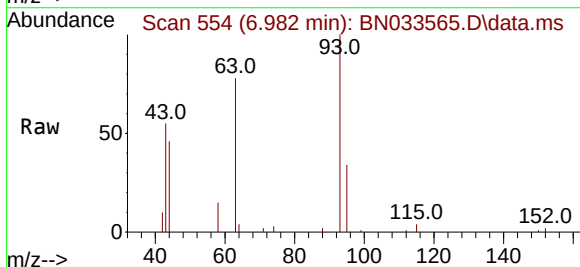
Manual Integrations
APPROVED

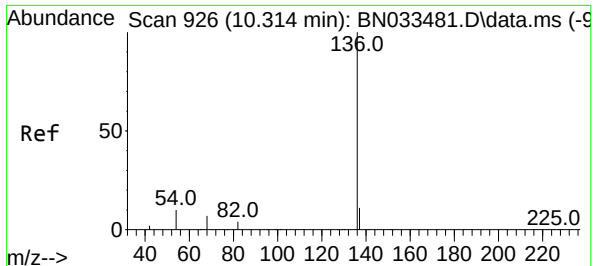
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.982 min Scan# 554
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

Tgt Ion: 93 Resp: 7270
Ion Ratio Lower Upper
93 100
63 80.1 63.0 94.4
95 32.4 26.0 39.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

Instrument :

BNA_N

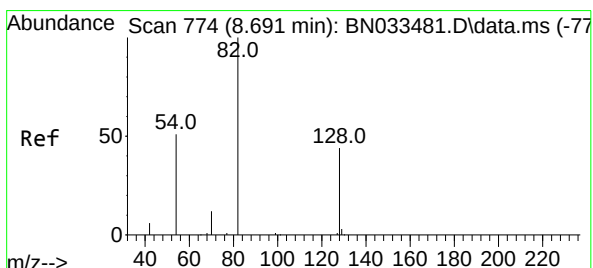
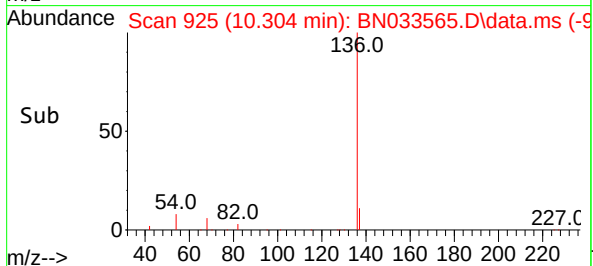
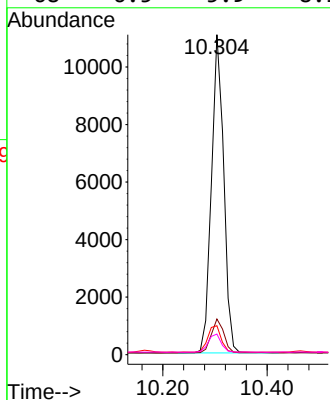
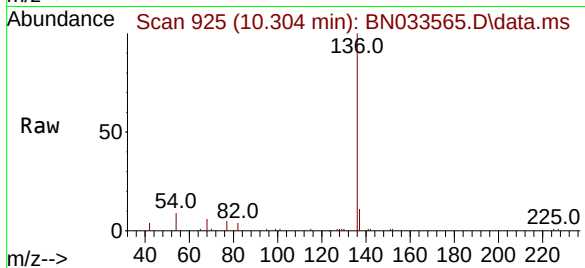
ClientSampleId :

PB162880BS

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.6
54	9.0	8.3	12.5
68	6.5	5.9	8.9

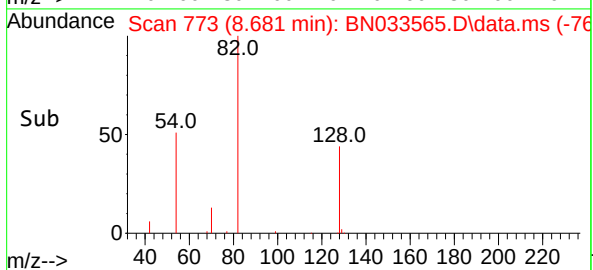
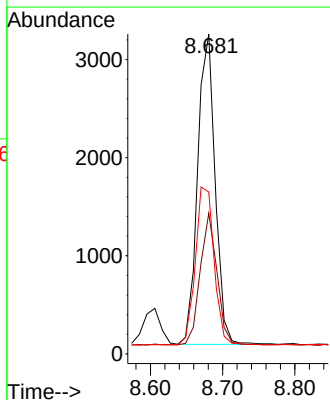
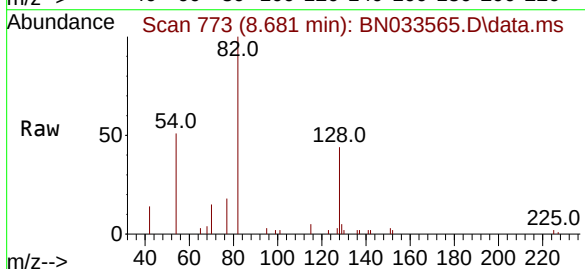
Manual Integrations
APPROVED

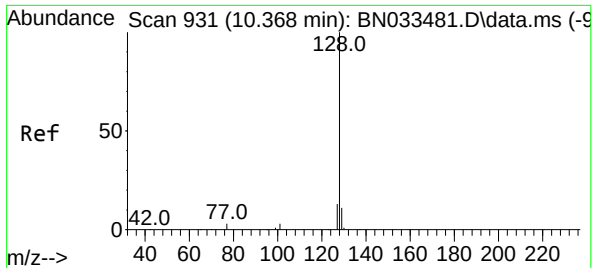
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.681 min Scan# 773
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

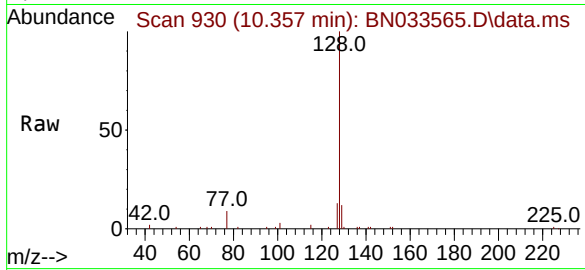
Tgt Ion	Ratio	Lower	Upper
82	100		
128	44.0	36.0	54.0
54	50.6	42.0	63.0





#9
Naphthalene
Concen: 0.359 ng
RT: 10.357 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

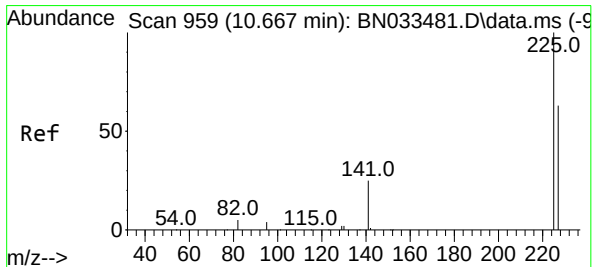
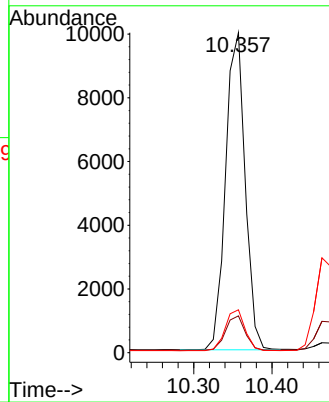
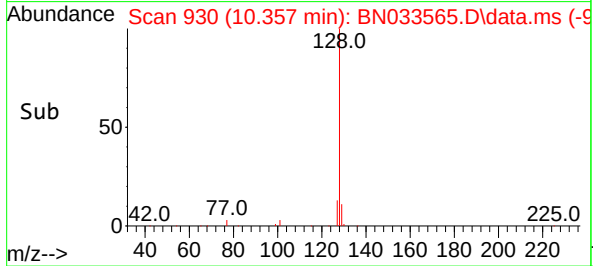
Instrument :
BNA_N
ClientSampleId :
PB162880BS



Tgt Ion:128 Resp: 17274
Ion Ratio Lower Upper
128 100
129 11.5 9.1 13.7
127 13.4 10.7 16.1

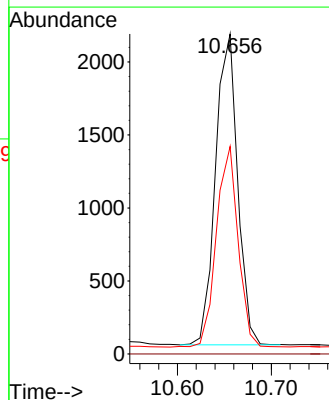
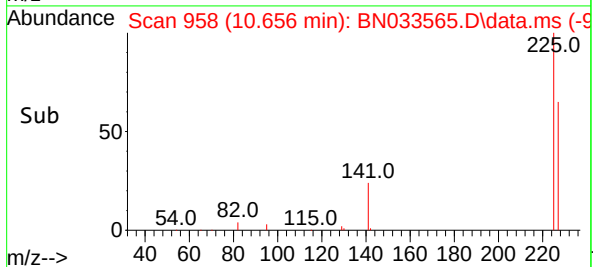
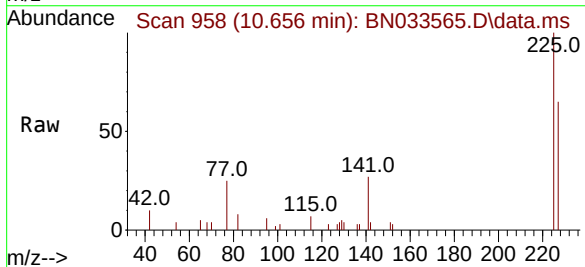
Manual Integrations
APPROVED

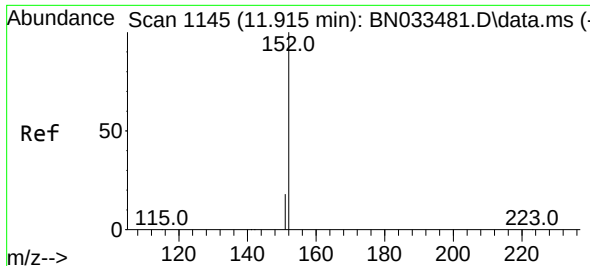
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#10
Hexachlorobutadiene
Concen: 0.363 ng
RT: 10.656 min Scan# 958
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

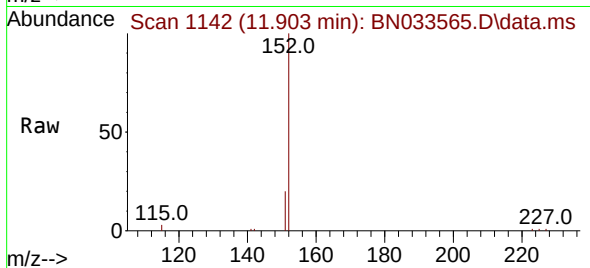
Tgt Ion:225 Resp: 3481
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.2 76.8





#11
2-Methylnaphthalene-d10
Concen: 0.371 ng
RT: 11.903 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

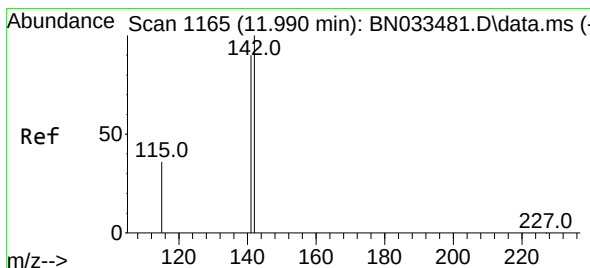
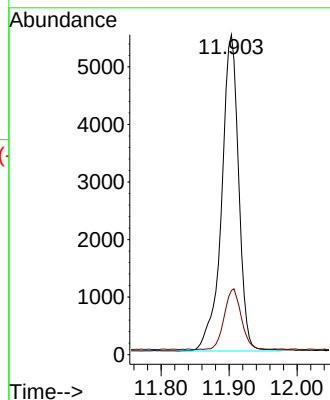
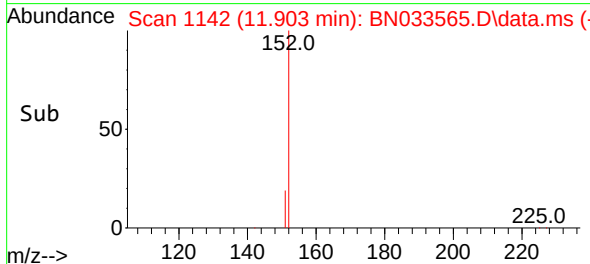
Instrument :
BNA_N
ClientSampleId :
PB162880BS



Tgt Ion:152 Resp: 955
Ion Ratio Lower Upper
152 100
151 19.1 16.6 25.0

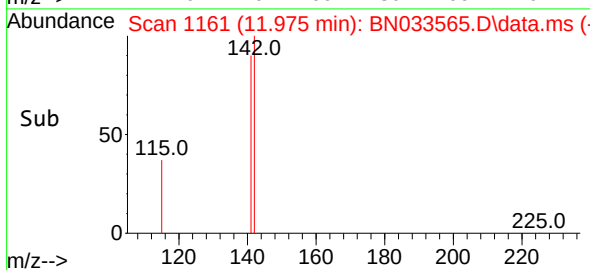
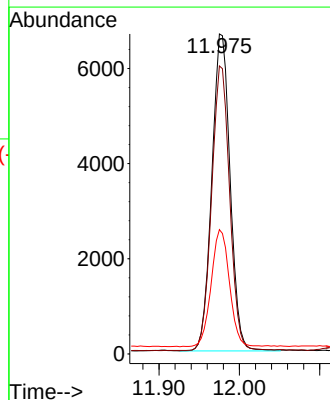
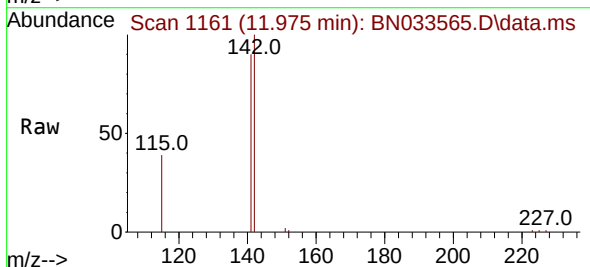
Manual Integrations
APPROVED

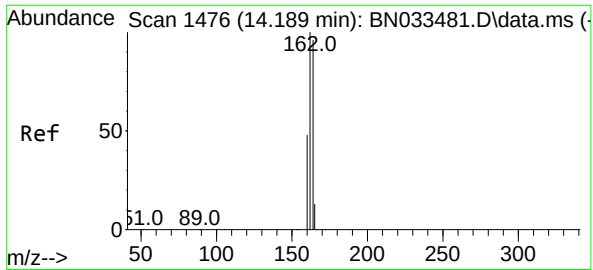
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#12
2-Methylnaphthalene
Concen: 0.346 ng
RT: 11.975 min Scan# 1161
Delta R.T. -0.004 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

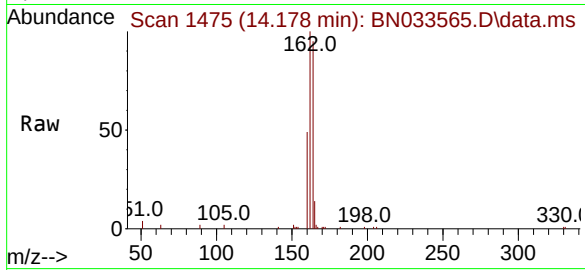
Tgt Ion:142 Resp: 10529
Ion Ratio Lower Upper
142 100
141 90.0 71.7 107.5
115 38.9 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1475
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

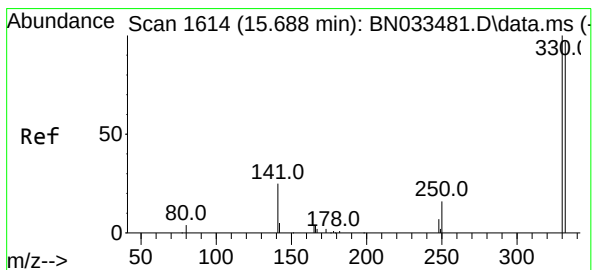
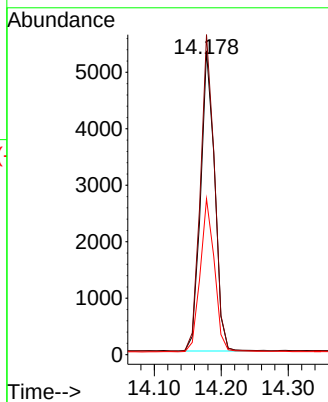
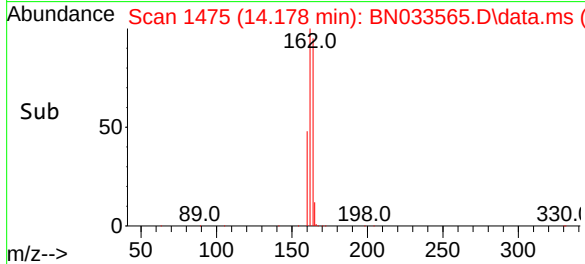
Instrument :
BNA_N
ClientSampleId :
PB162880BS



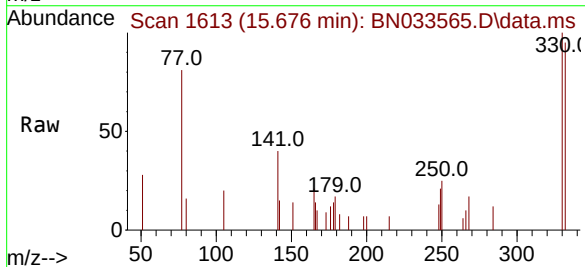
Tgt Ion:164 Resp: 7779
Ion Ratio Lower Upper
164 100
162 105.3 83.5 125.3
160 51.3 40.2 60.4

Manual Integrations
APPROVED

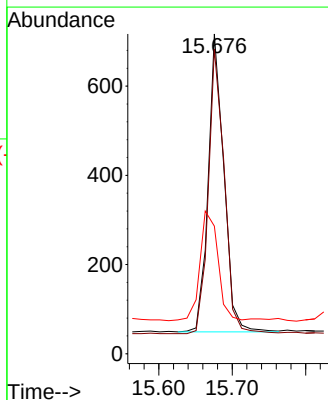
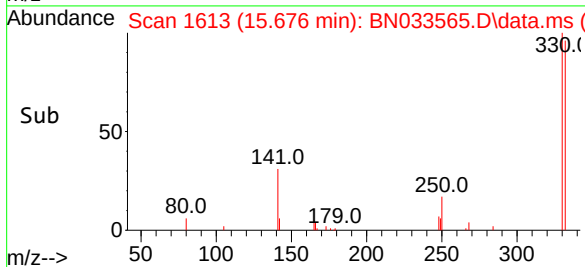
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

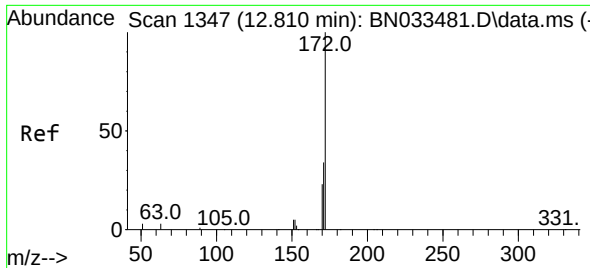


#14
2,4,6-Tribromophenol
Concen: 0.238 ng
RT: 15.676 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16



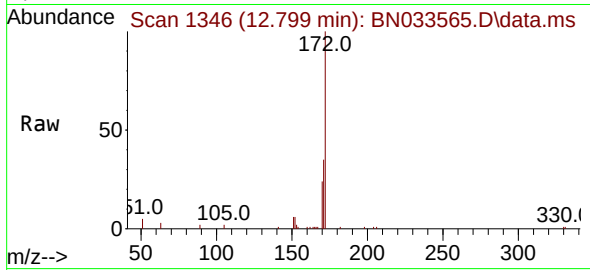
Tgt Ion:330 Resp: 994
Ion Ratio Lower Upper
330 100
332 96.8 77.5 116.3
141 42.3 33.9 50.9





#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.799 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

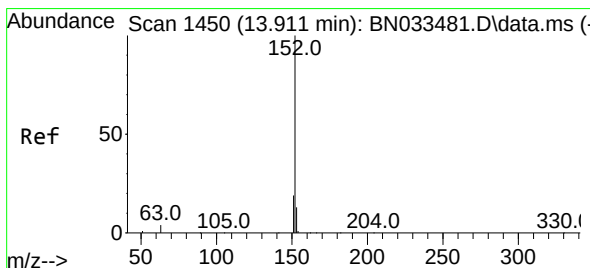
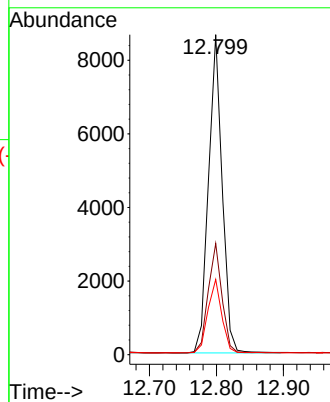
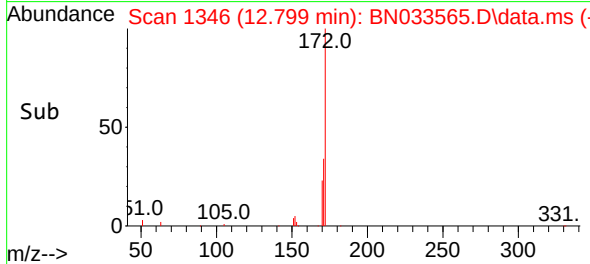
Instrument :
BNA_N
ClientSampleId :
PB162880BS



Tgt Ion:172 Resp: 1225
Ion Ratio Lower Upper
172 100
171 34.8 27.7 41.5
170 23.5 18.3 27.5

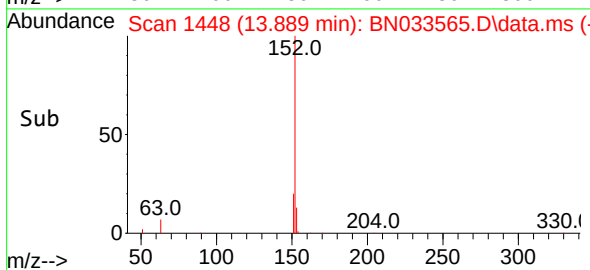
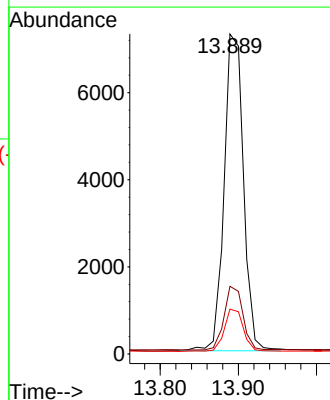
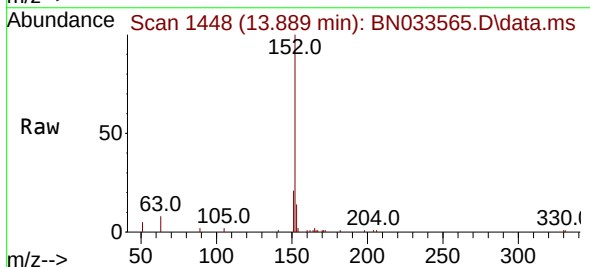
Manual Integrations
APPROVED

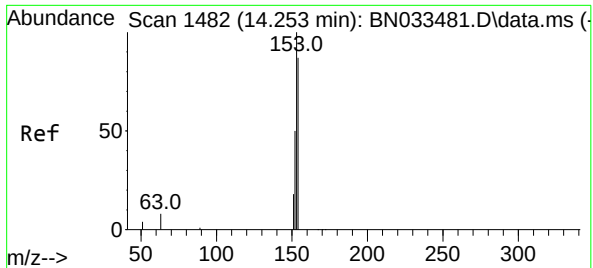
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#16
Acenaphthylene
Concen: 0.366 ng
RT: 13.889 min Scan# 1448
Delta R.T. -0.011 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

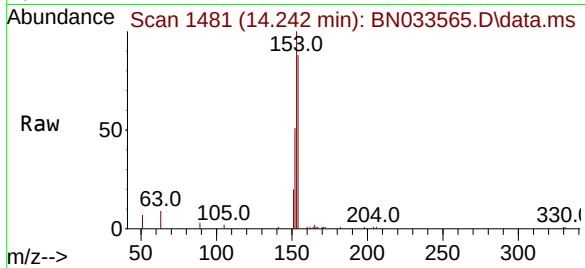
Tgt Ion:152 Resp: 12488
Ion Ratio Lower Upper
152 100
151 19.4 15.7 23.5
153 13.2 10.3 15.5





#17
Acenaphthene
Concen: 0.355 ng
RT: 14.242 min Scan# 1481
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

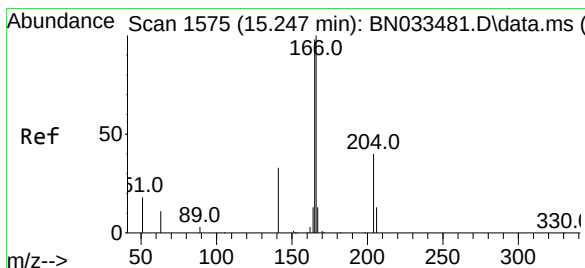
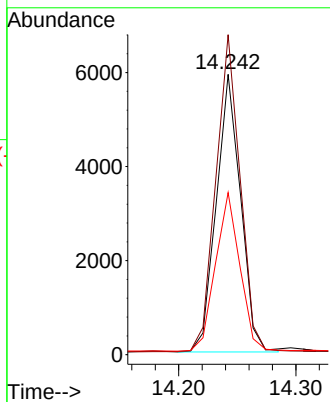
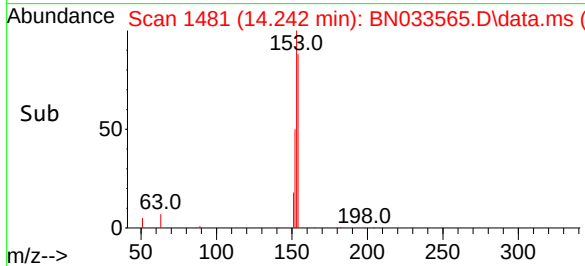
Instrument :
BNA_N
ClientSampleId :
PB162880BS



Tgt Ion:154 Resp: 8510
Ion Ratio Lower Upper
154 100
153 113.9 89.0 133.6
152 57.4 45.2 67.8

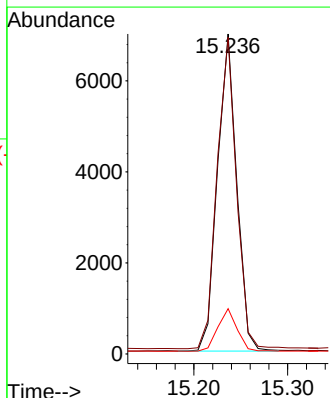
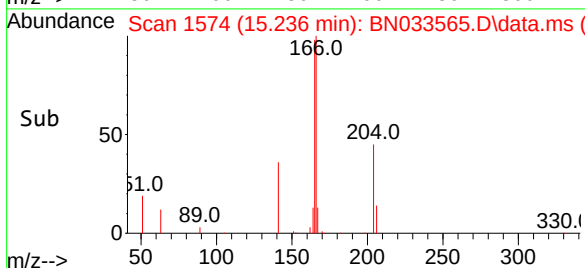
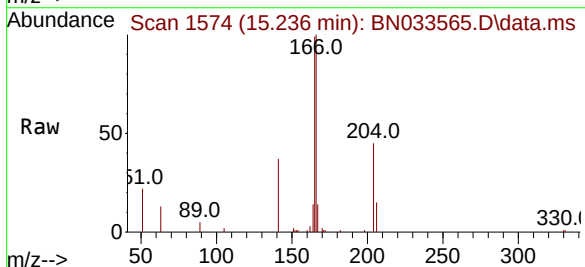
Manual Integrations
APPROVED

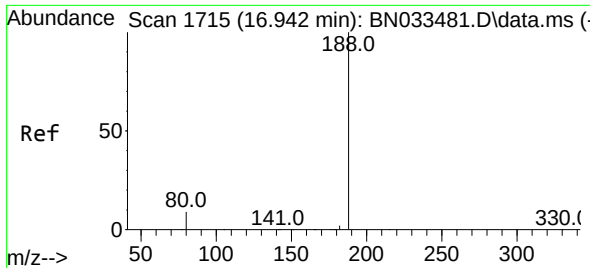
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#18
Fluorene
Concen: 0.329 ng
RT: 15.236 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

Tgt Ion:166 Resp: 9948
Ion Ratio Lower Upper
166 100
165 98.4 78.2 117.4
167 13.4 10.6 16.0





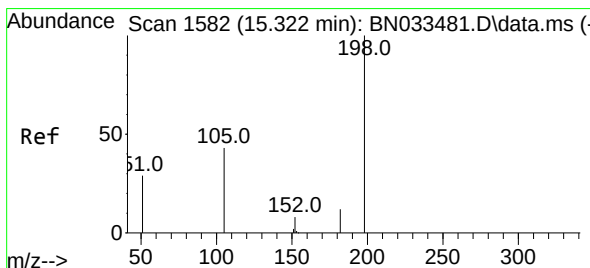
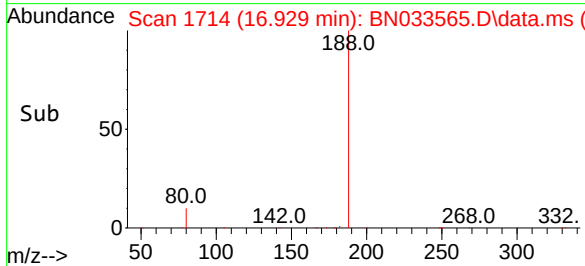
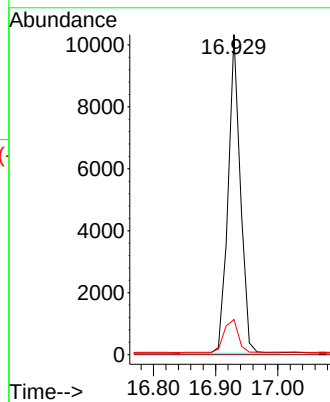
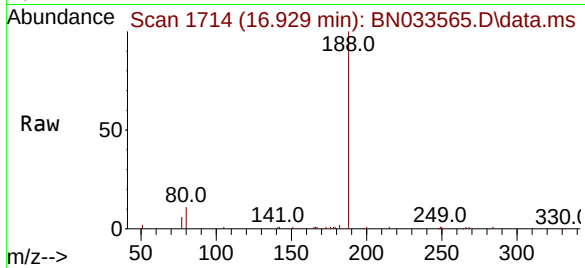
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

Instrument :
BNA_N
ClientSampleId :
PB162880BS

Tgt Ion:188 Resp: 1403
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.0 7.8 11.8

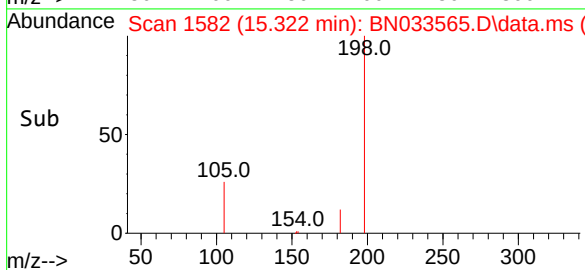
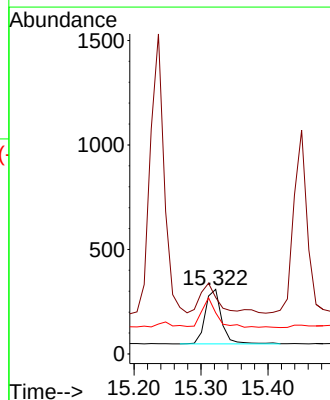
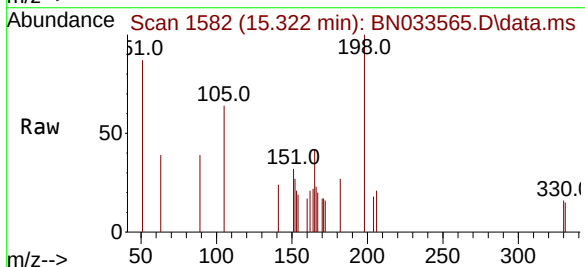
Manual Integrations
APPROVED

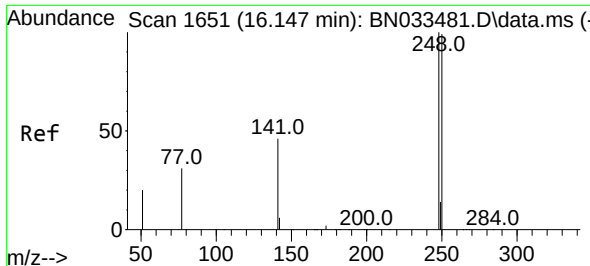
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.201 ng
RT: 15.322 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

Tgt Ion:198 Resp: 441
Ion Ratio Lower Upper
198 100
51 87.4 65.1 97.7
105 63.8 44.8 67.2





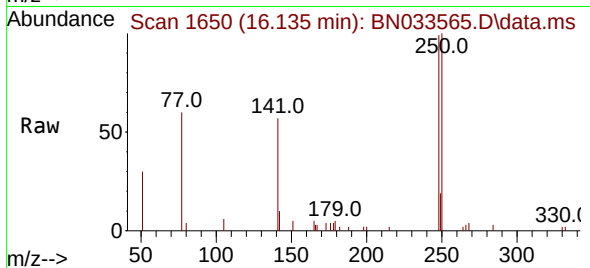
#21
4-Bromophenyl-phenylether
Concen: 0.354 ng
RT: 16.135 min Scan# 1650
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

Instrument :

BNA_N

ClientSampleId :

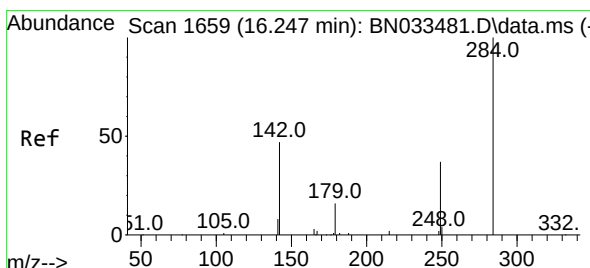
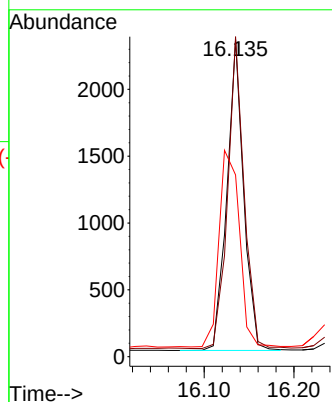
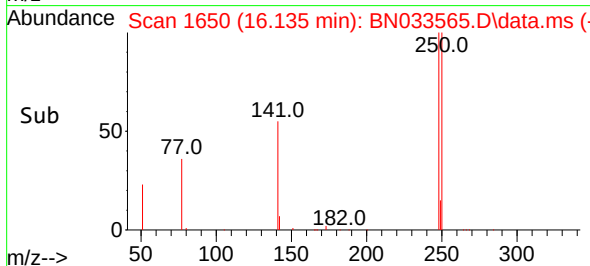
PB162880BS



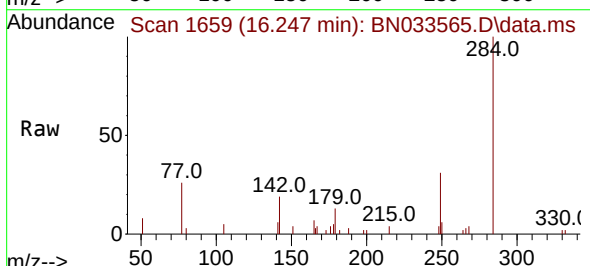
Tgt Ion:248 Resp: 3018
Ion Ratio Lower Upper
248 100
250 100.9 79.2 118.8
141 57.3 37.9 56.9

Manual Integrations
APPROVED

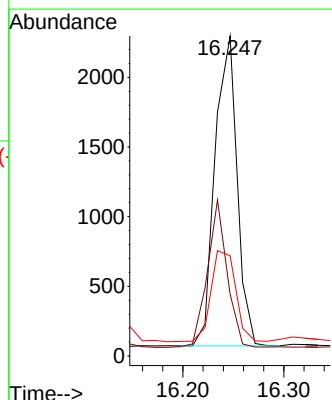
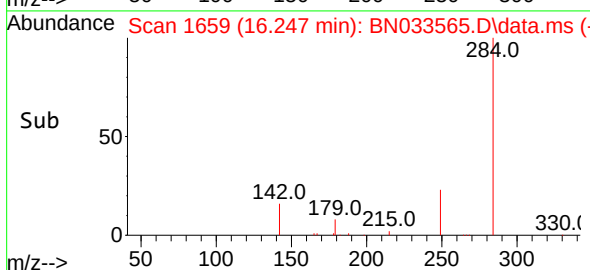
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

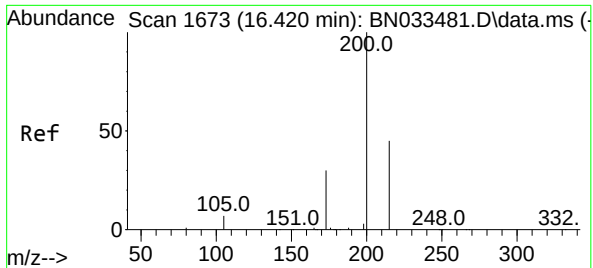


#22
Hexachlorobenzene
Concen: 0.359 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16



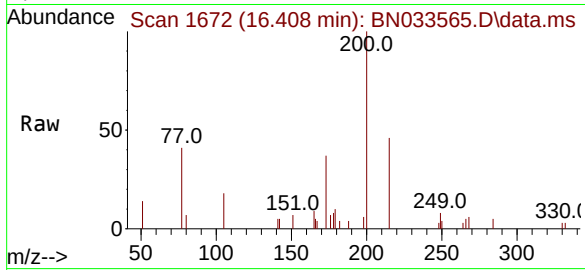
Tgt Ion:284 Resp: 3380
Ion Ratio Lower Upper
284 100
142 42.3 31.8 47.6
249 32.8 26.0 39.0





#23
Atrazine
Concen: 0.342 ng
RT: 16.408 min Scan# 1672
Delta R.T. -0.012 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

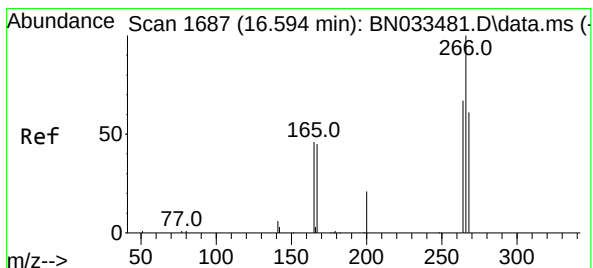
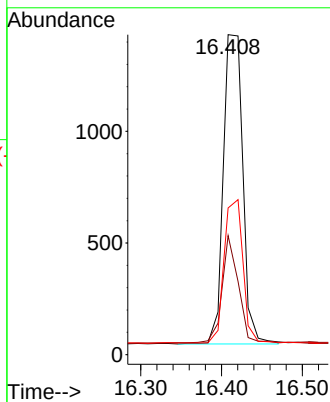
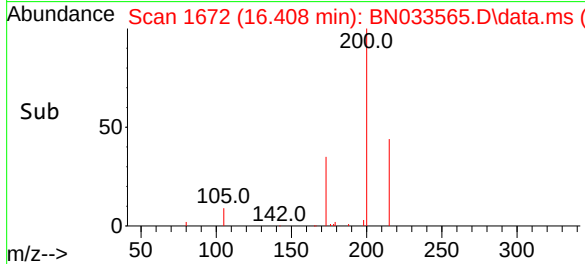
Instrument :
BNA_N
ClientSampleId :
PB162880BS



Tgt Ion:200 Resp: 2329
Ion Ratio Lower Upper
200 100
173 37.2 25.3 37.9
215 45.8 36.6 54.8

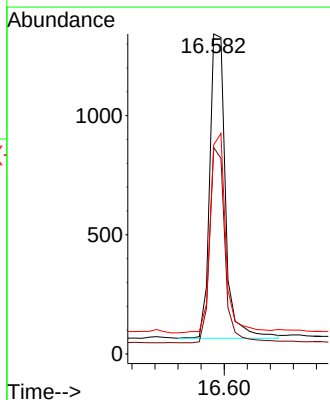
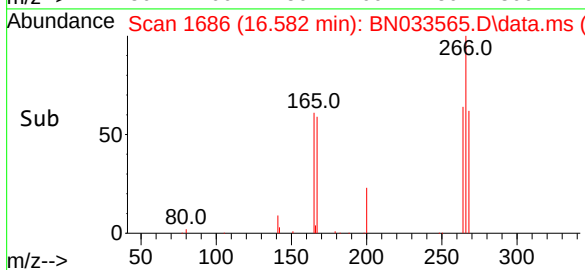
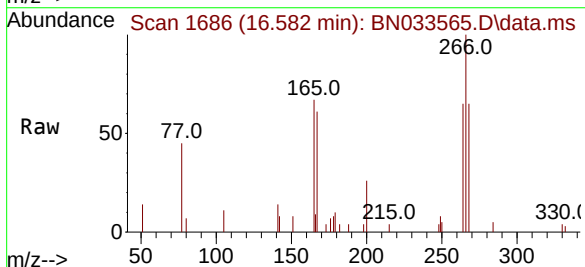
Manual Integrations
APPROVED

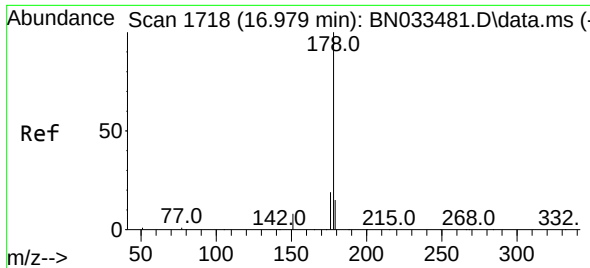
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#24
Pentachlorophenol
Concen: 0.590 ng
RT: 16.582 min Scan# 1686
Delta R.T. -0.012 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

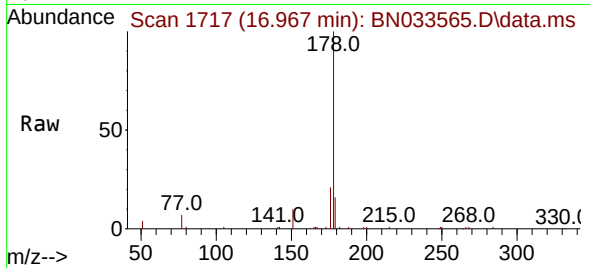
Tgt Ion:266 Resp: 2405
Ion Ratio Lower Upper
266 100
264 62.2 51.9 77.9
268 64.1 51.0 76.4





#25
Phenanthrene
Concen: 0.374 ng
RT: 16.967 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

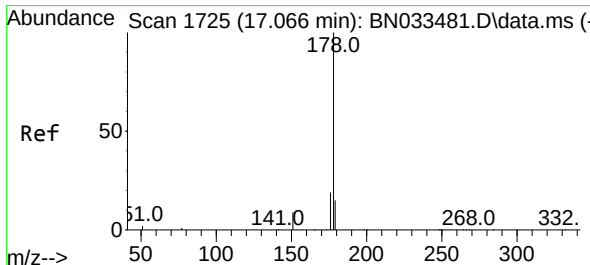
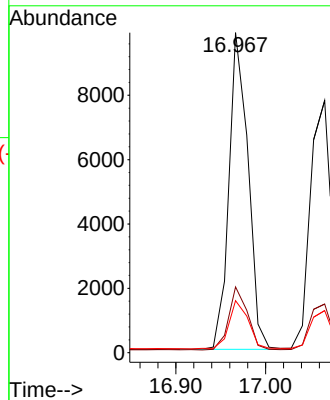
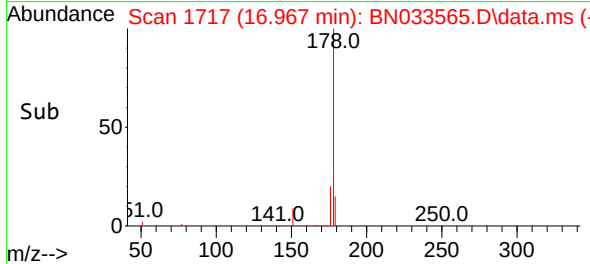
Instrument :
BNA_N
ClientSampleId :
PB162880BS



Tgt Ion:178 Resp: 14592
Ion Ratio Lower Upper
178 100
176 19.4 15.3 22.9
179 15.4 12.3 18.5

