

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 : P3609

ATTENTION : Mary I. Murphy



Laboratory Certification ID # 20012



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Cover Page

Order ID : P3609

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3609-01
P3609-02
P3609-03

Client Sample Number

915-J-WS-081424
920-J-WS-081424
TB-01-081424

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

Signature :

N. N. Pandya

NYDOH CERTIFICATION NO - 11376

APPROVED

By Nimisha Pandya QA/QC Supervisor at 11:30 am, Sep 05, 2024

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3609

Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/14/2024.

B. Parameters

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

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group3 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for 915-J-WS-081424 [Terphenyl-d14 - 163%], 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 RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID BN033465.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

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

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

F. Manual Integration Comments:

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

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

Signature N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 11:30 am, Sep 05, 2024

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: P3609

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.		✓	
	The Initial Calibration met the requirements .			
	The Continuous Calibration File ID BN033465.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for 915-J-WS-081424 [Terphenyl-d14 - 163%], 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.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples .			
	The Blank Spike Duplicate met requirements for all samples .			

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

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

ADDITIONAL COMMENTS:

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

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.

S. M. Jodhani
QA REVIEW

REVIEWED

By Sohil Jodhani, QA/QC Director at 11:01 am, Sep 05, 2024

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3609

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

1st Level QA Review Signature: SOHIL JODHANI

Date: 08/22/2024

2nd Level QA Review Signature:

N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 11:31 am, Sep 05, 2024

LAB CHRONICLE

OrderID:	P3609	OrderDate:	8/14/2024 12:48:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	D21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3609-01	915-J-WS-081424	Water	SVOCMS Group3	8270-Modified	08/14/24	08/15/24	08/17/24	08/14/24
P3609-02	920-J-WS-081424	Water	SVOCMS Group3	8270-Modified	08/14/24	08/15/24	08/17/24	08/14/24

Hit Summary Sheet SW-846

SDG No.: P3609
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	915-J-WS-081424							
P3609-01	915-J-WS-081424	WATER	Fluorene	0.070	J	0.02	0.1	ug/L
P3609-01	915-J-WS-081424	WATER	Phenanthrene	0.040	J	0.02	0.1	ug/L
P3609-01	915-J-WS-081424	WATER	Fluoranthene	0.060	J	0.02	0.1	ug/L
P3609-01	915-J-WS-081424	WATER	Pyrene	0.040	J	0.02	0.1	ug/L
P3609-01	915-J-WS-081424	WATER	Chrysene	0.030	J	0.03	0.1	ug/L
P3609-01	915-J-WS-081424	WATER	Benzo(b)fluoranthene	0.030	J	0.03	0.1	ug/L
			Total Svoc :			0.27		
			Total Concentration:			0.27		
Client ID :	920-J-WS-081424							
P3609-02	920-J-WS-081424	WATER	Fluorene	0.040	J	0.02	0.1	ug/L
P3609-02	920-J-WS-081424	WATER	Phenanthrene	0.040	J	0.02	0.1	ug/L
P3609-02	920-J-WS-081424	WATER	Fluoranthene	0.060	J	0.02	0.1	ug/L
P3609-02	920-J-WS-081424	WATER	Pyrene	0.040	J	0.02	0.1	ug/L
P3609-02	920-J-WS-081424	WATER	Chrysene	0.040	J	0.03	0.1	ug/L
P3609-02	920-J-WS-081424	WATER	Benzo(b)fluoranthene	0.030	J	0.03	0.1	ug/L
			Total Svoc :			0.25		
			Total Concentration:			0.25		



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P3609

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P3609-01	915-J-WS-081424	2-Methylnaphthalene-d10	0.4	0.28	69		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.37	91		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.35	88		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.33	81		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.65	163	*	30 (35)	130 (157)
P3609-02	920-J-WS-081424	2-Methylnaphthalene-d10	0.4	0.27	67		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.35	88		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.33	83		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.29	73		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.49	122		30 (35)	130 (157)
PB162758BL	PB162758BL	2-Methylnaphthalene-d10	0.4	0.30	76		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.31	77		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.39	96		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.35	88		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.44	109		30 (35)	130 (157)
PB162758BS	PB162758BS	2-Methylnaphthalene-d10	0.4	0.33	82		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.32	80		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.40	100		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.38	94		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.39	97		30 (35)	130 (157)
PB162758BSD	PB162758BSD	2-Methylnaphthalene-d10	0.4	0.32	81		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.32	79		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.40	100		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.38	95		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.39	98		30 (35)	130 (157)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3609

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified DataFile: BN033461.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB162758BS	Naphthalene	0.4	0.37	ug/L	93				70 (67)	130 (120)		
	2-Methylnaphthalene	0.4	0.33	ug/L	83				70 (50)	130 (122)		
	Acenaphthylene	0.4	0.33	ug/L	83				70 (60)	130 (119)		
	Acenaphthene	0.4	0.35	ug/L	88				70 (65)	130 (119)		
	Fluorene	0.4	0.32	ug/L	80				70 (58)	130 (122)		
	Phenanthrene	0.4	0.36	ug/L	90				70 (65)	130 (117)		
	Anthracene	0.4	0.35	ug/L	88				70 (57)	130 (118)		
	Fluoranthene	0.4	0.32	ug/L	80				70 (53)	130 (126)		
	Pyrene	0.4	0.39	ug/L	98				70 (54)	130 (124)		
	Benzo(a)anthracene	0.4	0.36	ug/L	90				70 (54)	130 (130)		
	Chrysene	0.4	0.37	ug/L	93				70 (64)	130 (126)		
	Benzo(b)fluoranthene	0.4	0.36	ug/L	90				70 (65)	130 (121)		
	Benzo(k)fluoranthene	0.4	0.35	ug/L	88				70 (72)	130 (119)		
	Benzo(a)pyrene	0.4	0.36	ug/L	90				70 (68)	130 (120)		
	Indeno(1,2,3-cd)pyrene	0.4	0.37	ug/L	93				70 (70)	130 (127)		
	Dibenz(a,h)anthracene	0.4	0.38	ug/L	95				70 (65)	130 (121)		
	Benzo(g,h,i)perylene	0.4	0.36	ug/L	90				70 (76)	130 (117)		
	1,4-Dioxane	0.4	0.37	ug/L	93				20 (42)	160 (127)		