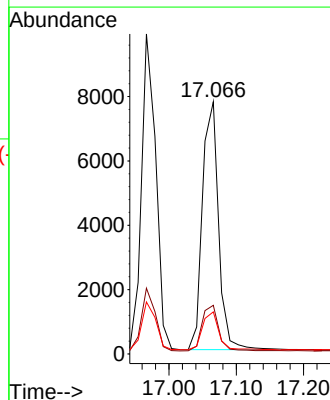
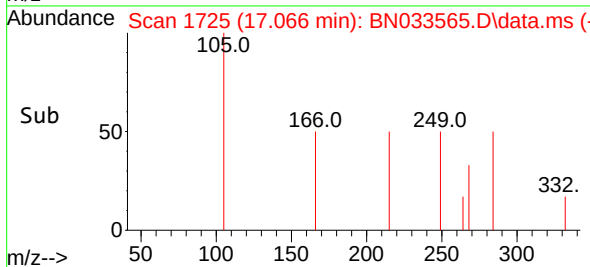
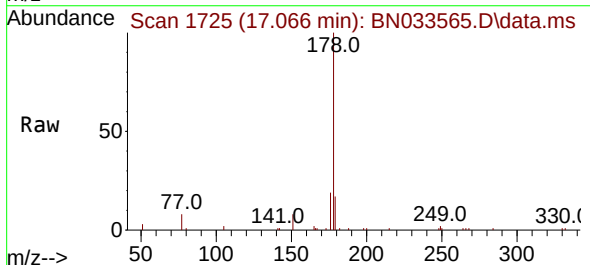
Manual Integrations
APPROVED

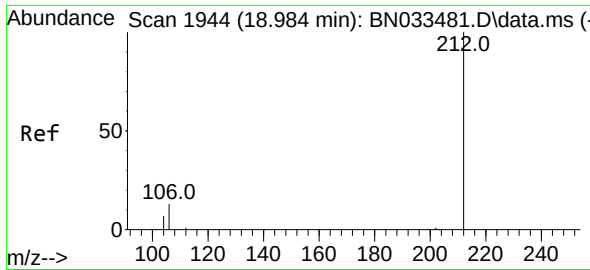
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#26
Anthracene
Concen: 0.373 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

Tgt Ion:178 Resp: 12872
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.355 ng

RT: 18.970 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN033565.D

Acq: 22 Aug 2024 23:16

Instrument :

BNA_N

ClientSampleId :

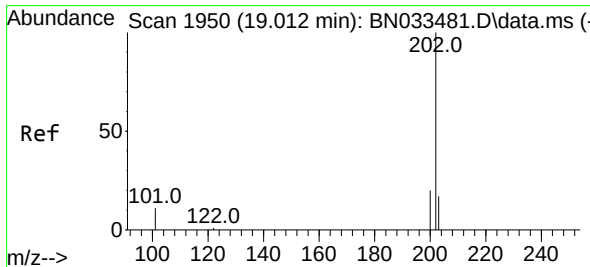
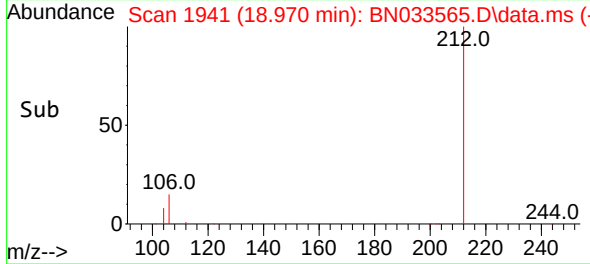
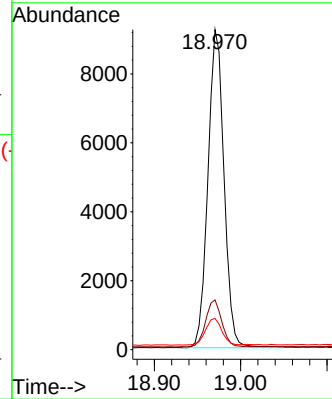
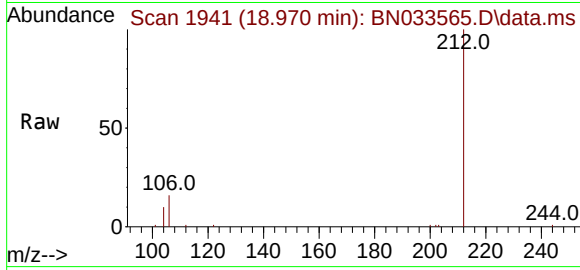
PB162880BS

Tgt Ion:	212	Resp:	11978
Ion	Ratio	Lower	Upper
212	100		
106	15.1	12.3	18.5
104	8.4	7.0	10.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#28

Fluoranthene

Concen: 0.357 ng

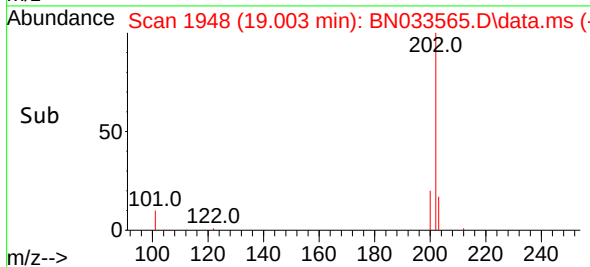
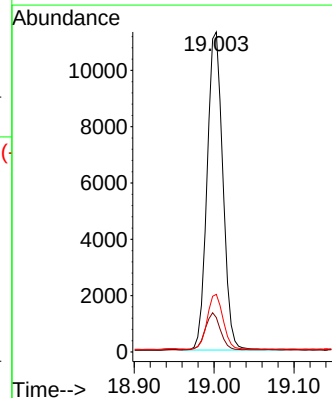
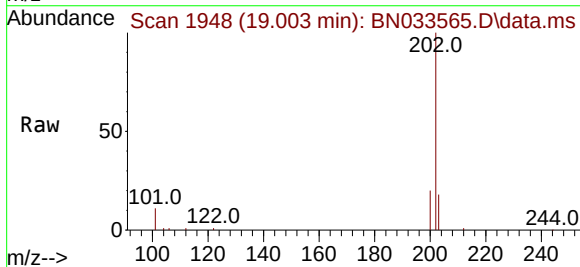
RT: 19.003 min Scan# 1948

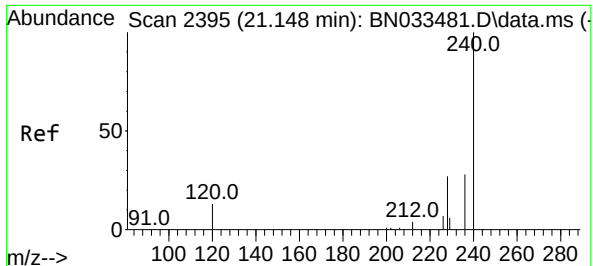
Delta R.T. -0.000 min

Lab File: BN033565.D

Acq: 22 Aug 2024 23:16

Tgt Ion:	202	Resp:	15390
Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.5	14.3
203	17.3	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.139 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033565.D

Acq: 22 Aug 2024 23:16

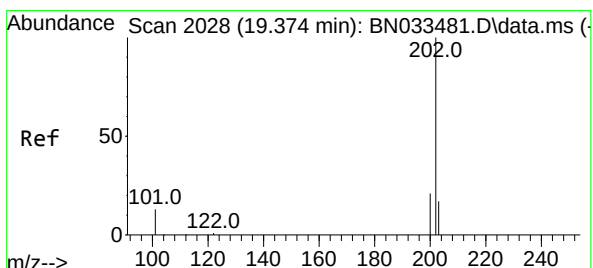
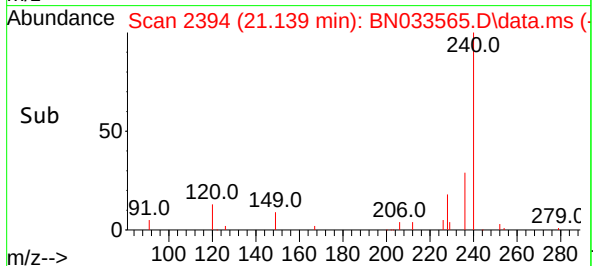
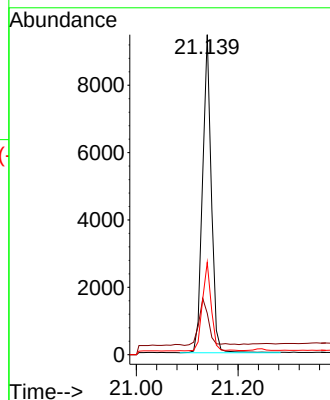
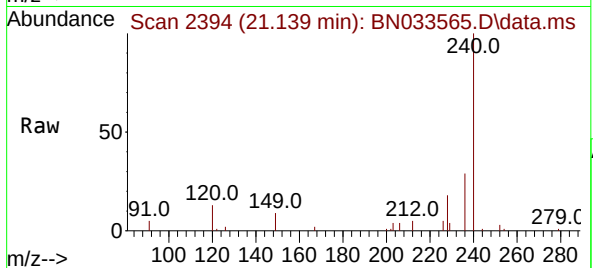
Instrument :

BNA_N

ClientSampleId :

PB162880BS

Tgt Ion:	240	Resp:	1130
Ion Ratio	Lower	Upper	
240	100		
120	12.9	12.4	18.6
236	28.8	23.0	34.6

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

#30

Pyrene

Concen: 0.320 ng

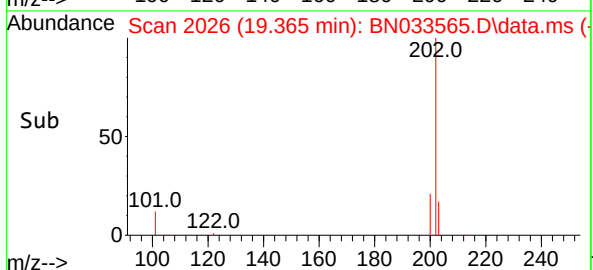
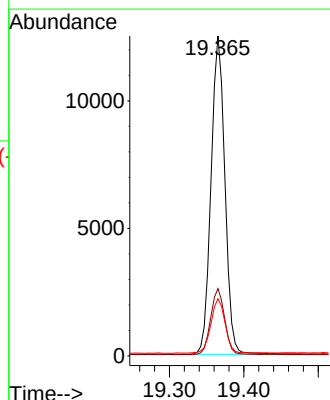
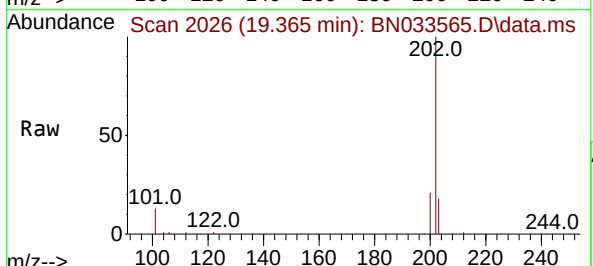
RT: 19.365 min Scan# 2026

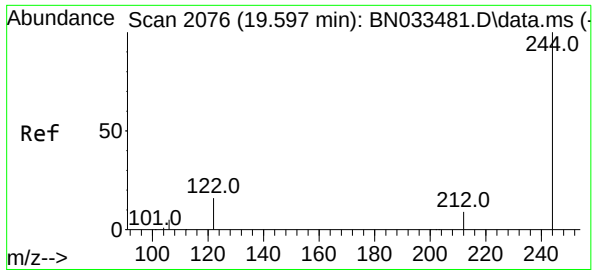
Delta R.T. -0.000 min

Lab File: BN033565.D

Acq: 22 Aug 2024 23:16

Tgt Ion:	202	Resp:	16143
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.6	24.8
203	17.6	14.2	21.4





#31
Terphenyl-d14
Concen: 0.320 ng
RT: 19.583 min Scan# 2076
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

Instrument :

BNA_N

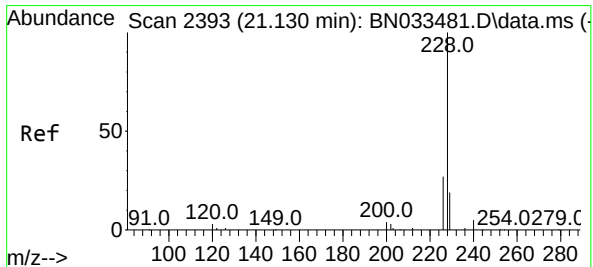
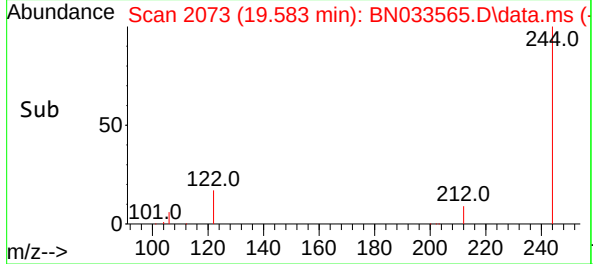
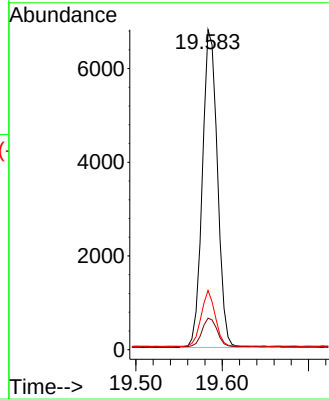
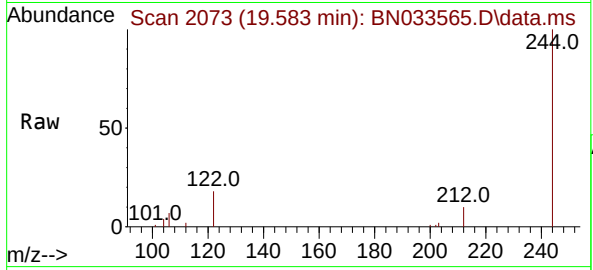
ClientSampleId :

PB162880BS

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.9	7.8	11.6
122	18.5	13.3	19.9

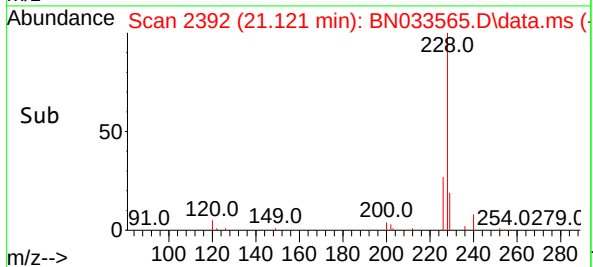
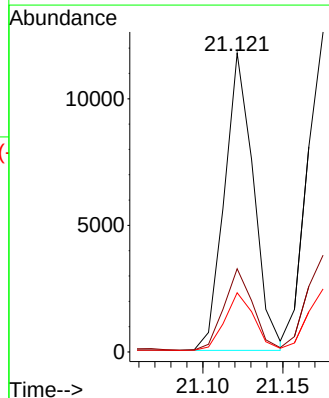
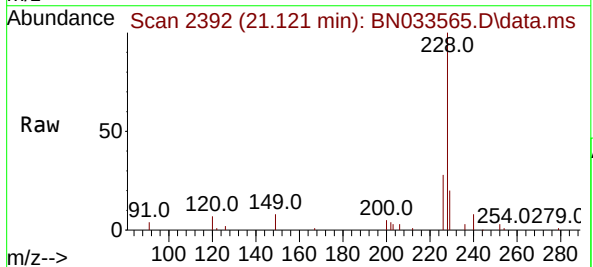
Manual Integrations
APPROVED

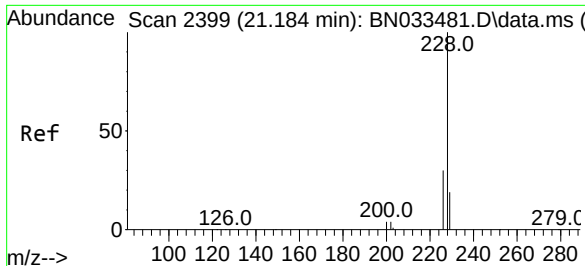
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.121 min Scan# 2392
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

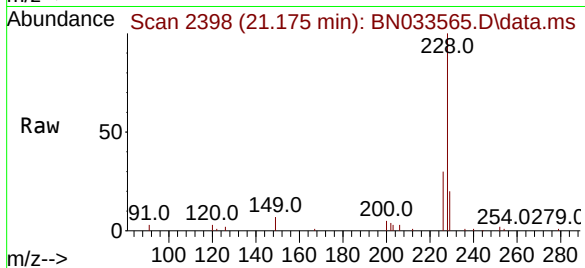
Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	21.8	32.6
229	19.8	15.8	23.6





#33
Chrysene
Concen: 0.381 ng
RT: 21.175 min Scan# 2117
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

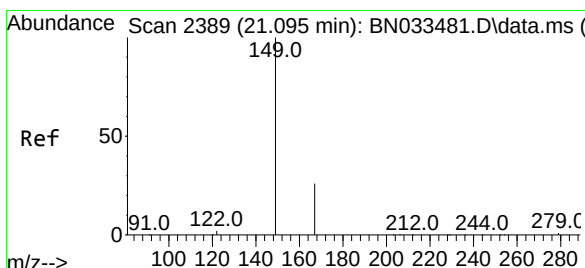
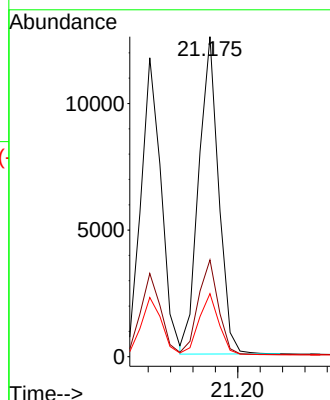
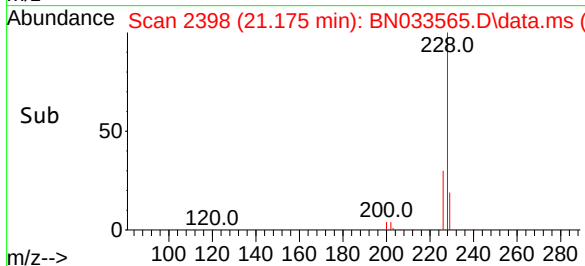
Instrument :
BNA_N
ClientSampleId :
PB162880BS



Tgt Ion:228 Resp: 15485
Ion Ratio Lower Upper
228 100
226 30.2 23.8 35.8
229 19.7 15.6 23.4

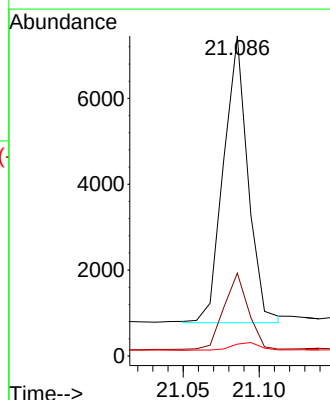
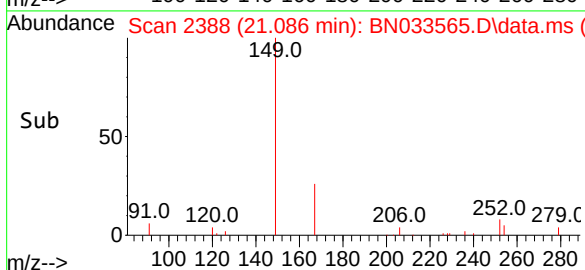
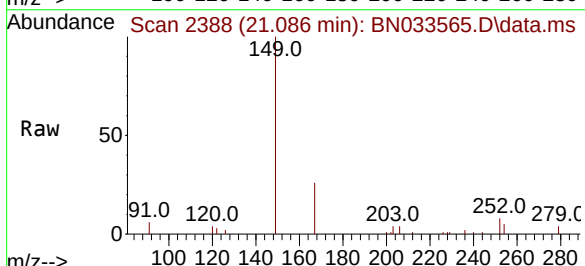
Manual Integrations
APPROVED

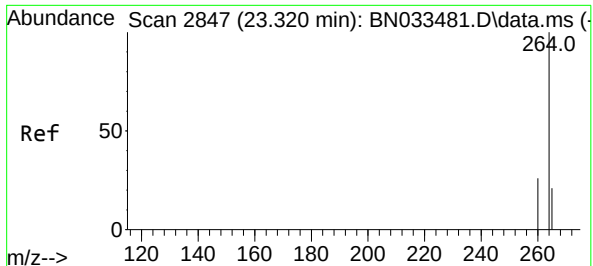
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.288 ng m
RT: 21.086 min Scan# 2388
Delta R.T. -0.000 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

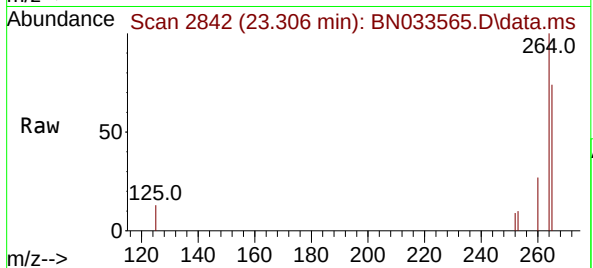
Tgt Ion:149 Resp: 7460
Ion Ratio Lower Upper
149 100
167 40.3 21.5 32.3#
279 4.1 2.2 3.2#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.306 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

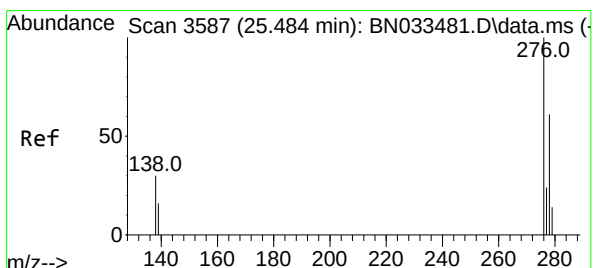
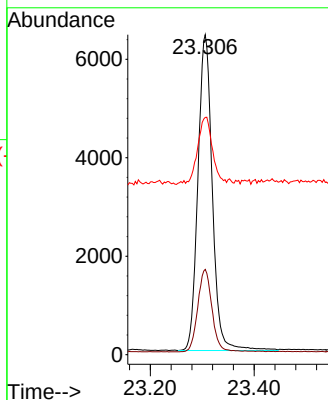
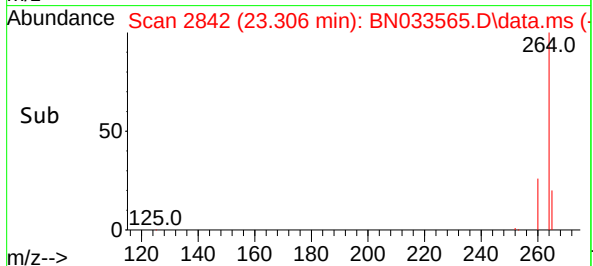
Instrument :
BNA_N
ClientSampleId :
PB162880BS



Tgt Ion:264 Resp: 12304
Ion Ratio Lower Upper
264 100
260 26.6 20.8 31.2
265 74.2 52.2 78.2

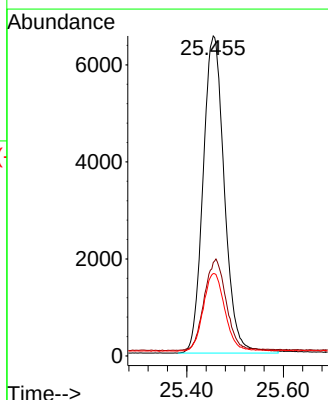
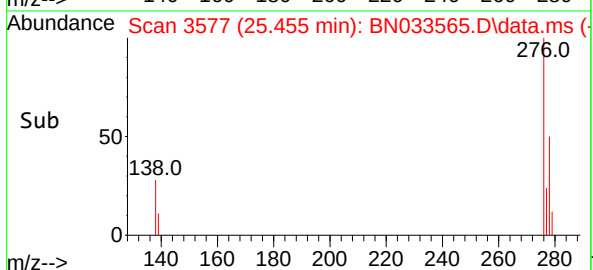
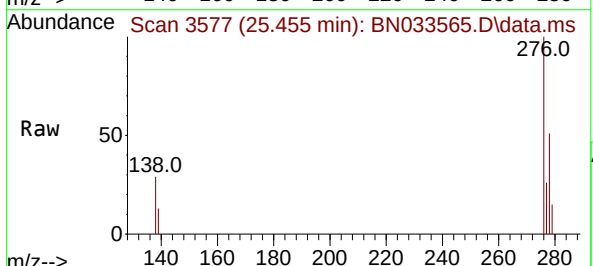
Manual Integrations
APPROVED

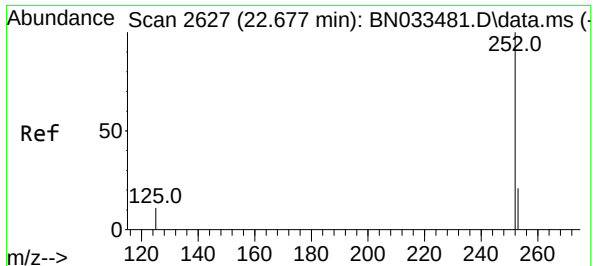
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.391 ng
RT: 25.455 min Scan# 3577
Delta R.T. 0.006 min
Lab File: BN033565.D
Acq: 22 Aug 2024 23:16

Tgt Ion:276 Resp: 19993
Ion Ratio Lower Upper
276 100
138 29.4 24.4 36.6
277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.354 ng

RT: 22.663 min Scan# 2622

Delta R.T. 0.003 min

Lab File: BN033565.D

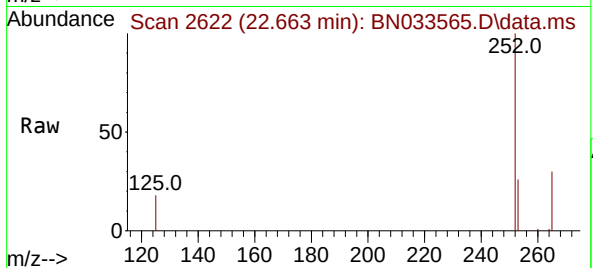
Acq: 22 Aug 2024 23:16

Instrument :

BNA_N

ClientSampleId :

PB162880BS



Tgt Ion:252 Resp: 16288

Ion Ratio Lower Upper

252 100

253 25.8 19.8 29.8

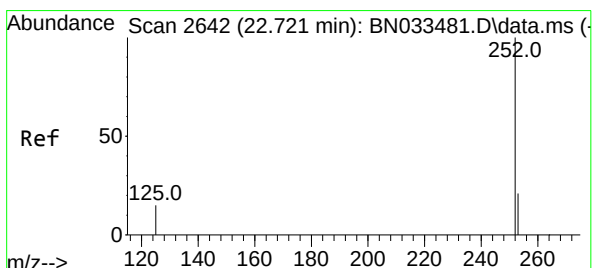
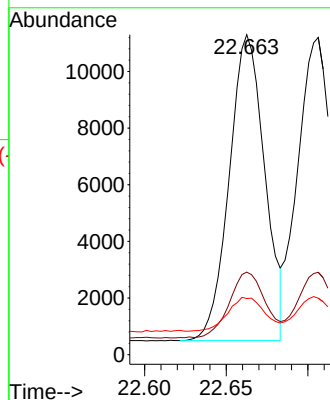
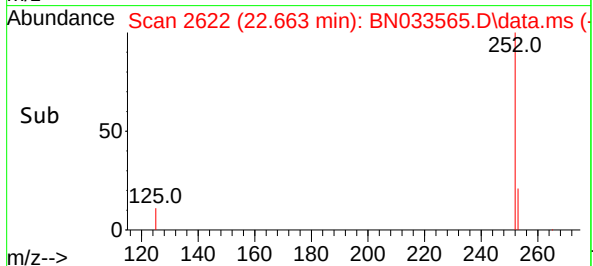
125 17.6 13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#38

Benzo(k)fluoranthene

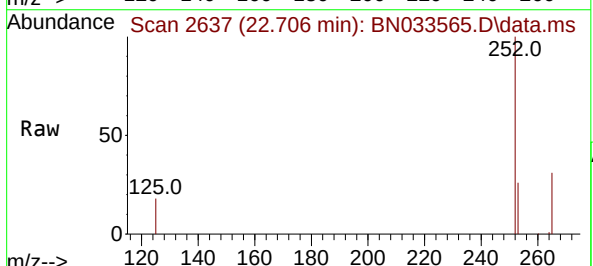
Concen: 0.359 ng

RT: 22.706 min Scan# 2637

Delta R.T. 0.003 min

Lab File: BN033565.D

Acq: 22 Aug 2024 23:16



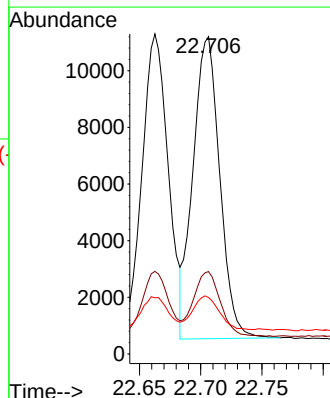
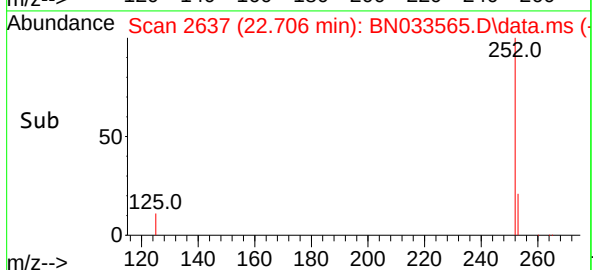
Tgt Ion:252 Resp: 16223

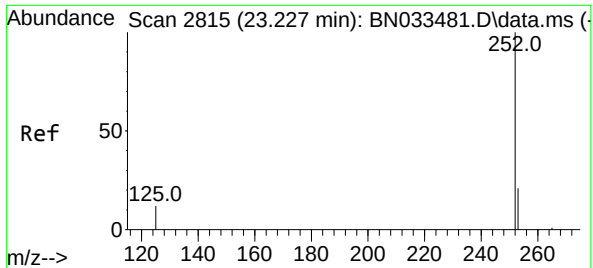
Ion Ratio Lower Upper

252 100

253 26.0 19.8 29.8

125 17.8 15.8 23.8





#39

Benzo(a)pyrene

Concen: 0.394 ng

RT: 23.212 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN033565.D

Acq: 22 Aug 2024 23:16

Instrument :

BNA_N

ClientSampleId :

PB162880BS

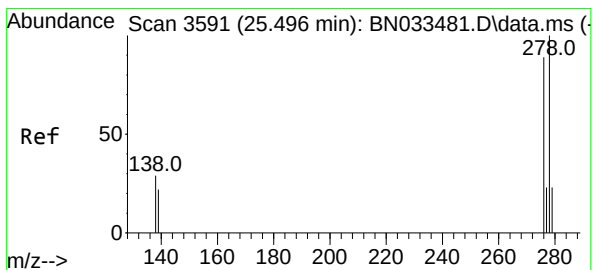
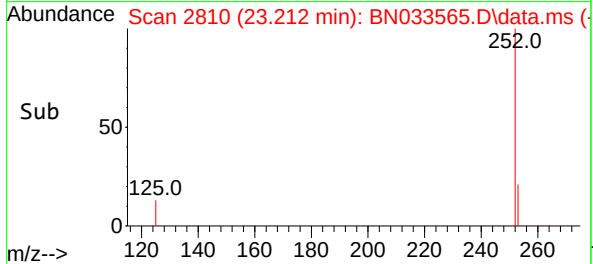
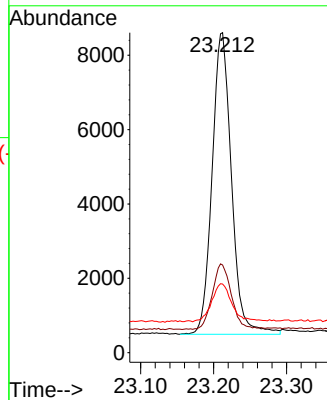
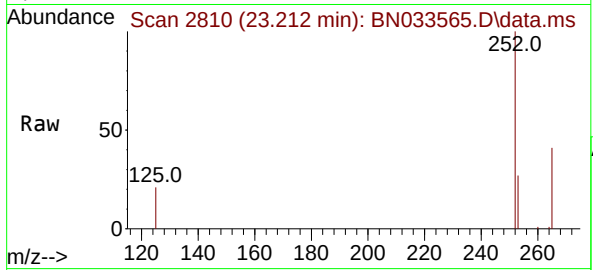
Tgt Ion:	252	Resp:	1497
Ion Ratio	Lower	Upper	
252	100		
253	27.4	21.5	32.3
125	21.4	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.383 ng

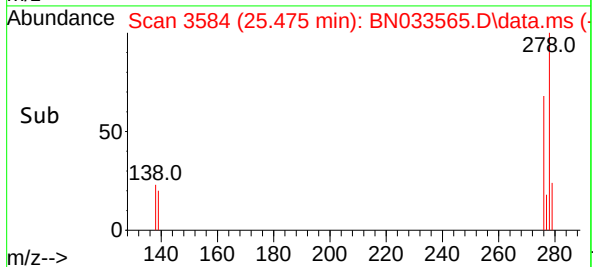
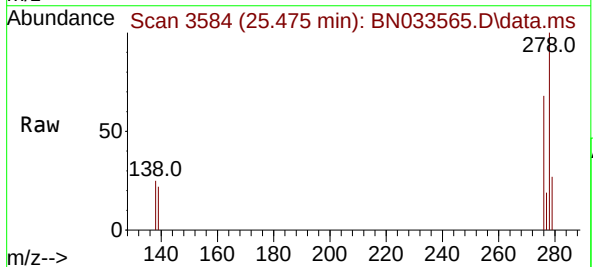
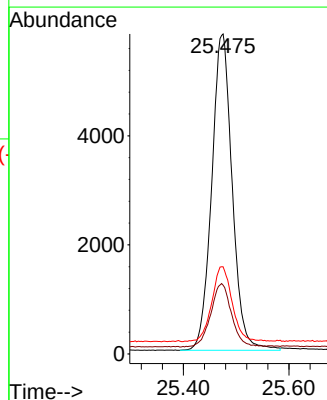
RT: 25.475 min Scan# 3584

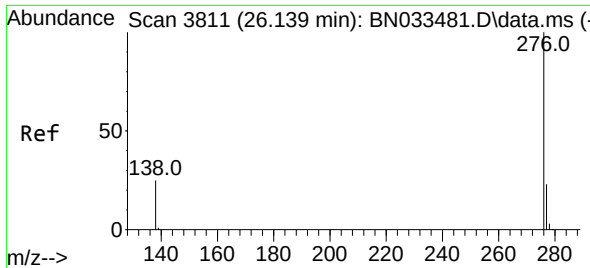
Delta R.T. 0.006 min

Lab File: BN033565.D

Acq: 22 Aug 2024 23:16

Tgt Ion:	278	Resp:	15651
Ion Ratio	Lower	Upper	
278	100		
139	21.5	19.1	28.7
279	27.2	21.0	31.4





#41

Benzo(g,h,i)perylene

Concen: 0.364 ng

RT: 26.104 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN033565.D

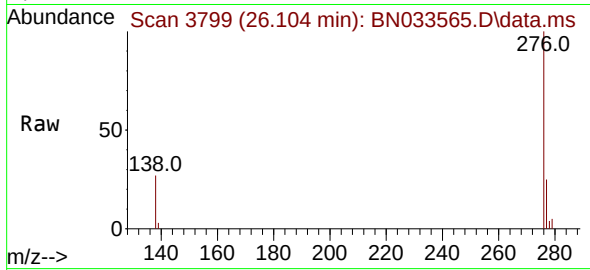
Acq: 22 Aug 2024 23:16

Instrument :

BNA_N

ClientSampleId :

PB162880BS



Tgt Ion:276 Resp: 15878

Ion Ratio Lower Upper

276 100

277 24.9 19.7 29.5

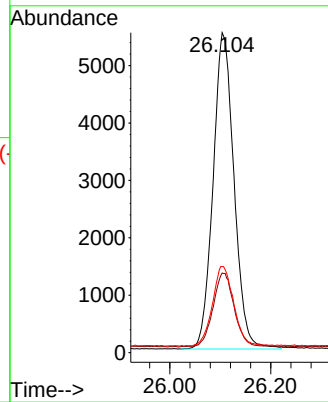
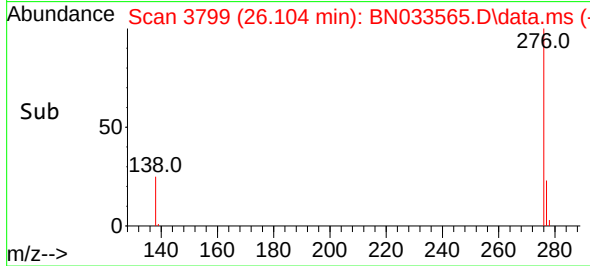
138 26.9 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924MS	SDG No.:	P3671
Lab Sample ID:	P3671-10MS	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	57.2
Sample Wt/Vol:	30.02 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033571.D	1	08/21/24 09:38	08/23/24 02:53	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	23.8		1.20	5.80	ug/Kg
91-57-6	2-Methylnaphthalene	23.2		1.40	5.80	ug/Kg
208-96-8	Acenaphthylene	26.7		1.10	5.80	ug/Kg
83-32-9	Acenaphthene	22.9		0.96	5.80	ug/Kg
86-73-7	Fluorene	22.5		1.00	5.80	ug/Kg
85-01-8	Phenanthrene	35.4		1.10	5.80	ug/Kg
120-12-7	Anthracene	26.7		1.40	5.80	ug/Kg
206-44-0	Fluoranthene	51.0		1.20	5.80	ug/Kg
129-00-0	Pyrene	39.6		1.70	5.80	ug/Kg
56-55-3	Benzo(a)anthracene	33.8		1.30	5.80	ug/Kg
218-01-9	Chrysene	38.8		1.50	5.80	ug/Kg
205-99-2	Benzo(b)fluoranthene	40.7		2.10	5.80	ug/Kg
207-08-9	Benzo(k)fluoranthene	32.7		1.70	5.80	ug/Kg
50-32-8	Benzo(a)pyrene	38.7		2.90	5.80	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.7		2.20	5.80	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	25.2		2.00	5.80	ug/Kg
191-24-2	Benzo(g,h,i)perylene	32.5		2.00	5.80	ug/Kg
123-91-1	1,4-Dioxane	19.8		3.90	11.5	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		30 (17) - 150 (161)	87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.19		30 (23) - 150 (138)	47%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		30 (33) - 130 (121)	77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.22		30 (32) - 130 (121)	56%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.16		30 (21) - 130 (130)	41%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7490	7.545			
1146-65-2	Naphthalene-d8	19600	10.304			
15067-26-2	Acenaphthene-d10	9310	14.178			
1517-22-2	Phenanthrene-d10	18400	16.929			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924MS	SDG No.:	P3671
Lab Sample ID:	P3671-10MS	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	57.2
Sample Wt/Vol:	30.02 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033571.D	1	08/21/24 09:38	08/23/24 02:53	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	15600	21.13			
1520-96-3	Perylene-d12	17100	23.3			

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\BN082224\
Data File : BN033571.D
Acq On : 23 Aug 2024 02:53
Operator : MA/JU
Sample : P3671-10MS
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS

Quant Time: Aug 23 03:42:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	7489	0.400	ng	0.00
7) Naphthalene-d8	10.304	136	19600	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	9306	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	18439	0.400	ng	0.00
29) Chrysene-d12	21.130	240	15566	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	17073	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	6028	0.253	ng	0.00
5) Phenol-d6	6.736	99	7305	0.258	ng	0.00
8) Nitrobenzene-d5	8.681	82	5035	0.310	ng	0.00
11) 2-Methylnaphthalene-d10	11.903	152	9719m	0.347	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	1113	0.222	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	8521	0.224	ng	0.00
27) Fluoranthene-d10	18.970	212	8340	0.188	ng	0.00
31) Terphenyl-d14	19.583	244	5749	0.163	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.183	88	2931	0.340	ng	# 56
3) n-Nitrosodimethylamine	3.472	42	3858	0.385	ng	# 99
6) bis(2-Chloroethyl)ether	6.982	93	8602	0.428	ng	99
9) Naphthalene	10.357	128	21425	0.409	ng	99
10) Hexachlorobutadiene	10.656	225	4029	0.386	ng	# 100
12) 2-Methylnaphthalene	11.975	142	13206	0.398	ng	99
16) Acenaphthylene	13.889	152	18719	0.459	ng	100
17) Acenaphthene	14.242	154	11309	0.394	ng	99
18) Fluorene	15.236	166	14019	0.387	ng	98
20) 4,6-Dinitro-2-methylph...	15.311	198	849	0.295	ng	# 17
21) 4-Bromophenyl-phenylether	16.135	248	4194	0.374	ng	97
22) Hexachlorobenzene	16.247	284	4644	0.376	ng	99
23) Atrazine	16.420	200	3550	0.397	ng	# 90
24) Pentachlorophenol	16.582	266	3923	0.732	ng	99
25) Phenanthrene	16.967	178	31168	0.608	ng	99
26) Anthracene	17.066	178	20769	0.458	ng	100
28) Fluoranthene	19.003	202	49606	0.875	ng	100
30) Pyrene	19.365	202	47212	0.680	ng	98
32) Benzo(a)anthracene	21.121	228	32639	0.580	ng	97
33) Chrysene	21.166	228	37338	0.667	ng	98
34) Bis(2-ethylhexyl)phtha...	21.077	149	17513m	0.492	ng	
36) Indeno(1,2,3-cd)pyrene	25.446	276	39755	0.561	ng	97
37) Benzo(b)fluoranthene	22.657	252	44559	0.699	ng	99
38) Benzo(k)fluoranthene	22.698	252	35269m	0.562	ng	
39) Benzo(a)pyrene	23.203	252	35050	0.664	ng	97
40) Dibenzo(a,h)anthracene	25.466	278	24536	0.433	ng	98
41) Benzo(g,h,i)perylene	26.101	276	33814	0.558	ng	99

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

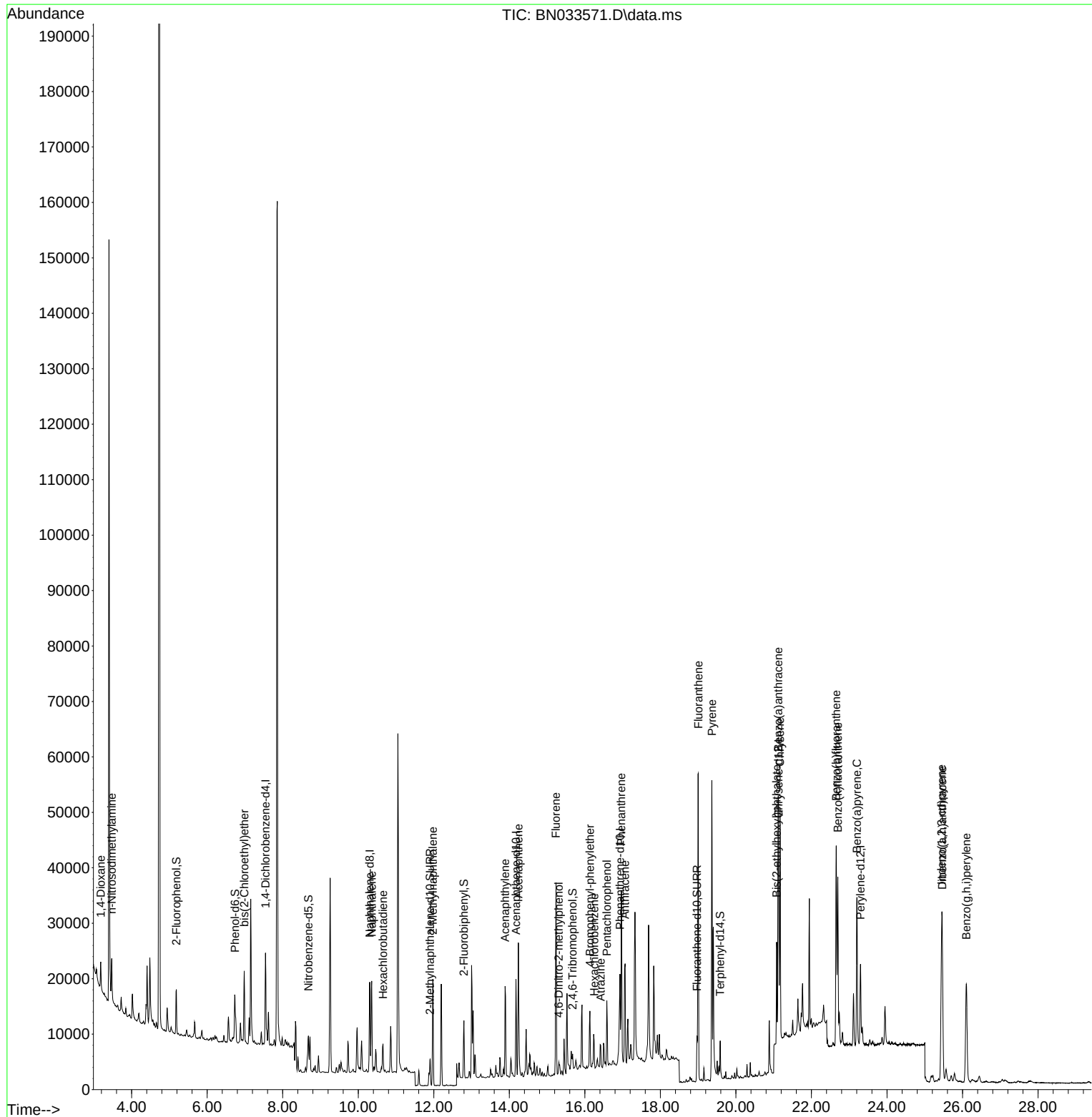
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033571.D
Acq On : 23 Aug 2024 02:53
Operator : MA/JU
Sample : P3671-10MS
Misc :
ALS Vial : 28 Sample Multiplier: 1

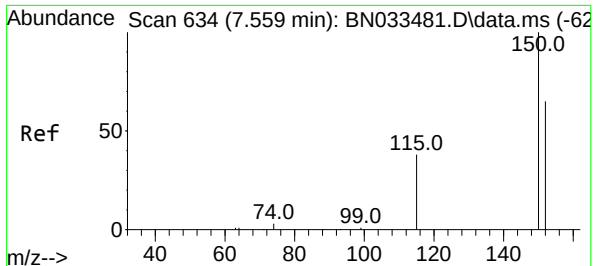
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

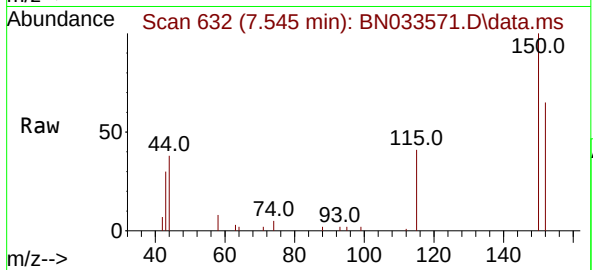
Quant Time: Aug 23 03:42:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

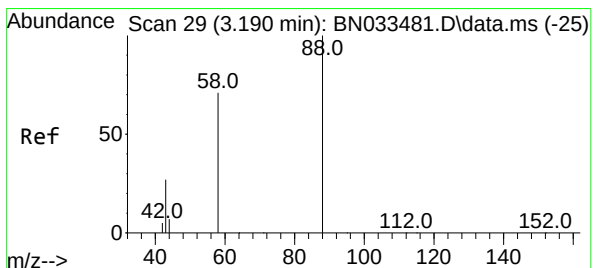
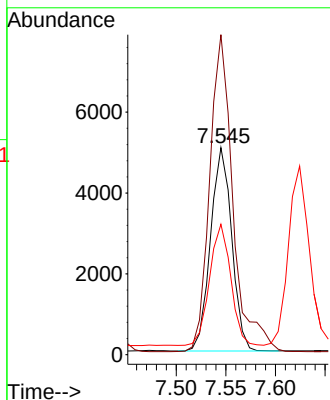
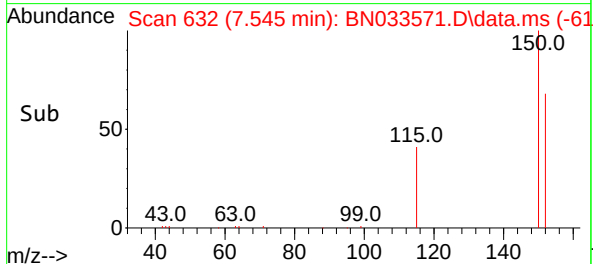
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



Tgt Ion:152 Resp: 7489
Ion Ratio Lower Upper
152 100
150 154.6 122.2 183.2
115 63.0 47.2 70.8

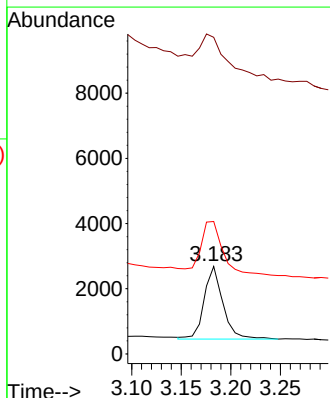
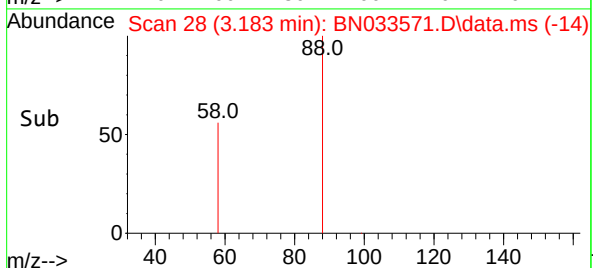
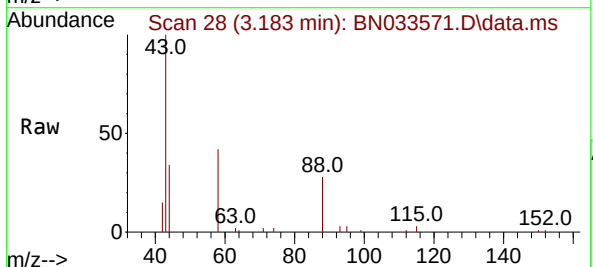
Manual Integrations
APPROVED

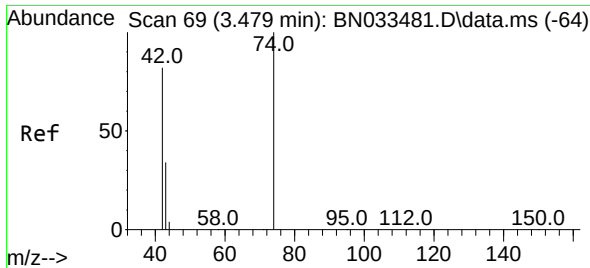
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#2
1,4-Dioxane
Concen: 0.340 ng
RT: 3.183 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

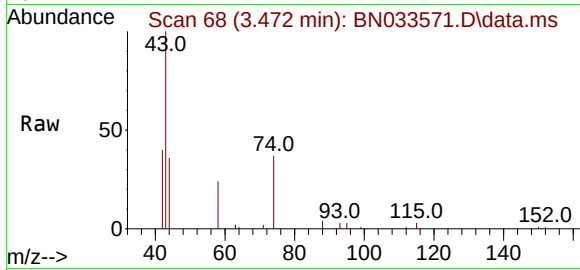
Tgt Ion: 88 Resp: 2931
Ion Ratio Lower Upper
88 100
43 98.1 25.0 37.4#
58 89.4 62.5 93.7





#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.472 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

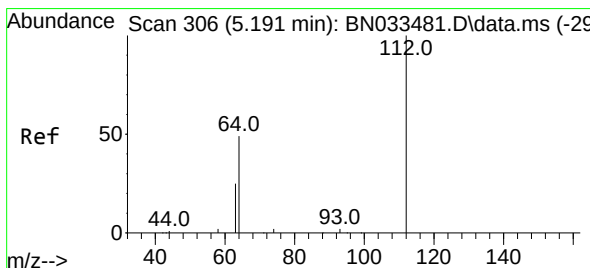
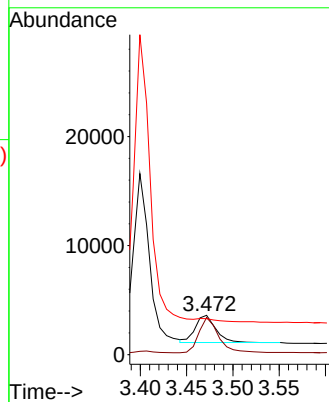
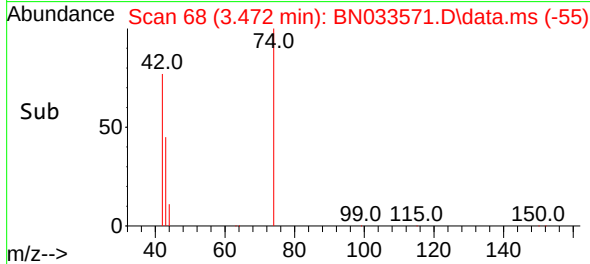
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



Tgt Ion: 42 Resp: 385
Ion Ratio Lower Upper
42 100
74 125.5 100.2 150.2
44 0.0 5.3 7.9

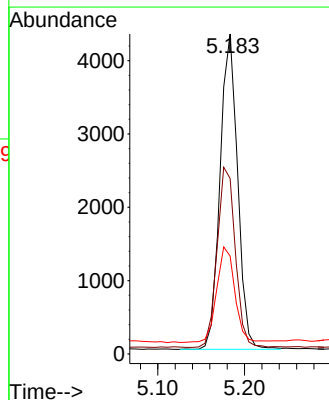
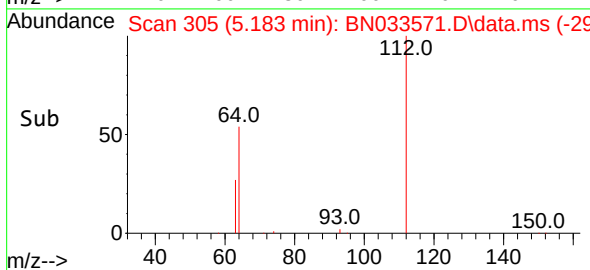
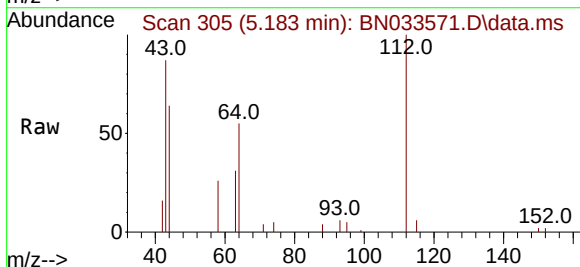
Manual Integrations
APPROVED

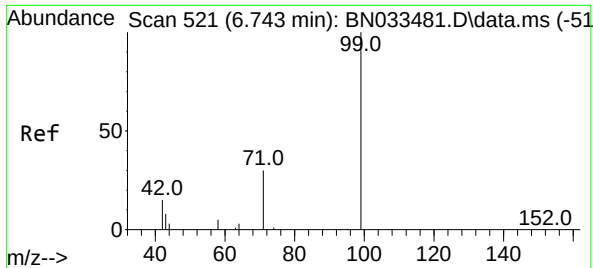
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.253 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

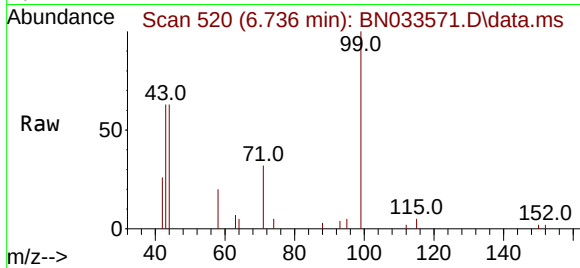
Tgt Ion:112 Resp: 6028
Ion Ratio Lower Upper
112 100
64 59.3 47.1 70.7
63 31.3 24.9 37.3





#5
Phenol-d6
Concen: 0.258 ng
RT: 6.736 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

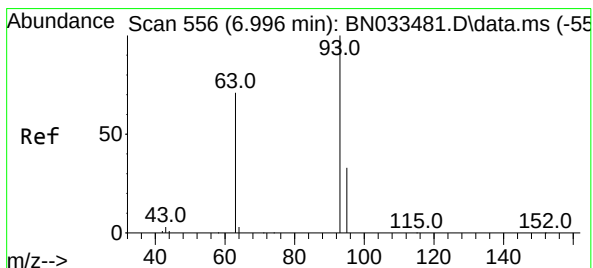
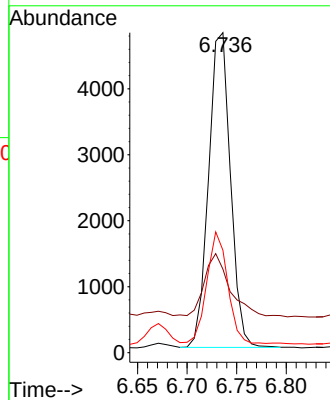
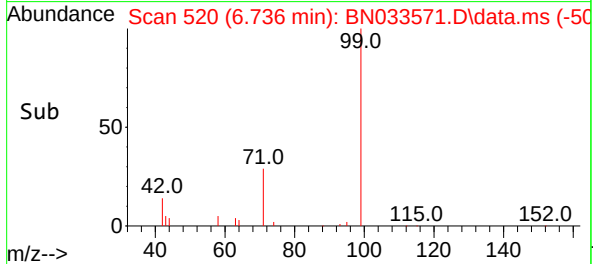
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



Tgt Ion: 99 Resp: 730
Ion Ratio Lower Upper
99 100
42 23.6 16.6 24.8
71 34.2 26.2 39.4

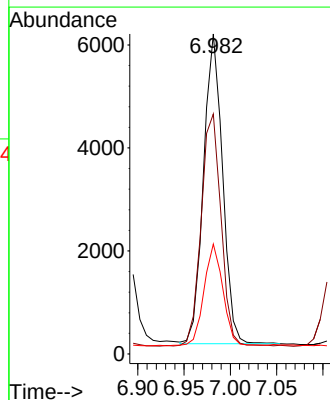
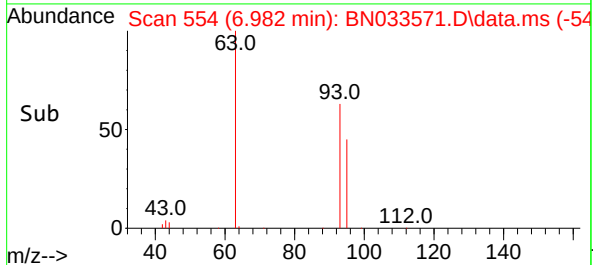
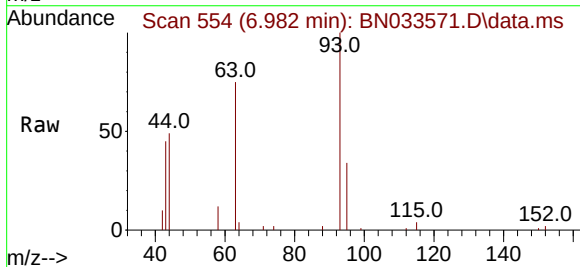
Manual Integrations
APPROVED

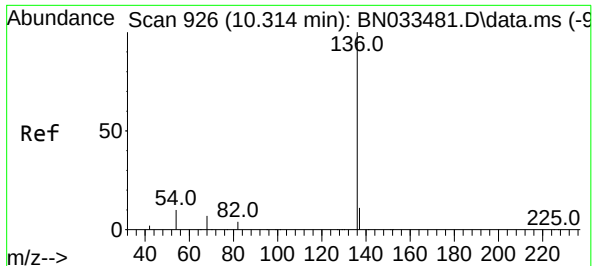
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.428 ng
RT: 6.982 min Scan# 554
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

Tgt Ion: 93 Resp: 8602
Ion Ratio Lower Upper
93 100
63 78.1 63.0 94.4
95 32.8 26.0 39.0





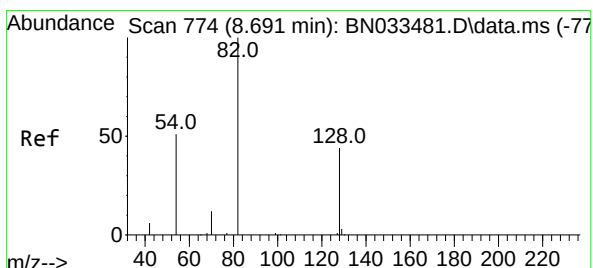
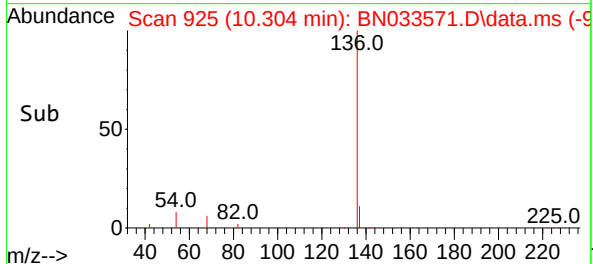
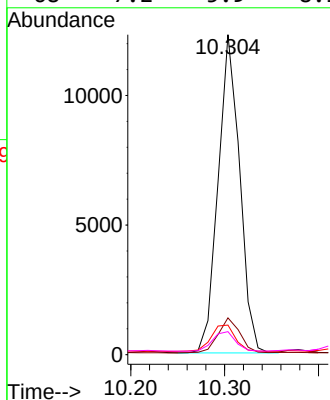
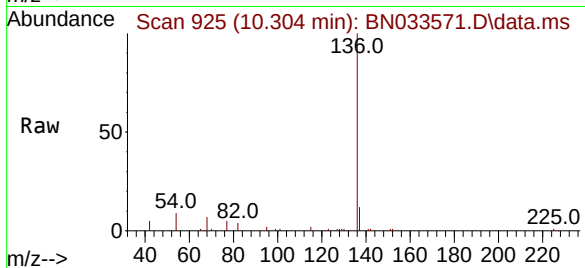
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.304 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS

Tgt Ion:	136	Resp:	19600
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.0	13.6
54	9.2	8.3	12.5
68	7.2	5.9	8.9

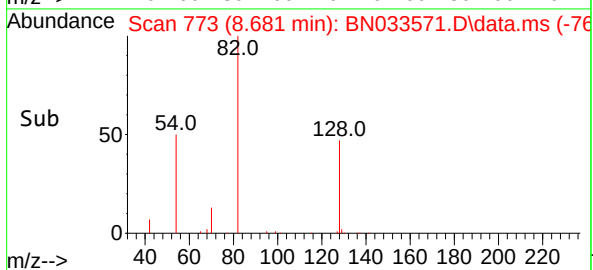
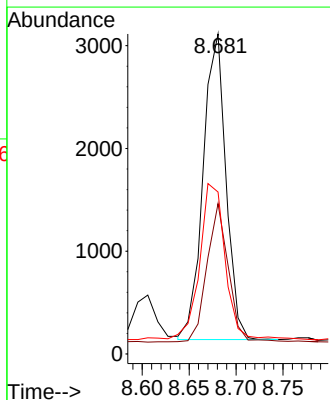
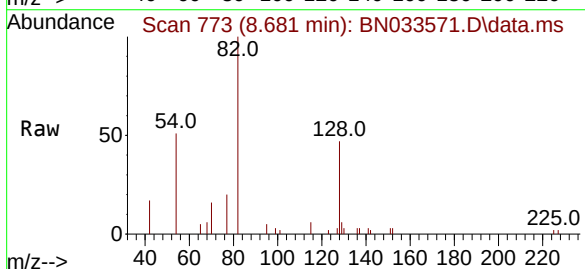
Manual Integrations
APPROVED

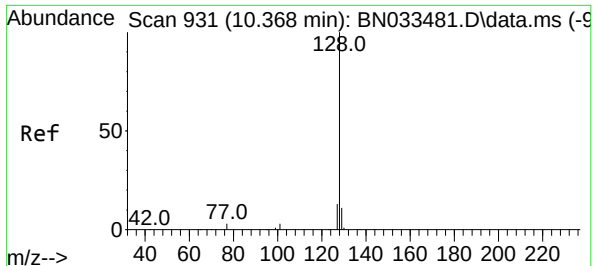
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#8
Nitrobenzene-d5
Concen: 0.310 ng
RT: 8.681 min Scan# 773
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

Tgt Ion:	82	Resp:	5035
Ion	Ratio	Lower	Upper
82	100		
128	47.0	36.0	54.0
54	50.6	42.0	63.0





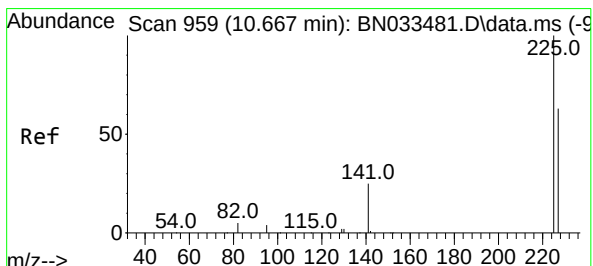
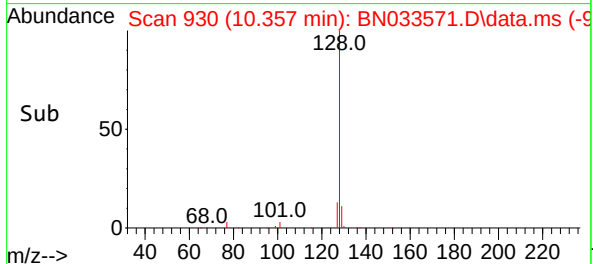
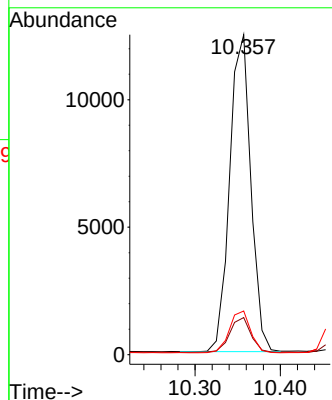
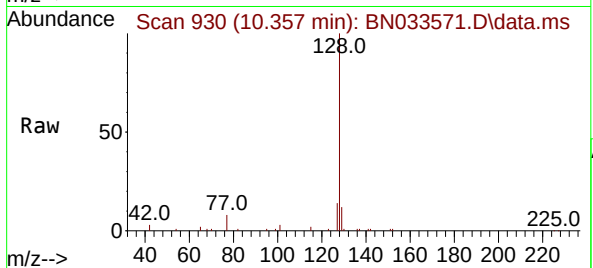
#9
Naphthalene
Concen: 0.409 ng
RT: 10.357 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS

Tgt Ion:128 Resp: 2142
Ion Ratio Lower Upper
128 100
129 11.6 9.1 13.7
127 13.6 10.7 16.1

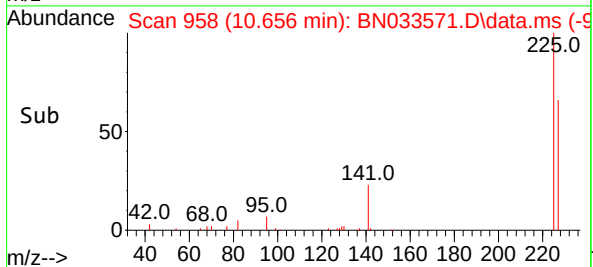
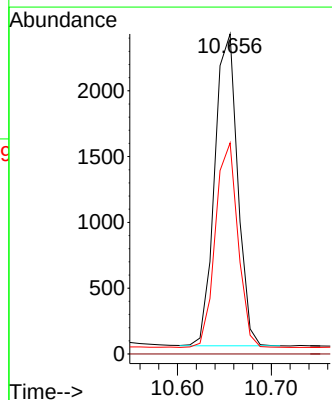
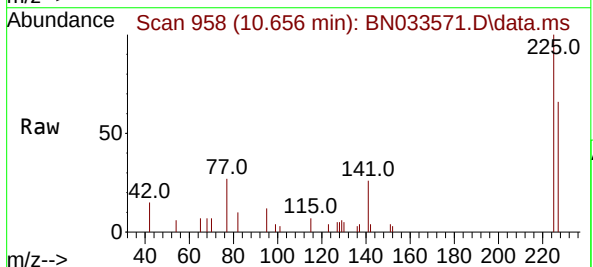
Manual Integrations
APPROVED

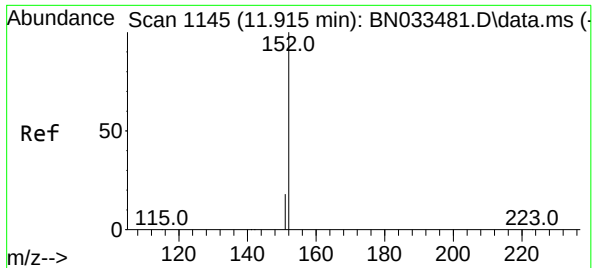
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#10
Hexachlorobutadiene
Concen: 0.386 ng
RT: 10.656 min Scan# 958
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

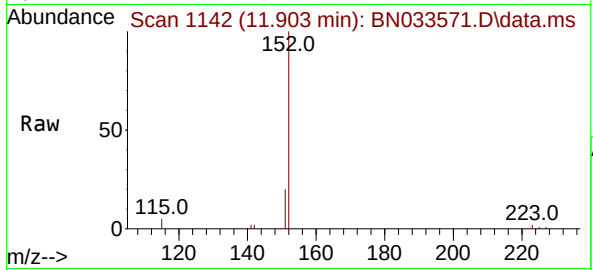
Tgt Ion:225 Resp: 4029
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.2 76.8





#11
2-Methylnaphthalene-d10
Concen: 0.347 ng m
RT: 11.903 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

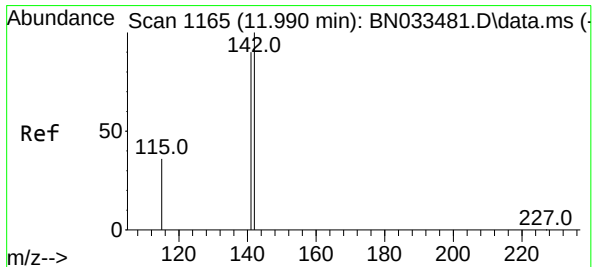
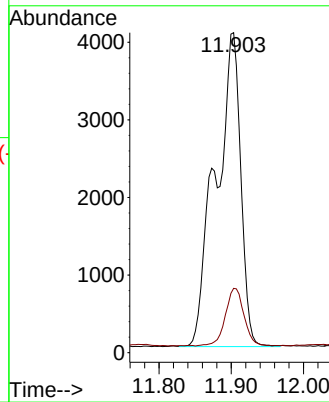
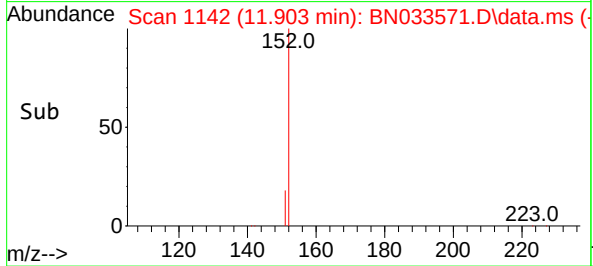
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



Tgt Ion:152 Resp: 9719
Ion Ratio Lower Upper
152 100
151 13.7 16.6 25.0

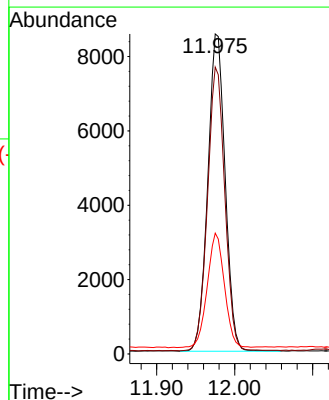
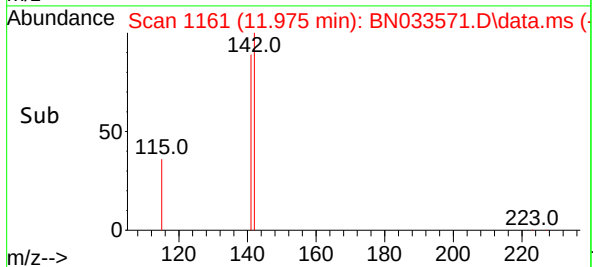
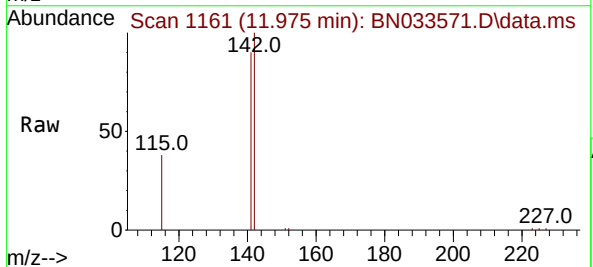
Manual Integrations
APPROVED

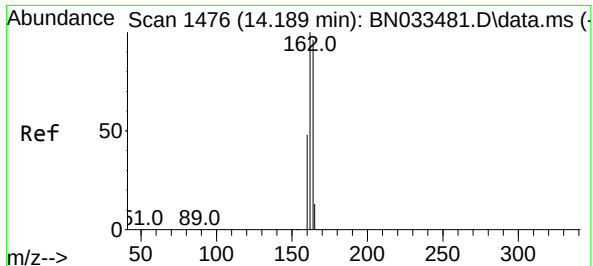
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#12
2-Methylnaphthalene
Concen: 0.398 ng
RT: 11.975 min Scan# 1161
Delta R.T. -0.004 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

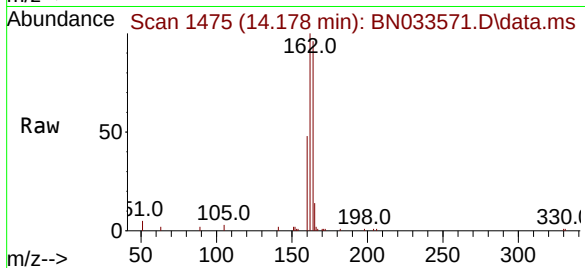
Tgt Ion:142 Resp: 13206
Ion Ratio Lower Upper
142 100
141 89.7 71.7 107.5
115 37.7 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1475
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

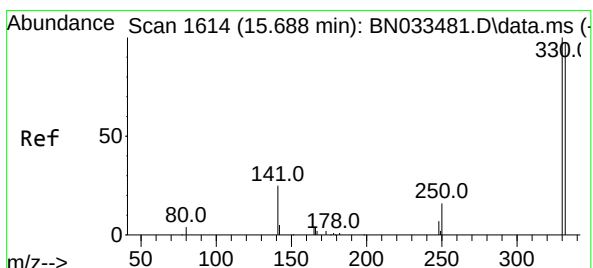
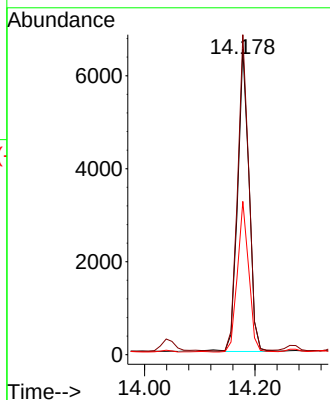
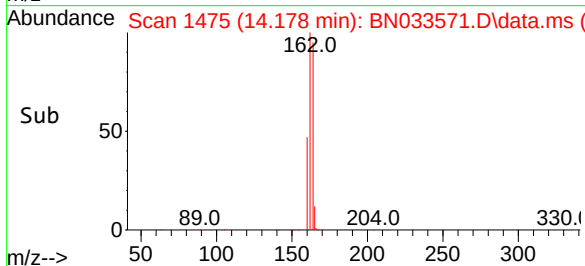
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



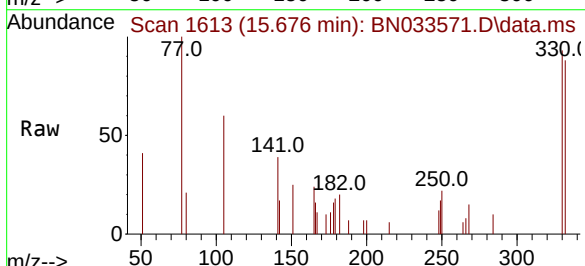
Tgt Ion:164 Resp: 9300
Ion Ratio Lower Upper
164 100
162 104.7 83.5 125.3
160 50.2 40.2 60.4

Manual Integrations
APPROVED

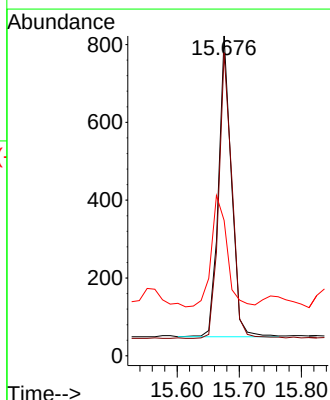
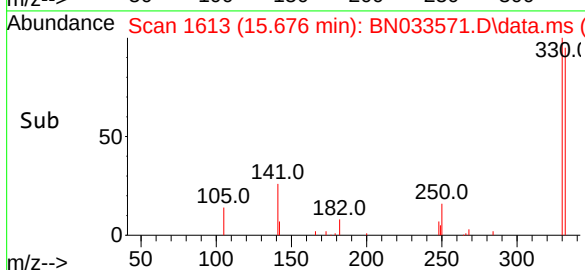
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

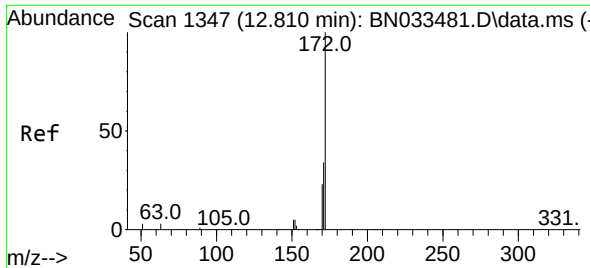


#14
2,4,6-Tribromophenol
Concen: 0.222 ng
RT: 15.676 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53



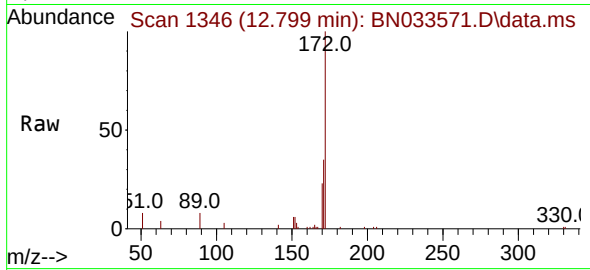
Tgt Ion:330 Resp: 1113
Ion Ratio Lower Upper
330 100
332 96.9 77.5 116.3
141 45.0 33.9 50.9





#15
2-Fluorobiphenyl
Concen: 0.224 ng
RT: 12.799 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

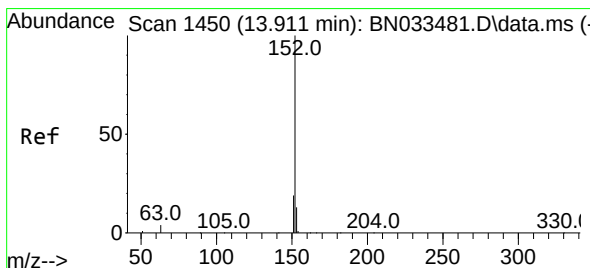
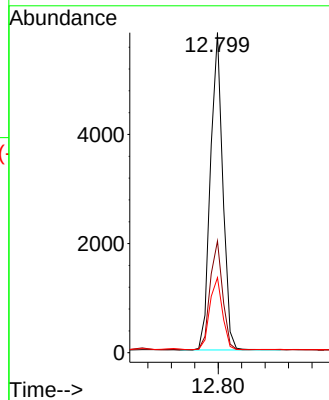
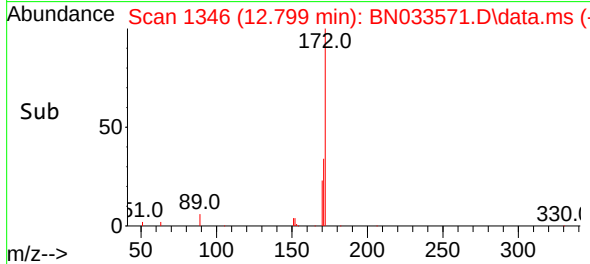
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



Tgt Ion:172 Resp: 852
Ion Ratio Lower Upper
172 100
171 34.9 27.7 41.5
170 23.4 18.3 27.5

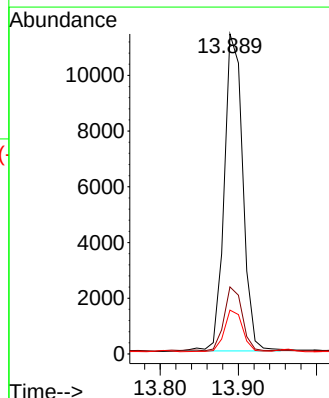
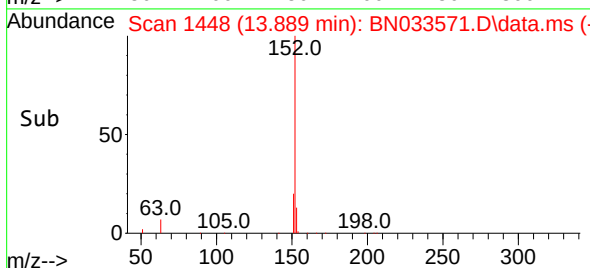
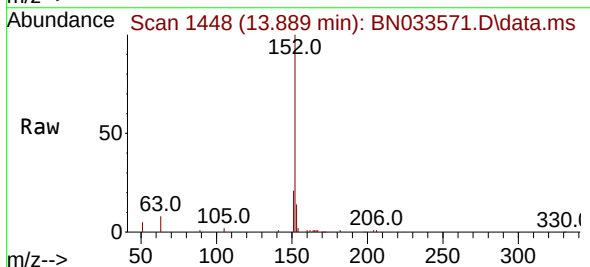
Manual Integrations
APPROVED

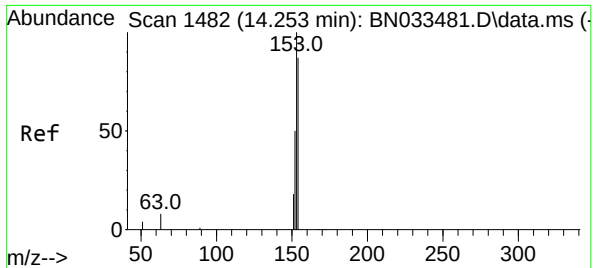
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#16
Acenaphthylene
Concen: 0.459 ng
RT: 13.889 min Scan# 1448
Delta R.T. -0.011 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

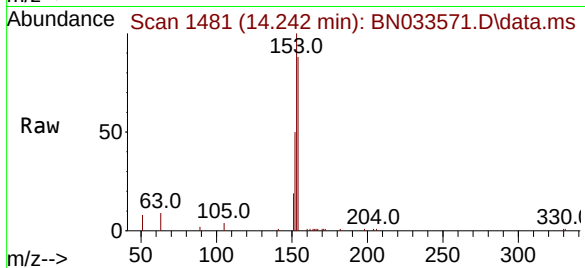
Tgt Ion:152 Resp: 18719
Ion Ratio Lower Upper
152 100
151 19.3 15.7 23.5
153 12.9 10.3 15.5





#17
Acenaphthene
Concen: 0.394 ng
RT: 14.242 min Scan# 1482
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

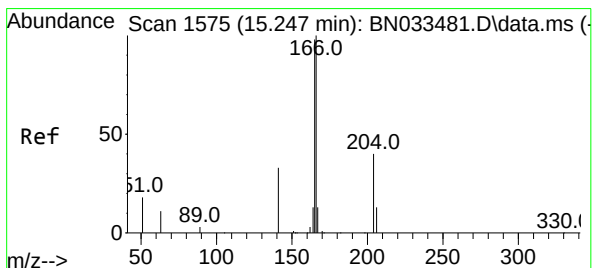
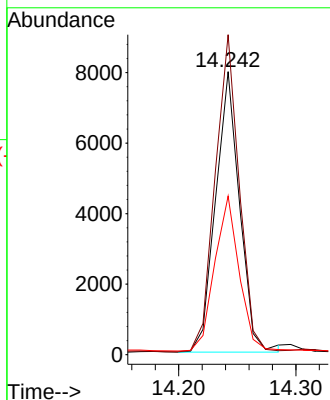
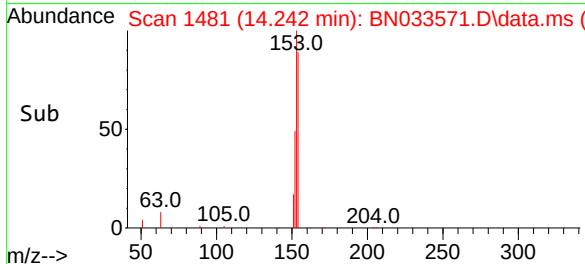
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



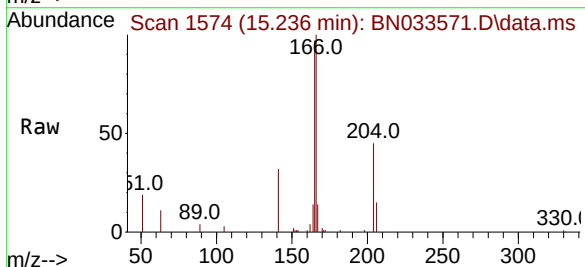
Tgt Ion:154 Resp: 11309
Ion Ratio Lower Upper
154 100
153 113.0 89.0 133.6
152 56.3 45.2 67.8

Manual Integrations
APPROVED

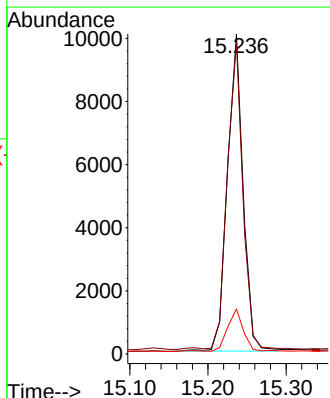
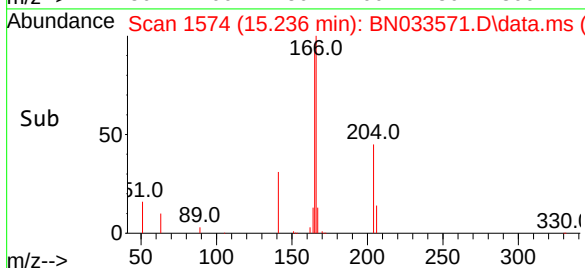
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

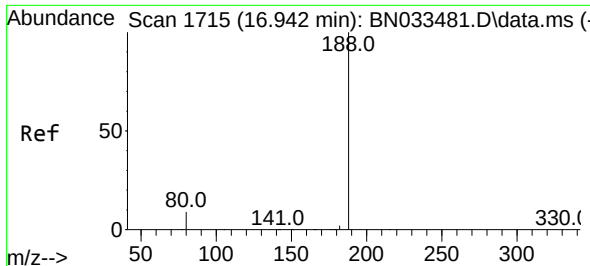


#18
Fluorene
Concen: 0.387 ng
RT: 15.236 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53



Tgt Ion:166 Resp: 14019
Ion Ratio Lower Upper
166 100
165 95.9 78.2 117.4
167 13.2 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.929 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033571.D

Acq: 23 Aug 2024 02:53

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924MS

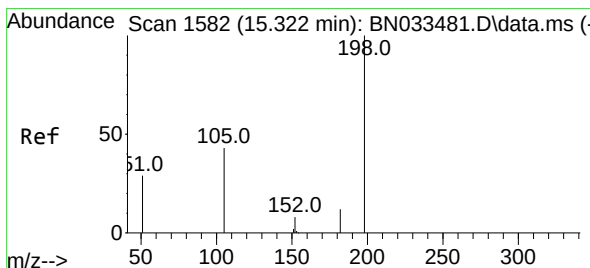
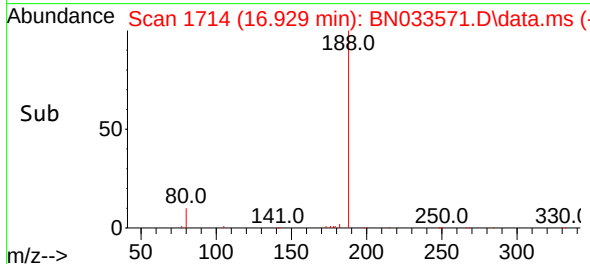
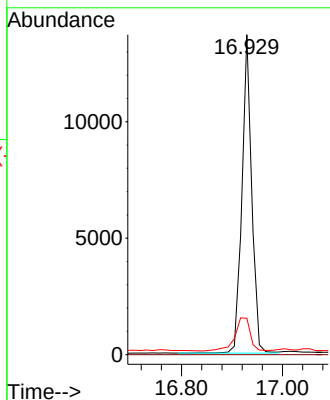
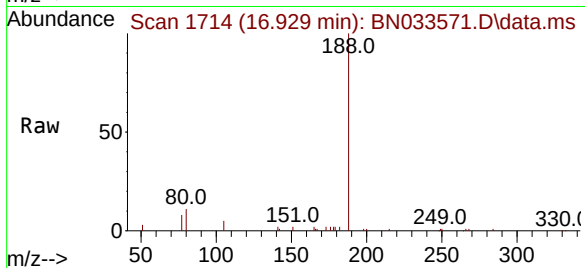
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.4	7.8	11.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.295 ng