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3609

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

DataFile: BN033462.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		
							Qual	Qual	Low	High	RPD
PB162758BSD	Naphthalene	0.4	0.37	ug/L	93	0			70 (67)	130 (120)	20 (20)
	2-Methylnaphthalene	0.4	0.33	ug/L	83	0			70 (50)	130 (122)	20 (20)
	Acenaphthylene	0.4	0.33	ug/L	83	0			70 (60)	130 (119)	20 (20)
	Acenaphthene	0.4	0.35	ug/L	88	0			70 (65)	130 (119)	20 (20)
	Fluorene	0.4	0.32	ug/L	80	0			70 (58)	130 (122)	20 (20)
	Phenanthrene	0.4	0.36	ug/L	90	0			70 (65)	130 (117)	20 (20)
	Anthracene	0.4	0.35	ug/L	88	0			70 (57)	130 (118)	20 (20)
	Fluoranthene	0.4	0.32	ug/L	80	0			70 (53)	130 (126)	20 (20)
	Pyrene	0.4	0.39	ug/L	98	0			70 (54)	130 (124)	20 (20)
	Benzo(a)anthracene	0.4	0.36	ug/L	90	0			70 (54)	130 (130)	20 (20)
	Chrysene	0.4	0.37	ug/L	93	0			70 (64)	130 (126)	20 (20)
	Benzo(b)fluoranthene	0.4	0.36	ug/L	90	0			70 (65)	130 (121)	20 (20)
	Benzo(k)fluoranthene	0.4	0.35	ug/L	88	0			70 (72)	130 (119)	20 (20)
	Benzo(a)pyrene	0.4	0.37	ug/L	93	3			70 (68)	130 (120)	20 (20)
	Indeno(1,2,3-cd)pyrene	0.4	0.38	ug/L	95	3			70 (70)	130 (127)	20 (20)
	Dibenz(a,h)anthracene	0.4	0.38	ug/L	95	0			70 (65)	130 (121)	20 (20)
	Benzo(g,h,i)perylene	0.4	0.37	ug/L	93	3			70 (76)	130 (117)	20 (20)
	1,4-Dioxane	0.4	0.37	ug/L	93	0			20 (42)	160 (127)	20 (20)

() = LABORATORY INHOUSE LIMIT

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162758BL

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: P3609

SAS No.: P3609 SDG NO.: P3609

Lab File ID: BN033448.D

Lab Sample ID: PB162758BL

Instrument ID: BNA_N

Date Extracted: 08/15/2024

Matrix: (soil/water) Water

Date Analyzed: 08/17/2024

Level: (low/med) LOW

Time Analyzed: 02:24

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB162758BS	PB162758BS	BN033461.D	08/17/2024
PB162758BSD	PB162758BSD	BN033462.D	08/17/2024
915-J-WS-081424	P3609-01	BN033471.D	08/17/2024
920-J-WS-081424	P3609-02	BN033454.D	08/17/2024

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.: P3609SDG NO.: P3609Lab File ID: BN033333.DDFTPP Injection Date: 08/10/2024Instrument ID: BNA_NDFTPP Injection Time: 12:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.8
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	39.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	50
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	7.1
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	3.4
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	13.6 (19) 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	BN033334.D	08/10/2024	13:40
SSTDICC0.2	SSTDICC0.2	BN033335.D	08/10/2024	14:16
SSTDICCC0.4	SSTDICCC0.4	BN033336.D	08/10/2024	14:53
SSTDICC0.8	SSTDICC0.8	BN033337.D	08/10/2024	15:29
SSTDICC1.6	SSTDICC1.6	BN033338.D	08/10/2024	16:05
SSTDICC3.2	SSTDICC3.2	BN033339.D	08/10/2024	16:41
SSTDICC5.0	SSTDICC5.0	BN033340.D	08/10/2024	17:17



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.: P3609SDG NO.: P3609Lab File ID: BN033446.DDFTPP Injection Date: 08/17/2024Instrument ID: BNA_NDFTPP Injection Time: 01:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.1
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	39.7
70	Less than 2.0% of mass 69	0.2 (0.5) 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	6.7
275	10.0 - 60.0% of mass 198	27.1
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	10.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.7 (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	BN033447.D	08/17/2024	01:48
PB162758BL	PB162758BL	BN033448.D	08/17/2024	02:24
920-J-WS-081424	P3609-02	BN033454.D	08/17/2024	06:02
PB162758BS	PB162758BS	BN033461.D	08/17/2024	10:16
PB162758BSD	PB162758BSD	BN033462.D	08/17/2024	10:52



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.: P3609 SDG NO.: P3609Lab File ID: BN033464.DDFTPP Injection Date: 08/17/2024Instrument ID: BNA_NDFTPP Injection Time: 12:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	40.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.8
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	25.9
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	10.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.3 (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	BN033465.D	08/17/2024	12:44
915-J-WS-081424	P3609-01	BN033471.D	08/17/2024	16:57

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3609 SAS No.: P3609 SDG NO.: P3609

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/17/2024

Lab File ID: BN033447.D Time Analyzed: 01:48

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	8031	7.566	21798	10.33	11010	14.20
UPPER LIMIT	16062	8.066	43596	10.825	22020	14.699
LOWER LIMIT	4015.5	7.066	10899	9.825	5505	13.699
EPA SAMPLE NO.						
01 PB162758BL	7577	7.57	19459	10.33	7966	14.20
02 PB162758BS	10423	7.56	28103	10.33	13134	14.19
03 PB162758BSD	10549	7.56	28597	10.33	13216	14.19
04 920-J-WS-081424	7674	7.56	20880	10.33	10506	14.20

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.: P3609 SAS No.: P3609 SDG NO.: P3609

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/17/2024

Lab File ID: BN033447.D Time Analyzed: 01:48

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	23709	16.942	20481	21.148	22515	23.32
UPPER LIMIT	47418	17.442	40962	21.648	45030	23.82
LOWER LIMIT	11854.5	16.442	10240.5	20.648	11257.5	22.82
EPA SAMPLE NO.						
01 PB162758BL	15538	16.94	12119	21.15	13565	23.32
02 PB162758BS	24899	16.94	19137	21.15	20949	23.32
03 PB162758BSD	24103	16.94	18281	21.15	19793	23.32
04 920-J-WS-081424	19650	16.94	15396	21.15	16092	23.32

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.: P3609 SAS No.: P3609 SDG NO.: P3609

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/17/2024

Lab File ID: BN033465.D Time Analyzed: 12:44

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	9226	7.559	24578	10.33	11119	14.19
UPPER LIMIT	18452	8.059	49156	10.825	22238	14.688
LOWER LIMIT	4613	7.059	12289	9.825	5559.5	13.688
EPA SAMPLE NO.						
01 915-J-WS-081424	8277	7.56	22118	10.31	10650	14.19

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.: P3609 SAS No.: P3609 SDG NO.: P3609

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/17/2024

Lab File ID: BN033465.D Time Analyzed: 12:44

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	20461	16.942	15810	21.148	17492	23.323
UPPER LIMIT	40922	17.442	31620	21.648	34984	23.823
LOWER LIMIT	10230.5	16.442	7905	20.648	8746	22.823
EPA SAMPLE NO.						
01 915-J-WS-081424	21491	16.94	18138	21.15	19135	23.32

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/14/24
Client Sample ID:	915-J-WS-081424	SDG No.:	P3609
Lab Sample ID:	P3609-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033471.D	1	08/15/24 08:23	08/17/24 16:57	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.030	U	0.030	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.070	J	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.040	J	0.020	0.10	ug/L
120-12-7	Anthracene	0.030	U	0.030	0.10	ug/L
206-44-0	Fluoranthene	0.060	J	0.020	0.10	ug/L
129-00-0	Pyrene	0.040	J	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.10	ug/L
218-01-9	Chrysene	0.030	J	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	J	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.040	U	0.040	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.28		30 (20) - 150 (139)	69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 (30) - 150 (150)	91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		30 (27) - 130 (123)	88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		30 (34) - 130 (132)	81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.65	*	30 (35) - 130 (157)	163%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8280	7.559			
1146-65-2	Naphthalene-d8	22100	10.314			
15067-26-2	Acenaphthene-d10	10700	14.189			
1517-22-2	Phenanthrene-d10	21500	16.942			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/14/24
Client Sample ID:	915-J-WS-081424	SDG No.:	P3609
Lab Sample ID:	P3609-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033471.D	1	08/15/24 08:23	08/17/24 16:57	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	18100	21.148			
1520-96-3	Perylene-d12	19100	23.317			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081824\
Data File : BN033471.D
Acq On : 17 Aug 2024 16:57
Operator : MA/JU
Sample : P3609-01
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
915-J-WS-081424