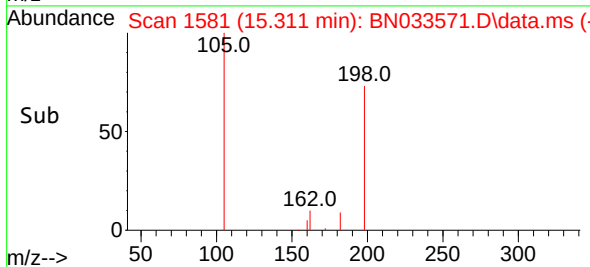
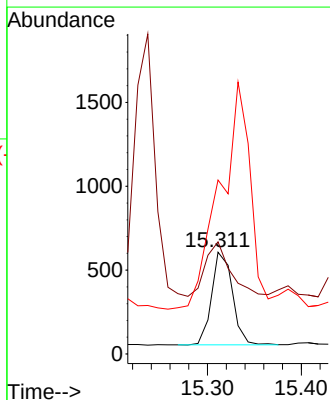
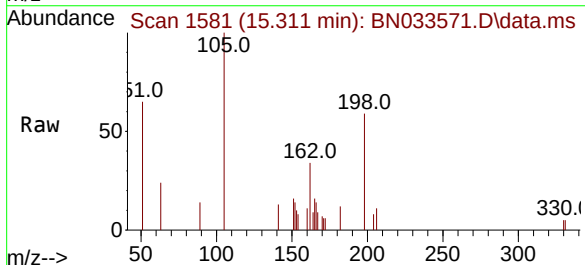
RT: 15.311 min Scan# 1581

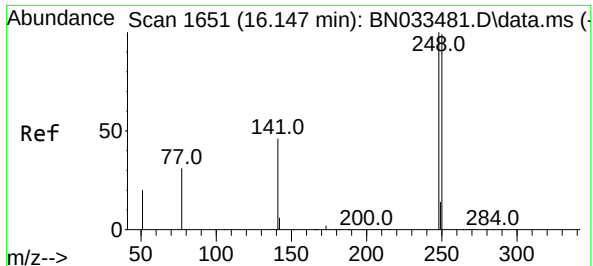
Delta R.T. -0.011 min

Lab File: BN033571.D

Acq: 23 Aug 2024 02:53

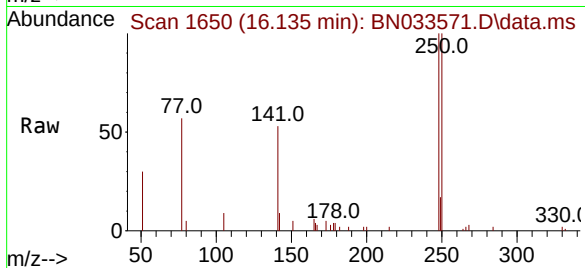
Tgt Ion	Ratio	Lower	Upper
198	100		
51	110.2	65.1	97.7#
105	170.8	44.8	67.2#





#21
4-Bromophenyl-phenylether
Concen: 0.374 ng
RT: 16.135 min Scan# 1650
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

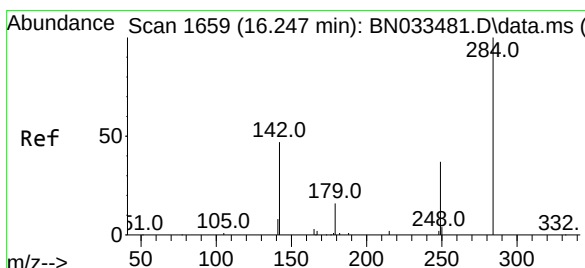
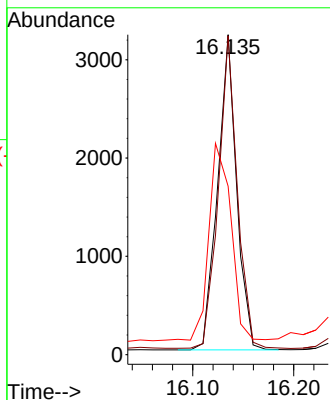
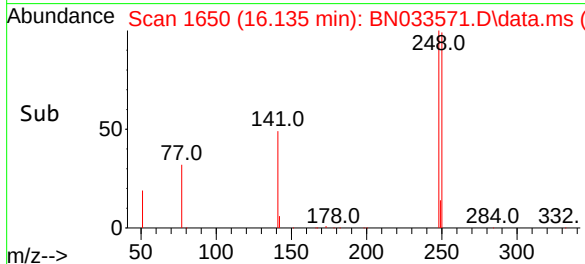
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



Tgt Ion: 248 Resp: 4194
Ion Ratio Lower Upper
248 100
250 99.6 79.2 118.8
141 52.6 37.9 56.9

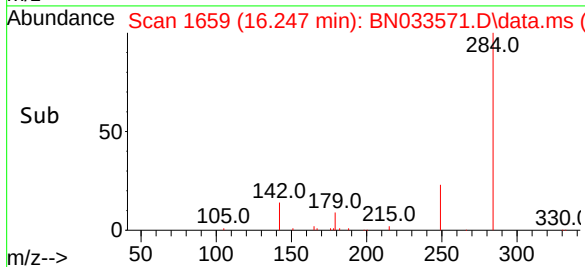
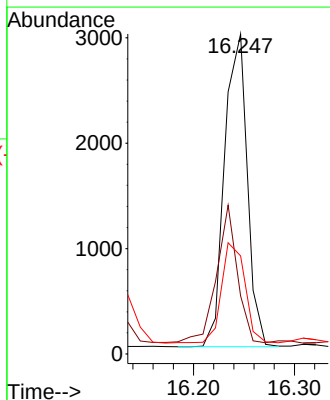
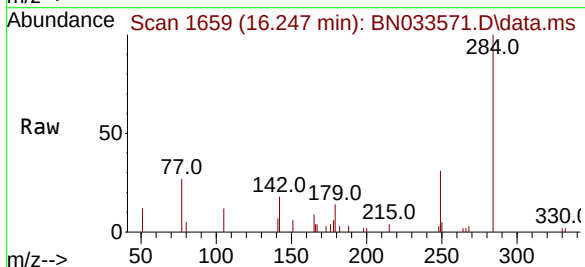
Manual Integrations
APPROVED

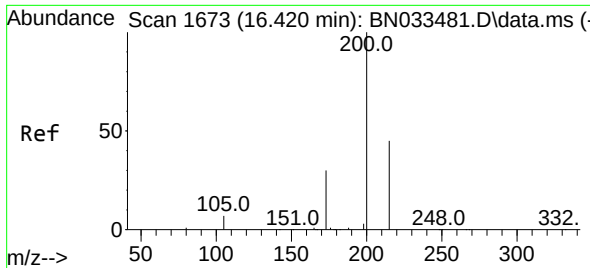
Reviewed By : Yogesh Patel 08/23/2024
Supervised By : mohammad ahmed 08/24/2024



#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

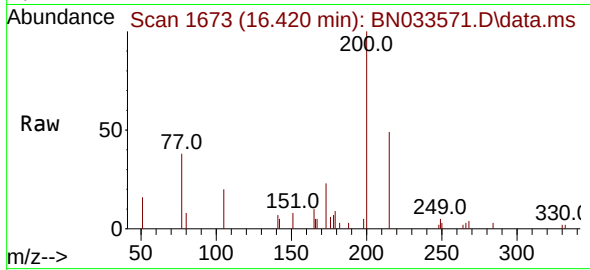
Tgt Ion: 284 Resp: 4644
Ion Ratio Lower Upper
284 100
142 40.0 31.8 47.6
249 33.1 26.0 39.0





#23
Atrazine
Concen: 0.397 ng
RT: 16.420 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

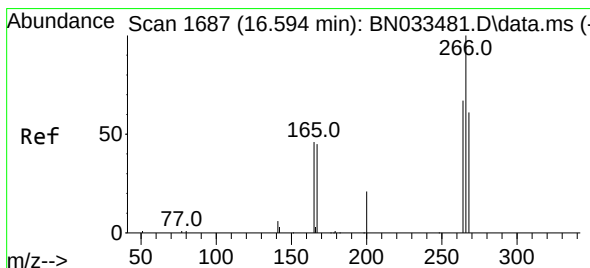
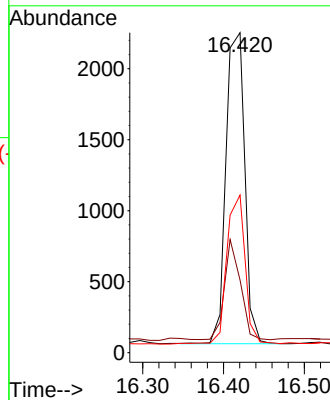
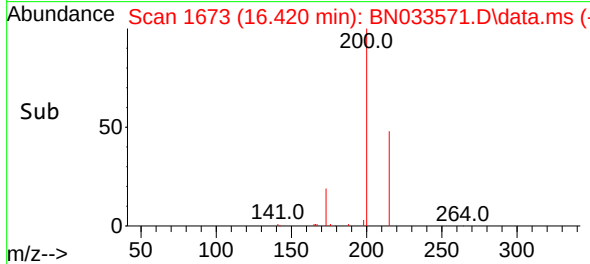
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



Tgt Ion:200 Resp: 3550
Ion Ratio Lower Upper
200 100
173 22.7 25.3 37.9
215 49.2 36.6 54.8

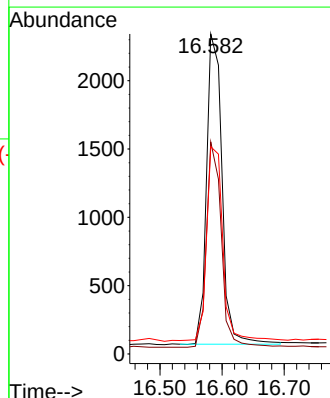
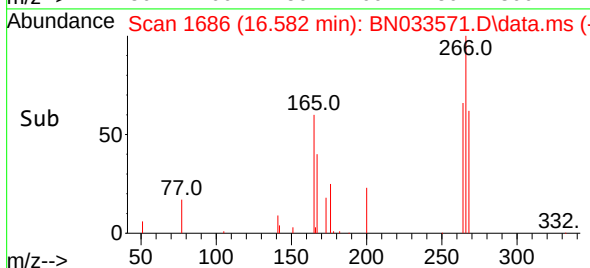
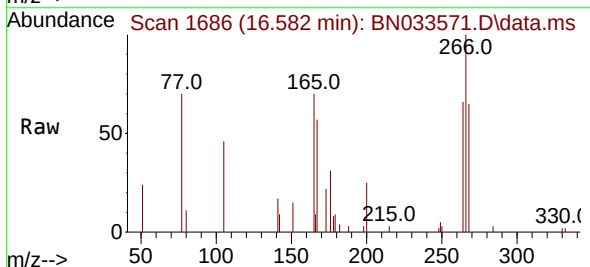
Manual Integrations
APPROVED

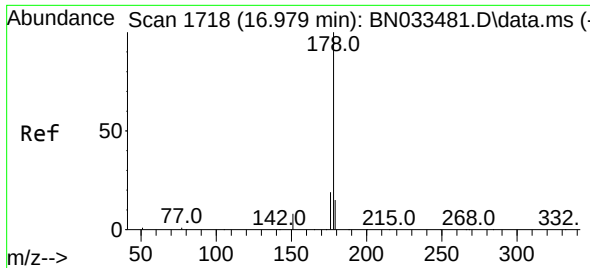
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#24
Pentachlorophenol
Concen: 0.732 ng
RT: 16.582 min Scan# 1686
Delta R.T. -0.013 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

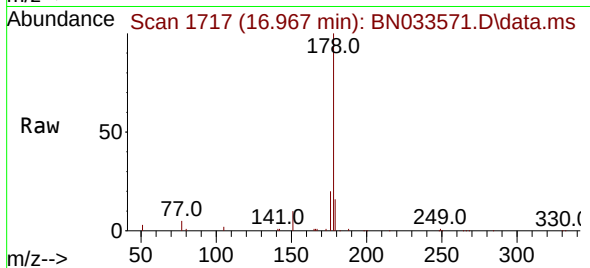
Tgt Ion:266 Resp: 3923
Ion Ratio Lower Upper
266 100
264 63.9 51.9 77.9
268 64.6 51.0 76.4





#25
Phenanthrene
Concen: 0.608 ng
RT: 16.967 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

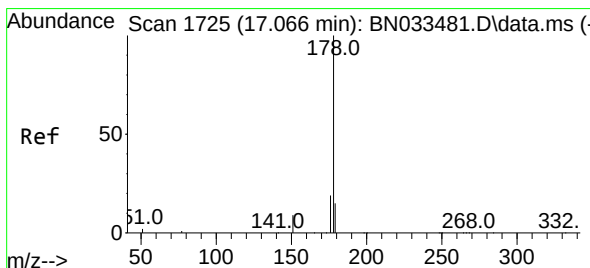
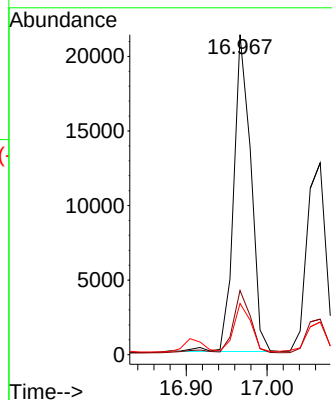
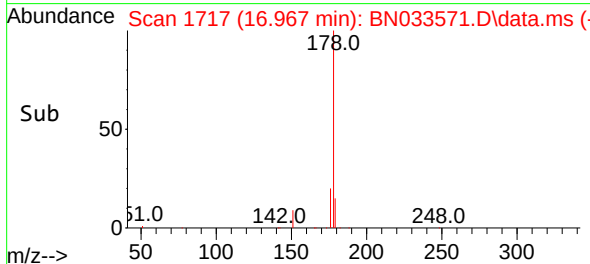
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



Tgt Ion:178 Resp: 3116
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.0 12.3 18.5

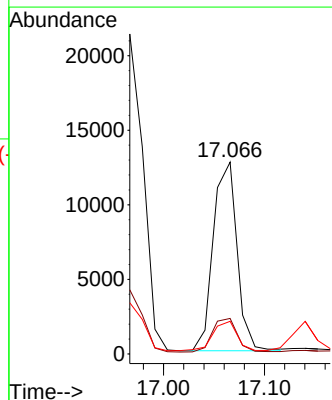
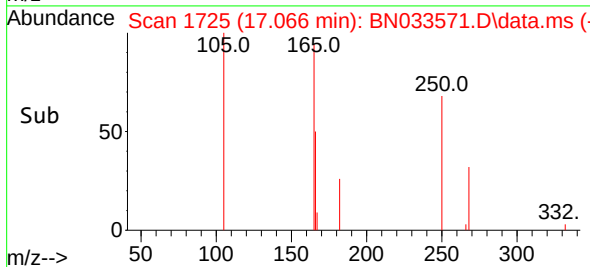
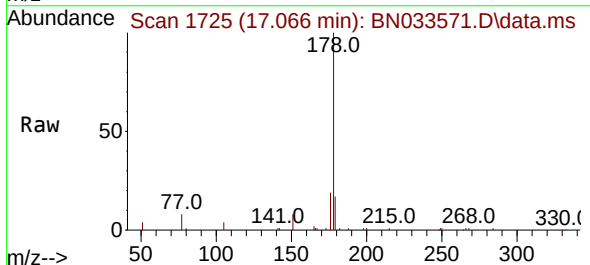
Manual Integrations
APPROVED

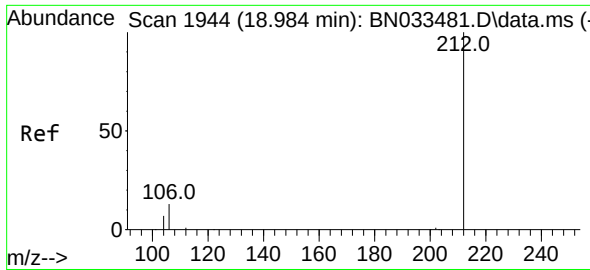
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#26
Anthracene
Concen: 0.458 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

Tgt Ion:178 Resp: 20769
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.6 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.188 ng

RT: 18.970 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN033571.D

Acq: 23 Aug 2024 02:53

Instrument :

BNA_N

ClientSampleId :

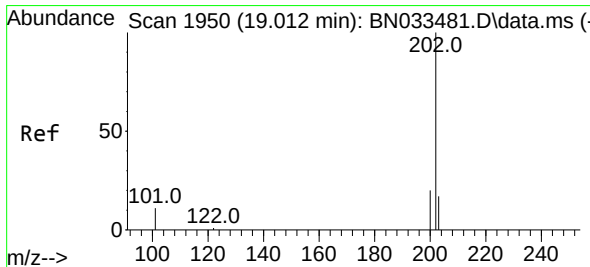
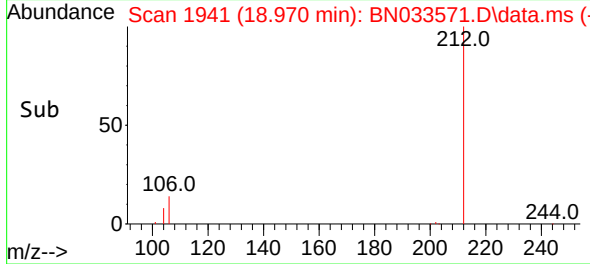
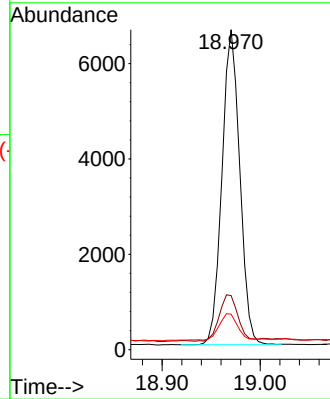
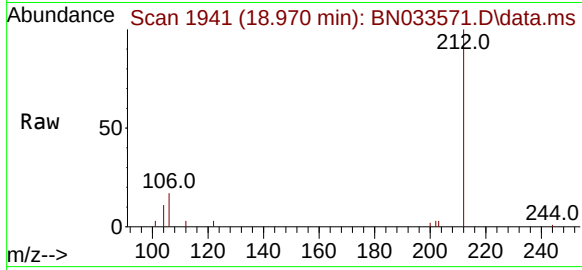
S-928-KI-SO-0.5-1-081924MS

Tgt Ion:	212	Resp:	8340
Ion Ratio	Lower	Upper	
212	100		
106	15.4	12.3	18.5
104	10.0	7.0	10.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#28

Fluoranthene

Concen: 0.875 ng

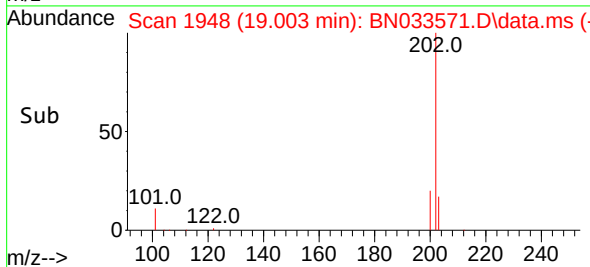
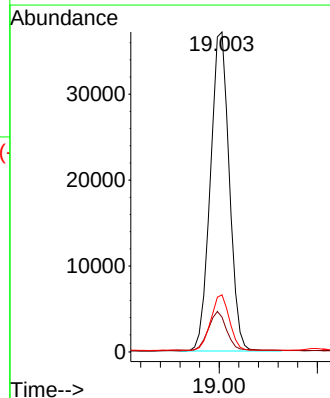
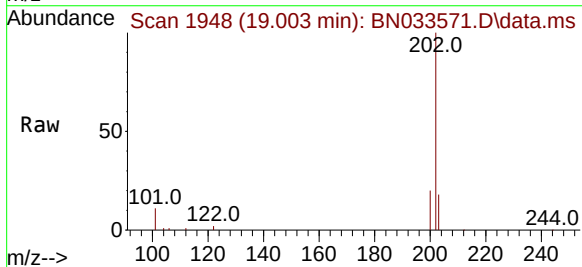
RT: 19.003 min Scan# 1948

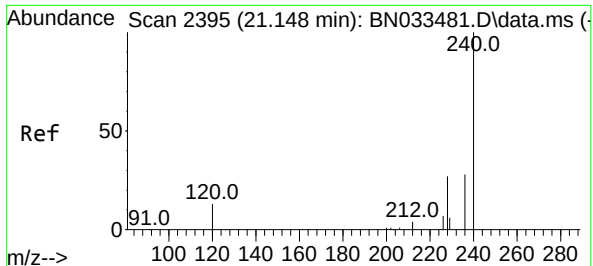
Delta R.T. -0.000 min

Lab File: BN033571.D

Acq: 23 Aug 2024 02:53

Tgt Ion:	202	Resp:	49606
Ion Ratio	Lower	Upper	
202	100		
101	12.2	9.5	14.3
203	17.2	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.130 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN033571.D

Acq: 23 Aug 2024 02:53

Instrument :

BNA_N

ClientSampleId :

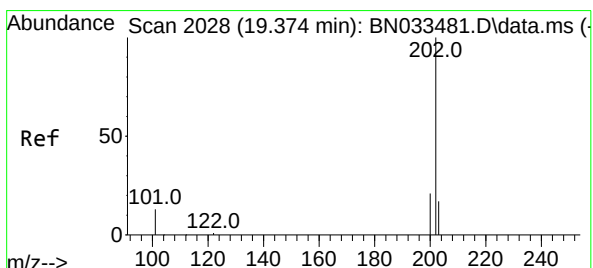
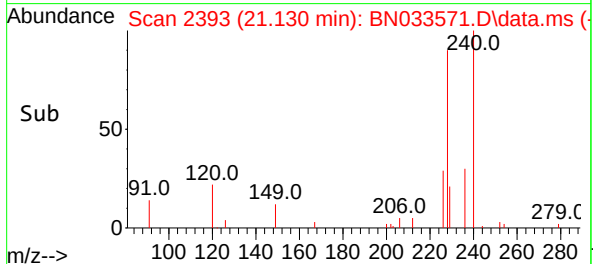
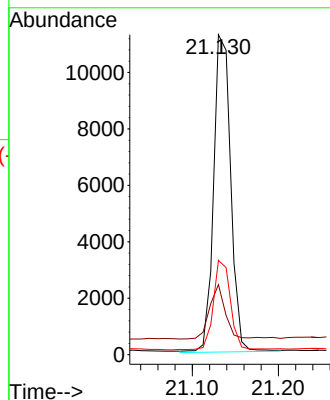
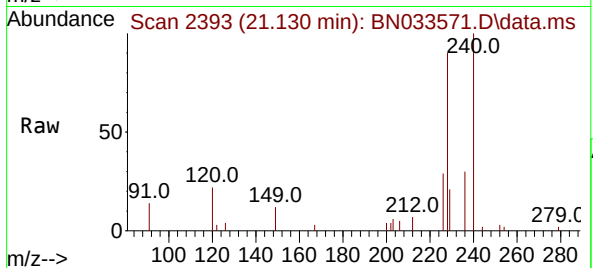
S-928-KI-SO-0.5-1-081924MS

Tgt Ion:	240	Resp:	1556
Ion Ratio	Lower	Upper	
240	100		
120	21.9	12.4	18.6
236	29.5	23.0	34.6

**Manual Integrations
APPROVED**

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#30

Pyrene

Concen: 0.680 ng

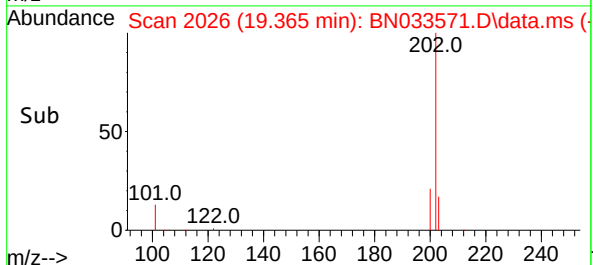
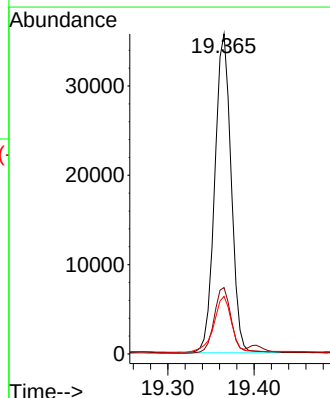
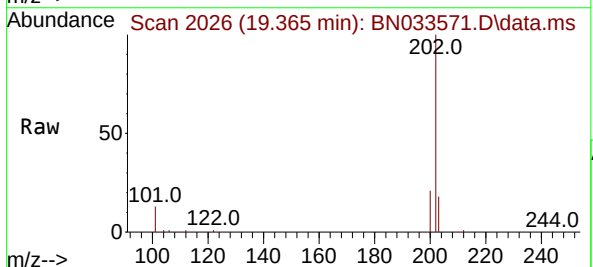
RT: 19.365 min Scan# 2026

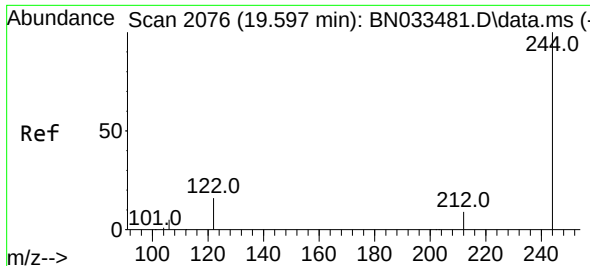
Delta R.T. -0.000 min

Lab File: BN033571.D

Acq: 23 Aug 2024 02:53

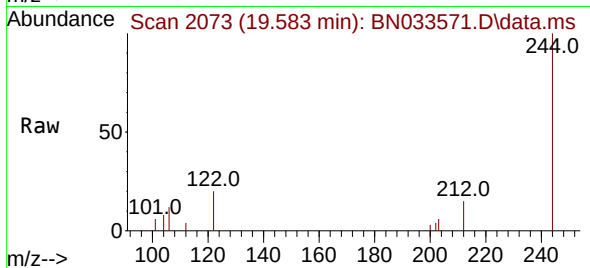
Tgt Ion:	202	Resp:	47212
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.6	24.8
203	19.0	14.2	21.4





#31
Terphenyl-d14
Concen: 0.163 ng
RT: 19.583 min Scan# 2076
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

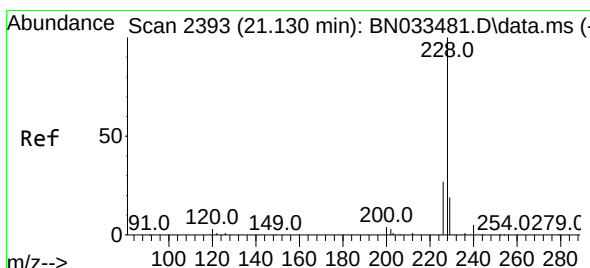
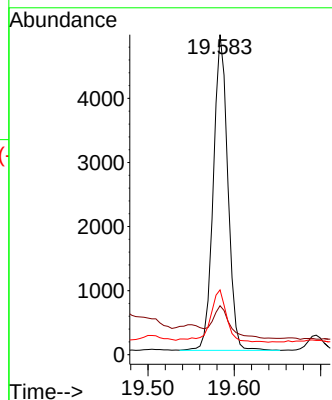
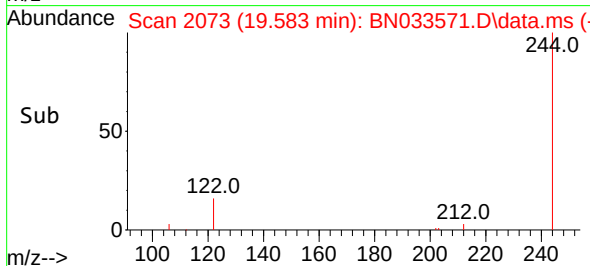
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



Tgt Ion:244 Resp: 5749
Ion Ratio Lower Upper
244 100
212 15.3 7.8 11.6
122 20.2 13.3 19.9

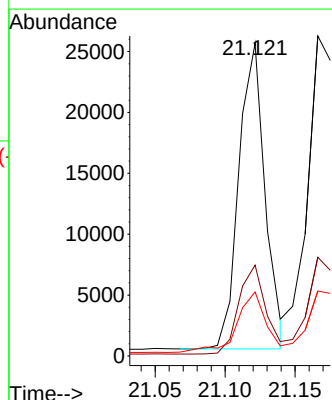
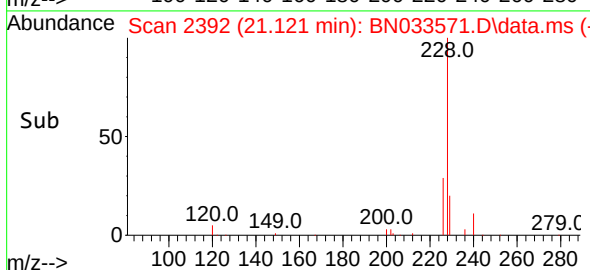
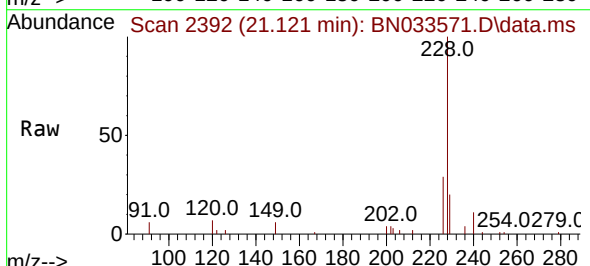
Manual Integrations
APPROVED

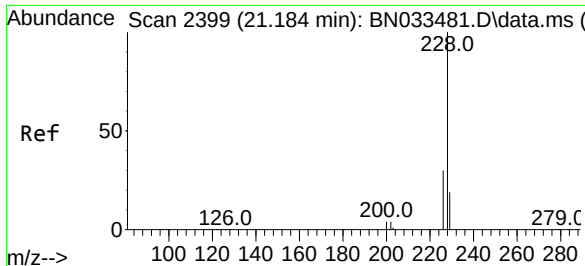
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#32
Benzo(a)anthracene
Concen: 0.580 ng
RT: 21.121 min Scan# 2392
Delta R.T. -0.000 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

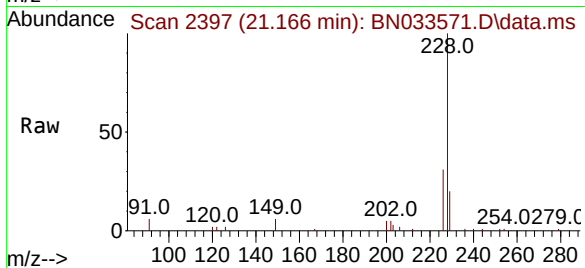
Tgt Ion:228 Resp: 32639
Ion Ratio Lower Upper
228 100
226 29.1 21.8 32.6
229 20.5 15.8 23.6





#33
Chrysene
Concen: 0.667 ng
RT: 21.166 min Scan# 21166
Delta R.T. -0.009 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

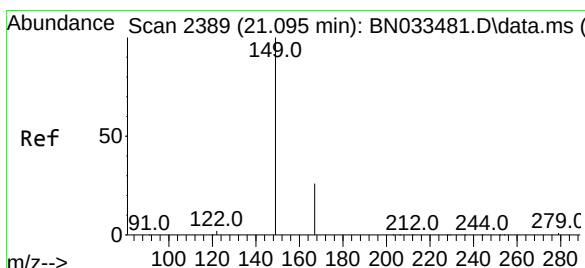
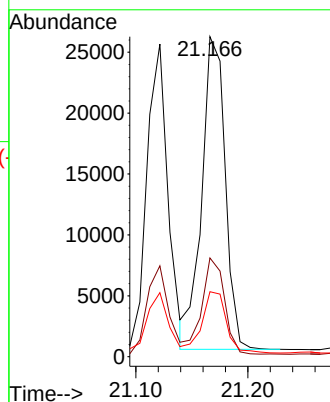
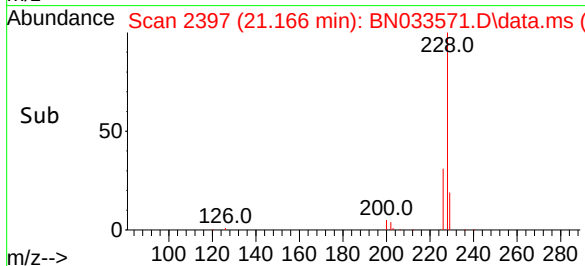
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MS



Tgt Ion: 228 Resp: 37338
Ion Ratio Lower Upper
228 100
226 30.9 23.8 35.8
229 20.3 15.6 23.4

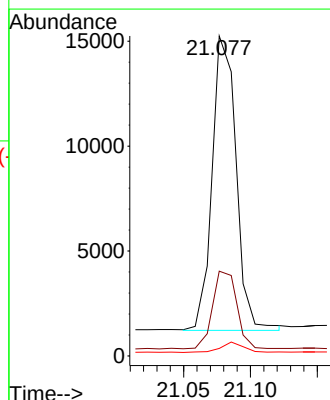
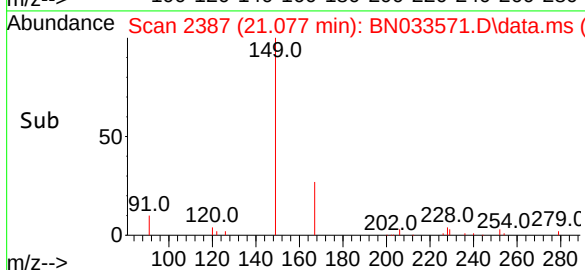
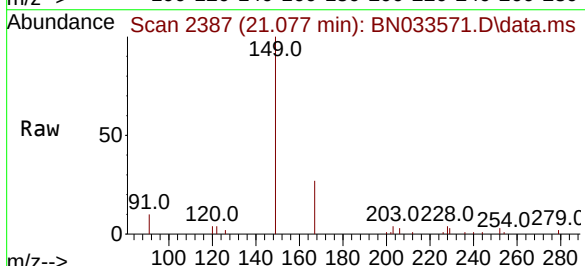
Manual Integrations
APPROVED

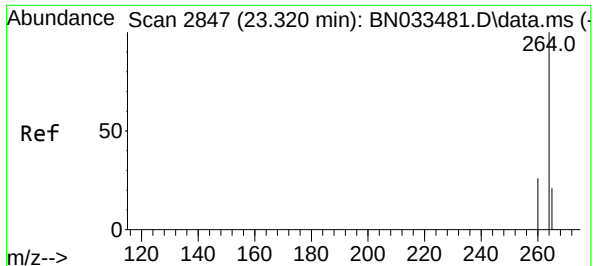
Reviewed By : Yogesh Patel 08/23/2024
Supervised By : mohammad ahmed 08/24/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.492 ng m
RT: 21.077 min Scan# 2387
Delta R.T. -0.009 min
Lab File: BN033571.D
Acq: 23 Aug 2024 02:53

Tgt Ion: 149 Resp: 17513
Ion Ratio Lower Upper
149 100
167 29.2 21.5 32.3
279 4.6 2.2 3.2#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.300 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033571.D

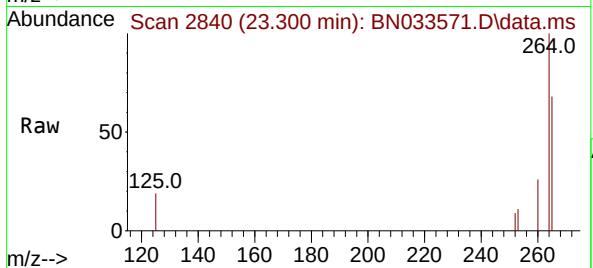
Acq: 23 Aug 2024 02:53

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924MS



Tgt Ion:264 Resp: 1707

Ion Ratio Lower Upper

264 100

260 26.5 20.8 31.2

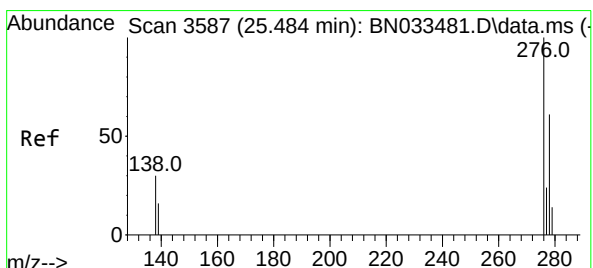
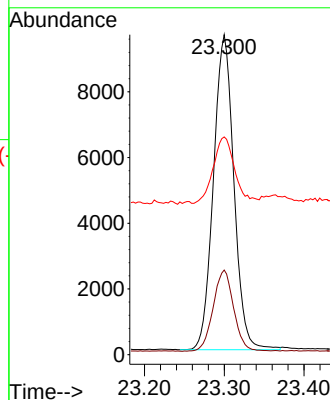
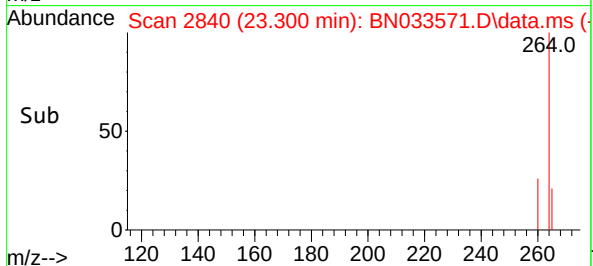
265 68.0 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.561 ng

RT: 25.446 min Scan# 3574

Delta R.T. -0.003 min

Lab File: BN033571.D

Acq: 23 Aug 2024 02:53

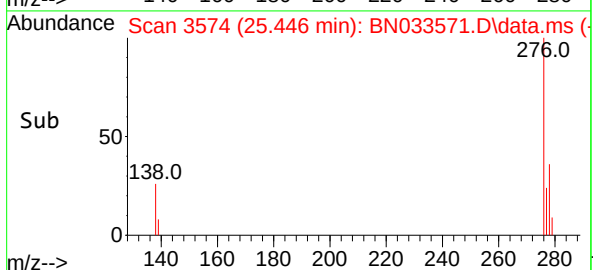
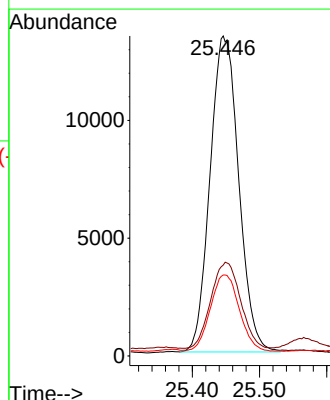
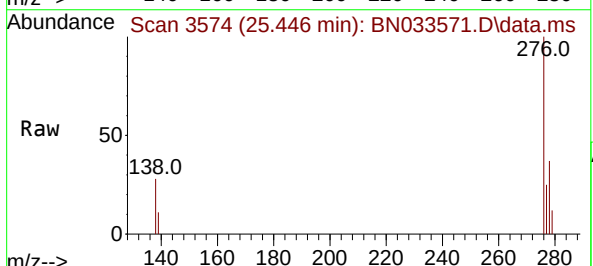
Tgt Ion:276 Resp: 39755

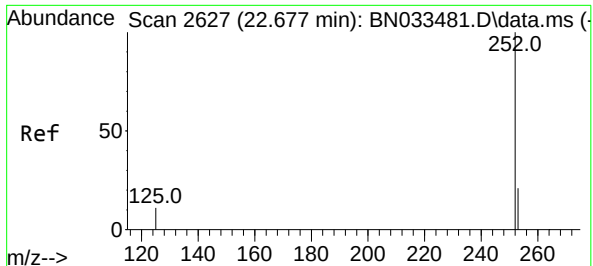
Ion Ratio Lower Upper

276 100

138 28.1 24.4 36.6

277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.699 ng

RT: 22.657 min Scan# 2620

Delta R.T. -0.003 min

Lab File: BN033571.D

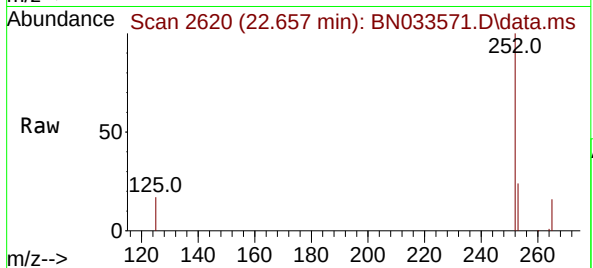
Acq: 23 Aug 2024 02:53

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924MS



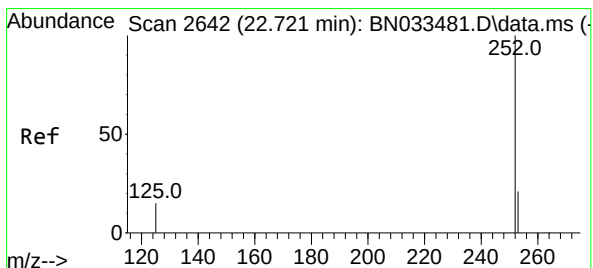
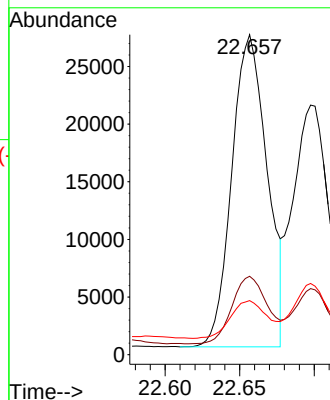
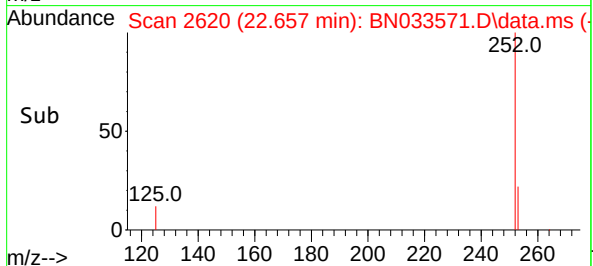
Tgt Ion:	252	Resp:	4455
Ion Ratio	Lower	Upper	
252	100		
253	24.5	19.8	29.8
125	16.9	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#38

Benzo(k)fluoranthene

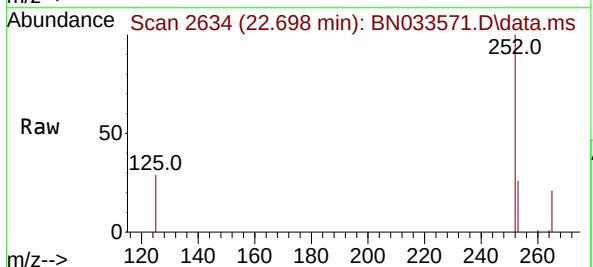
Concen: 0.562 ng m

RT: 22.698 min Scan# 2634

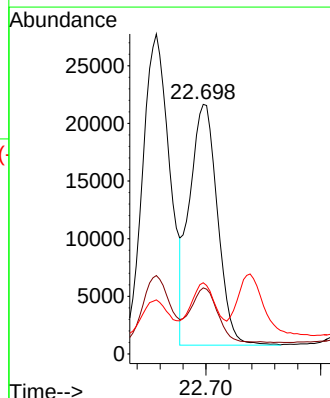
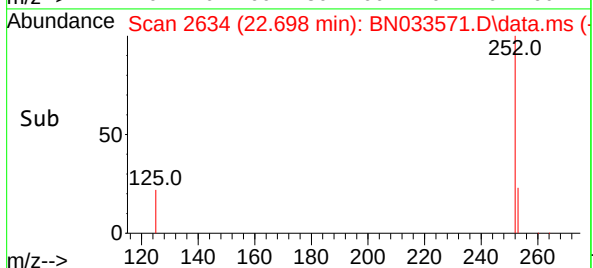
Delta R.T. -0.006 min

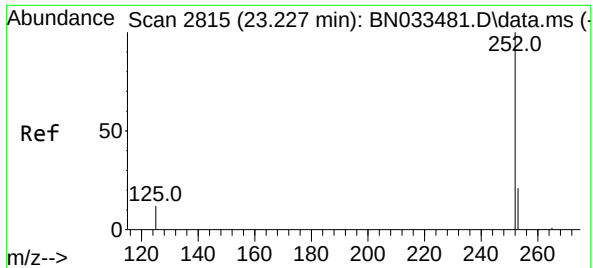
Lab File: BN033571.D

Acq: 23 Aug 2024 02:53



Tgt Ion:	252	Resp:	35269
Ion Ratio	Lower	Upper	
252	100		
253	26.4	19.8	29.8
125	28.5	15.8	23.8





#39

Benzo(a)pyrene

Concen: 0.664 ng

RT: 23.203 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN033571.D

Acq: 23 Aug 2024 02:53

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924MS

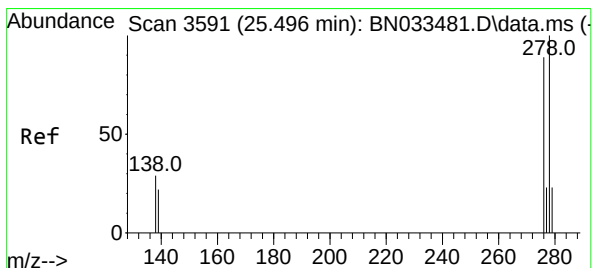
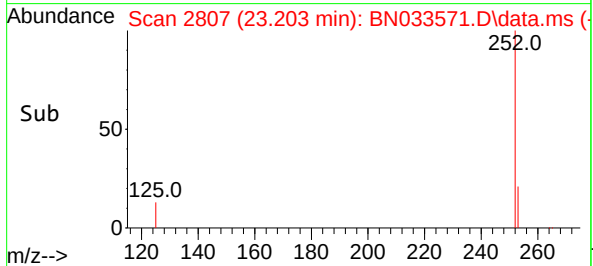
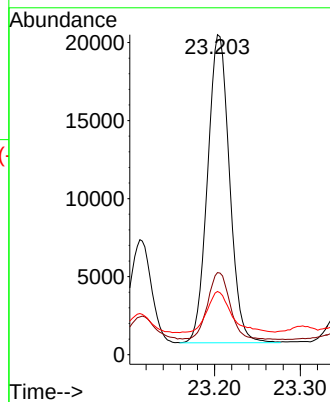
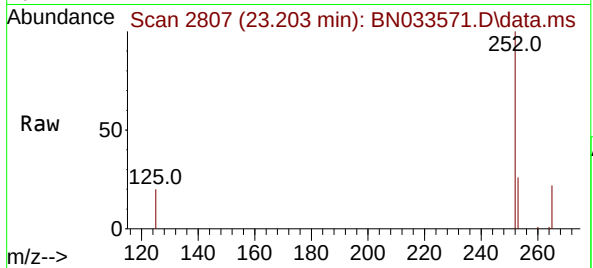
Tgt Ion:	252	Resp:	35050
Ion Ratio	Lower	Upper	
252	100		
253	25.7	21.5	32.3
125	19.8	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.433 ng