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

Quant Time: Aug 17 23:31:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	8277	0.400	ng	-0.01
7) Naphthalene-d8	10.314	136	22118	0.400	ng	-0.02
13) Acenaphthene-d10	14.189	164	10650	0.400	ng	-0.01
19) Phenanthrene-d10	16.942	188	21491	0.400	ng	-0.01
29) Chrysene-d12	21.148	240	18138	0.400	ng	0.00
35) Perylene-d12	23.317	264	19135	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	3717	0.163	ng	0.00
5) Phenol-d6	6.743	99	2874	0.093	ng	0.00
8) Nitrobenzene-d5	8.691	82	5896	0.353	ng	-0.01
11) 2-Methylnaphthalene-d10	11.915	152	9376	0.275	ng	-0.02
14) 2,4,6-Tribromophenol	15.688	330	1883	0.345	ng	-0.01
15) 2-Fluorobiphenyl	12.810	172	14222	0.326	ng	-0.01
27) Fluoranthene-d10	18.984	212	20949	0.365	ng	0.00
31) Terphenyl-d14	19.597	244	22331	0.652	ng	0.00
Target Compounds						
18) Fluorene	15.247	166	3153m	0.070	ng	Qvalue
25) Phenanthrene	16.979	178	2688	0.043	ng	99
28) Fluoranthene	19.012	202	4528	0.059	ng	96
30) Pyrene	19.374	202	2687	0.037	ng	# 93
33) Chrysene	21.184	228	1812	0.027	ng	# 89
34) Bis(2-ethylhexyl)phtha...	21.095	149	1546	0.050	ng	# 91
37) Benzo(b)fluoranthene	22.671	252	1702	0.024	ng	# 1

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

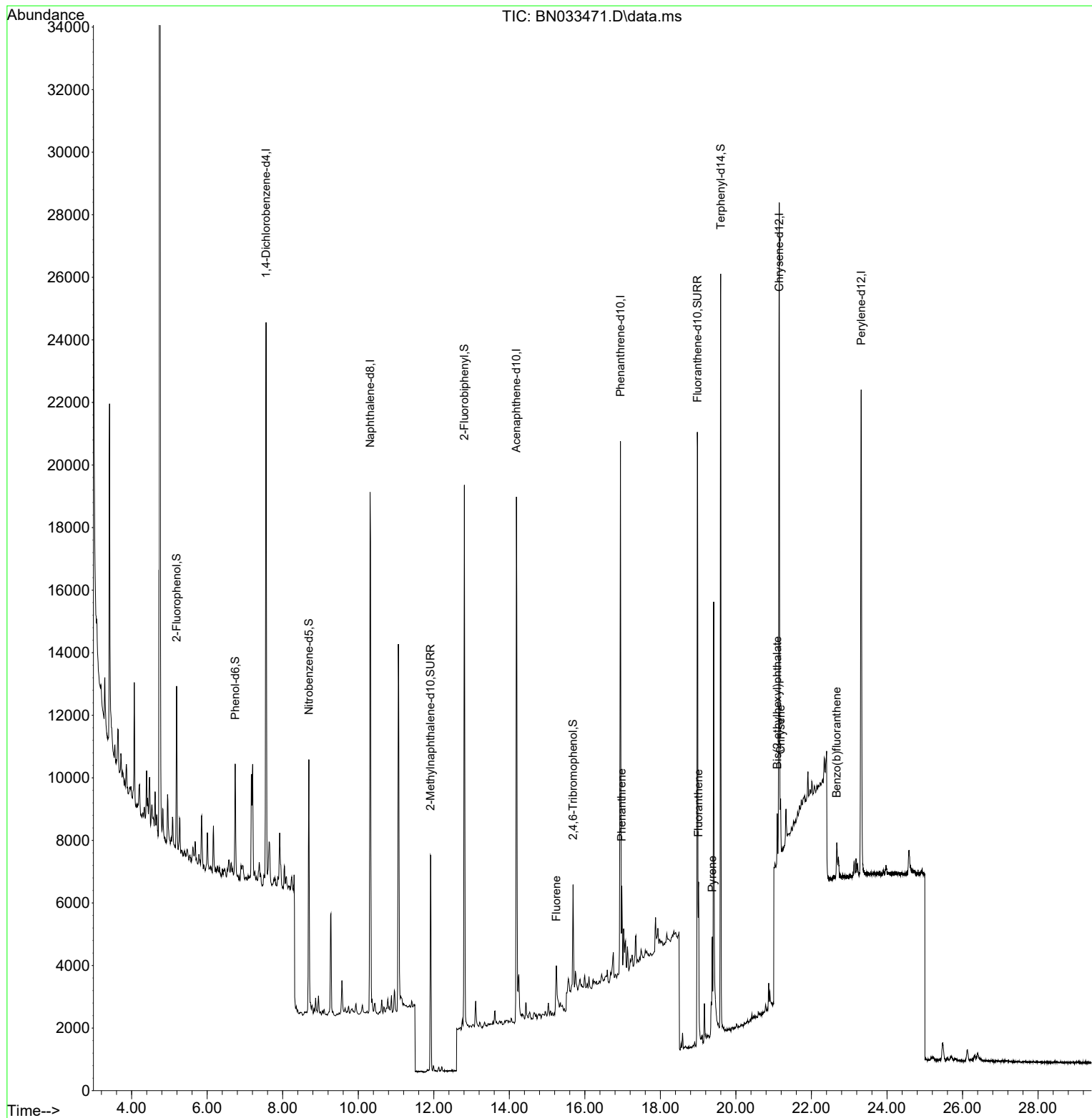
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Data File : BN033471.D
Acq On : 17 Aug 2024 16:57
Operator : MA/JU
Sample : P3609-01
Misc :
ALS Vial : 45 Sample Multiplier: 1

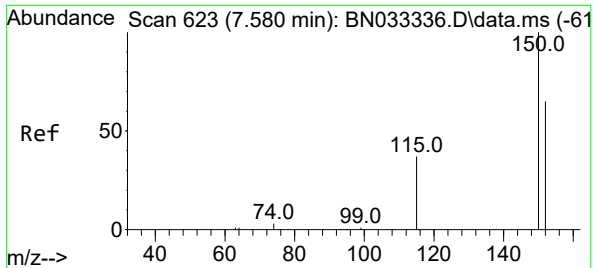
Instrument :
BNA_N
ClientSampleId :
915-J-WS-081424

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

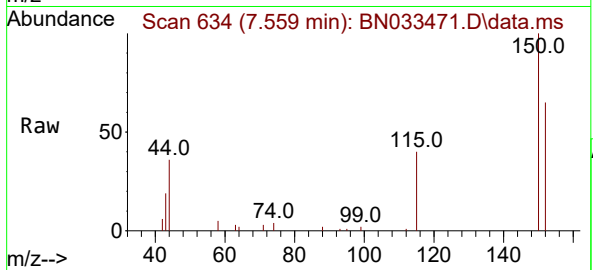
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

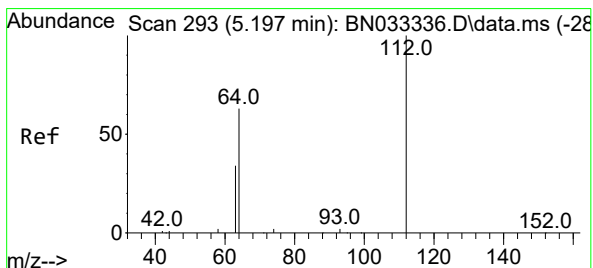
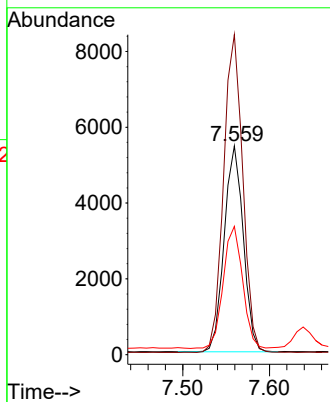
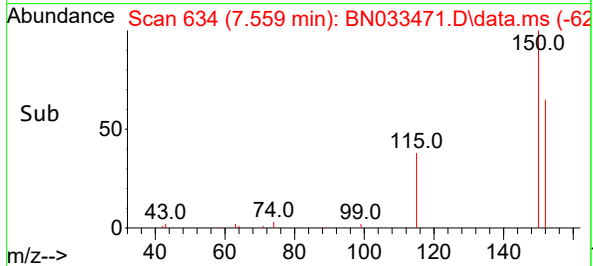
Instrument :
BNA_N
ClientSampleId :
915-J-WS-081424



Tgt Ion:152 Resp: 827
Ion Ratio Lower Upper
152 100
150 153.3 122.3 183.5
115 61.5 48.8 73.2

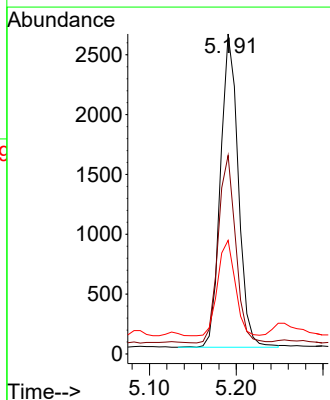
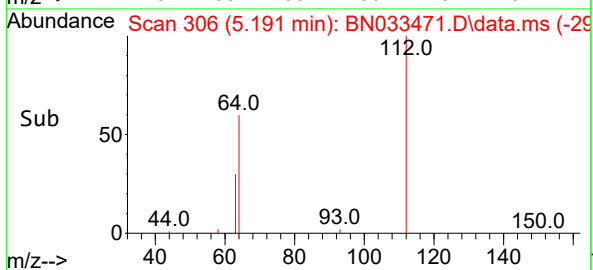
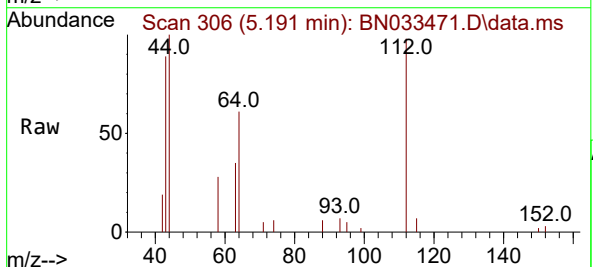
Manual Integrations
APPROVED

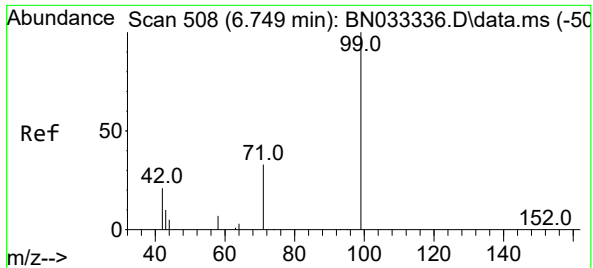
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#4
2-Fluorophenol
Concen: 0.163 ng
RT: 5.191 min Scan# 306
Delta R.T. -0.007 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

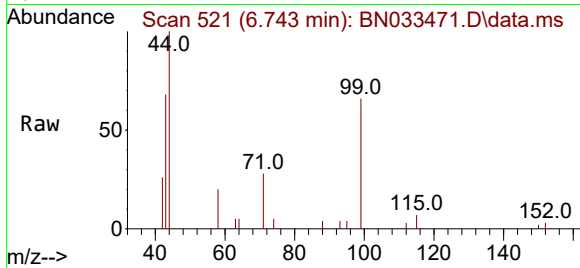
Tgt Ion:112 Resp: 3717
Ion Ratio Lower Upper
112 100
64 58.7 48.1 72.1
63 30.1 25.4 38.2





#5
Phenol-d6
Concen: 0.093 ng
RT: 6.743 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

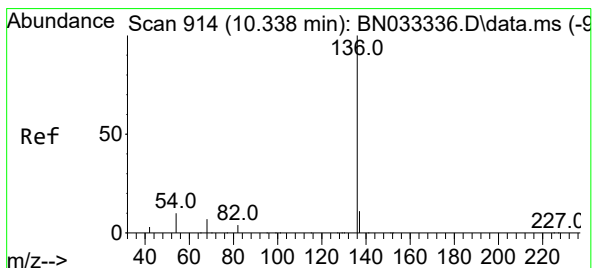
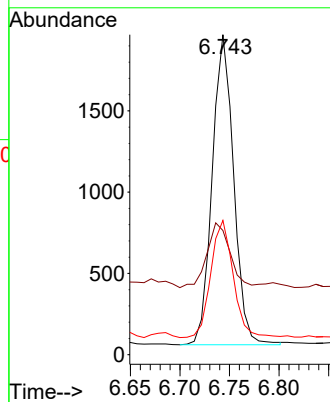
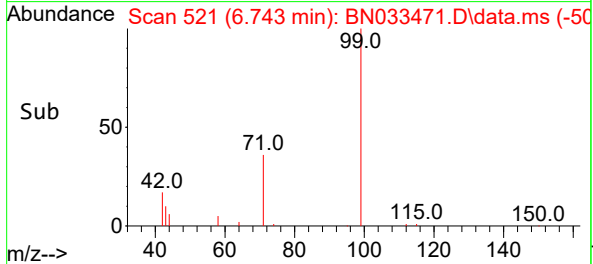
Instrument :
BNA_N
ClientSampleId :
915-J-WS-081424



Tgt Ion: 99 Resp: 2874
Ion Ratio Lower Upper
99 100
42 22.2 18.5 27.7
71 39.7 26.2 39.2