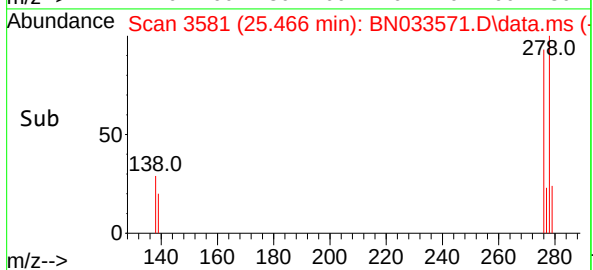
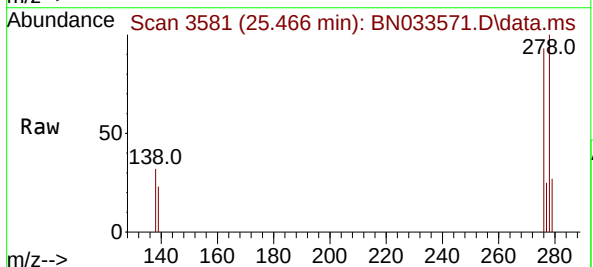
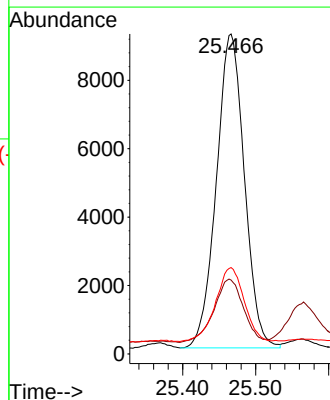
RT: 25.466 min Scan# 3581

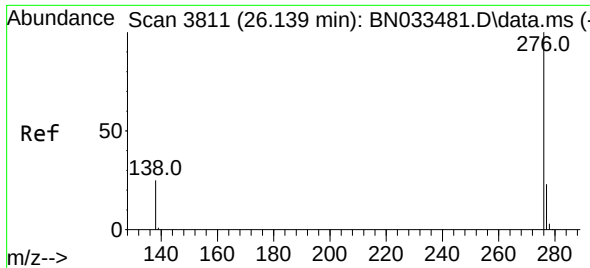
Delta R.T. -0.003 min

Lab File: BN033571.D

Acq: 23 Aug 2024 02:53

Tgt Ion:	278	Resp:	24536
Ion Ratio	Lower	Upper	
278	100		
139	23.1	19.1	28.7
279	27.0	21.0	31.4





#41

Benzo(g,h,i)perylene

Concen: 0.558 ng

RT: 26.101 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN033571.D

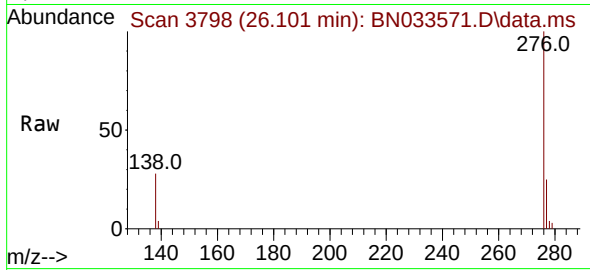
Acq: 23 Aug 2024 02:53

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924MS



Tgt Ion:276 Resp: 33814

Ion Ratio Lower Upper

276 100

277 24.8 19.7 29.5

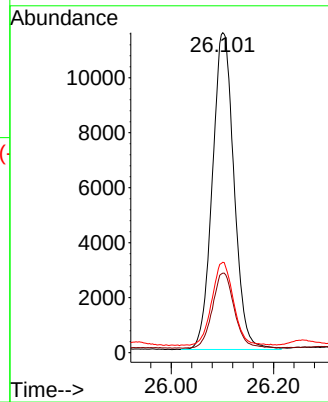
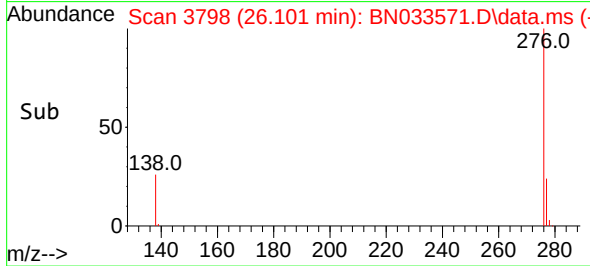
138 28.2 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924MSD	SDG No.:	P3671
Lab Sample ID:	P3671-10MSD	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	57.2
Sample Wt/Vol:	30.04 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033572.D	1	08/21/24 09:38	08/23/24 03:30	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	24.5		1.20	5.80	ug/Kg
91-57-6	2-Methylnaphthalene	24.1		1.40	5.80	ug/Kg
208-96-8	Acenaphthylene	27.9		1.10	5.80	ug/Kg
83-32-9	Acenaphthene	23.7		0.96	5.80	ug/Kg
86-73-7	Fluorene	23.4		1.00	5.80	ug/Kg
85-01-8	Phenanthrene	37.4		1.10	5.80	ug/Kg
120-12-7	Anthracene	28.2		1.40	5.80	ug/Kg
206-44-0	Fluoranthene	52.2		1.20	5.80	ug/Kg
129-00-0	Pyrene	41.3		1.70	5.80	ug/Kg
56-55-3	Benzo(a)anthracene	35.0		1.30	5.80	ug/Kg
218-01-9	Chrysene	40.8		1.50	5.80	ug/Kg
205-99-2	Benzo(b)fluoranthene	42.6		2.10	5.80	ug/Kg
207-08-9	Benzo(k)fluoranthene	32.3		1.70	5.80	ug/Kg
50-32-8	Benzo(a)pyrene	39.7		2.90	5.80	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.3		2.20	5.80	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	25.7		2.00	5.80	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33.3		2.00	5.80	ug/Kg
123-91-1	1,4-Dioxane	20.1		3.90	11.5	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.36		30 (17) - 150 (161)	91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.20		30 (23) - 150 (138)	49%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		30 (33) - 130 (121)	81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.23		30 (32) - 130 (121)	58%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.17		30 (21) - 130 (130)	43%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7610	7.545			
1146-65-2	Naphthalene-d8	20100	10.303			
15067-26-2	Acenaphthene-d10	9560	14.178			
1517-22-2	Phenanthrene-d10	18300	16.929			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924MSD	SDG No.:	P3671
Lab Sample ID:	P3671-10MSD	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	57.2
Sample Wt/Vol:	30.04 Units: g	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 :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033572.D	1	08/21/24 09:38	08/23/24 03:30	PB162880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	15100	21.139			
1520-96-3	Perylene-d12	16900	23.3			

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\BN082224\
 Data File : BN033572.D
 Acq On : 23 Aug 2024 03:30
 Operator : MA/JU
 Sample : P3671-10MSD
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-928-KI-SO-0.5-1-081924MSD

Quant Time: Aug 23 04:30:22 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 00:22:18 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/23/2024
 Supervised By :mohammad ahmed 08/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.545	152	7606	0.400	ng	0.00
7) Naphthalene-d8	10.303	136	20104	0.400	ng	0.00
13) Acenaphthene-d10	14.178	164	9559	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	18339	0.400	ng	0.00
29) Chrysene-d12	21.139	240	15128	0.400	ng	0.00
35) Perylene-d12	23.300	264	16860	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	6356	0.263	ng	0.00
5) Phenol-d6	6.736	99	7810	0.272	ng	0.00
8) Nitrobenzene-d5	8.681	82	5422	0.325	ng	0.00
11) 2-Methylnaphthalene-d10	11.899	152	10481m	0.364	ng	0.00
14) 2,4,6-Tribromophenol	15.676	330	1188	0.231	ng	0.00
15) 2-Fluorobiphenyl	12.799	172	9105	0.233	ng	0.00
27) Fluoranthene-d10	18.970	212	8580	0.195	ng	0.00
31) Terphenyl-d14	19.583	244	5867	0.171	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.183	88	3023	0.345	ng	# 51
3) n-Nitrosodimethylamine	3.471	42	4170	0.410	ng	# 94
6) bis(2-Chloroethyl)ether	6.981	93	8948	0.439	ng	100
9) Naphthalene	10.357	128	22643	0.421	ng	100
10) Hexachlorobutadiene	10.656	225	4201	0.392	ng	# 99
12) 2-Methylnaphthalene	11.975	142	14074	0.414	ng	100
16) Acenaphthylene	13.889	152	20098	0.479	ng	99
17) Acenaphthene	14.242	154	12044	0.408	ng	99
18) Fluorene	15.236	166	14948	0.402	ng	98
20) 4,6-Dinitro-2-methylph...	15.311	198	898	0.314	ng	# 12
21) 4-Bromophenyl-phenylether	16.135	248	4449	0.399	ng	97
22) Hexachlorobenzene	16.246	284	4872	0.396	ng	98
23) Atrazine	16.408	200	3710	0.417	ng	96
24) Pentachlorophenol	16.582	266	4153	0.779	ng	98
25) Phenanthrene	16.966	178	32765	0.642	ng	99
26) Anthracene	17.066	178	21844	0.484	ng	99
28) Fluoranthene	18.998	202	50573	0.897	ng	100
30) Pyrene	19.365	202	47906	0.710	ng	98
32) Benzo(a)anthracene	21.121	228	32894	0.601	ng	98
33) Chrysene	21.166	228	38136	0.701	ng	98
34) Bis(2-ethylhexyl)phtha...	21.085	149	18178m	0.525	ng	
36) Indeno(1,2,3-cd)pyrene	25.449	276	40063	0.572	ng	98
37) Benzo(b)fluoranthene	22.657	252	46095	0.732	ng	100
38) Benzo(k)fluoranthene	22.700	252	34375m	0.555	ng	
39) Benzo(a)pyrene	23.206	252	35585	0.683	ng	97
40) Dibenzo(a,h)anthracene	25.469	278	24745	0.442	ng	98
41) Benzo(g,h,i)perylene	26.104	276	34247	0.572	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082224\
Data File : BN033572.D
Acq On : 23 Aug 2024 03:30
Operator : MA/JU
Sample : P3671-10MSD
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924MSD

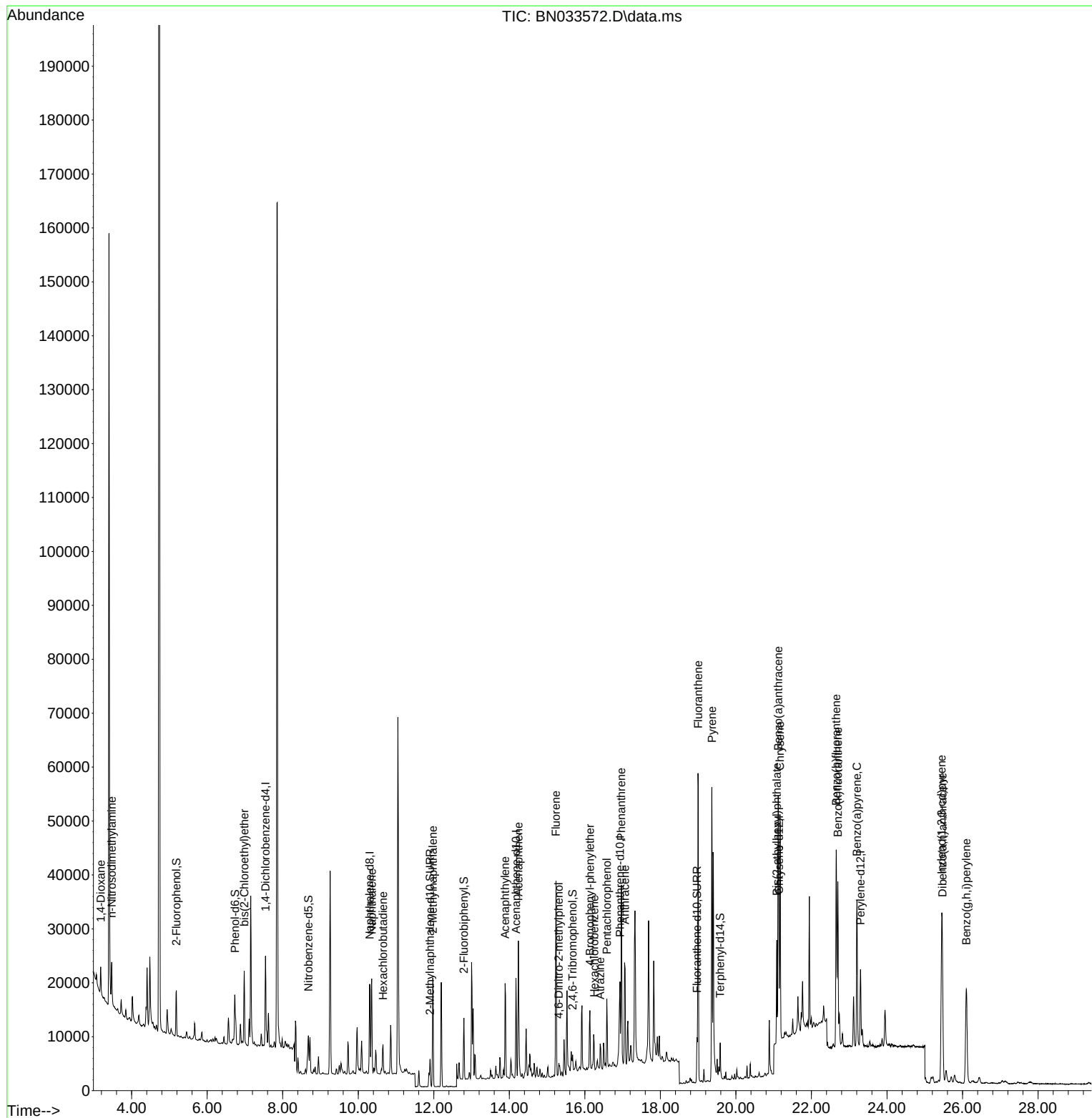
Manual Integrations

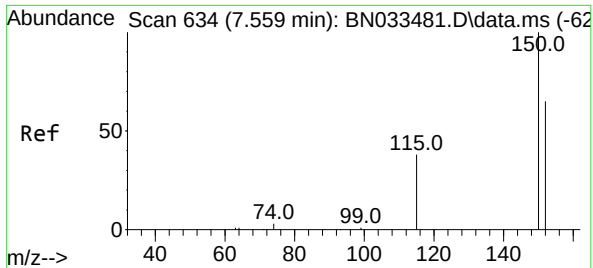
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024

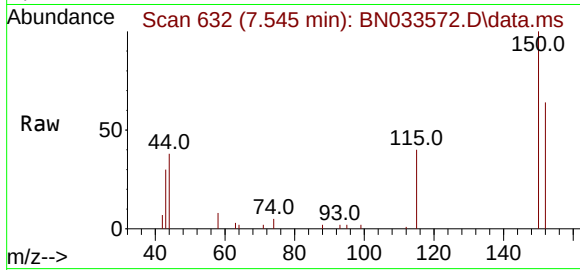
Quant Time: Aug 23 04:30:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 00:22:18 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.545 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

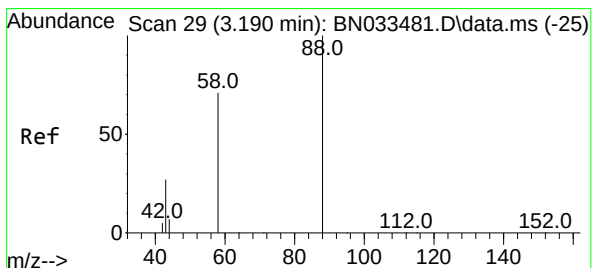
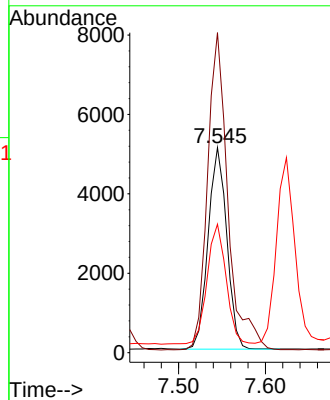
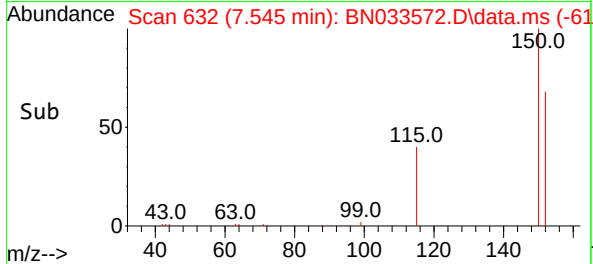
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



Tgt Ion:152 Resp: 7600
Ion Ratio Lower Upper
152 100
150 156.0 122.2 183.2
115 62.7 47.2 70.8

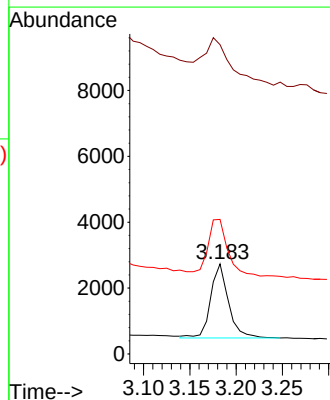
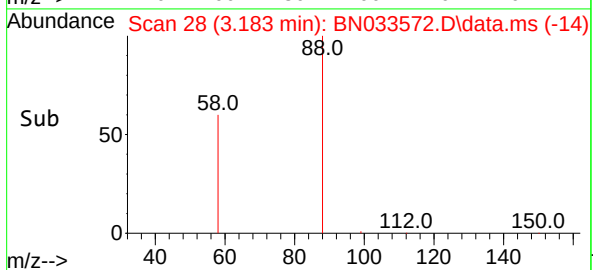
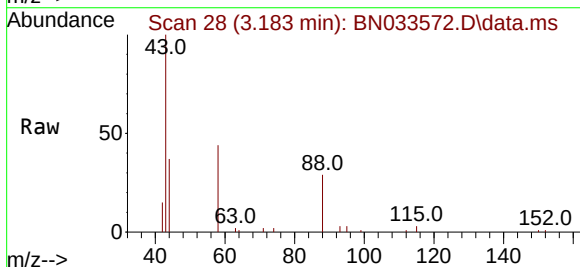
Manual Integrations
APPROVED

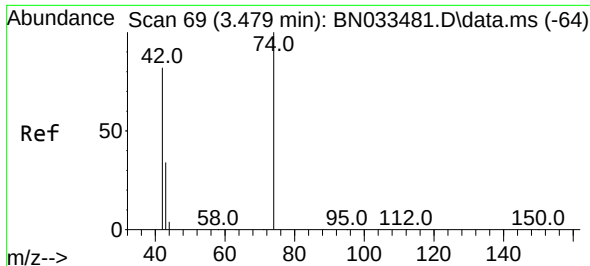
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#2
1,4-Dioxane
Concen: 0.345 ng
RT: 3.183 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

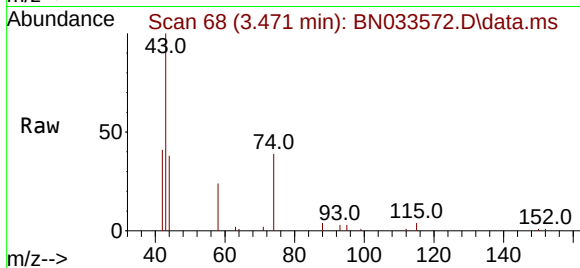
Tgt Ion: 88 Resp: 3023
Ion Ratio Lower Upper
88 100
43 105.9 25.0 37.4#
58 90.8 62.5 93.7





#3
n-Nitrosodimethylamine
Concen: 0.410 ng
RT: 3.471 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

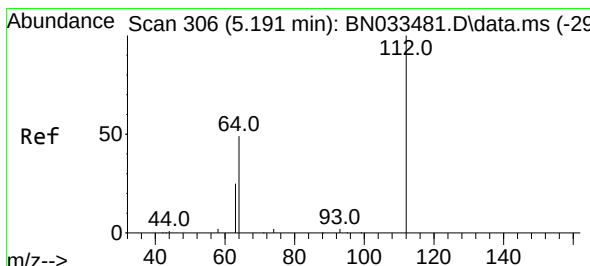
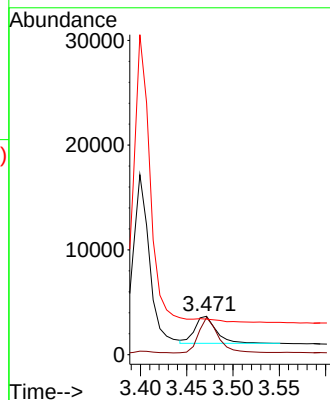
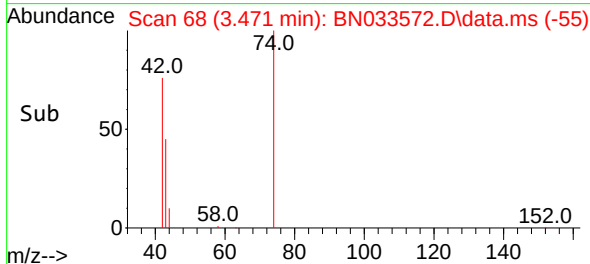
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



Tgt Ion: 42 Resp: 4170
Ion Ratio Lower Upper
42 100
74 119.0 100.2 150.2
44 0.0 5.3 7.9

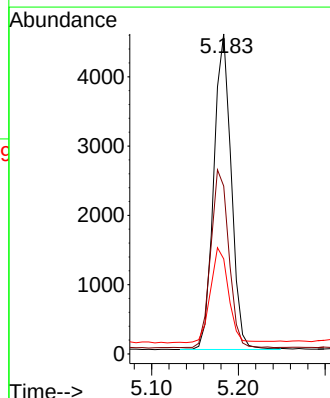
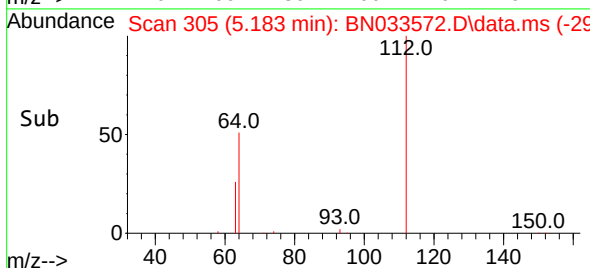
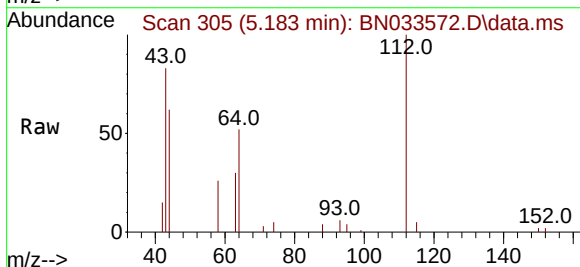
Manual Integrations
APPROVED

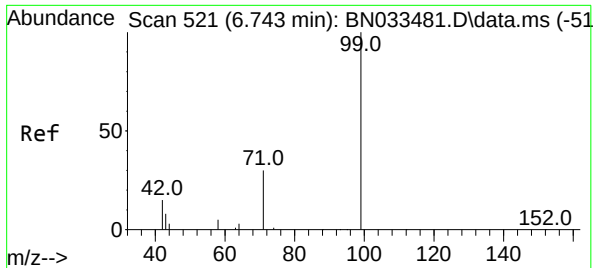
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#4
2-Fluorophenol
Concen: 0.263 ng
RT: 5.183 min Scan# 305
Delta R.T. 0.007 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

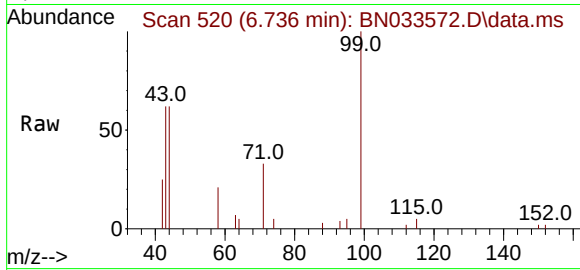
Tgt Ion:112 Resp: 6356
Ion Ratio Lower Upper
112 100
64 58.9 47.1 70.7
63 31.3 24.9 37.3





#5
Phenol-d6
Concen: 0.272 ng
RT: 6.736 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

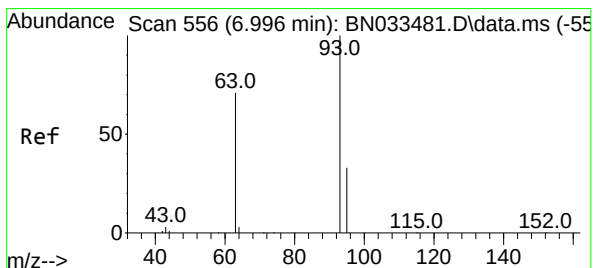
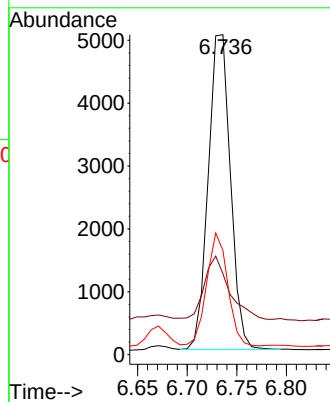
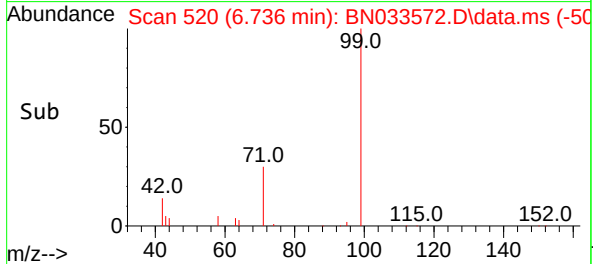
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



Tgt Ion: 99 Resp: 7810
Ion Ratio Lower Upper
99 100
42 23.1 16.6 24.8
71 33.9 26.2 39.4

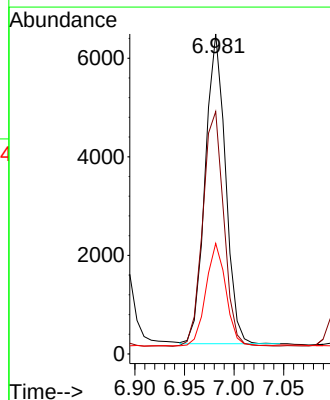
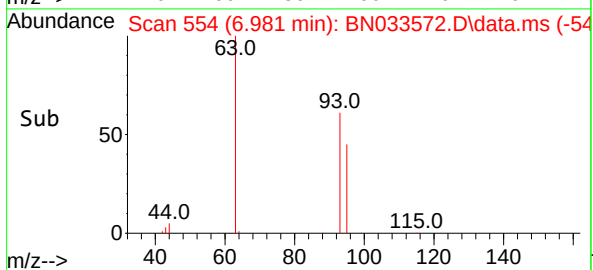
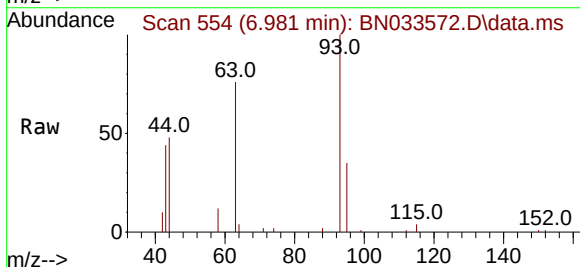
Manual Integrations
APPROVED

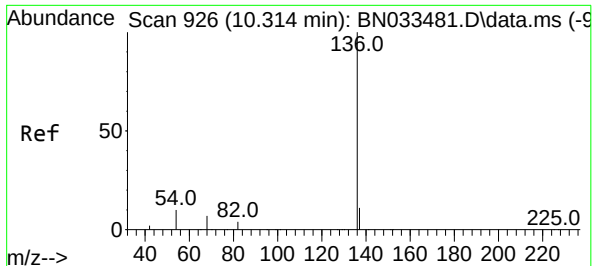
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.439 ng
RT: 6.981 min Scan# 554
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

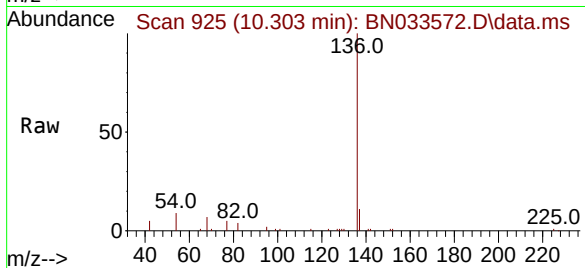
Tgt Ion: 93 Resp: 8948
Ion Ratio Lower Upper
93 100
63 78.6 63.0 94.4
95 33.0 26.0 39.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.303 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

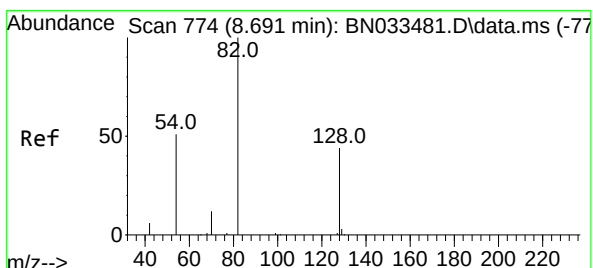
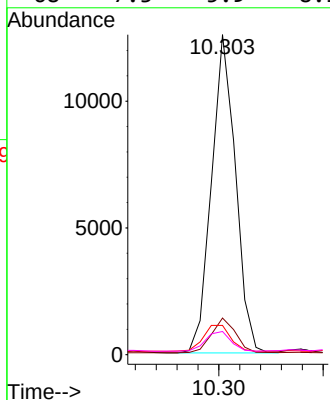
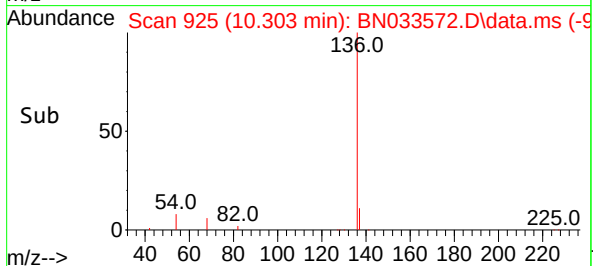
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



Tgt Ion:136 Resp: 20104
Ion Ratio Lower Upper
136 100
137 11.5 9.0 13.6
54 9.2 8.3 12.5
68 7.3 5.9 8.9

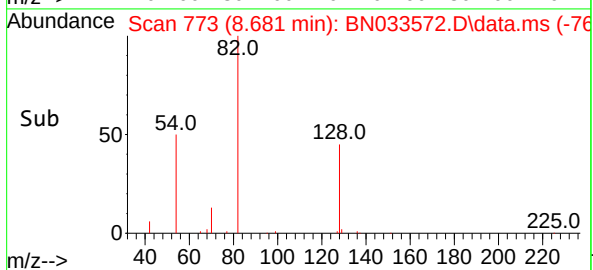
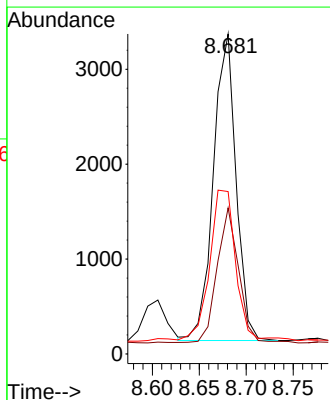
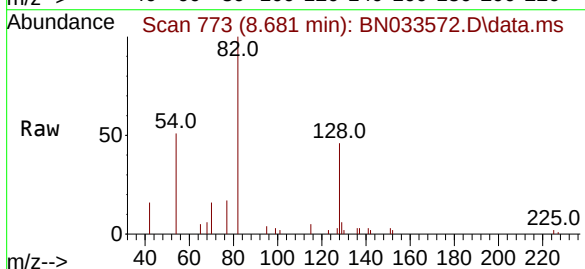
Manual Integrations
APPROVED

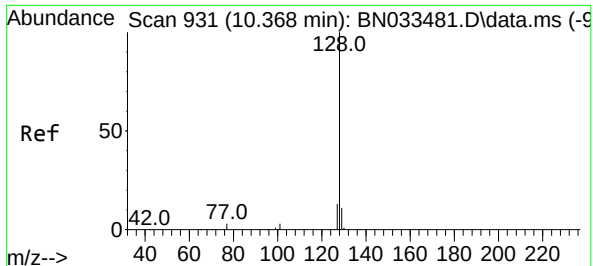
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.681 min Scan# 773
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

Tgt Ion: 82 Resp: 5422
Ion Ratio Lower Upper
82 100
128 45.7 36.0 54.0
54 50.7 42.0 63.0





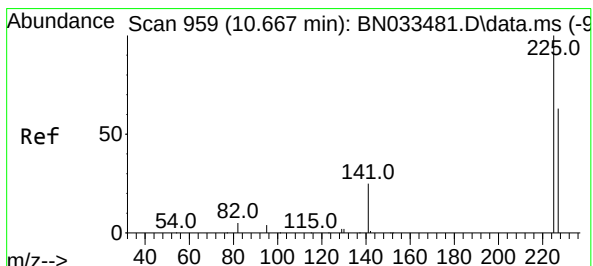
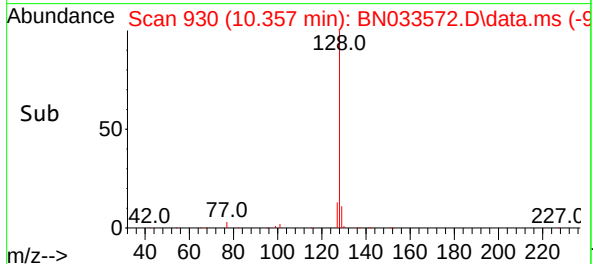
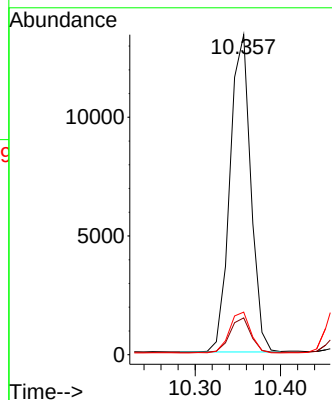
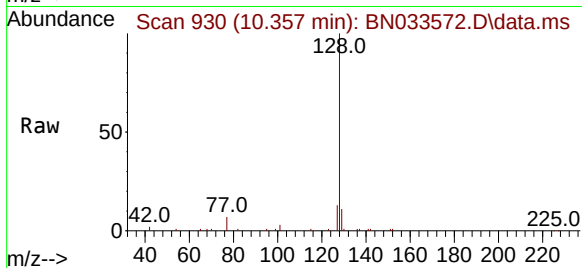
#9
Naphthalene
Concen: 0.421 ng
RT: 10.357 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD

Tgt Ion:128 Resp: 2264
Ion Ratio Lower Upper
128 100
129 11.5 9.1 13.7
127 13.3 10.7 16.1

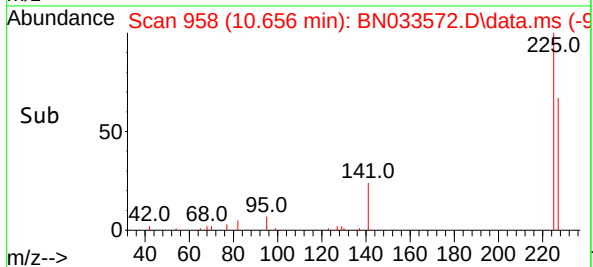
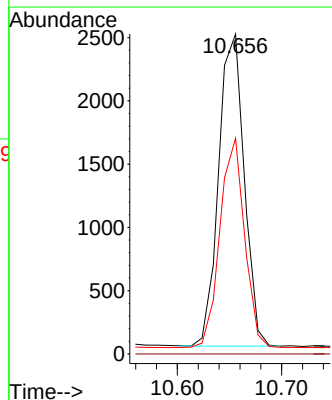
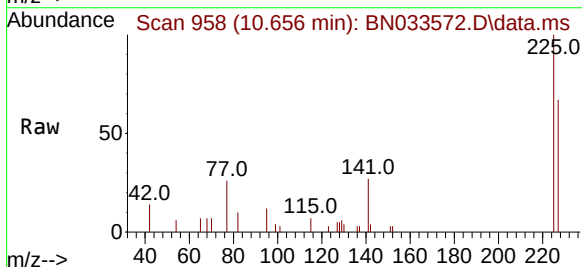
Manual Integrations
APPROVED

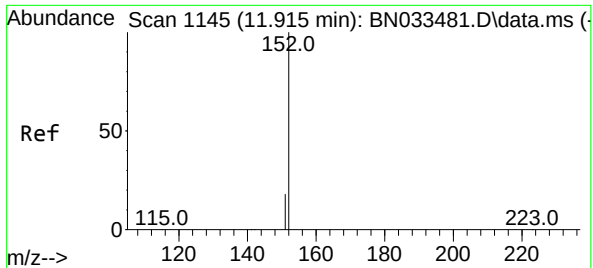
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#10
Hexachlorobutadiene
Concen: 0.392 ng
RT: 10.656 min Scan# 958
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

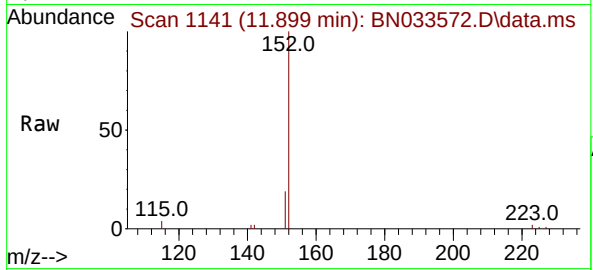
Tgt Ion:225 Resp: 4201
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.5 51.2 76.8





#11
2-Methylnaphthalene-d10
Concen: 0.364 ng m
RT: 11.899 min Scan# 1141
Delta R.T. -0.004 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

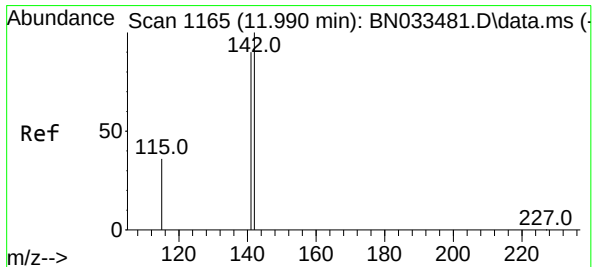
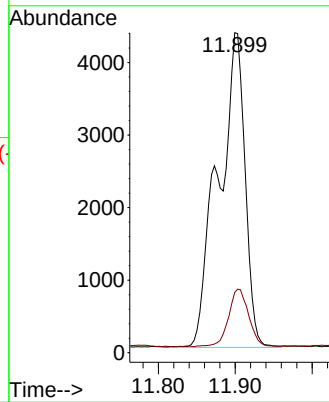
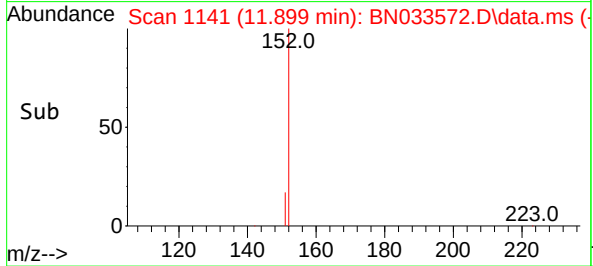
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



Tgt Ion:152 Resp: 1048
Ion Ratio Lower Upper
152 100
151 13.8 16.6 25.0

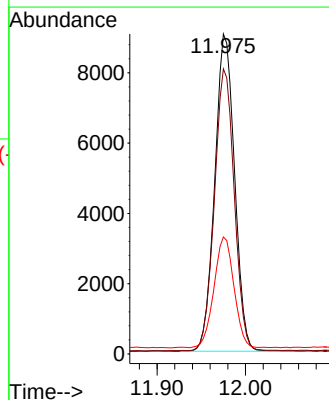
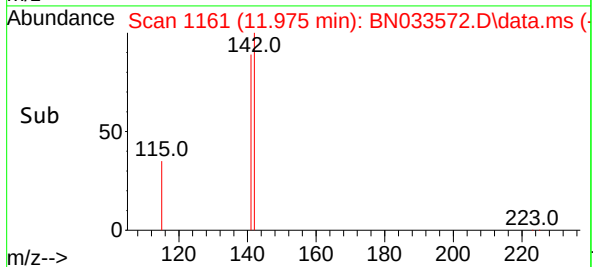
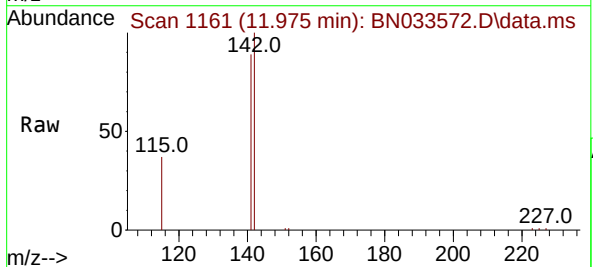
Manual Integrations
APPROVED

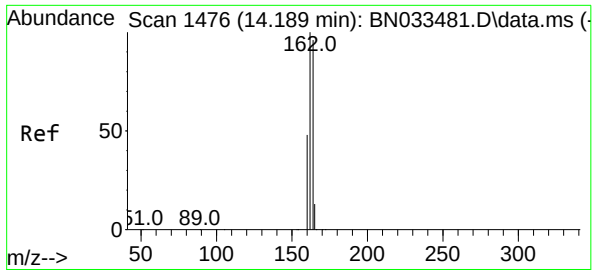
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#12
2-Methylnaphthalene
Concen: 0.414 ng
RT: 11.975 min Scan# 1161
Delta R.T. -0.004 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

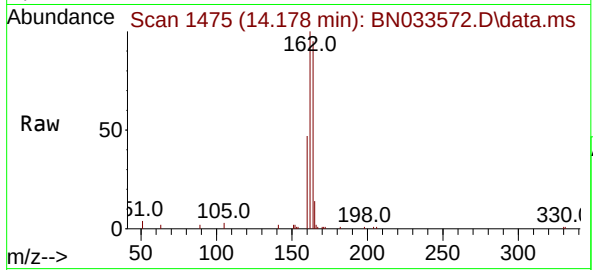
Tgt Ion:142 Resp: 14074
Ion Ratio Lower Upper
142 100
141 89.1 71.7 107.5
115 36.6 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.178 min Scan# 1475
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

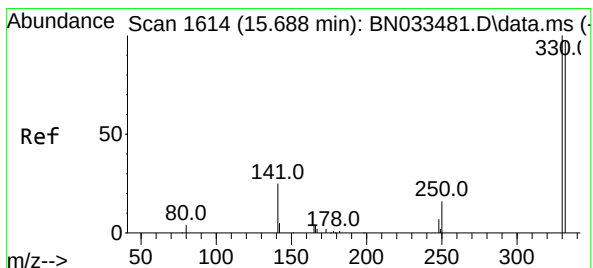
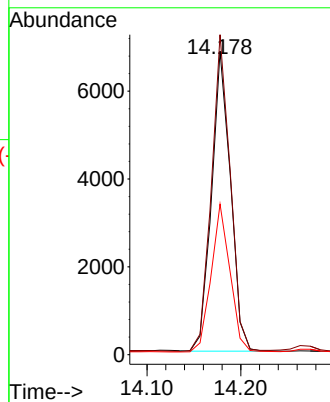
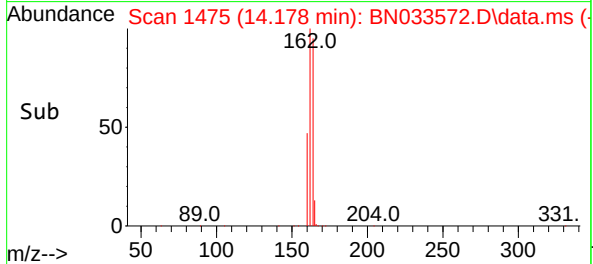
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