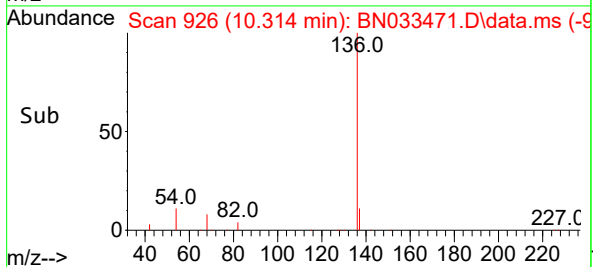
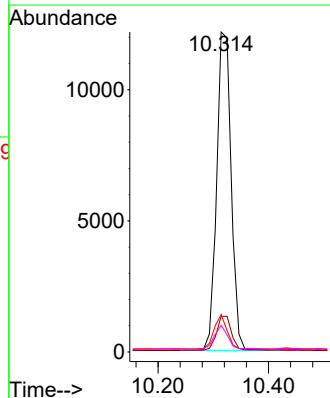
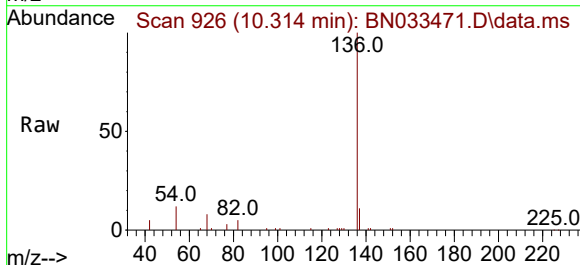
Manual Integrations
APPROVED

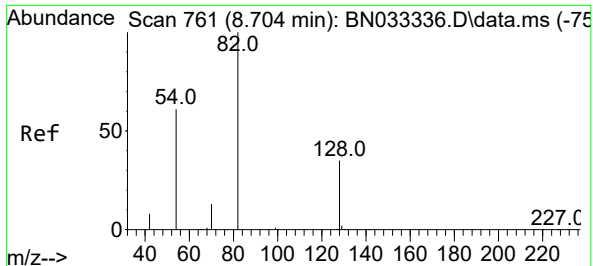
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 926
Delta R.T. -0.021 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

Tgt Ion:136 Resp: 22118
Ion Ratio Lower Upper
136 100
137 11.2 9.1 13.7
54 11.7 9.4 14.0
68 8.4 7.0 10.4





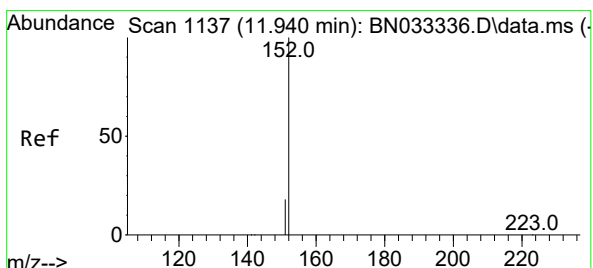
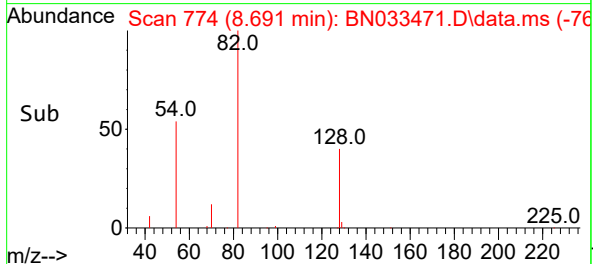
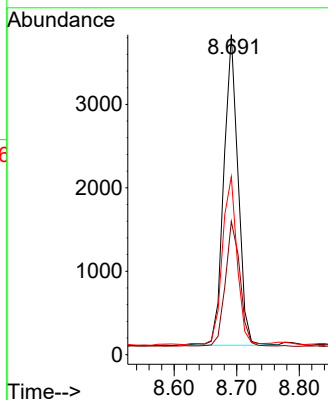
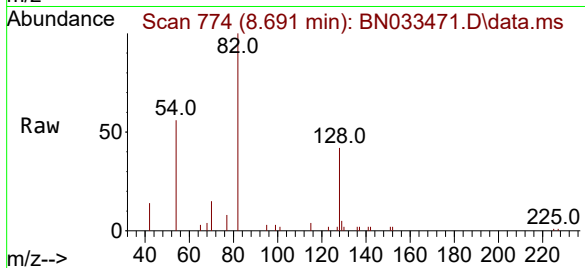
#8
Nitrobenzene-d5
Concen: 0.353 ng
RT: 8.691 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

Instrument :
BNA_N
ClientSampleId :
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Tgt Ion: 82 Resp: 5890
Ion Ratio Lower Upper
82 100
128 41.7 29.0 43.4
54 55.6 50.2 75.4

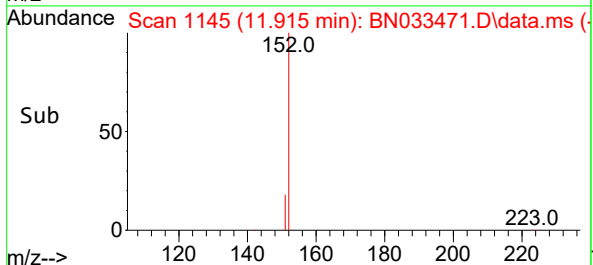
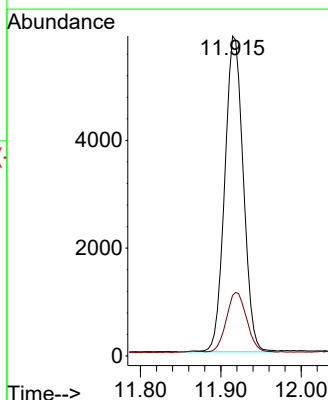
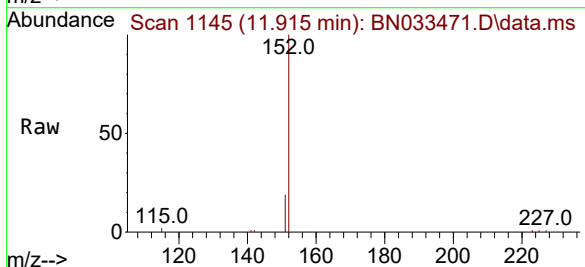
Manual Integrations
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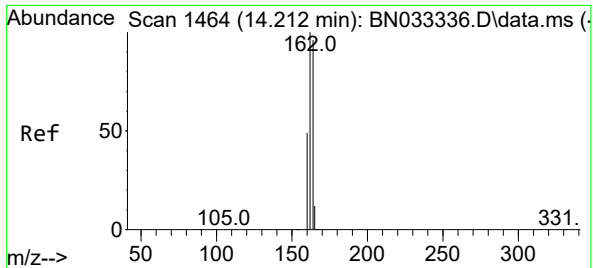
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#11
2-Methylnaphthalene-d10
Concen: 0.275 ng
RT: 11.915 min Scan# 1145
Delta R.T. -0.015 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