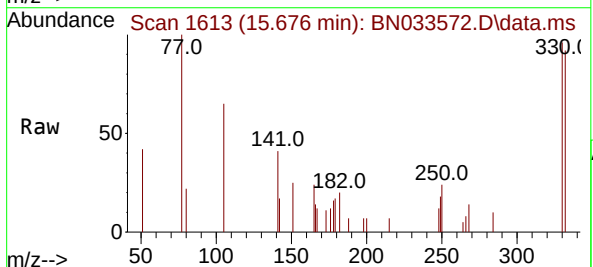
Tgt Ion:164 Resp: 955
Ion Ratio Lower Upper
164 100
162 105.4 83.5 125.3
160 49.6 40.2 60.4

Manual Integrations
APPROVED

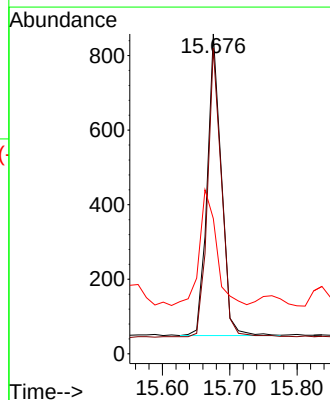
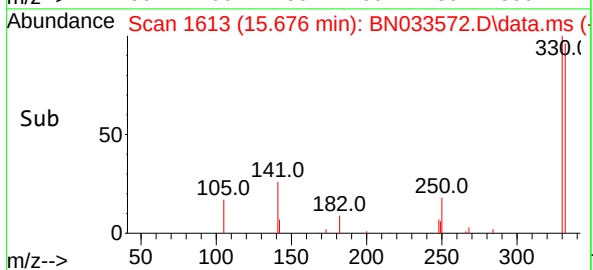
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

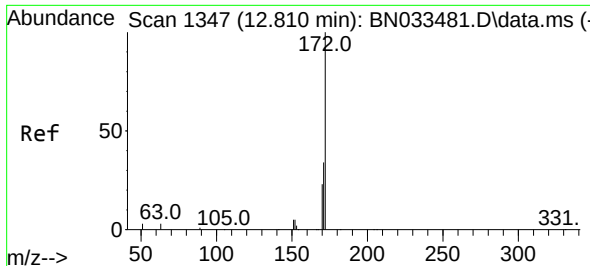


#14
2,4,6-Tribromophenol
Concen: 0.231 ng
RT: 15.676 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30



Tgt Ion:330 Resp: 1188
Ion Ratio Lower Upper
330 100
332 93.9 77.5 116.3
141 46.0 33.9 50.9





#15

2-Fluorobiphenyl

Concen: 0.233 ng

RT: 12.799 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033572.D

Acq: 23 Aug 2024 03:30

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924MSD

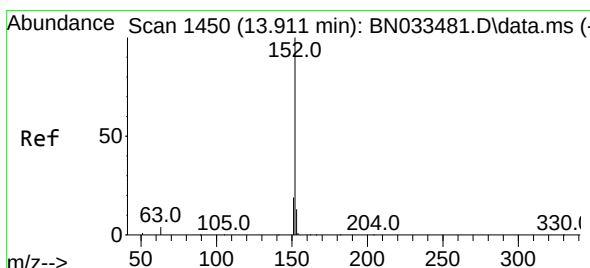
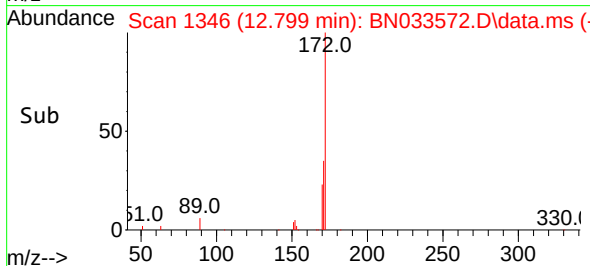
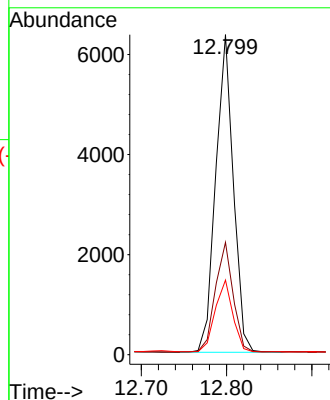
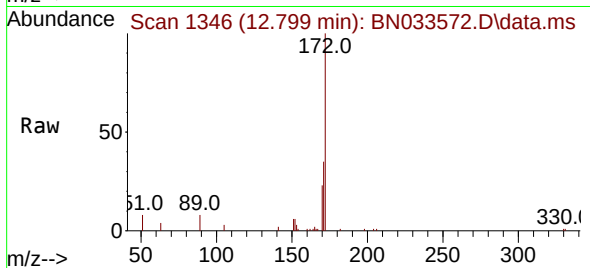
Tgt Ion:	172	Resp:	910
Ion	Ratio	Lower	Upper
172	100		
171	35.1	27.7	41.5
170	23.3	18.3	27.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#16

Acenaphthylene

Concen: 0.479 ng

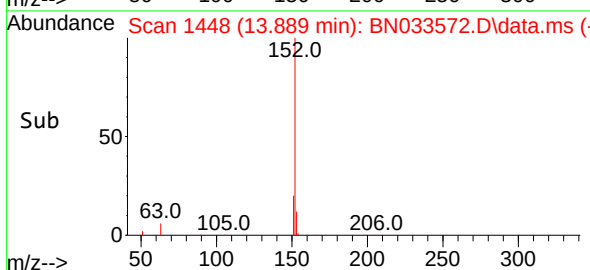
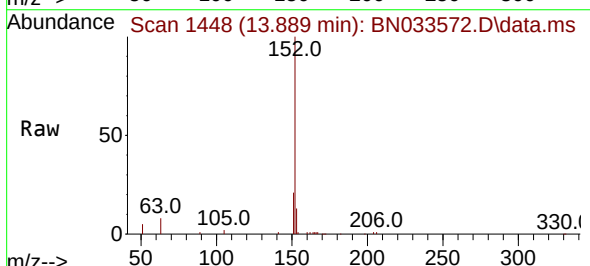
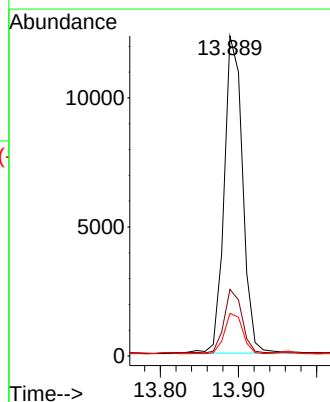
RT: 13.889 min Scan# 1448

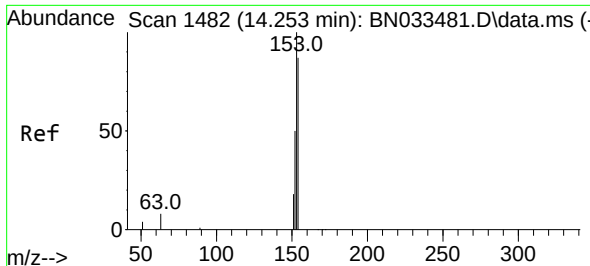
Delta R.T. -0.011 min

Lab File: BN033572.D

Acq: 23 Aug 2024 03:30

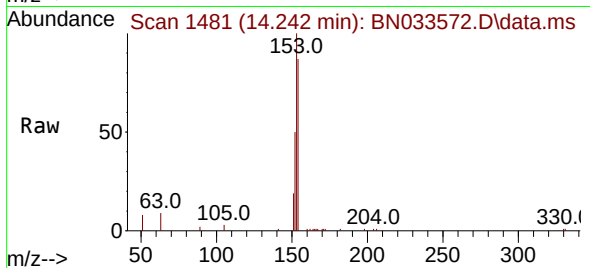
Tgt Ion:	152	Resp:	20098
Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.7	23.5
153	12.6	10.3	15.5





#17
Acenaphthene
Concen: 0.408 ng
RT: 14.242 min Scan# 1482
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

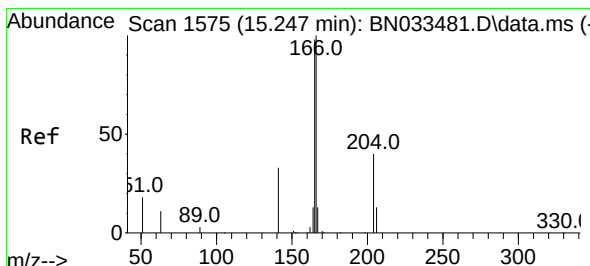
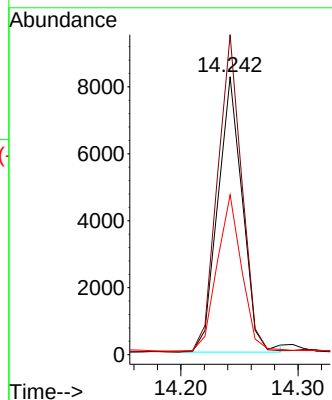
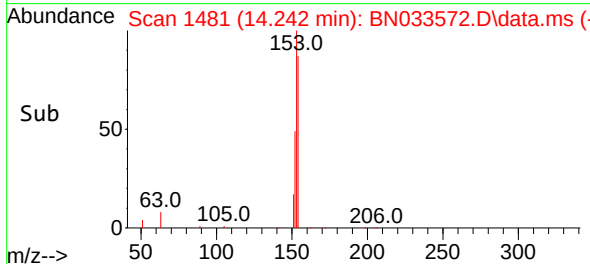
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



Tgt Ion:154 Resp: 12044
Ion Ratio Lower Upper
154 100
153 112.8 89.0 133.6
152 56.5 45.2 67.8

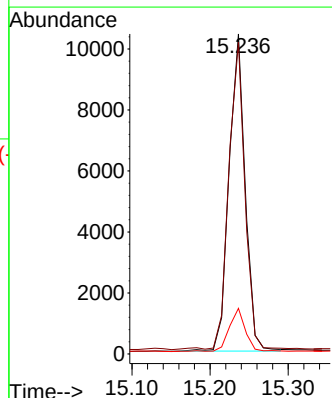
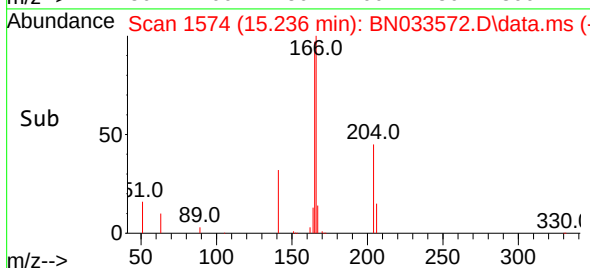
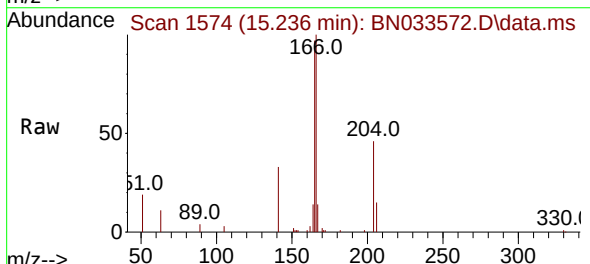
Manual Integrations
APPROVED

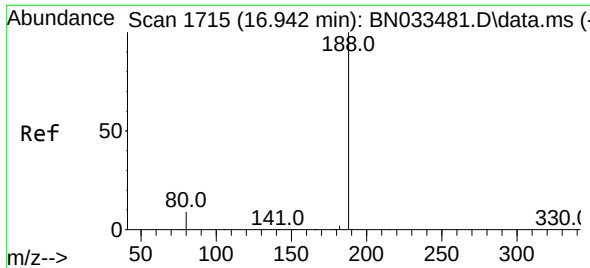
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#18
Fluorene
Concen: 0.402 ng
RT: 15.236 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

Tgt Ion:166 Resp: 14948
Ion Ratio Lower Upper
166 100
165 96.0 78.2 117.4
167 13.4 10.6 16.0





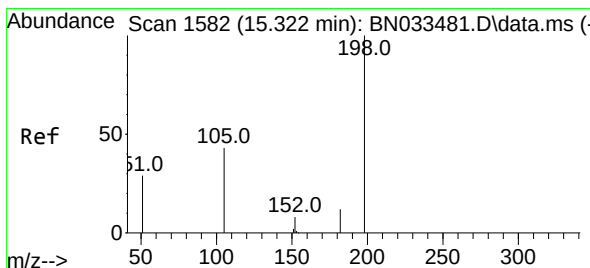
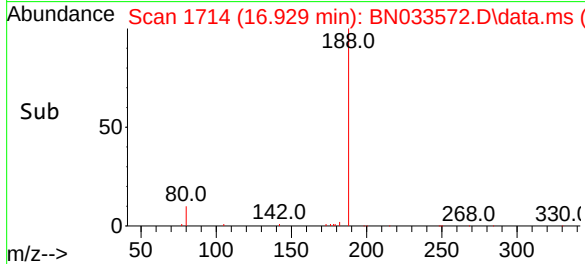
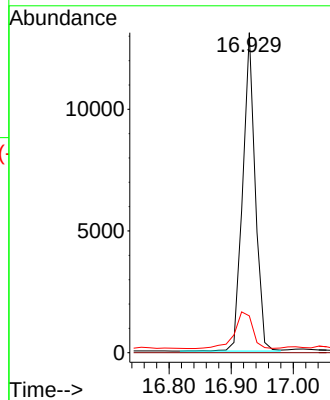
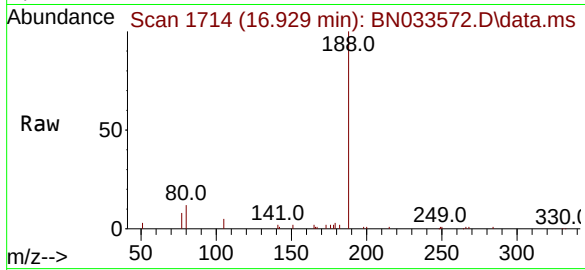
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1715
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD

Tgt Ion:188 Resp: 18339
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.5 7.8 11.8

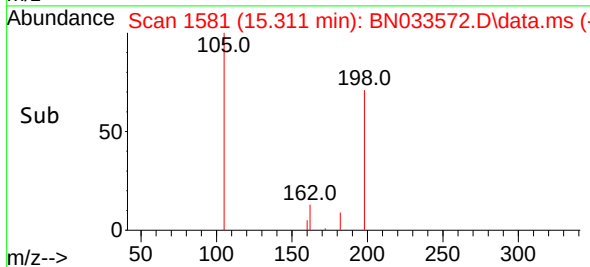
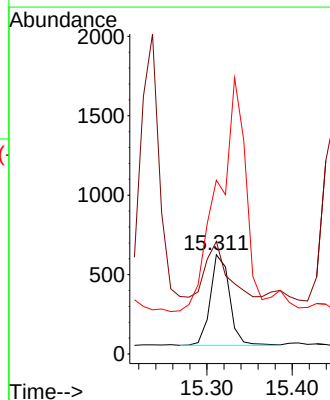
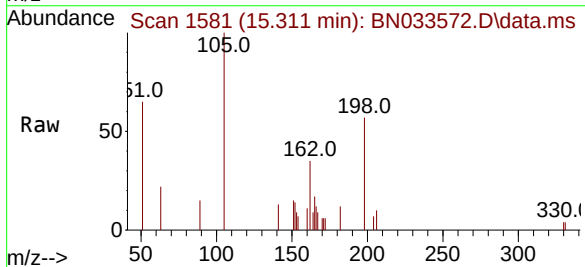
Manual Integrations
APPROVED

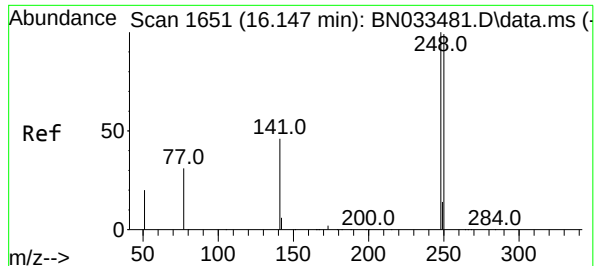
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.314 ng
RT: 15.311 min Scan# 1581
Delta R.T. -0.011 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

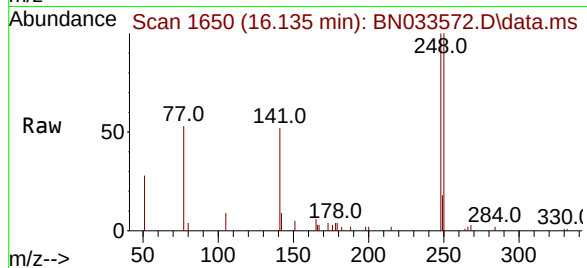
Tgt Ion:198 Resp: 898
Ion Ratio Lower Upper
198 100
51 113.4 65.1 97.7#
105 175.0 44.8 67.2#





#21
4-Bromophenyl-phenylether
Concen: 0.399 ng
RT: 16.135 min Scan# 1650
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

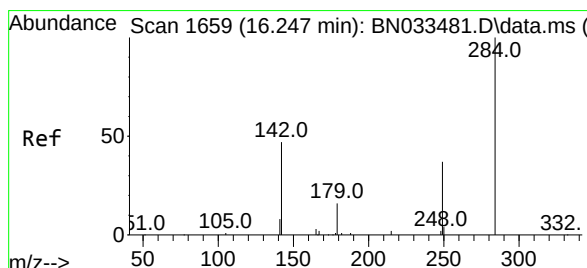
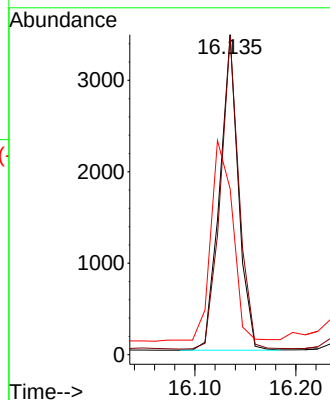
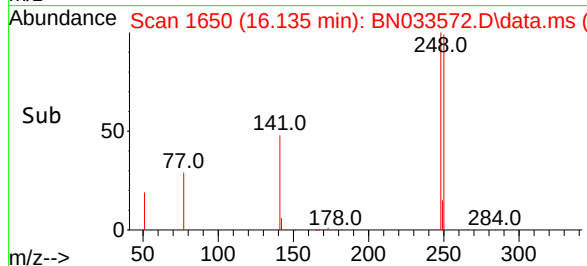
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



Tgt Ion:248 Resp: 4449
Ion Ratio Lower Upper
248 100
250 99.6 79.2 118.8
141 51.8 37.9 56.9

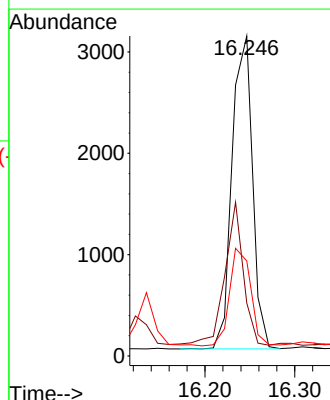
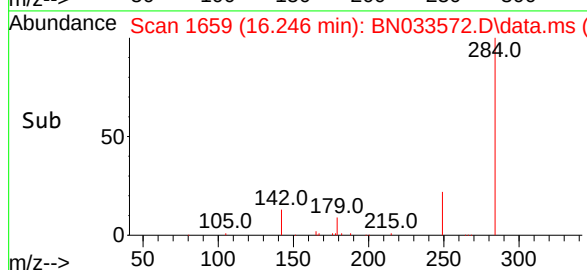
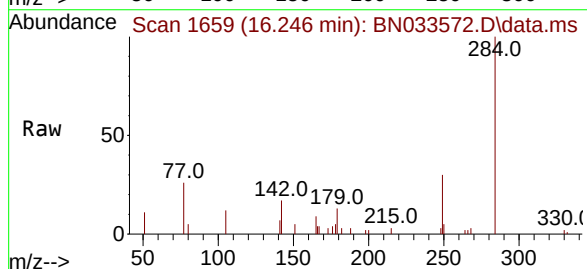
Manual Integrations
APPROVED

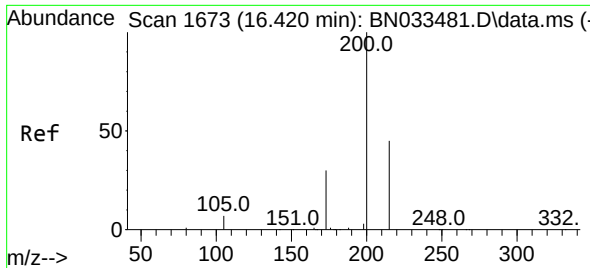
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#22
Hexachlorobenzene
Concen: 0.396 ng
RT: 16.246 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

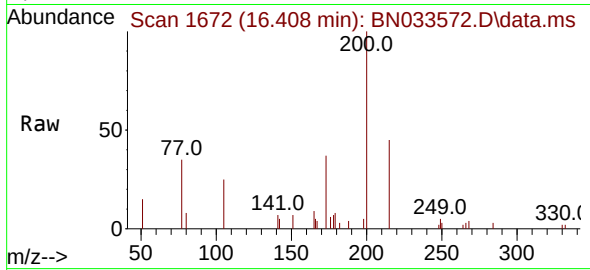
Tgt Ion:284 Resp: 4872
Ion Ratio Lower Upper
284 100
142 41.2 31.8 47.6
249 32.2 26.0 39.0





#23
Atrazine
Concen: 0.417 ng
RT: 16.408 min Scan# 1672
Delta R.T. -0.013 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

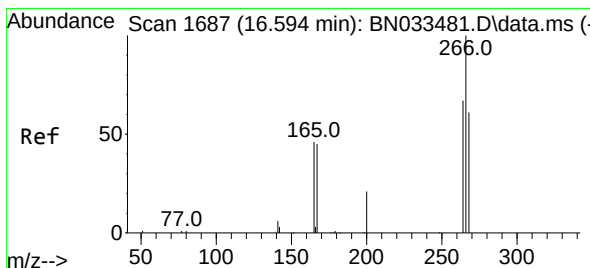
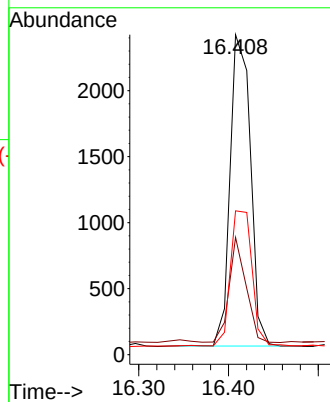
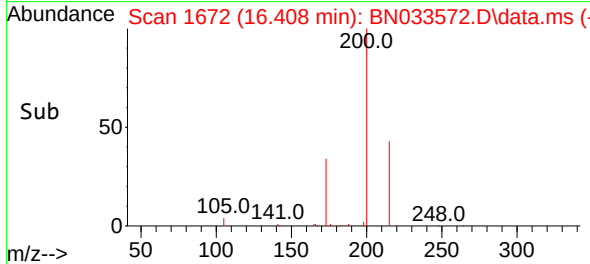
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



Tgt Ion:200 Resp: 3710
Ion Ratio Lower Upper
200 100
173 36.6 25.3 37.9
215 44.9 36.6 54.8

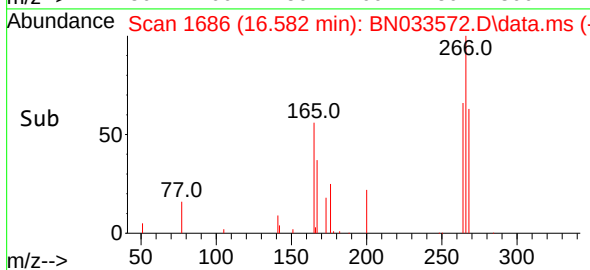
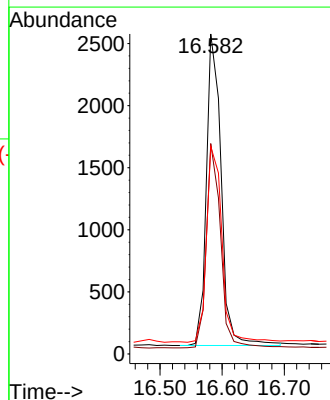
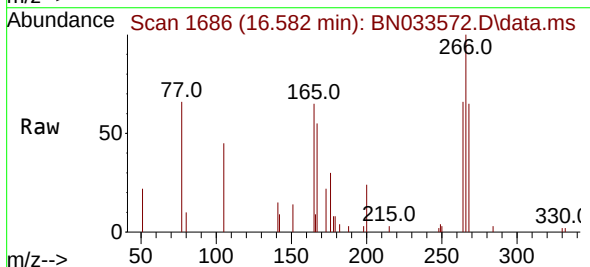
Manual Integrations
APPROVED

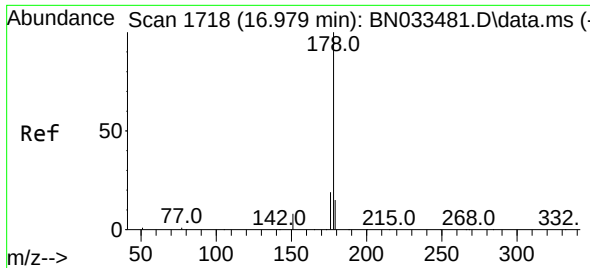
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#24
Pentachlorophenol
Concen: 0.779 ng
RT: 16.582 min Scan# 1686
Delta R.T. -0.013 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

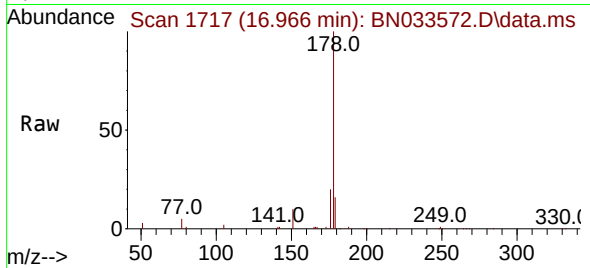
Tgt Ion:266 Resp: 4153
Ion Ratio Lower Upper
266 100
264 63.3 51.9 77.9
268 64.6 51.0 76.4





#25
Phenanthrene
Concen: 0.642 ng
RT: 16.966 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

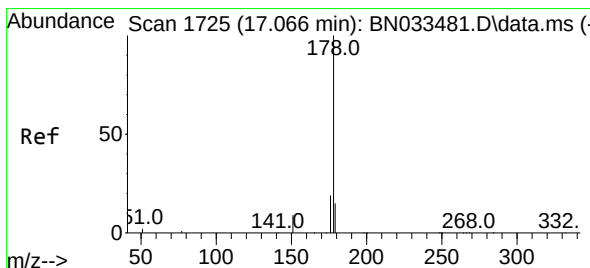
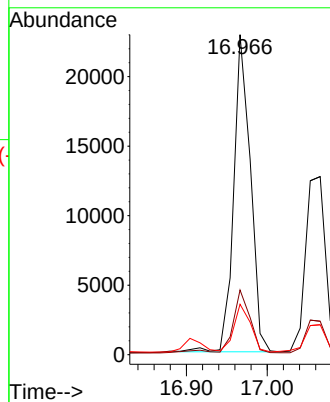
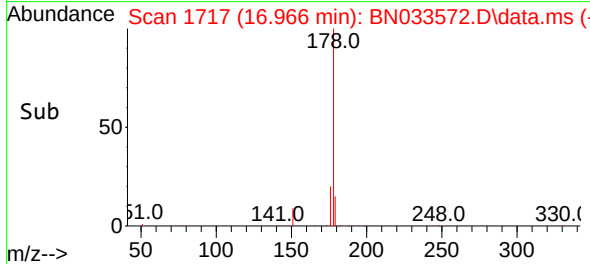
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



Tgt Ion:178 Resp: 3276
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 14.9 12.3 18.5

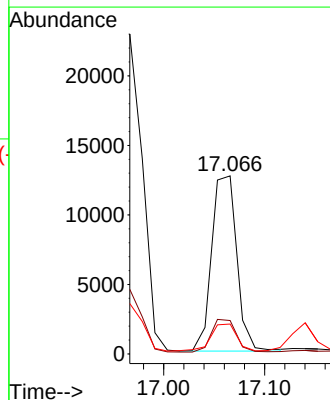
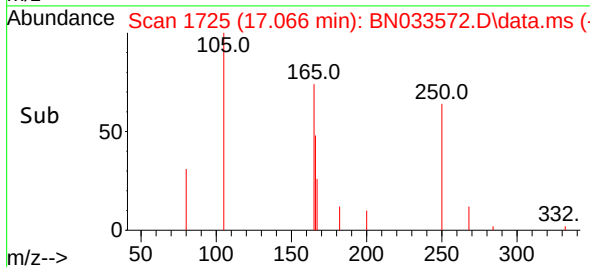
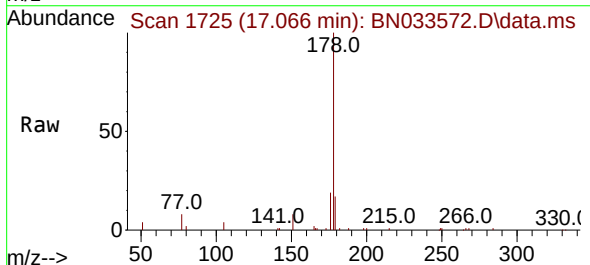
Manual Integrations
APPROVED

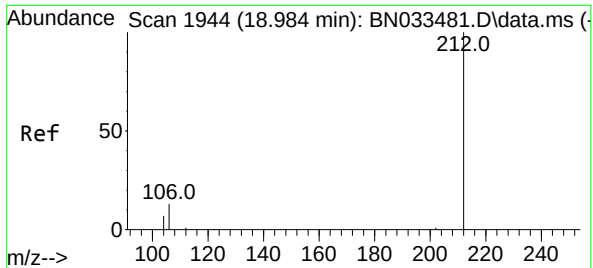
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#26
Anthracene
Concen: 0.484 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

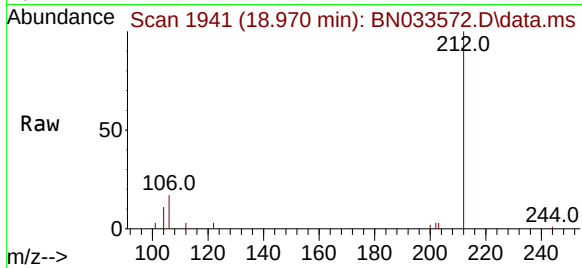
Tgt Ion:178 Resp: 21844
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.7 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.195 ng
RT: 18.970 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

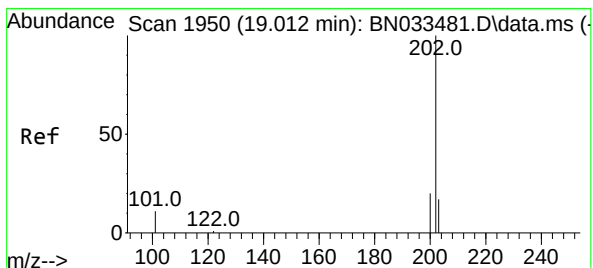
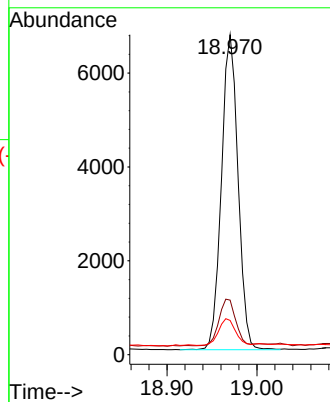
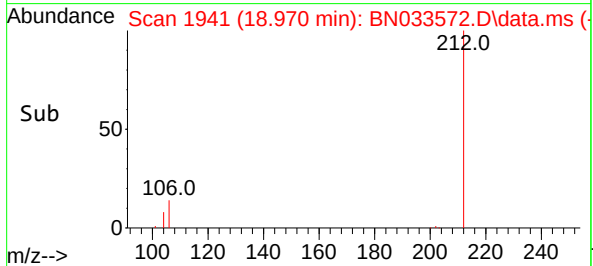
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



Tgt Ion:212 Resp: 8580
Ion Ratio Lower Upper
212 100
106 14.9 12.3 18.5
104 8.6 7.0 10.4

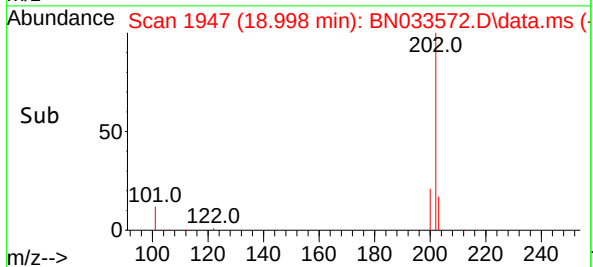
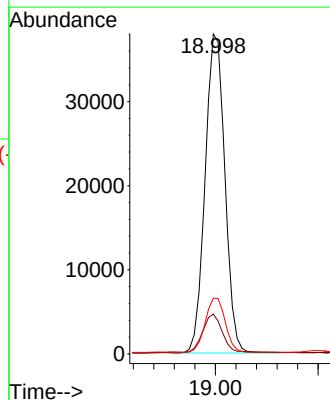
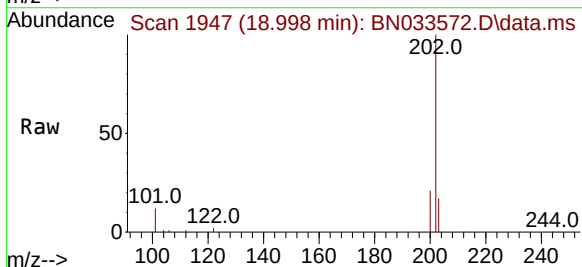
Manual Integrations
APPROVED

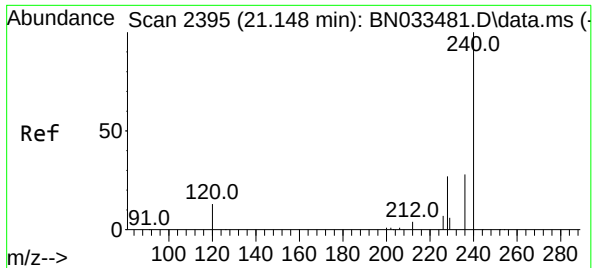
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#28
Fluoranthene
Concen: 0.897 ng
RT: 18.998 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

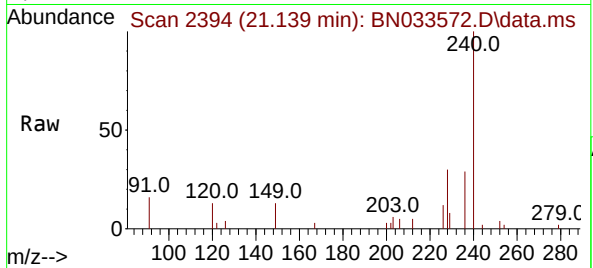
Tgt Ion:202 Resp: 50573
Ion Ratio Lower Upper
202 100
101 12.1 9.5 14.3
203 17.2 13.8 20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 21139
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

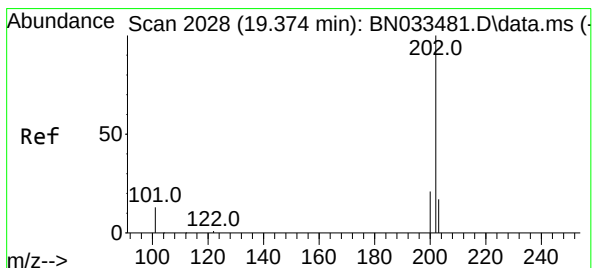
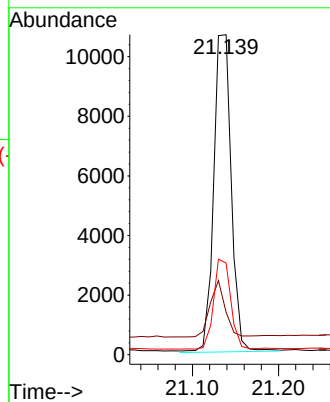
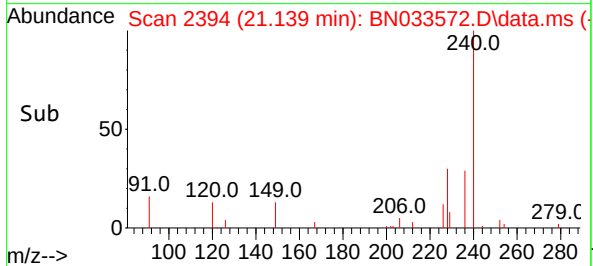
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



Tgt Ion:240 Resp: 15128
Ion Ratio Lower Upper
240 100
120 13.3 12.4 18.6
236 28.6 23.0 34.6

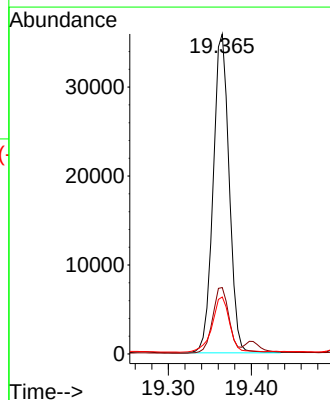
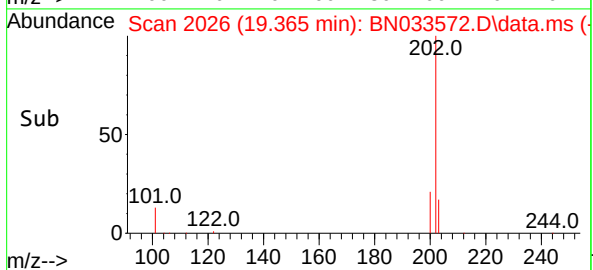
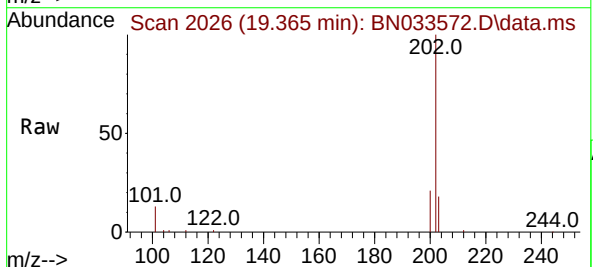
Manual Integrations
APPROVED

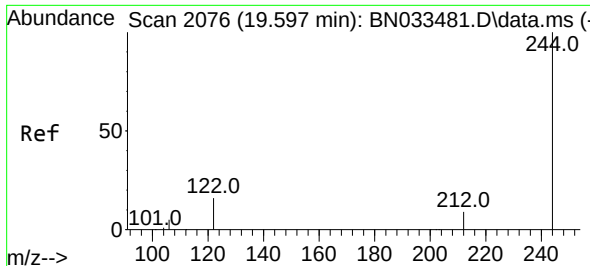
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024



#30
Pyrene
Concen: 0.710 ng
RT: 19.365 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

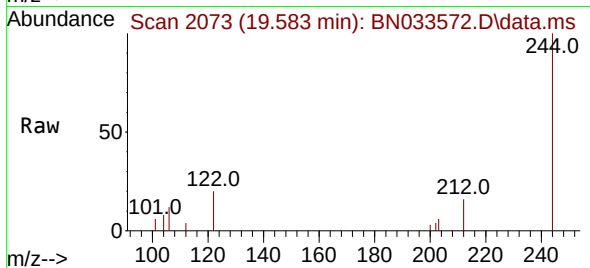
Tgt Ion:202 Resp: 47906
Ion Ratio Lower Upper
202 100
200 21.3 16.6 24.8
203 19.0 14.2 21.4





#31
Terphenyl-d14
Concen: 0.171 ng
RT: 19.583 min Scan# 2076
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

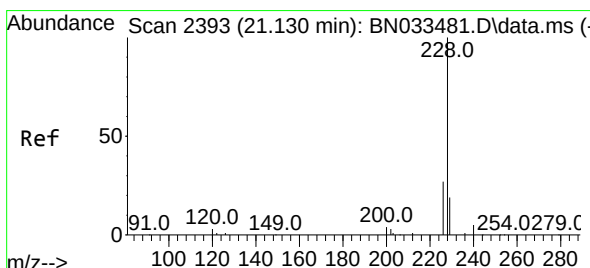
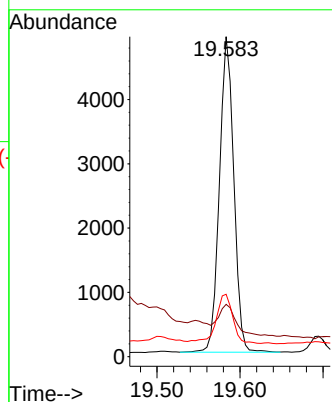
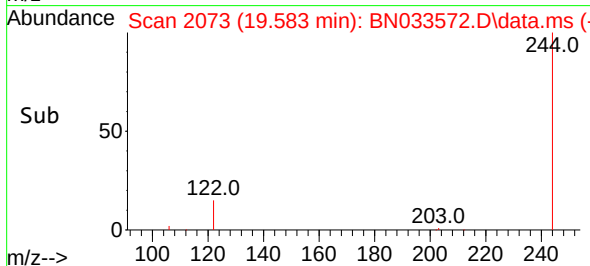
Instrument :
BNA_N
ClientSampleId :
S-928-KI-SO-0.5-1-081924MSD



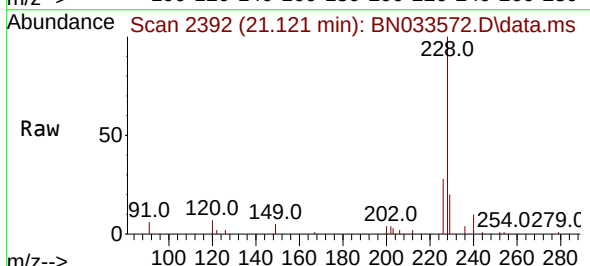
Tgt Ion:244 Resp: 586
Ion Ratio Lower Upper
244 100
212 16.3 7.8 11.6
122 19.5 13.3 19.9

Manual Integrations
APPROVED

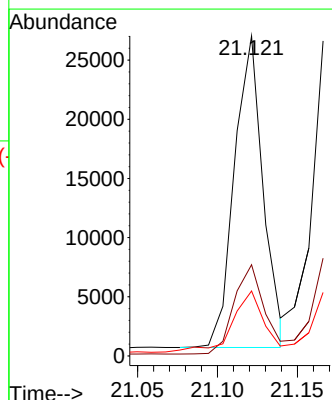
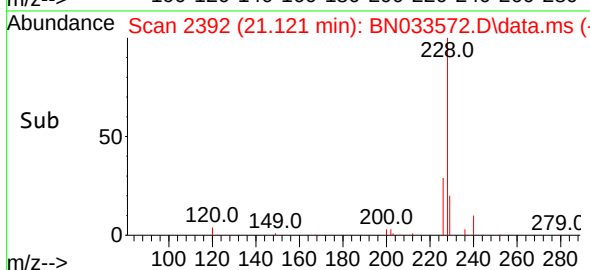
Reviewed By :Yogesh Patel 08/23/2024
Supervised By :mohammad ahmed 08/24/2024

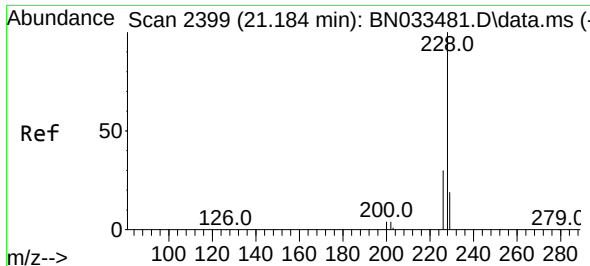


#32
Benzo(a)anthracene
Concen: 0.601 ng
RT: 21.121 min Scan# 2392
Delta R.T. -0.000 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30



Tgt Ion:228 Resp: 32894
Ion Ratio Lower Upper
228 100
226 28.5 21.8 32.6
229 20.3 15.8 23.6





#33

Chrysene

Concen: 0.701 ng

RT: 21.166 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN033572.D

Acq: 23 Aug 2024 03:30

Instrument :

BNA_N

ClientSampleId :

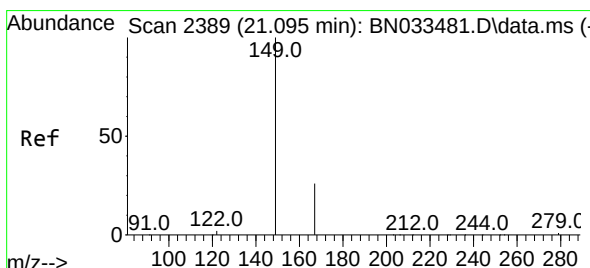
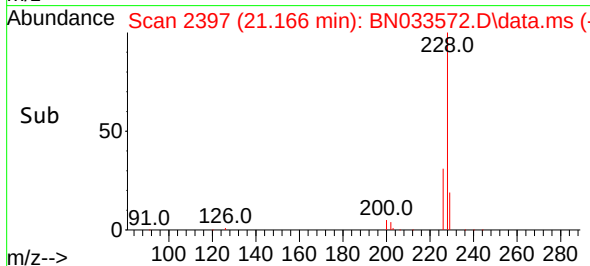
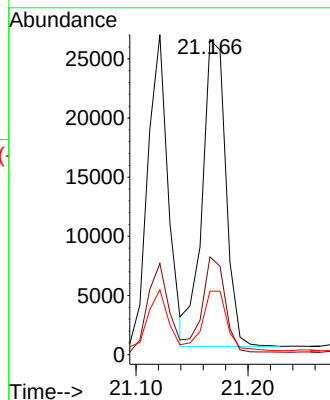
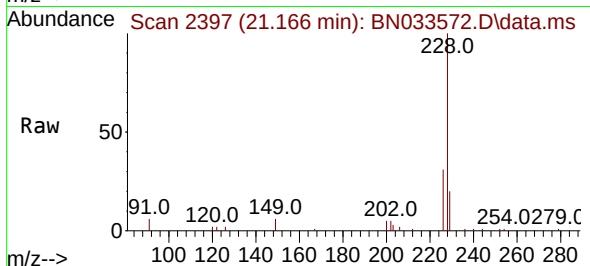
S-928-KI-SO-0.5-1-081924MSD