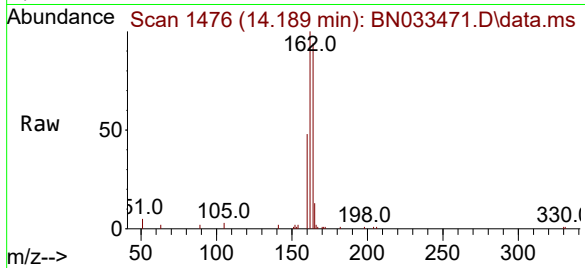
Tgt Ion:152 Resp: 9376
Ion Ratio Lower Upper
152 100
151 20.7 16.7 25.1





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

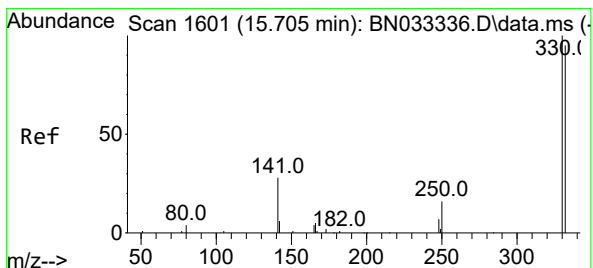
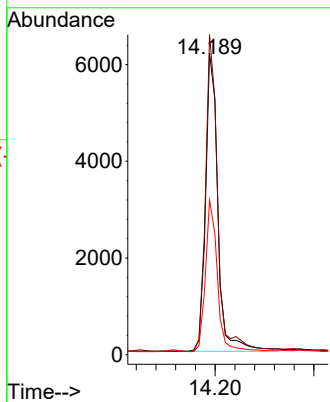
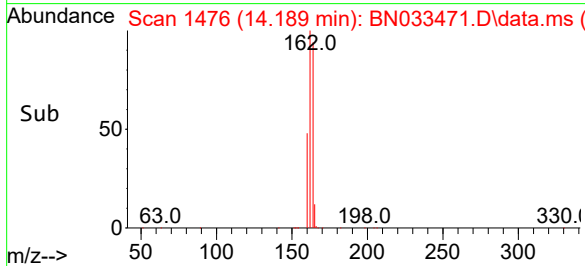
Instrument :
BNA_N
ClientSampleId :
915-J-WS-081424



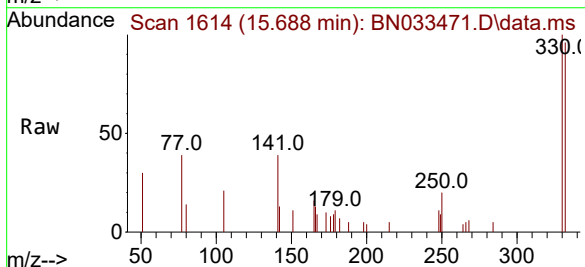
Tgt Ion:164 Resp: 10650
Ion Ratio Lower Upper
164 100
162 106.1 83.1 124.7
160 51.2 41.1 61.7

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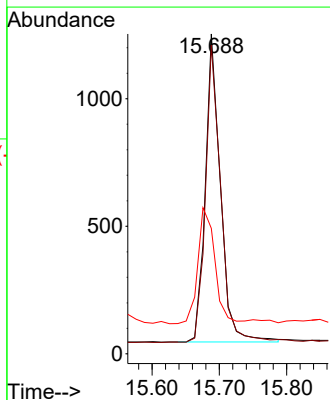
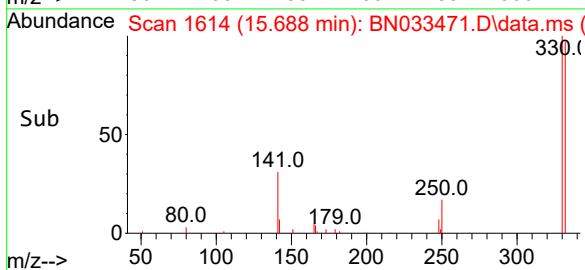
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

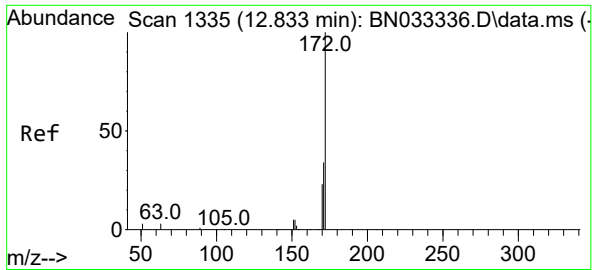


#14
2,4,6-Tribromophenol
Concen: 0.345 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.012 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57



Tgt Ion:330 Resp: 1883
Ion Ratio Lower Upper
330 100
332 97.3 77.1 115.7
141 42.7 33.4 50.0





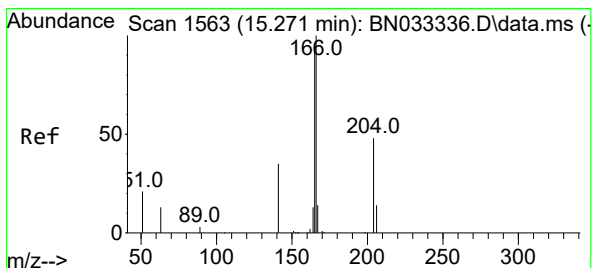
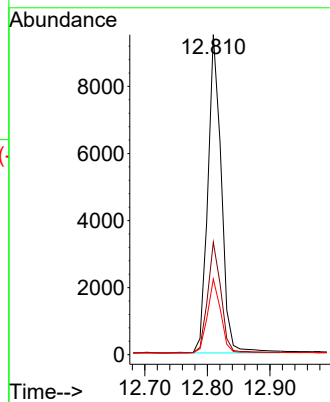
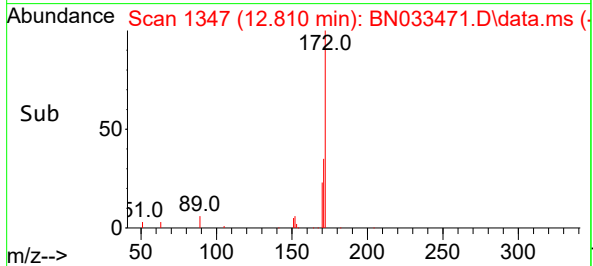
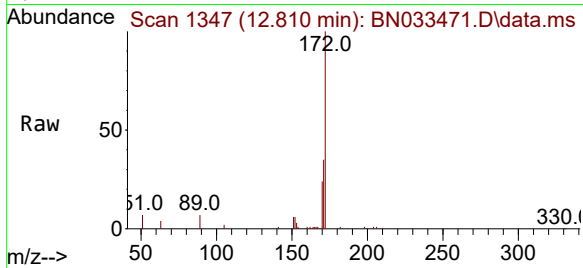
#15
2-Fluorobiphenyl
Concen: 0.326 ng
RT: 12.810 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

Instrument :
BNA_N
ClientSampleId :
915-J-WS-081424

Tgt Ion:172 Resp: 1422
Ion Ratio Lower Upper
172 100
171 35.1 27.8 41.8
170 23.6 18.7 28.1

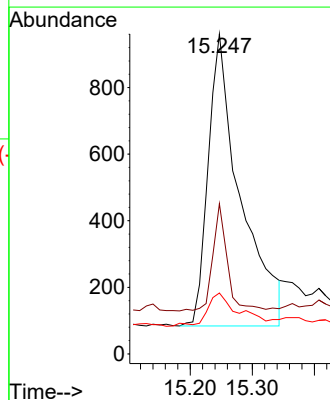
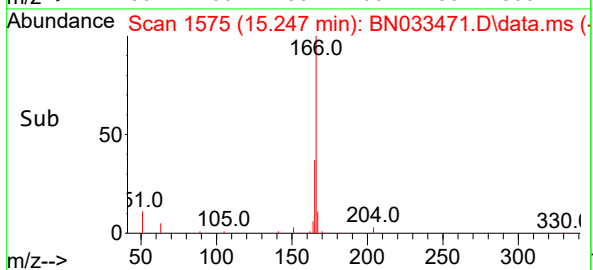
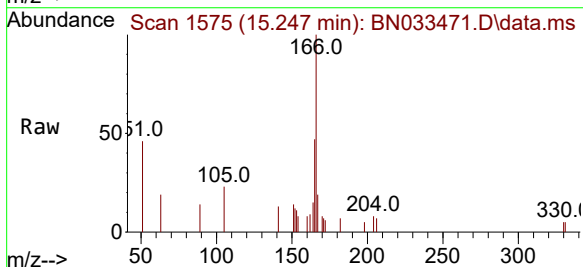
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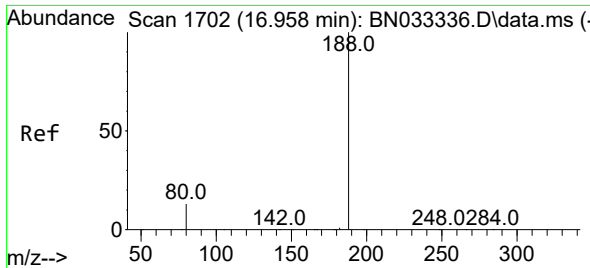
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#18
Fluorene
Concen: 0.070 ng m
RT: 15.247 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

Tgt Ion:166 Resp: 3153
Ion Ratio Lower Upper
166 100
165 16.1 78.0 117.0#
167 10.0 10.7 16.1#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. -0.012 min

Lab File: BN033471.D

Acq: 17 Aug 2024 16:57

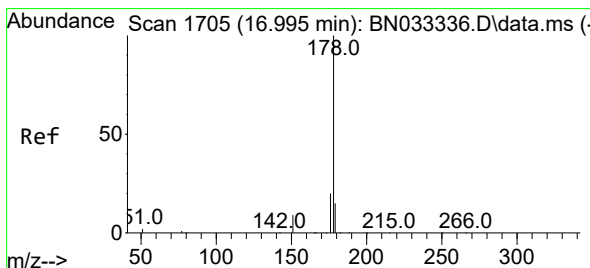
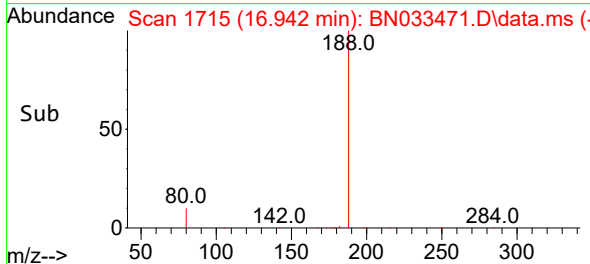
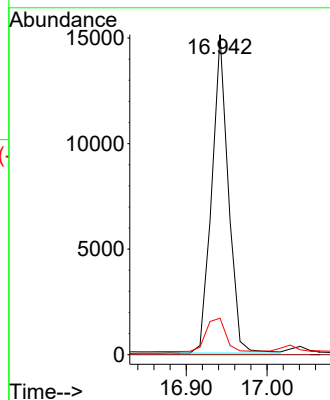
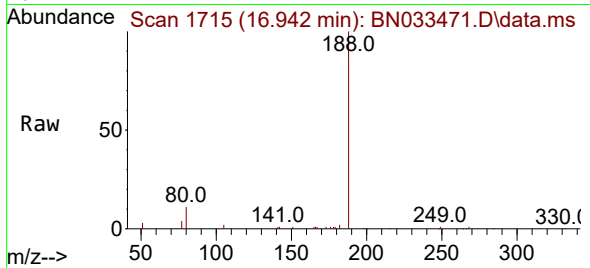
Instrument :

BNA_N

ClientSampleId :

915-J-WS-081424

Tgt Ion:	188	Resp:	2149
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.4	10.7	16.1

Manual Integrations
APPROVEDReviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

#25

Phenanthrene

Concen: 0.043 ng

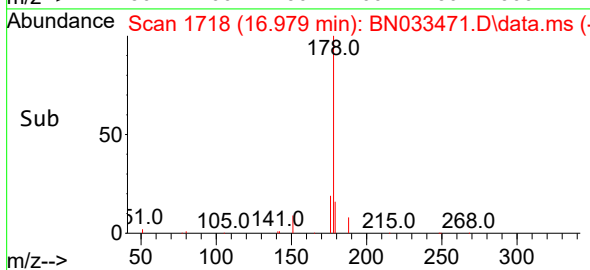
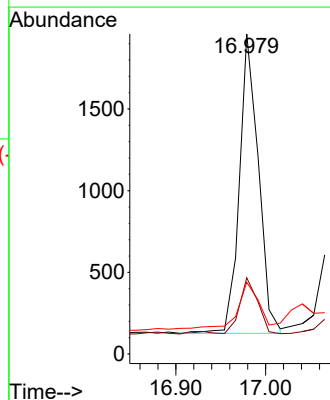
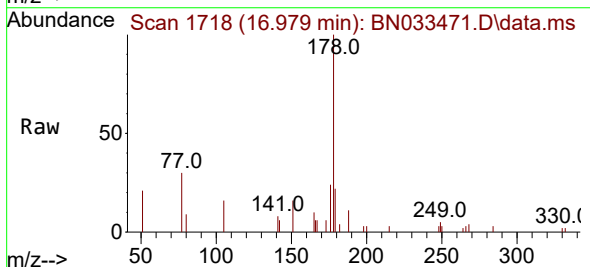
RT: 16.979 min Scan# 1718

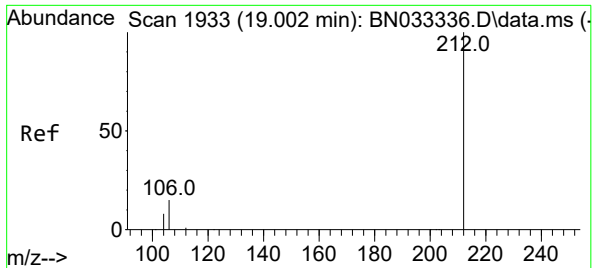
Delta R.T. -0.012 min

Lab File: BN033471.D

Acq: 17 Aug 2024 16:57

Tgt Ion:	178	Resp:	2688
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.4	23.0
179	16.1	12.2	18.2