Tgt Ion:228	Resp:	38130
Ion Ratio	Lower	Upper
228	100	
226	31.1	23.8 35.8
229	20.2	15.6 23.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.525 ng m

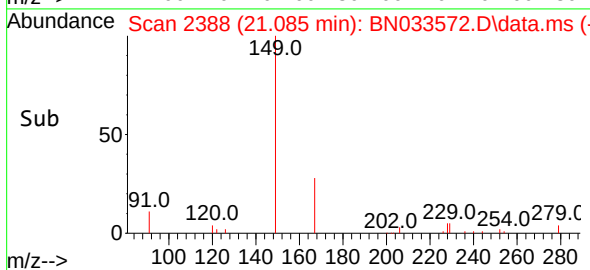
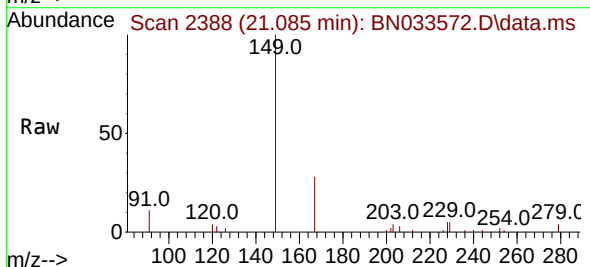
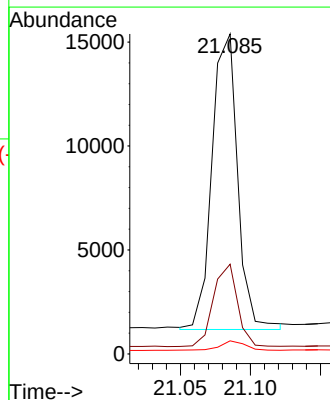
RT: 21.085 min Scan# 2388

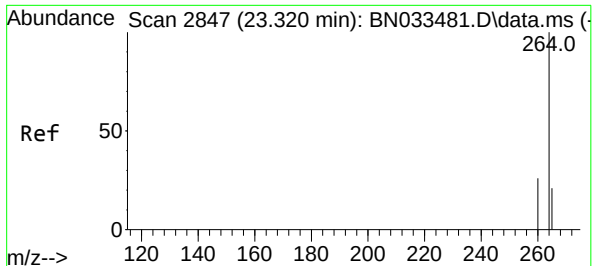
Delta R.T. -0.000 min

Lab File: BN033572.D

Acq: 23 Aug 2024 03:30

Tgt Ion:149	Resp:	18178
Ion Ratio	Lower	Upper
149	100	
167	29.1	21.5 32.3
279	10.0	2.2 3.2#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.300 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033572.D

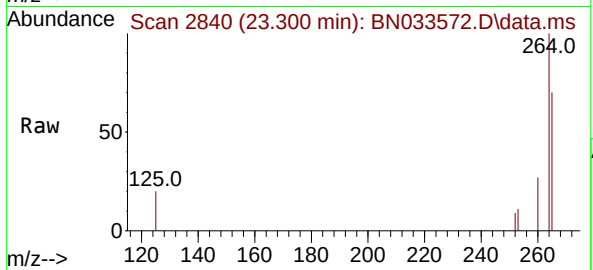
Acq: 23 Aug 2024 03:30

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924MSD



Tgt Ion:264 Resp: 16860

Ion Ratio Lower Upper

264 100

260 26.5 20.8 31.2

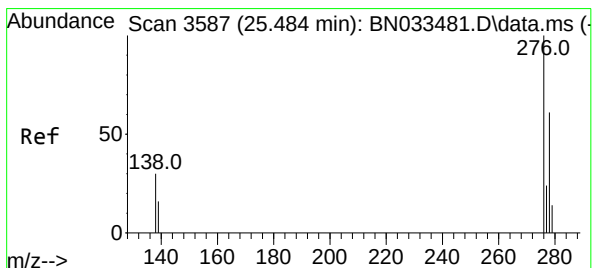
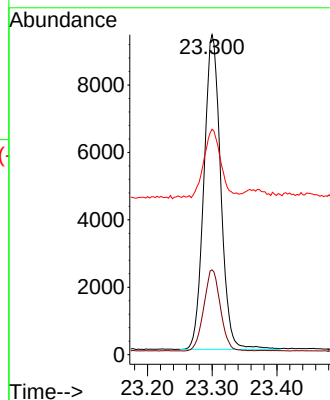
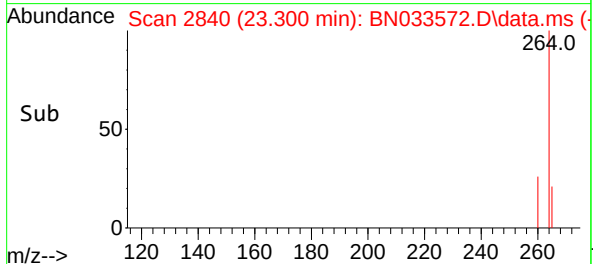
265 70.5 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#36

Indeno(1,2,3-cd)pyrene

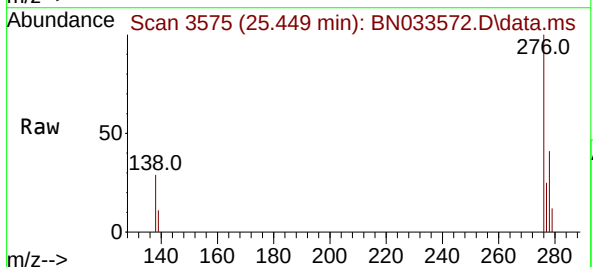
Concen: 0.572 ng

RT: 25.449 min Scan# 3575

Delta R.T. -0.000 min

Lab File: BN033572.D

Acq: 23 Aug 2024 03:30



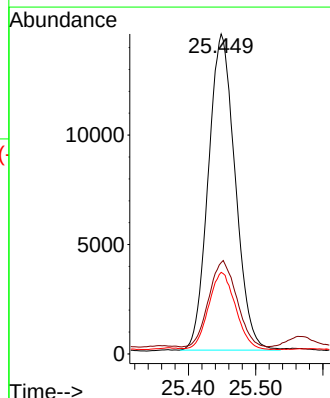
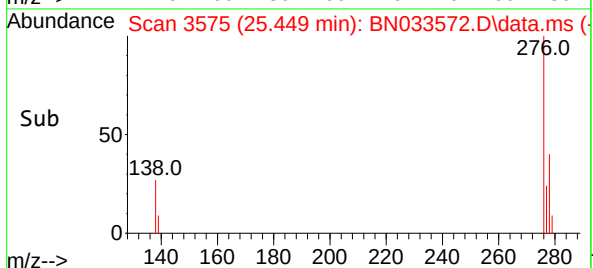
Tgt Ion:276 Resp: 40063

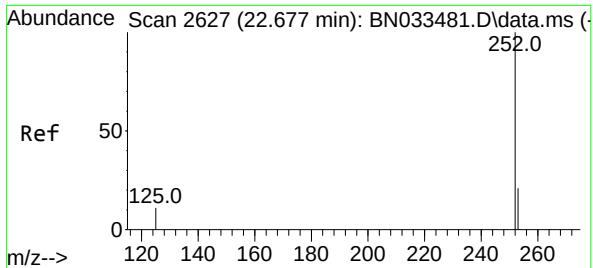
Ion Ratio Lower Upper

276 100

138 28.3 24.4 36.6

277 24.4 19.8 29.6





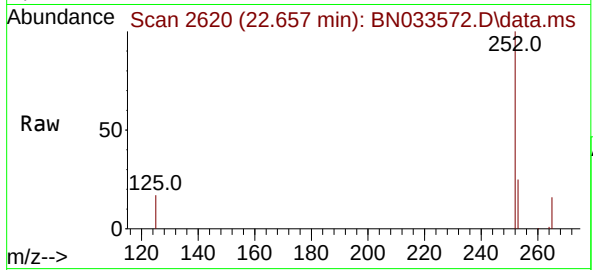
#37
Benzo(b)fluoranthene
Concen: 0.732 ng
RT: 22.657 min Scan# 2620
Delta R.T. -0.003 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924MSD



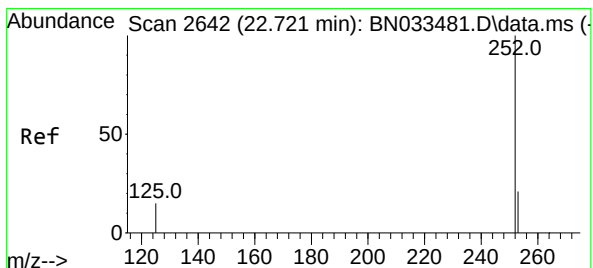
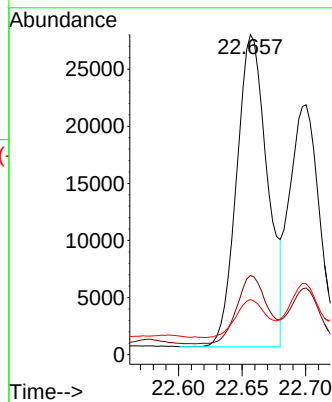
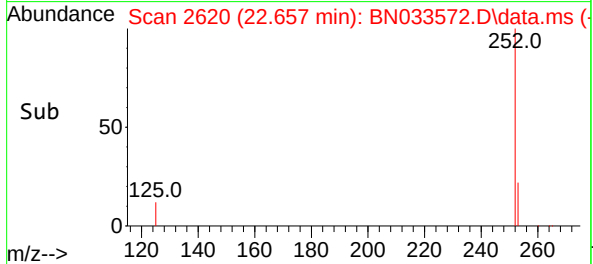
Tgt Ion:252 Resp: 46095
Ion Ratio Lower Upper
252 100
253 24.8 19.8 29.8
125 17.2 13.9 20.9

Manual Integrations

APPROVED

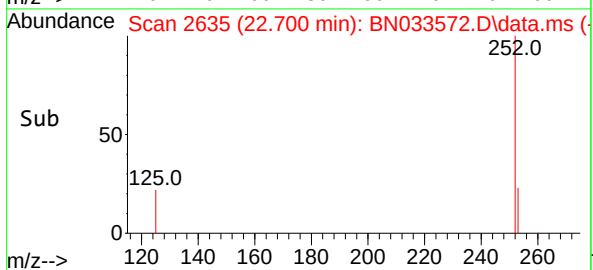
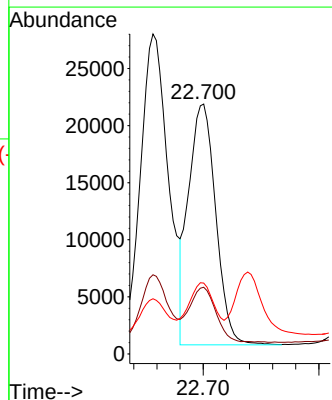
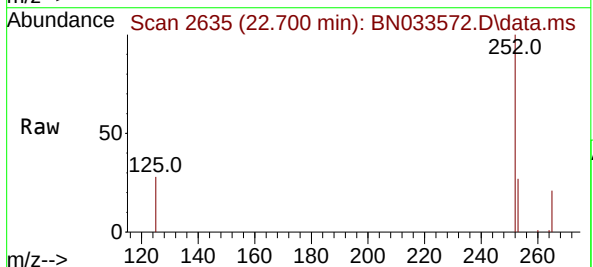
Reviewed By :Yogesh Patel 08/23/2024

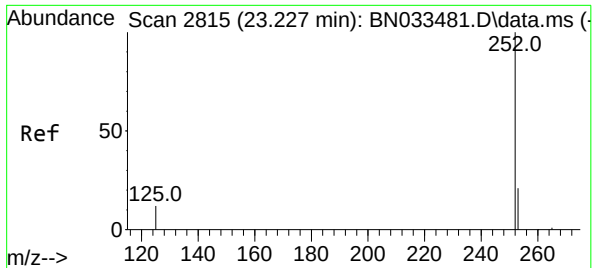
Supervised By :mohammad ahmed 08/24/2024



#38
Benzo(k)fluoranthene
Concen: 0.555 ng m
RT: 22.700 min Scan# 2635
Delta R.T. -0.003 min
Lab File: BN033572.D
Acq: 23 Aug 2024 03:30

Tgt Ion:252 Resp: 34375
Ion Ratio Lower Upper
252 100
253 26.7 19.8 29.8
125 28.4 15.8 23.8#





#39

Benzo(a)pyrene

Concen: 0.683 ng

RT: 23.206 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033572.D

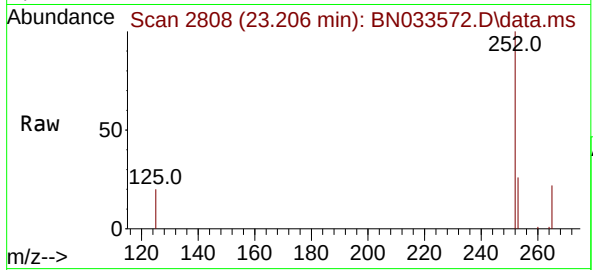
Acq: 23 Aug 2024 03:30

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924MSD

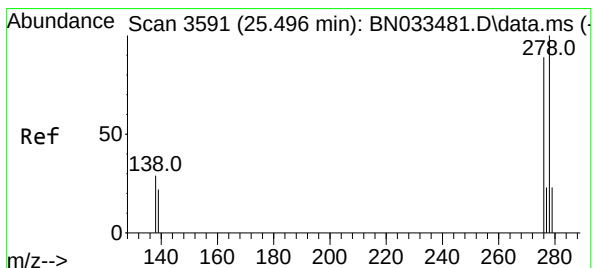
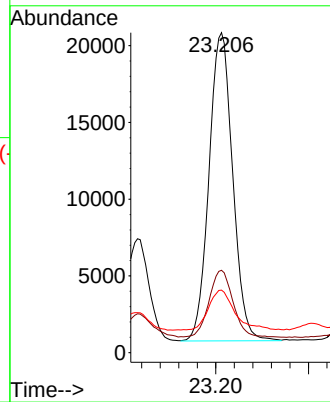
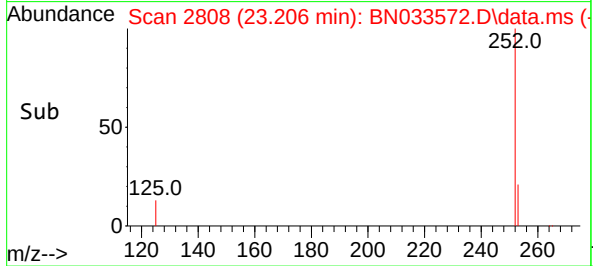


Tgt Ion:	252	Resp:	3558
Ion Ratio	Lower	Upper	
252	100		
253	25.8	21.5	32.3
125	19.6	17.0	25.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



#40

Dibenzo(a,h)anthracene

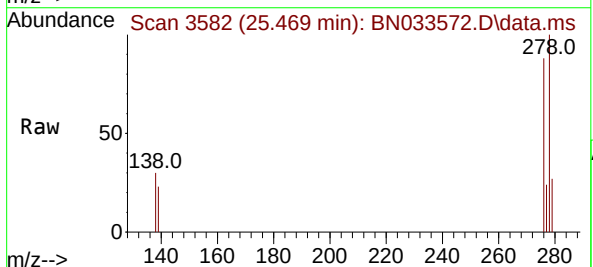
Concen: 0.442 ng

RT: 25.469 min Scan# 3582

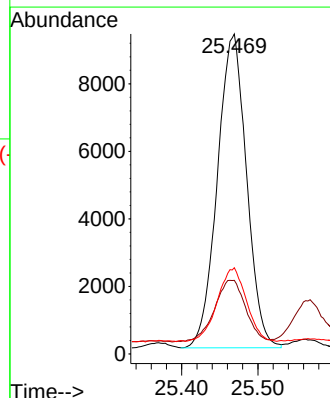
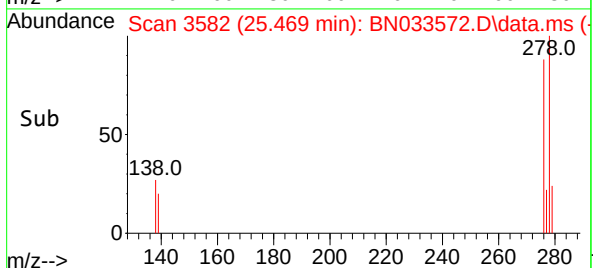
Delta R.T. -0.000 min

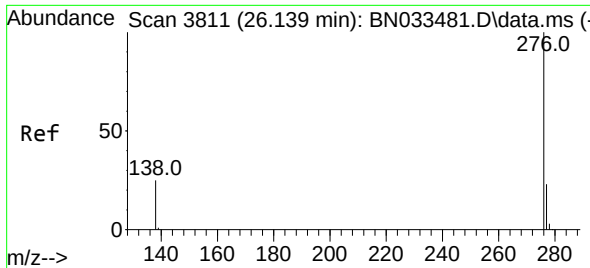
Lab File: BN033572.D

Acq: 23 Aug 2024 03:30



Tgt Ion:	278	Resp:	24745
Ion Ratio	Lower	Upper	
278	100		
139	23.0	19.1	28.7
279	26.9	21.0	31.4





#41

Benzo(g,h,i)perylene

Concen: 0.572 ng

RT: 26.104 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN033572.D

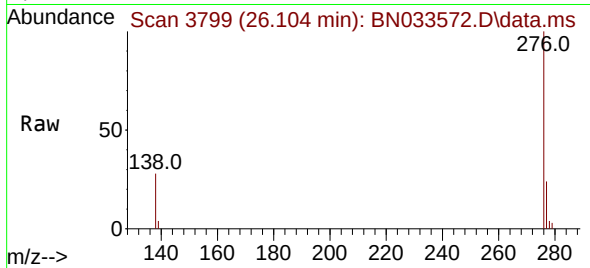
Acq: 23 Aug 2024 03:30

Instrument :

BNA_N

ClientSampleId :

S-928-KI-SO-0.5-1-081924MSD



Tgt Ion:276 Resp: 3424

Ion Ratio Lower Upper

276 100

277 24.3 19.7 29.5

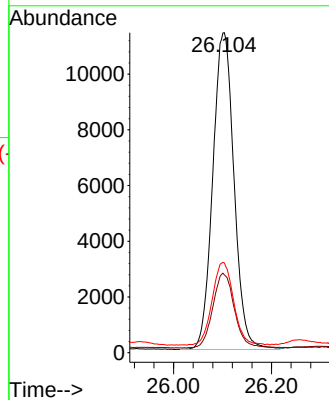
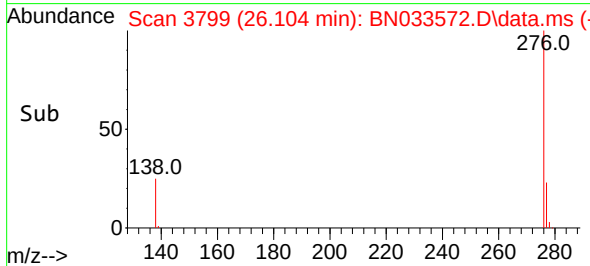
138 28.0 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/23/2024

Supervised By :mohammad ahmed 08/24/2024



Manual Integration Report

Sequence:	BN081924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.2	BN033480.D	Benzo(k)fluoranthene	yogesh	8/21/2024 1:29:07 AM	mohammad	8/22/2024 7:51:24 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN082224	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN033544.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:43:59 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033561.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:09 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033563.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:11 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
PB162880BS	BN033565.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:12 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-14	BN033566.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:13 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-14	BN033566.D	Phenanthrene	yogesh	8/23/2024 6:45:13 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-03	BN033567.D	Benzo(k)fluoranthene	yogesh	8/23/2024 6:45:15 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-03	BN033567.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:15 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-03	BN033567.D	Phenanthrene	yogesh	8/23/2024 6:45:15 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-06	BN033568.D	Benzo(a)pyrene	yogesh	8/23/2024 6:45:17 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-06	BN033568.D	Benzo(k)fluoranthene	yogesh	8/23/2024 6:45:17 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-09	BN033569.D	Benzo(k)fluoranthene	yogesh	8/23/2024 6:45:18 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-09	BN033569.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:18 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN082224	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P3671-09	BN033569.D	Phenanthrene	yogesh	8/23/2024 6:45:18 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-10	BN033570.D	Benzo(a)anthracene	yogesh	8/23/2024 6:45:20 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-10	BN033570.D	Benzo(k)fluoranthene	yogesh	8/23/2024 6:45:20 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-10	BN033570.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:20 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-10	BN033570.D	Fluorene	yogesh	8/23/2024 6:45:20 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-10	BN033570.D	Phenanthrene	yogesh	8/23/2024 6:45:20 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-10MS	BN033571.D	2-Methylnaphthalene-d10	yogesh	8/23/2024 6:45:22 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-10MS	BN033571.D	Benzo(k)fluoranthene	yogesh	8/23/2024 6:45:22 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-10MS	BN033571.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:22 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-10MSD	BN033572.D	2-Methylnaphthalene-d10	yogesh	8/23/2024 6:45:23 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-10MSD	BN033572.D	Benzo(k)fluoranthene	yogesh	8/23/2024 6:45:23 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-10MSD	BN033572.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:23 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-13	BN033573.D	Benzo(k)fluoranthene	yogesh	8/23/2024 6:45:25 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN082224	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P3671-13	BN033573.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:25 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-07	BN033574.D	Benzo(a)pyrene	yogesh	8/23/2024 6:45:26 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-07	BN033574.D	Benzo(k)fluoranthene	yogesh	8/23/2024 6:45:26 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-07	BN033574.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:26 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-07	BN033574.D	Chrysene	yogesh	8/23/2024 6:45:26 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-12	BN033575.D	Benzo(a)pyrene	yogesh	8/23/2024 6:45:28 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-12	BN033575.D	Benzo(k)fluoranthene	yogesh	8/23/2024 6:45:28 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
P3671-12	BN033575.D	Bis(2-ethylhexyl)phthalate	yogesh	8/23/2024 6:45:28 AM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033580.D	Bis(2-ethylhexyl)phthalate	Jagrut	8/23/2024 1:55:25 PM	mohammad	8/24/2024 11:39:19 PM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN082324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN033582.D	Bis(2-ethylhexyl)phthalate	yogesh	8/24/2024 5:24:14 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-05	BN033591.D	Benzo(a)pyrene	yogesh	8/24/2024 5:24:56 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-05	BN033591.D	Benzo(k)fluoranthene	yogesh	8/24/2024 5:24:56 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-05	BN033591.D	Bis(2-ethylhexyl)phthalate	yogesh	8/24/2024 5:24:56 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-04	BN033592.D	Benzo(k)fluoranthene	yogesh	8/24/2024 5:25:00 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-04	BN033592.D	Bis(2-ethylhexyl)phthalate	yogesh	8/24/2024 5:25:00 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-04	BN033592.D	Chrysene-d12	yogesh	8/24/2024 5:25:00 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-06DL	BN033595.D	Benzo(k)fluoranthene	yogesh	8/24/2024 5:25:12 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-06DL	BN033595.D	Bis(2-ethylhexyl)phthalate	yogesh	8/24/2024 5:25:12 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033597.D	Bis(2-ethylhexyl)phthalate	yogesh	8/24/2024 5:25:20 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033599.D	Bis(2-ethylhexyl)phthalate	yogesh	8/24/2024 5:25:23 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-12DL	BN033610.D	Benzo(k)fluoranthene	Jagrut	8/26/2024 10:44:51 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-12DL	BN033610.D	Bis(2-ethylhexyl)phthalate	Jagrut	8/26/2024 10:44:51 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:

BN082324

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P3671-07DL	BN033613.D	Benzo(a)pyrene	Jagrut	8/26/2024 10:44:59 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-07DL	BN033613.D	Benzo(k)fluoranthene	Jagrut	8/26/2024 10:44:59 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
P3671-07DL	BN033613.D	Bis(2-ethylhexyl)phthalate	Jagrut	8/26/2024 10:44:59 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033616.D	Bis(2-ethylhexyl)phthalate	Jagrut	8/26/2024 10:45:06 AM	mohammad	8/29/2024 2:21:17 AM	Peak Integrated by Software incorrectly

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN081924
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN033476.D	19 Aug 2024 09:29	MA/JU	Ok
2	SSTDCCC0.4	BN033477.D	19 Aug 2024 10:09	MA/JU	Not Ok
3	DFTPP	BN033478.D	19 Aug 2024 15:37	MA/JU	Ok
4	SSTDICC0.1	BN033479.D	19 Aug 2024 16:16	MA/JU	Ok
5	SSTDICC0.2	BN033480.D	19 Aug 2024 16:52	MA/JU	Ok,M
6	SSTDICCC0.4	BN033481.D	19 Aug 2024 17:28	MA/JU	Ok
7	SSTDICC0.8	BN033482.D	19 Aug 2024 18:05	MA/JU	Ok
8	SSTDICC1.6	BN033483.D	19 Aug 2024 18:41	MA/JU	Ok
9	SSTDICC3.2	BN033484.D	19 Aug 2024 19:17	MA/JU	Ok
10	SSTDICC5.0	BN033485.D	19 Aug 2024 19:53	MA/JU	Ok
11	SSTDICV0.4	BN033486.D	20 Aug 2024 01:56	MA/JU	Ok
12	PB162787BL	BN033487.D	20 Aug 2024 02:49	MA/JU	Not Ok
13	DFTPP	BN033488.D	20 Aug 2024 04:04	MA/JU	Ok
14	SSTDCCC0.4	BN033489.D	20 Aug 2024 04:44	MA/JU	Ok
15	PB162821BL	BN033490.D	20 Aug 2024 05:20	MA/JU	Ok
16	PB162821BS	BN033491.D	20 Aug 2024 05:56	MA/JU	Ok
17	PB162821BSD	BN033492.D	20 Aug 2024 06:32	MA/JU	Ok
18	PB162787BS	BN033493.D	20 Aug 2024 07:08	MA/JU	Ok
19	PB162787BSD	BN033494.D	20 Aug 2024 07:44	MA/JU	Ok
20	P3650-01	BN033495.D	20 Aug 2024 08:21	MA/JU	Dilution
21	P3650-02	BN033496.D	20 Aug 2024 08:59	MA/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN081924
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P3646-01	BN033497.D	20 Aug 2024 09:46	MA/JU	Ok
23	P3650-03	BN033498.D	20 Aug 2024 10:22	MA/JU	Ok
24	P3650-04	BN033499.D	20 Aug 2024 10:58	MA/JU	Ok
25	P3651-01	BN033500.D	20 Aug 2024 11:35	MA/JU	Ok
26	P3657-01	BN033501.D	20 Aug 2024 12:11	MA/JU	Ok,M
27	P3580-04RE	BN033502.D	20 Aug 2024 12:47	MA/JU	Confirms
28	P3580-01DL	BN033503.D	20 Aug 2024 13:23	MA/JU	Ok,M
29	SP6605	BN033504.D	20 Aug 2024 13:59	MA/JU	Ok
30	SSTDCCC0.4	BN033505.D	20 Aug 2024 14:36	MA/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN082224

Review By	yogesh	Review On	8/23/2024 6:45:43 AM
Supervise By	mohammad	Supervise On	8/24/2024 11:39:19 PM
SubDirectory	BN082224	HP Acquire Method	BNA_N
		HP Processing Method	BN081924
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN033543.D	22 Aug 2024 09:12	MA/JU	Ok
2	SSTDCCC0.4	BN033544.D	22 Aug 2024 09:52	MA/JU	Ok,M
3	PB162844BL	BN033545.D	22 Aug 2024 10:28	MA/JU	Ok
4	P3623-02RE	BN033546.D	22 Aug 2024 11:04	MA/JU	Confirms
5	P3623-03RE	BN033547.D	22 Aug 2024 11:41	MA/JU	Confirms
6	P3643-10	BN033548.D	22 Aug 2024 12:17	MA/JU	Ok,M
7	P3663-04	BN033549.D	22 Aug 2024 12:53	MA/JU	Ok,M
8	P3663-03	BN033550.D	22 Aug 2024 13:29	MA/JU	Ok,M
9	P3663-05MS	BN033551.D	22 Aug 2024 14:06	MA/JU	Ok,M
10	P3663-06MSD	BN033552.D	22 Aug 2024 14:42	MA/JU	Ok,M
11	P3660-08	BN033553.D	22 Aug 2024 15:18	MA/JU	Ok,M
12	P3663-08	BN033554.D	22 Aug 2024 15:54	MA/JU	Ok,M
13	P3643-13DL	BN033555.D	22 Aug 2024 16:30	MA/JU	Ok,M
14	P3643-07DL	BN033556.D	22 Aug 2024 17:07	MA/JU	Ok,M
15	P3663-07	BN033557.D	22 Aug 2024 17:43	MA/JU	Dilution
16	P3663-12	BN033558.D	22 Aug 2024 18:19	MA/JU	Dilution
17	P3660-02	BN033559.D	22 Aug 2024 18:56	MA/JU	Dilution
18	PB162844BS	BN033560.D	22 Aug 2024 19:32	MA/JU	Ok,M
19	SSTDCCC0.4	BN033561.D	22 Aug 2024 20:08	MA/JU	Ok,M
20	DFTPP	BN033562.D	22 Aug 2024 21:24	MA/JU	Ok
21	SSTDCCC0.4	BN033563.D	22 Aug 2024 22:03	MA/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN082224

Review By	yogesh	Review On	8/23/2024 6:45:43 AM		
Supervise By	mohammad	Supervise On	8/24/2024 11:39:19 PM		
SubDirectory	BN082224	HP Acquire Method	BNA_N	HP Processing Method	BN081924
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597			
CCC		SP6601			
Internal Standard/PEM		SP6527			
ICV/I.BLK		SP6548			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	PB162880BL	BN033564.D	22 Aug 2024 22:39	MA/JU	Ok
23	PB162880BS	BN033565.D	22 Aug 2024 23:16	MA/JU	Ok,M
24	P3671-14	BN033566.D	22 Aug 2024 23:52	MA/JU	Ok,M
25	P3671-03	BN033567.D	23 Aug 2024 00:28	MA/JU	Ok,M
26	P3671-06	BN033568.D	23 Aug 2024 01:05	MA/JU	Dilution
27	P3671-09	BN033569.D	23 Aug 2024 01:41	MA/JU	Ok,M
28	P3671-10	BN033570.D	23 Aug 2024 02:17	MA/JU	Ok,M
29	P3671-10MS	BN033571.D	23 Aug 2024 02:53	MA/JU	Ok,M
30	P3671-10MSD	BN033572.D	23 Aug 2024 03:30	MA/JU	Ok,M
31	P3671-13	BN033573.D	23 Aug 2024 04:06	MA/JU	Ok,M
32	P3671-07	BN033574.D	23 Aug 2024 04:42	MA/JU	Dilution
33	P3671-12	BN033575.D	23 Aug 2024 05:18	MA/JU	Dilution
34	P3660-05	BN033576.D	23 Aug 2024 05:54	MA/JU	Dilution
35	P3660-06MS	BN033577.D	23 Aug 2024 06:30	MA/JU	Ok,M
36	P3660-07MSD	BN033578.D	23 Aug 2024 07:06	MA/JU	Ok,M
37	P3663-02	BN033579.D	23 Aug 2024 07:42	MA/JU	Dilution
38	SSTDCCC0.4	BN033580.D	23 Aug 2024 08:18	MA/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN082324

Review By	yogesh	Review On	8/24/2024 5:26:17 AM
Supervise By	mohammad	Supervise On	8/29/2024 2:21:17 AM
SubDirectory	BN082324	HP Acquire Method	BNA_N
		HP Processing Method	BN081024
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN033581.D	23 Aug 2024 09:06	MA/JU	Ok
2	SSTDCCC0.4	BN033582.D	23 Aug 2024 09:48	MA/JU	Ok,M
3	PB162860BL	BN033583.D	23 Aug 2024 11:10	MA/JU	Ok
4	P3641-01	BN033584.D	23 Aug 2024 11:46	MA/JU	Dilution
5	P3641-02	BN033585.D	23 Aug 2024 12:22	MA/JU	Dilution
6	P3641-02MS	BN033586.D	23 Aug 2024 12:58	MA/JU	Ok,M
7	P3641-02MSD	BN033587.D	23 Aug 2024 13:34	MA/JU	Ok,M
8	P3641-04	BN033588.D	23 Aug 2024 14:10	MA/JU	Dilution
9	P3663-01	BN033589.D	23 Aug 2024 14:46	MA/JU	Ok,M
10	P3660-01	BN033590.D	23 Aug 2024 15:23	MA/JU	Dilution
11	P3671-05	BN033591.D	23 Aug 2024 15:59	MA/JU	Ok,M
12	P3671-04	BN033592.D	23 Aug 2024 16:35	MA/JU	Ok,M
13	P3660-05DL	BN033593.D	23 Aug 2024 17:11	MA/JU	Ok,M
14	P3663-12DL	BN033594.D	23 Aug 2024 17:47	MA/JU	Ok,M
15	P3671-06DL	BN033595.D	23 Aug 2024 18:23	MA/JU	Ok,M
16	PB162859BS	BN033596.D	23 Aug 2024 18:59	MA/JU	Ok,M
17	SSTDCCC0.4	BN033597.D	23 Aug 2024 19:35	MA/JU	Ok,M
18	DFTPP	BN033598.D	23 Aug 2024 20:51	MA/JU	Ok
19	SSTDCCC0.4	BN033599.D	23 Aug 2024 21:30	MA/JU	Ok,M
20	PB162937BL	BN033600.D	23 Aug 2024 22:07	MA/JU	Ok
21	PB162937BS	BN033601.D	23 Aug 2024 22:43	MA/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN082324

Review By	yogesh	Review On	8/24/2024 5:26:17 AM
Supervise By	mohammad	Supervise On	8/29/2024 2:21:17 AM
SubDirectory	BN082324	HP Acquire Method	BNA_N
		HP Processing Method	BN081024
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P3707-06	BN033602.D	23 Aug 2024 23:19	MA/JU	Ok,M
23	P3707-04	BN033603.D	23 Aug 2024 23:55	MA/JU	Ok,M
24	P3707-01	BN033604.D	24 Aug 2024 00:31	MA/JU	Ok,M
25	P3707-02MS	BN033605.D	24 Aug 2024 01:07	MA/JU	Ok,M
26	P3707-03MSD	BN033606.D	24 Aug 2024 01:43	MA/JU	Ok,M
27	P3707-05	BN033607.D	24 Aug 2024 02:20	MA/JU	Ok,M
28	P3641-01DL	BN033608.D	24 Aug 2024 02:56	MA/JU	Ok,M
29	P3641-02DL	BN033609.D	24 Aug 2024 03:32	MA/JU	Ok,M
30	P3671-12DL	BN033610.D	24 Aug 2024 04:08	MA/JU	Ok,M
31	P3663-02DL	BN033611.D	24 Aug 2024 04:44	MA/JU	Ok,M
32	P3660-02DL	BN033612.D	24 Aug 2024 05:21	MA/JU	Ok,M
33	P3671-07DL	BN033613.D	24 Aug 2024 05:57	MA/JU	Ok,M
34	P3707-07	BN033614.D	24 Aug 2024 06:33	MA/JU	Ok,M
35	P3707-08	BN033615.D	24 Aug 2024 07:09	MA/JU	Ok,M
36	SSTDCCC0.4	BN033616.D	24 Aug 2024 07:45	MA/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_HP Processing Method BN081924
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN033476.D	19 Aug 2024 09:29		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033477.D	19 Aug 2024 10:09	A Fresh Calibration is required.	MA/JU	Not Ok
3	DFTPP	DFTPP	BN033478.D	19 Aug 2024 15:37		MA/JU	Ok
4	SSTDICC0.1	SSTDICC0.1	BN033479.D	19 Aug 2024 16:16		MA/JU	Ok
5	SSTDICC0.2	SSTDICC0.2	BN033480.D	19 Aug 2024 16:52		MA/JU	Ok,M
6	SSTDICCC0.4	SSTDICCC0.4	BN033481.D	19 Aug 2024 17:28	The Calibration is Good For 8270 Sim DOD except Com#5,14	MA/JU	Ok
7	SSTDICC0.8	SSTDICC0.8	BN033482.D	19 Aug 2024 18:05		MA/JU	Ok
8	SSTDICC1.6	SSTDICC1.6	BN033483.D	19 Aug 2024 18:41		MA/JU	Ok
9	SSTDICC3.2	SSTDICC3.2	BN033484.D	19 Aug 2024 19:17		MA/JU	Ok
10	SSTDICC5.0	SSTDICC5.0	BN033485.D	19 Aug 2024 19:53		MA/JU	Ok
11	SSTDICV0.4	ICVBN081924	BN033486.D	20 Aug 2024 01:56	Com#5,14 failed in ICV for 8270 Sim DOD	MA/JU	Ok
12	PB162787BL	PB162787BL	BN033487.D	20 Aug 2024 02:49	Analyzed for contamination check	MA/JU	Not Ok
13	DFTPP	DFTPP	BN033488.D	20 Aug 2024 04:04		MA/JU	Ok
14	SSTDCCC0.4	SSTDCCC0.4	BN033489.D	20 Aug 2024 04:44		MA/JU	Ok
15	PB162821BL	PB162821BL	BN033490.D	20 Aug 2024 05:20		MA/JU	Ok
16	PB162821BS	PB162821BS	BN033491.D	20 Aug 2024 05:56		MA/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_HP Processing Method BN081924

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	PB162821BSD	PB162821BSD	BN033492.D	20 Aug 2024 06:32		MA/JU	Ok
18	PB162787BS	PB162787BS	BN033493.D	20 Aug 2024 07:08		MA/JU	Ok
19	PB162787BSD	PB162787BSD	BN033494.D	20 Aug 2024 07:44		MA/JU	Ok
20	P3650-01	RW7-SP100-20240814	BN033495.D	20 Aug 2024 08:21	Need 2X Dilution	MA/JU	Dilution
21	P3650-02	RW7-SP201-20240814	BN033496.D	20 Aug 2024 08:59		MA/JU	Ok
22	P3646-01	914-J-WPO-0.25-08152	BN033497.D	20 Aug 2024 09:46		MA/JU	Ok
23	P3650-03	RW7-SP302-20240814	BN033498.D	20 Aug 2024 10:22		MA/JU	Ok
24	P3650-04	RW7-SP303-20240814	BN033499.D	20 Aug 2024 10:58		MA/JU	Ok
25	P3651-01	RW7-SP201-20240815	BN033500.D	20 Aug 2024 11:35		MA/JU	Ok
26	P3657-01	917-J-WS-081624	BN033501.D	20 Aug 2024 12:11		MA/JU	Ok,M
27	P3580-04RE	925-K1-SD-0.5-1-08122	BN033502.D	20 Aug 2024 12:47	Surrogate Fail	MA/JU	Confirms
28	P3580-01DL	926-K1-SD-0-0.5-08122	BN033503.D	20 Aug 2024 13:23		MA/JU	Ok,M
29	SP6605	SP6605	BN033504.D	20 Aug 2024 13:59	SP6605-8270-SIM Surrogate	MA/JU	Ok
30	SSTDCCC0.4	SSTDCCC0.4EC	BN033505.D	20 Aug 2024 14:36		MA/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN082224

Review By	yogesh	Review On	8/23/2024 6:45:43 AM				
Supervise By	mohammad	Supervise On	8/24/2024 11:39:19 PM				
SubDirectory	BN082224	HP Acquire Method	BNA_N	HP Processing Method	BN081924		
STD. NAME		STD REF.#					
Tune/Reschk		SP6573					
Initial Calibration Stds		SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597					
CCC		SP6601					
Internal Standard/PEM		SP6527					
ICV/I.BLK		SP6548					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN033543.D	22 Aug 2024 09:12		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033544.D	22 Aug 2024 09:52		MA/JU	Ok,M
3	PB162844BL	PB162844BL	BN033545.D	22 Aug 2024 10:28		MA/JU	Ok
4	P3623-02RE	TT189D2-HYD-202408	BN033546.D	22 Aug 2024 11:04	Surrogate Fail	MA/JU	Confirms
5	P3623-03RE	BPOW6-7-HYD-202408	BN033547.D	22 Aug 2024 11:41	Surrogate Fail	MA/JU	Confirms
6	P3643-10	924-K1-SD-0.5-1-081524	BN033548.D	22 Aug 2024 12:17		MA/JU	Ok,M
7	P3663-04	914-J-SD-0.5-1-081624	BN033549.D	22 Aug 2024 12:53		MA/JU	Ok,M
8	P3663-03	914-J-SD-0-0.5-081624	BN033550.D	22 Aug 2024 13:29		MA/JU	Ok,M
9	P3663-05MS	914-J-SD-0.5-1-081624	BN033551.D	22 Aug 2024 14:06		MA/JU	Ok,M
10	P3663-06MSD	914-J-SD-0.5-1-081624	BN033552.D	22 Aug 2024 14:42		MA/JU	Ok,M
11	P3660-08	S-906-J-0.5-1-081624	BN033553.D	22 Aug 2024 15:18		MA/JU	Ok,M
12	P3663-08	916-J-SD-0.5-1-081624	BN033554.D	22 Aug 2024 15:54		MA/JU	Ok,M
13	P3643-13DL	921-J-SD-0-0.5-081524	BN033555.D	22 Aug 2024 16:30		MA/JU	Ok,M
14	P3643-07DL	918-J-SD-0-0.5-081524	BN033556.D	22 Aug 2024 17:07		MA/JU	Ok,M
15	P3663-07	916-J-SD-0-0.5-081624	BN033557.D	22 Aug 2024 17:43	Need 5X Dilution	MA/JU	Dilution
16	P3663-12	919-J-SD-0.5-1-081624	BN033558.D	22 Aug 2024 18:19	Surrogate Fail,Need 5X Dilution	MA/JU	Dilution
17	P3660-02	S-901-J-0.5-1-081624	BN033559.D	22 Aug 2024 18:56	Need 2X Dilution	MA/JU	Dilution
18	PB162844BS	PB162844BS	BN033560.D	22 Aug 2024 19:32		MA/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN082224

Review By	yogesh	Review On	8/23/2024 6:45:43 AM		
Supervise By	mohammad	Supervise On	8/24/2024 11:39:19 PM		
SubDirectory	BN082224	HP Acquire Method	BNA_N	HP Processing Method	BN081924
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597			
CCC		SP6601			
Internal Standard/PEM		SP6527			
ICV/I.BLK		SP6548			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	SSTDCCC0.4	SSTDCCC0.4EC	BN033561.D	22 Aug 2024 20:08		MA/JU	Ok,M
20	DFTPP	DFTPP	BN033562.D	22 Aug 2024 21:24		MA/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN033563.D	22 Aug 2024 22:03		MA/JU	Ok,M
22	PB162880BL	PB162880BL	BN033564.D	22 Aug 2024 22:39		MA/JU	Ok
23	PB162880BS	PB162880BS	BN033565.D	22 Aug 2024 23:16		MA/JU	Ok,M
24	P3671-14	S-912-J-SO-0.5-1-0819	BN033566.D	22 Aug 2024 23:52		MA/JU	Ok,M
25	P3671-03	S-911-K1-SO-0-0.5-0819	BN033567.D	23 Aug 2024 00:28		MA/JU	Ok,M
26	P3671-06	S-905-KJ-SO-0-0.5-0819	BN033568.D	23 Aug 2024 01:05	Need 5X Dilution	MA/JU	Dilution
27	P3671-09	S-928-K1-SO-0-0.5-0819	BN033569.D	23 Aug 2024 01:41		MA/JU	Ok,M
28	P3671-10	S-928-K1-SO-0.5-1-0819	BN033570.D	23 Aug 2024 02:17		MA/JU	Ok,M
29	P3671-10MS	S-928-K1-SO-0.5-1-0819	BN033571.D	23 Aug 2024 02:53		MA/JU	Ok,M
30	P3671-10MSD	S-928-K1-SO-0.5-1-0819	BN033572.D	23 Aug 2024 03:30		MA/JU	Ok,M
31	P3671-13	S-912-J-SO-0-0.5-0819	BN033573.D	23 Aug 2024 04:06		MA/JU	Ok,M
32	P3671-07	S-905-KJ-SO-0-0.5-0819	BN033574.D	23 Aug 2024 04:42	Need 10X Dilution, FD	MA/JU	Dilution
33	P3671-12	S-903-J-SO-0.5-1.0-0819	BN033575.D	23 Aug 2024 05:18	Need 10X Dilution	MA/JU	Dilution
34	P3660-05	S-906-J-0-0.5-081624	BN033576.D	23 Aug 2024 05:54	Need 5X Dilution	MA/JU	Dilution
35	P3660-06MS	S-906-J-0-0.5-081624M	BN033577.D	23 Aug 2024 06:30		MA/JU	Ok,M
36	P3660-07MSD	S-906-J-0-0.5-081624M	BN033578.D	23 Aug 2024 07:06		MA/JU	Ok,M
37	P3663-02	920-J-SD-0.5-1-081624	BN033579.D	23 Aug 2024 07:42	Need 5X Dilution	MA/JU	Dilution

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN082224

Review By	yogesh	Review On	8/23/2024 6:45:43 AM				
Supervise By	mohammad	Supervise On	8/24/2024 11:39:19 PM				
SubDirectory	BN082224	HP Acquire Method	BNA_N	HP Processing Method	BN081924		
STD. NAME		STD REF.#					
Tune/Reschk		SP6573					
Initial Calibration Stds		SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597					
CCC		SP6601					
Internal Standard/PEM		SP6527					
ICV/I.BLK		SP6548					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							
38	SSTDCCC0.4	SSTDCCC0.4EC	BN033580.D	23 Aug 2024 08:18		MA/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN082324

Review By	yogesh	Review On	8/24/2024 5:26:17 AM
Supervise By	mohammad	Supervise On	8/29/2024 2:21:17 AM
SubDirectory	BN082324	HP Acquire Method	BNA_N
		HP Processing Method	BN081024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN033581.D	23 Aug 2024 09:06		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033582.D	23 Aug 2024 09:48		MA/JU	Ok,M
3	PB162860BL	PB162860BL	BN033583.D	23 Aug 2024 11:10		MA/JU	Ok
4	P3641-01	S-907-K1-0-0.5-081524	BN033584.D	23 Aug 2024 11:46	Need 5X Dilution	MA/JU	Dilution
5	P3641-02	S-907-K1-0.5-1.0-0815	BN033585.D	23 Aug 2024 12:22	Need 2X Dilution	MA/JU	Dilution
6	P3641-02MS	S-907-K1-0.5-1.0-0815	BN033586.D	23 Aug 2024 12:58		MA/JU	Ok,M
7	P3641-02MSD	S-907-K1-0.5-1.0-0815	BN033587.D	23 Aug 2024 13:34		MA/JU	Ok,M
8	P3641-04	S-908-K1-0.5-1.0-0815	BN033588.D	23 Aug 2024 14:10	Need 5X Dilution	MA/JU	Dilution
9	P3663-01	920-J-SD-0-0.5-081624	BN033589.D	23 Aug 2024 14:46		MA/JU	Ok,M
10	P3660-01	S-901-J-0-0.5-081624	BN033590.D	23 Aug 2024 15:23	Need 5X Dilution	MA/JU	Dilution
11	P3671-05	S-911-K1-SO-0-0.5-081	BN033591.D	23 Aug 2024 15:59		MA/JU	Ok,M
12	P3671-04	S-911-K1-SO-0.5-1-081	BN033592.D	23 Aug 2024 16:35		MA/JU	Ok,M
13	P3660-05DL	S-906-J-0-0.5-081624	BN033593.D	23 Aug 2024 17:11		MA/JU	Ok,M
14	P3663-12DL	919-J-SD-0.5-1-081624	BN033594.D	23 Aug 2024 17:47		MA/JU	Ok,M
15	P3671-06DL	S-905-KJ-SO-0-0.5-081	BN033595.D	23 Aug 2024 18:23		MA/JU	Ok,M
16	PB162859BS	PB162859BS	BN033596.D	23 Aug 2024 18:59		MA/JU	Ok,M
17	SSTDCCC0.4	SSTDCCC0.4EC	BN033597.D	23 Aug 2024 19:35		MA/JU	Ok,M
18	DFTPP	DFTPP	BN033598.D	23 Aug 2024 20:51		MA/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN082324

Review By	yogesh	Review On	8/24/2024 5:26:17 AM		
Supervise By	mohammad	Supervise On	8/29/2024 2:21:17 AM		
SubDirectory	BN082324	HP Acquire Method	BNA_N	HP Processing Method	BN081024
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597			
CCC		SP6601			
Internal Standard/PEM		SP6527			
ICV/I.BLK		SP6548			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	SSTDCCC0.4	SSTDCCC0.4	BN033599.D	23 Aug 2024 21:30		MA/JU	Ok,M
20	PB162937BL	PB162937BL	BN033600.D	23 Aug 2024 22:07		MA/JU	Ok
21	PB162937BS	PB162937BS	BN033601.D	23 Aug 2024 22:43		MA/JU	Ok,M
22	P3707-06	S-913-K1-SO-0.5-1-082	BN033602.D	23 Aug 2024 23:19		MA/JU	Ok,M
23	P3707-04	S-929-K1-SO-0.5-1-082	BN033603.D	23 Aug 2024 23:55		MA/JU	Ok,M
24	P3707-01	S-929-K1-SO-0-0.5-082	BN033604.D	24 Aug 2024 00:31		MA/JU	Ok,M
25	P3707-02MS	S-929-K1-SO-0-0.5-082	BN033605.D	24 Aug 2024 01:07		MA/JU	Ok,M
26	P3707-03MSD	S-929-K1-SO-0-0.5-082	BN033606.D	24 Aug 2024 01:43		MA/JU	Ok,M
27	P3707-05	S-913-K1-SO-0-0.5-082	BN033607.D	24 Aug 2024 02:20		MA/JU	Ok,M
28	P3641-01DL	S-907-K1-0-0.5-081524	BN033608.D	24 Aug 2024 02:56		MA/JU	Ok,M
29	P3641-02DL	S-907-K1-0.5-1.0-0815	BN033609.D	24 Aug 2024 03:32		MA/JU	Ok,M
30	P3671-12DL	S-903-J-SO-0.5-1.0-081	BN033610.D	24 Aug 2024 04:08		MA/JU	Ok,M
31	P3663-02DL	920-J-SD-0.5-1-081624	BN033611.D	24 Aug 2024 04:44		MA/JU	Ok,M
32	P3660-02DL	S-901-J-0.5-1-081624D	BN033612.D	24 Aug 2024 05:21		MA/JU	Ok,M
33	P3671-07DL	S-905-KJ-SO-0-0.5-081	BN033613.D	24 Aug 2024 05:57		MA/JU	Ok,M
34	P3707-07	S-930-K1-SO-0-0.5-082	BN033614.D	24 Aug 2024 06:33		MA/JU	Ok,M
35	P3707-08	S-930-K1-SO-0.5-1-082	BN033615.D	24 Aug 2024 07:09		MA/JU	Ok,M
36	SSTDCCC0.4	SSTDCCC0.4EC	BN033616.D	24 Aug 2024 07:45		MA/JU	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P3669-01	20430	1	1.17	8.60	9.77	8.15	81.2	
P3669-02	20430	2	1.17	8.60	9.77	8.15	81.2	
P3670-01	WASTE	3	1.15	8.48	9.63	8.51	86.8	
P3670-02	VOC	4	1.18	8.40	9.58	8.49	87.0	
P3670-03	1	5	1.18	8.48	9.66	8.48	86.1	
P3670-04	2	6	1.14	8.76	9.9	8.66	85.8	
P3670-05	3	7	1.14	8.40	9.54	8.35	85.8	
P3670-06	4	8	1.11	8.76	9.87	8.73	87.0	
P3670-07	5	9	1.12	8.78	9.9	8.69	86.2	
P3671-01	S-904-J-SO-0-0.5-081924	10	1.11	8.42	9.53	7.11	71.3	
P3671-02	S-904-J-SO-0-1-081924	11	1.18	8.53	9.71	7.98	79.7	
P3671-03	S-911-K1-SO-0-0.5-081924	12	1.18	8.52	9.7	5.18	46.9	
P3671-04	S-911-K1-SO-0.5-1-081924	13	1.14	8.54	9.68	5.92	56.0	
P3671-05	S-911-K1-SO-0-0.5-081924-FD	14	1.18	8.51	9.69	4.16	35.0	
P3671-06	S-905-KJ-SO-0-0.5-081924	15	1.15	8.50	9.65	7.8	78.2	
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	16	1.12	8.47	9.59	7.61	76.6	
P3671-08	S-905-J-SO-0.5-1.0-081924	17	1.13	8.74	9.87	8.3	82.0	
P3671-09	S-928-K1-SO-0-0.5-081924	18	1.15	8.82	9.97	5.38	48.0	
P3671-10	S-928-K1-SO-0.5-1-081924	19	1.15	8.80	9.95	6.18	57.2	
P3671-11	S-903-J-SO--0-0.5-081924	20	1.19	8.53	9.72	8.31	83.5	
P3671-12	S-903-J-SO--0-1.0-081924	21	1.17	8.60	9.77	8.55	85.8	
P3671-13	S-912-J-SO-0-0.5-081924	22	1.13	8.70	9.83	3.79	30.6	
P3671-14	S-912-J-SO-0.5-1-081924	23	1.15	8.81	9.96	5.69	51.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P3674-01	PCB08724RB01	24	1.00	1.00	2.00	2.00	100.0	caluk
P3674-02	PCB08724RB02	25	1.00	1.00	2.00	2.00	100.0	caluk
P3674-03	PCB08724RB03	26	1.00	1.00	2.00	2.00	100.0	caluk
P3674-04	PCB08724RB04	27	1.00	1.00	2.00	2.00	100.0	caluk
P3674-05	PCB08724RB05	28	1.00	1.00	2.00	2.00	100.0	caluk
P3674-06	PCB08724RB06	29	1.00	1.00	2.00	2.00	100.0	caluk
P3674-07	PCB08724RB07	30	1.00	1.00	2.00	2.00	100.0	caluk
P3674-08	PCB08724RB08	31	1.00	1.00	2.00	2.00	100.0	caluk
P3676-01	PCB08724RB09	32	1.00	1.00	2.00	2.00	100.0	caluk
P3676-02	PCB08724RB10	33	1.00	1.00	2.00	2.00	100.0	caluk
P3676-03	PCB08724RB11	34	1.00	1.00	2.00	2.00	100.0	caluk
P3676-04	PCB08724RB12	35	1.00	1.00	2.00	2.00	100.0	caluk
P3676-05	PCB08724RB13	36	1.00	1.00	2.00	2.00	100.0	caluk
P3676-06	PCB08724RB14	37	1.00	1.00	2.00	2.00	100.0	caluk
P3676-07	PCB08724RB15	38	1.00	1.00	2.00	2.00	100.0	caluk
P3676-08	PCB08724RB16	39	1.00	1.00	2.00	2.00	100.0	caluk
P3676-09	PCB08724RB17	40	1.00	1.00	2.00	2.00	100.0	caluk
P3676-10	PCB08724RB18	41	1.00	1.00	2.00	2.00	100.0	caluk
P3676-11	PCB08724RB19	42	1.00	1.00	2.00	2.00	100.0	caluk
P3676-12	PCB08724RB20	43	1.00	1.00	2.00	2.00	100.0	caluk
P3676-13	PCB08724RB21	44	1.00	1.00	2.00	2.00	100.0	caluk
P3676-14	PCB08724RB22	45	1.00	1.00	2.00	2.00	100.0	caluk
P3676-15	PCB08724RB23	46	1.00	1.00	2.00	2.00	100.0	caluk
P3676-16	PCB08724RB24	47	1.00	1.00	2.00	2.00	100.0	caluk
P3676-17	PCB08724RB25	48	1.00	1.00	2.00	2.00	100.0	caluk
P3676-18	PCB08724RB26	49	1.00	1.00	2.00	2.00	100.0	caluk
P3676-19	PCB08724RB27	50	1.00	1.00	2.00	2.00	100.0	caluk
P3676-20	PCB08724RB28	51	1.00	1.00	2.00	2.00	100.0	caluk

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P3676-21	PCB08724RB29	52	1.00	1.00	2.00	2.00	100.0	caluk
P3676-22	PCB08724RB30	53	1.00	1.00	2.00	2.00	100.0	caluk
P3676-23	PCB08724RB31	54	1.00	1.00	2.00	2.00	100.0	caluk
P3676-24	PCB08724RB32	55	1.00	1.00	2.00	2.00	100.0	caluk
P3676-25	PCB08724RB33	56	1.00	1.00	2.00	2.00	100.0	caluk
P3676-26	PCB08724RB34	57	1.00	1.00	2.00	2.00	100.0	caluk
P3676-27	PCB08724RB35	58	1.00	1.00	2.00	2.00	100.0	caluk
P3676-28	PCB08724RB36	59	1.00	1.00	2.00	2.00	100.0	caluk
P3676-29	PCB08724RB37	60	1.00	1.00	2.00	2.00	100.0	caluk
P3676-30	PCB08724RB38	61	1.00	1.00	2.00	2.00	100.0	caluk
P3676-31	PCB08724RB39	62	1.00	1.00	2.00	2.00	100.0	caluk
P3676-32	PCB08724RB40	63	1.00	1.00	2.00	2.00	100.0	caluk
P3677-01	MX120	64	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE
P3677-02	MX121	65	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE
P3678-01	RE137-BagFilter20240819	71	1.00	1.00	2.00	2.00	100.0	Fabric
P3681-01	57	66	1.00	1.00	2.00	2.00	100.0	oil sample
P3681-02	0726-D	67	1.00	1.00	2.00	2.00	100.0	oil sample
P3681-03	581	68	1.14	8.66	9.8	8.88	89.4	
P3682-01	50407-A	69	1.00	1.00	2.00	2.00	100.0	wipe sample
P3682-02	50407-B	70	1.00	1.00	2.00	2.00	100.0	wipe sample
P3683-01	KZA404B-END-1-1	72	1.00	1.00	2.00	2.00	100.0	oilc
P3683-02	KZA404B-END-1-2	73	1.00	1.00	2.00	2.00	100.0	oilc
P3683-03	BC274653-END-1-1	74	1.00	1.00	2.00	2.00	100.0	oilc
P3683-04	BC274653-END-1-2	75	1.00	1.00	2.00	2.00	100.0	oilc
P3683-05	BC274653-END-2-1	76	1.00	1.00	2.00	2.00	100.0	oilc
P3683-06	BC274653-END-2-2	77	1.00	1.00	2.00	2.00	100.0	oilc
P3683-07	HED930S-END-1-1	78	1.00	1.00	2.00	2.00	100.0	oilc
P3683-08	HED930S-END-1-2	79	1.00	1.00	2.00	2.00	100.0	oilc

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P3684-03	D3646	86	1.00	1.00	2.00	2.00	100.0	DEBRIS
P3684-04	D3638	87	1.18	8.42	9.6	6.18	59.4	
P3684-06	D3564	88	1.00	1.00	2.00	2.00	100.0	DEBRIS
P3685-01	Stock Pile-1	80	1.15	8.43	9.58	8.99	93.0	
P3685-02	Stock Pile-1	81	1.15	8.43	9.58	8.99	93.0	
P3685-03	Stock Pile-2	82	1.18	8.72	9.9	9.34	93.6	
P3685-04	Stock Pile-2	83	1.18	8.72	9.9	9.34	93.6	
P3685-06	Stock Pile-1	84	1.15	8.43	9.58	8.99	93.0	
P3685-07	Stock Pile-2	85	1.18	8.72	9.9	9.34	93.6	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

132092

WorkList Name : %1-082024

WorkList ID : 182800

Department : Wet-Chemistry

Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3669-01	20430	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/19/2024	Chemtech -SO
P3669-02	20430	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/19/2024	Chemtech -SO
P3670-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3671-01	S-904-J-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-02	S-904-J-SO-0-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-03	S-911-K1-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-04	S-911-K1-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-05	S-911-K1-SO-0-0.5-081924-FD	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-06	S-905-KJ-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-08	S-905-J-SO-0.5-1-0-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-09	S-928-K1-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-10	S-928-K1-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-11	S-903-J-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-12	S-903-J-SO-0-1-0-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO

Date/Time 08/20/24 16:10
Raw Sample Received by: JH GPC
Raw Sample Relinquished by: JH GPC

Date/Time 08/20/24 17:30
Raw Sample Received by: CP SM
Raw Sample Relinquished by: JH GPC

WORKLIST(Hardcopy Internal Chain)

VB 132092

WorkList Name : %1-082024

WorkList ID : 182800

Department : Wet-Chemistry

Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3671-13	S-912-J-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-14	S-912-J-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3674-01	PCB08724RB01	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-02	PCB08724RB02	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-03	PCB08724RB03	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-04	PCB08724RB04	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-05	PCB08724RB05	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-06	PCB08724RB06	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-07	PCB08724RB07	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-08	PCB08724RB08	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-01	PCB08724RB09	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-02	PCB08724RB10	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-03	PCB08724RB11	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-04	PCB08724RB12	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-05	PCB08724RB13	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-06	PCB08724RB14	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-07	PCB08724RB15	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-08	PCB08724RB16	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-09	PCB08724RB17	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-10	PCB08724RB18	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-11	PCB08724RB19	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: JG CWC

Raw Sample Relinquished by: JG CWC

Date/Time 08/20/24 14:30

Raw Sample Received by: JG CWC

Raw Sample Relinquished by: JG CWC

WORKLIST(Hardcopy Internal Chain)

WB 132092

WorkList Name : %1-082024 WorkList ID : 182800 Department : Wet-Chemistry Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3676-12	PCB08724RB20	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-13	PCB08724RB21	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-14	PCB08724RB22	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-15	PCB08724RB23	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-16	PCB08724RB24	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-17	PCB08724RB25	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-18	PCB08724RB26	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-19	PCB08724RB27	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-20	PCB08724RB28	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-21	PCB08724RB29	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-22	PCB08724RB30	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-23	PCB08724RB31	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-24	PCB08724RB32	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-25	PCB08724RB33	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-26	PCB08724RB34	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-27	PCB08724RB35	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-28	PCB08724RB36	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-29	PCB08724RB37	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-30	PCB08724RB38	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-31	PCB08724RB39	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-32	PCB08724RB40	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: -88 woc

Raw Sample Relinquished by: CP sm

Date/Time 08/20/24

Raw Sample Received by: CP sm

Raw Sample Relinquished by: -88 woc

WORKLIST(Hardcopy Internal Chain)

WB 132092

WorkList Name : %1-082024 WorkList ID : 182800 Department : Wet-Chemistry Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3677-01	MX120	Solid	Percent Solids	Cool 4 deg C	USEP01	QA Of	08/19/2024	Chemtech -SO
P3677-02	MX121	Solid	Percent Solids	Cool 4 deg C	USEP01	QA Of	08/19/2024	Chemtech -SO
P3678-01	RE137-BagFilter20240819	Solid	Percent Solids	Cool 4 deg C	TETRO6	G11	08/19/2024	Chemtech -SO
P3681-01	57	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3681-02	0726-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3681-03	581	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3682-01	50407-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3682-02	50407-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-01	KZA404B-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-02	KZA404B-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-03	BC274653-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-04	BC274653-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-05	BC274653-END-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-06	BC274653-END-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-07	HED930S-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-08	HED930S-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-03	D3646	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-04	D3638	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-06	D3564	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-01	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-02	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO

Date/Time 08/20/24 16:10 Date/Time 08/20/24 17:30

Raw Sample Received by: 80 wocj Raw Sample Received by: af sm

Raw Sample Relinquished by: af sm Raw Sample Relinquished by: 80 wocj

WORKLIST(Hardcopy Internal Chain)

08/20/24

WorkList Name : %1-082024

WorkList ID : 182800

Department : Wet-Chemistry

Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3685-03	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-04	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-06	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-07	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: JH WOC

Raw Sample Relinquished by: CP SN

Date/Time 08/20/24 17:30

Raw Sample Received by: CP SN

Raw Sample Relinquished by: JH WOC

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	08/21/2024
Matrix :	Solid	Extraction Start Time :	09:38
Weigh By:	EH	Extraction By:	RS
Balance check:	EH	Extraction End Date :	08/21/2024
Balance ID:	EX-SC-2	Filter By:	RS
pH Strip Lot#:	N/A	Extraction End Time :	12:40
		Concentration By:	EH
		Supervisor By :	rajesh
Extraction Method:	☐ Separatory Funne ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6572
Surrogate	1.0ML	0.4 PPM	SP6605
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
MeCl2/Acetone/1:1	N/A	EP2527
Baked Na2SO4	N/A	EP2521
Sand	N/A	E2865
Methylene Chloride	N/A	E3787
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ml Vial lot# 2210673.

KD Bath ID:	N/A	Envap ID:	NEVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

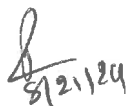
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/21/24	RP (RM, Lab)	RC/SVOC
12:45	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 08/21/2024

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol.(mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB162880BL	SBLK880	SVOCMS Group3	30.02	N/A	RUPESH	Evelyn	1			U4-1
PB162880BS	SLCS880	SVOCMS Group3	30.01	N/A	RUPESH	Evelyn	1			2
P3671-01	S-904-J-SO-0-0.5-081924	SVOCMS Group3	30.04	N/A	RUPESH	Evelyn	1	E		3
P3671-02	S-904-J-SO-0-1-081924	SVOCMS Group3	30.06	N/A	RUPESH	Evelyn	1	E		4
P3671-03	S-911-K1-SO-0-0.5-081924	SVOCMS Group3	30.07	N/A	RUPESH	Evelyn	1	E		5
P3671-04	S-911-K1-SO-0.5-1-081924	SVOCMS Group3	30.02	N/A	RUPESH	Evelyn	1	E		6
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SVOCMS Group3	30.05	N/A	RUPESH	Evelyn	1	E		U5-1
P3671-06	S-905-KJ-SO-0-0.5-081924	SVOCMS Group3	30.07	N/A	RUPESH	Evelyn	1	E		2
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SVOCMS Group3	30.01	N/A	RUPESH	Evelyn	1	E		3
P3671-08	S-905-J-SO-0.5-1.0-081924	SVOCMS Group3	30.08	N/A	RUPESH	Evelyn	1	E		4
P3671-09	S-928-K1-SO-0-0.5-081924	SVOCMS Group3	30.09	N/A	RUPESH	Evelyn	1	E		5
P3671-10	S-928-K1-SO-0.5-1-081924	SVOCMS Group3	30.05	N/A	RUPESH	Evelyn	1	E		6
P3671-10MS	S-928-K1-SO-0.5-1-081924MS	SVOCMS Group3	30.02	N/A	RUPESH	Evelyn	1	E		U6-1
P3671-10MS D	S-928-K1-SO-0.5-1-081924MSD	SVOCMS Group3	30.04	N/A	RUPESH	Evelyn	1	E		2
P3671-11	S-903-J-SO--0-0.5-081924	SVOCMS Group3	30.06	N/A	RUPESH	Evelyn	1	E		3
P3671-12	S-903-J-SO--0-1.0-081924	SVOCMS Group3	30.08	N/A	RUPESH	Evelyn	1	E		4
P3671-13	S-912-J-SO-0-0.5-081924	SVOCMS Group3	30.07	N/A	RUPESH	Evelyn	1	E		5
P3671-14	S-912-J-SO-0.5-1-081924	SVOCMS Group3	30.04	N/A	RUPESH	Evelyn	1	E		6

* Extracts relinquished on the same date as received.



WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3671M WorkList ID : 182832 Department : Extraction Date : 08-21-2024 08:07:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3671-01	S-904-J-SO-0-0.5-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-02	S-904-J-SO-0-1-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-03	S-911-K1-SO-0-0.5-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-04	S-911-K1-SO-0.5-1-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-05	S-911-K1-SO-0-0.5-081924-FD	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-06	S-905-KJ-SO-0-0.5-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-08	S-905-J-SO-0.5-1.0-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-09	S-928-K1-SO-0-0.5-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-10	S-928-K1-SO-0.5-1-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-11	S-903-J-SO-0-0.5-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-12	S-903-J-SO-0-1.0-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-13	S-912-J-SO-0-0.5-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified
P3671-14	S-912-J-SO-0.5-1-081924	Solid	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/19/2024	8270-Modified

Date/Time 08/21/24 9:30
Raw Sample Received by: Rm (See Log)
Raw Sample Relinquished by: Rm Sm

Date/Time 08/21/24 10:05
Raw Sample Received by: Rm Sm
Raw Sample Relinquished by: Rm (See Log)

Prep Standard - Chemical Standard Summary

Order ID : P3671
Test : SVOCMS Group3
Prepbatch ID : PB162880,
Sequence ID/Qc Batch ID: BN082224,BN082324,

Standard ID :
EP2521,EP2527,SP6527,SP6547,SP6548,SP6572,SP6573,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,S
P6603,SP6605,

Chemical ID :
E2865,E3551,E3746,E3759,E3768,E3769,E3786,E3787,E3788,S10103,S10247,S10782,S10977,S 11003,S11012,S11097,S
11494,S11566,S11766,S11767,S12029,S12077,S12096,S12097,S12112,S12113,S12117,S12118,

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	EP2521	08/10/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2	None	RUPESHKUMAR SHAH 08/10/2024

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>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2527	08/14/2024	02/13/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 08/14/2024

FROM 4000.00000ml of E3787 + 4000.00000ml of E3788 = Final Quantity: 16000.000 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>
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

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>
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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel
								07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6596	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.02500ml of S12113 + 0.03350ml of S10103 + 0.05000ml of S11494 + 0.10000ml of S12112 + 0.12500ml of S10782 +
0.25000ml of S11097 + 0.25000ml of S12077 + 24.16650ml of E3786 = Final Quantity: 25.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6597	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6596 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6598	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.68000ml of E3786 + 0.01000ml of SP6527 + 0.32000ml of SP6596 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6599	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.84000ml of E3786 + 0.01000ml of SP6527 + 0.16000ml of SP6596 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6600	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.92000ml of E3786 + 0.01000ml of SP6527 + 0.08000ml of SP6596 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6601	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.96000ml of E3786 + 0.01000ml of SP6527 + 0.04000ml of SP6596 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6602	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6601 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6603	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.75000ml of E3786 + 0.01000ml of SP6527 + 0.25000ml of SP6601 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6605	08/15/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed
								08/21/2024

FROM 0.00800ml of S10977 + 0.01600ml of S11003 + 0.04000ml of S10782 + 199.93600ml of E3788 = Final Quantity: 200.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

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 #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	01/12/2025	07/12/2024 /	07/02/2024 / Rajesh	E3769

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)	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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862022	02/13/2025	08/13/2024 / Rajesh	08/07/2024 / Rajesh	E3787

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	02/13/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ampul	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	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	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	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, CH2Cl2, 1mL	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	01/09/2025	07/09/2024 / Jagrut	02/05/2024 / Rahul	S12097

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	01/10/2025 / Jagrut	03/15/2024 / Rahul	S12118



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

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

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

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

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

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

Receivalon
02/07/23 by CG

Sheet 511096
to
511099

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

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

Brianna Smith

Certified By: _____

Brianna Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 495831

Expiration Date: 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

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

Certified By:



Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

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

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

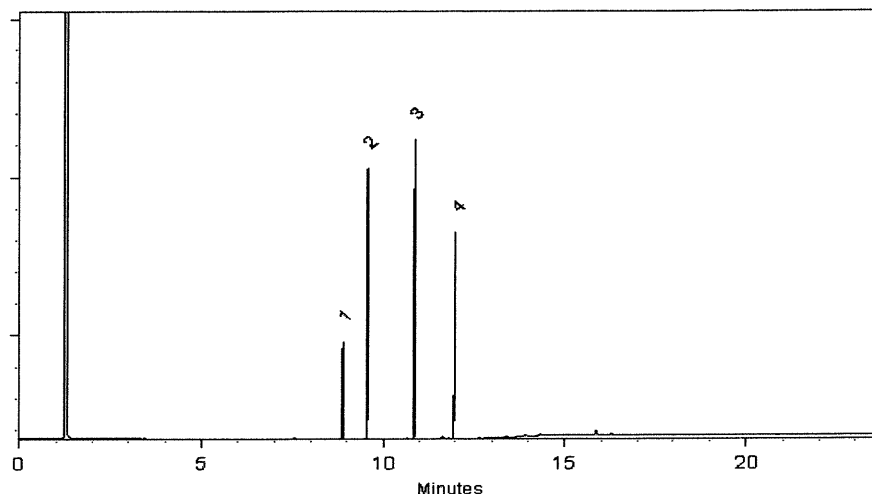
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on
09/07/22
by
CG
S10778
to
S10782

Catalog No. : 33913 **Lot No.:** A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Methylnaphthalene-d10 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:

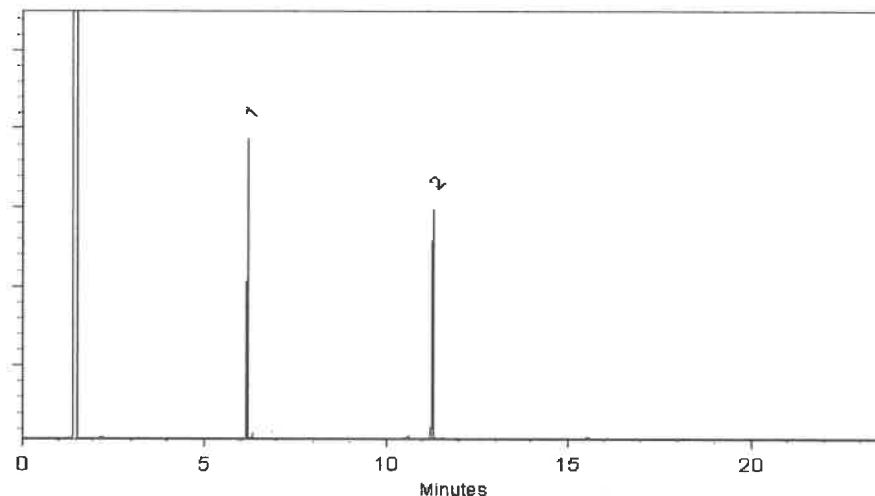
250°C

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received by
CG on
12/28/22
S10951
to
S10980

Catalog No. : 31087 **Lot No.:** A0188108
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

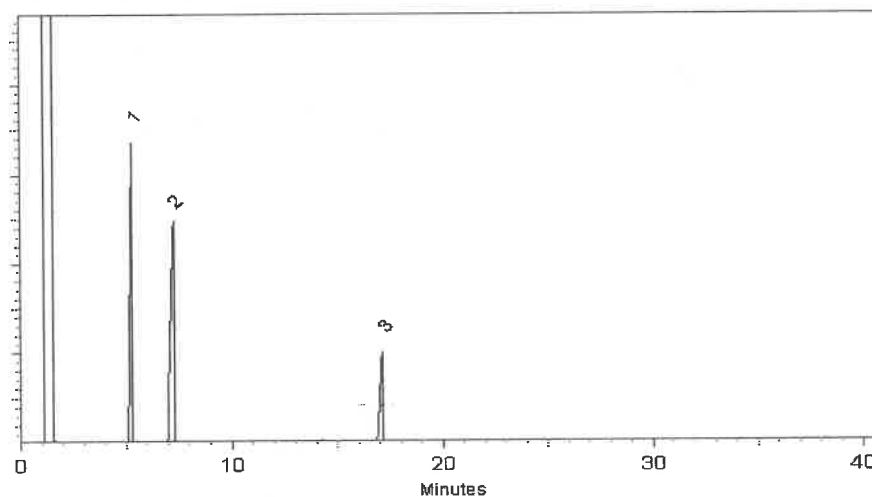
250°C

Det. Temp:

330°C

Det. Type:

FID



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


Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

CERTIFIED VALUES

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

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

Tech Tips:

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

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

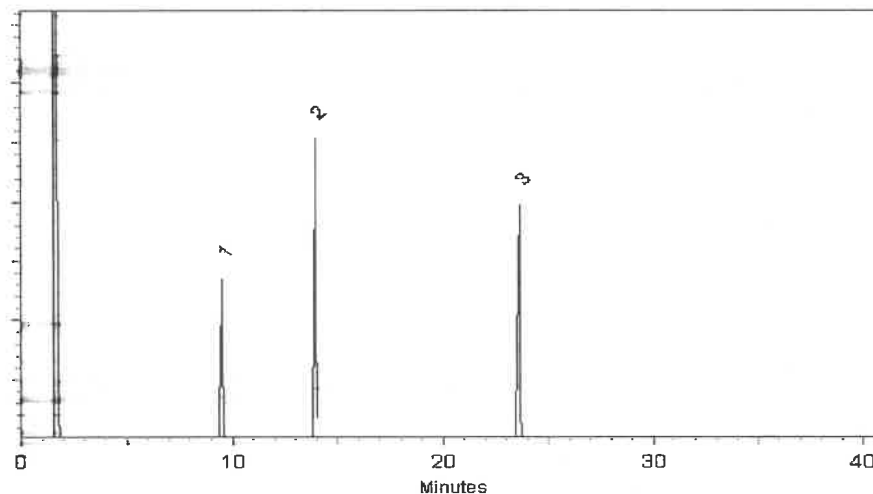
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

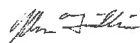
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555872 **Lot No.:** A0193449
Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2026 **Storage:** 10°C or colder
Ship: Ambient

Received on
01/13/23
by
CG
S11011
+0
S11015

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Jan-2023

Balance: B442140311

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

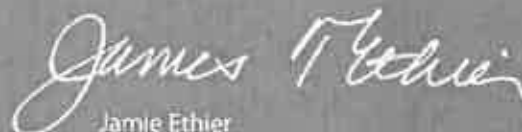
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


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



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

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

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

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

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

RC-02-01, Ed. 3

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24C0162011
Manufactured Date: 2024-01-04
Expiration Date: 2025-04-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24A04224

E 3746

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759


Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_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_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	< 0.01%

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

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

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24G0862022
Manufactured Date: 2024-06-05
Expiration Date: 2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4
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	0.3 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: MG24F05012

E 3787

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

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance



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

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

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

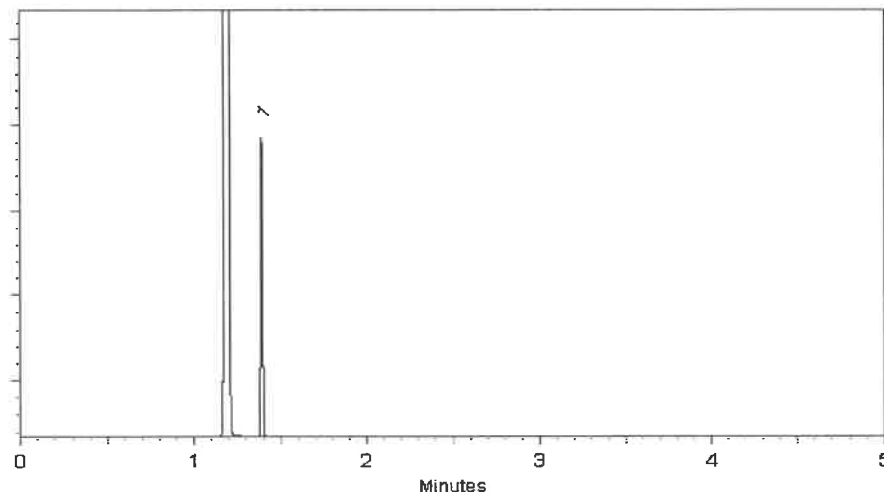
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

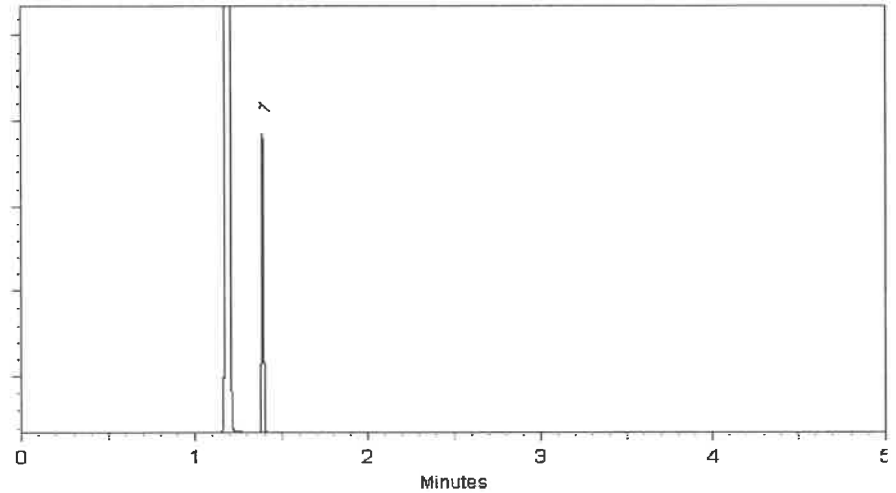
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31206 **Lot No.:** A0201320

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013
↓
S12042 } RC
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

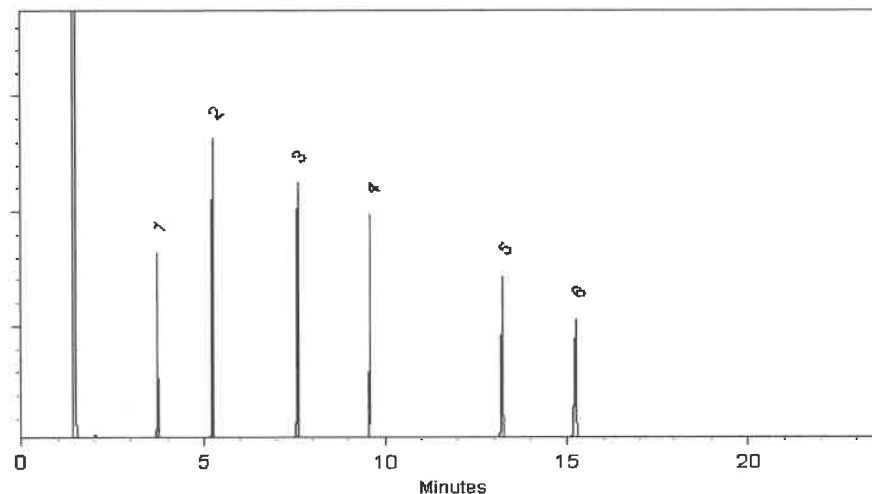
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

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



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075
↓
S12079 } RC
02/01/24

*Not a certified value

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

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

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

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

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

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

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

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<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.



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

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

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

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

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

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

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



SHIPPING DOCUMENTS

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

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: P3671 / P3672																							
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																							
COMPANY: JACOBS		PROJECT NAME: STC PTC		BILL TO: Mary Murphy PO#																							
ADDRESS: 10, 10th Street Suite 1400		PROJECT #: D379922 LOCATION: Princeton Junction		ADDRESS:																							
CITY Atlanta STATE: GA ZIP: 30309		PROJECT MANAGER: Mary Murphy		CITY: STATE: ZIP:																							
ATTENTION: Rachael McSpadden and Melissa Warren		E-MAIL: Mary.Murphy@Jacobs.com		ATTENTION: PHONE:																							
PHONE: FAX:		PHONE: FAX:																									
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>VOCs 8260D</td> <td>SVOCs (8270E)</td> <td>PAHs (8270E-SIM)</td> <td>Metals 6020B, Hg 7470B, Cr(VI) 3060A/7196A</td> <td>TOC Lloyd Kahn</td> <td>TOC Lloyd Kahn</td> <td>Particle Size Dist ASTM D422</td> <td>VOCs 5035/8260D</td> <td>Percent Moisture</td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td></td> <td></td> </tr> </table>		VOCs 8260D	SVOCs (8270E)	PAHs (8270E-SIM)	Metals 6020B, Hg 7470B, Cr(VI) 3060A/7196A	TOC Lloyd Kahn	TOC Lloyd Kahn	Particle Size Dist ASTM D422	VOCs 5035/8260D	Percent Moisture			1	2	3	4	5	6	7	8	9		
VOCs 8260D	SVOCs (8270E)	PAHs (8270E-SIM)	Metals 6020B, Hg 7470B, Cr(VI) 3060A/7196A			TOC Lloyd Kahn	TOC Lloyd Kahn	Particle Size Dist ASTM D422	VOCs 5035/8260D	Percent Moisture																	
1	2	3	4	5	6	7	8	9																			
FAX: _____ Standard TAT _____ DAYS* HARD COPY: _____ DAYS* EDD _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESULTS ONLY (L1) ☐ US EPA CLP (L4) ☐ RESULTS + QC (L2) ☐ NYS ASP "A" (L2) ☒ NJ REDUCED (L3) ☐ NYS ASP "B" (L4) ☐ NJ FULL (L4) ☐ Other _____ ☐ EDD Format _____																									
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS										
			COMP	GRAB	DATE	TIME		E	E	E	E	E	F,E	E													
								1	2	3	4	5	6	7	8	9											
1.	S-904-J-SO-0-0.5-081924	SO	X	X	8-19-24	0915	8		1	1		2	3	1			See attached Table for analyte list for each method										
2.	S-904-J-SO-0.5-10-081924	SO	X	X	8-19-24	0930	8		1	1		2	3	1													
3.	S-911-KI-SO-6-0.5-081924	SO	X	X	8-19-24	0945	8		1	1		2	3	1													
4.	S-911-KI-SO-8.5-1-081924	SO	X	X	8-19-24	1000	8		1	1		2	3	1													
5.	S-911-KI-SO-0-0.5-081924-FD	SO	X	X	8-19-24	1010	6		1	1		3	1														
6.	S-905-KI-SO-0-0.5-081924-	SO	X	X	8-19-24	1030	8		1	1		2	3	1													
7.	S-905-KI-SO-0-0.5-081924-FD	SO	X	X	8-19-24	1035	8		1	1		3	1														
8.	S-905-KI-SO-0.5-10-081924	SO	X	X	8-19-24	1045	8		1	1		2	3	1													
9.	S-928-KI-SO-0-6.5-081924	SO	X	X	8-19-24	1210	8		1	1		2	3	1													
10.	S-928-KI-SO-0.5-10-081924	SO	X	X	8-19-24	1220	8		1	1		2	3	1													
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																											
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>3.0 C</u> MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: _____ Comments: All analytes to be run for requested analytes associated with Soil Eco work.																					
1.		8-19-24 1705		1.																							
RELINQUISHED BY		DATE/TIME		RECEIVED BY																							
2.		8-19-24 1820		2.		SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight Shipment Complete ☐ YES ☐ NO																					
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY																							
3.		8-19-24		3.																							
Page <u>1</u> of <u>2</u>																											
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY																											

Copyright © 10/2021

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3671	JACO05	Order Date : 8/20/2024 10:36:00 AM	Project Mgr : Kiran
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger Site I	Report Type : Level 4
Client Contact : Mary I. Murphy		Receive DateTime : 8/19/2024 6:20:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : Mary I. Murphy			Date Signoff : 8/20/2024 1:52:05 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3671-01	S-904-J-SO-0-0.5-081924	Solid	08/19/2024	09:15					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-02	S-904-J-SO-0.5-1.0-081924	Solid	08/19/2024	09:30					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-03	S-911-K1-SO-0-0.5-081924	Solid	08/19/2024	09:45					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-04	S-911-K1-SO-0.5-1-081924	Solid	08/19/2024	10:00					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-05	S-911-K1-SO-0-0.5-081924-FD	Solid	08/19/2024	10:10					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-06	S-905-KJ-SO-0-0.5-081924	Solid	08/19/2024	10:30					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	Solid	08/19/2024	10:35					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-08	S-905-J-SO-0.5-1.0-081924	Solid	08/19/2024	10:45					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3671	JACO05	Order Date : 8/20/2024 10:36:00 AM	Project Mgr : Kiran
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger Site I	Report Type : Level 4
Client Contact : Mary I. Murphy		Receive DateTime : 8/19/2024 6:20:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : Mary I. Murphy			Date Signoff : 8/20/2024 1:52:05 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group5		8260D	10 Bus. Days	
P3671-09	S-928-K1-SO-0-0.5-081924	Solid	08/19/2024	12:10					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-10	S-928-K1-SO-0.5-1-081924	Solid	08/19/2024	12:20					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-11	S-903-J-SO-0-0.5-081924	Solid	08/19/2024	13:10					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-12	S-903-J-SO-0.5-1.0-081924	Solid	08/19/2024	13:20					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-13	S-912-J-SO-0-0.5-081924	Solid	08/19/2024	13:30					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-14	S-912-J-SO-0.5-1-081924	Solid	08/19/2024	13:40					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-15	TB-01-081924	Water	08/19/2024	09:40					
					VOCMS Group6		8260-Low	10 Bus. Days	



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3671	JACO05	Order Date : 8/20/2024 10:36:00 AM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger Site I	Report Type : Level 4
Client Contact : Mary I. Murphy		Receive DateTime : 8/19/2024 6:20:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : Mary I. Murphy			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By :

Date / Time :

8/20/24 1330

Received By :

Date / Time :

8/20/24 13:30

Storage Area : VOA Refridgerator Room

Ref 6
P22
Ref #5