#27

Fluoranthene-d10

Concen: 0.365 ng

RT: 18.984 min Scan# 1944

Delta R.T. -0.009 min

Lab File: BN033471.D

Acq: 17 Aug 2024 16:57

Instrument :

BNA_N

ClientSampleId :

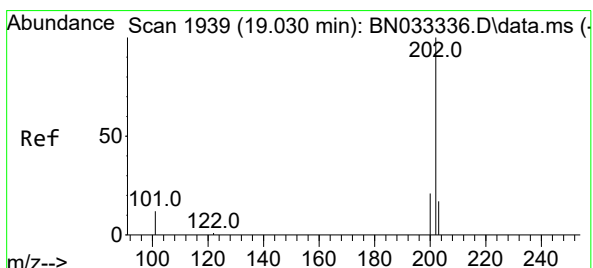
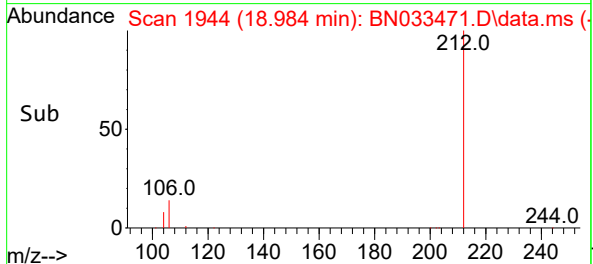
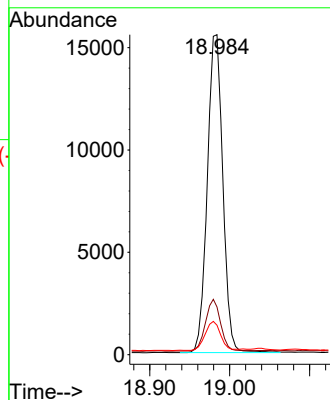
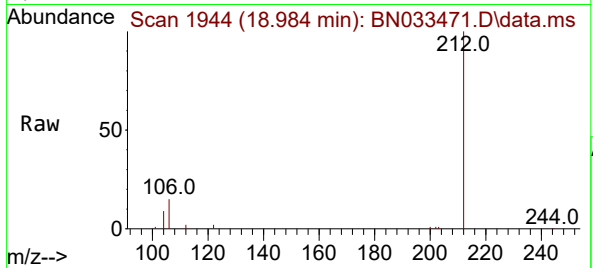
915-J-WS-081424

Tgt Ion:	212	Resp:	20949
Ion Ratio	Lower	Upper	
212	100		
106	16.0	12.8	19.2
104	9.0	7.1	10.7

Manual Integrations

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#28

Fluoranthene

Concen: 0.059 ng

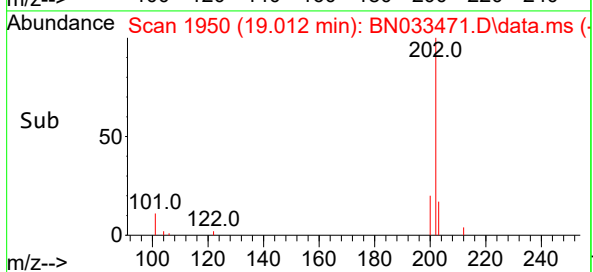
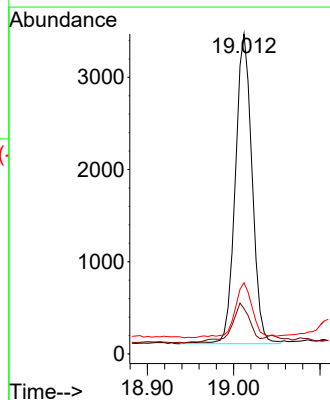
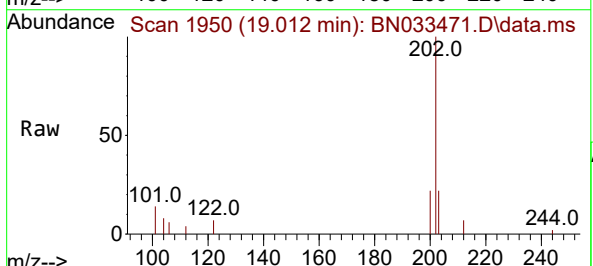
RT: 19.012 min Scan# 1950

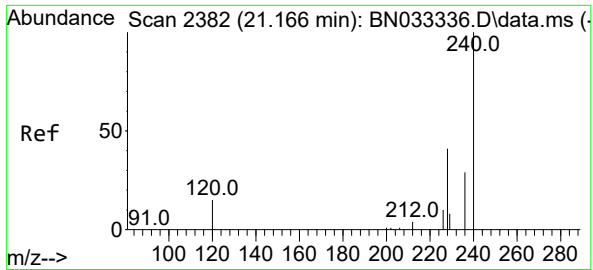
Delta R.T. -0.009 min

Lab File: BN033471.D

Acq: 17 Aug 2024 16:57

Tgt Ion:	202	Resp:	4528
Ion Ratio	Lower	Upper	
202	100		
101	14.1	9.8	14.6
203	18.3	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN033471.D

Acq: 17 Aug 2024 16:57

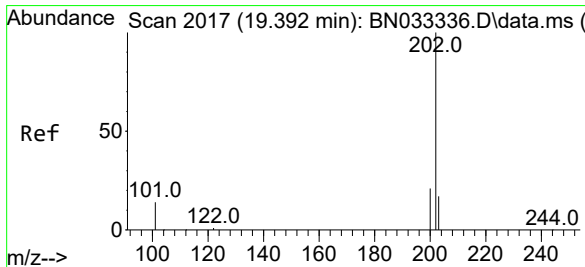
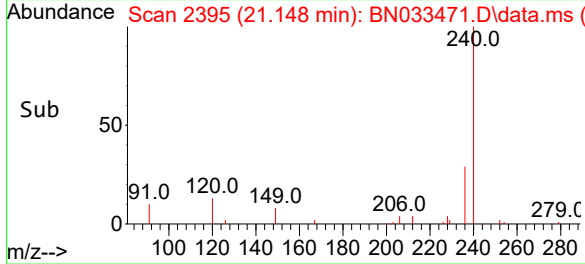
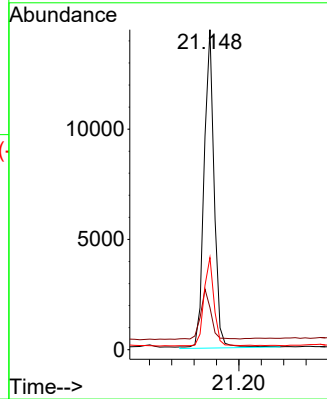
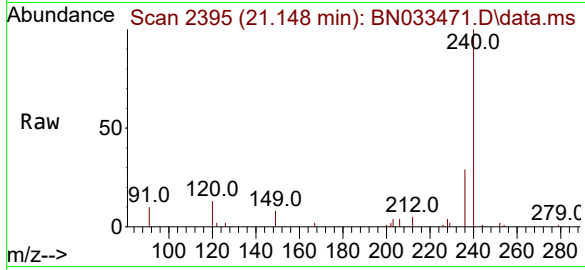
Instrument :

BNA_N

ClientSampleId :

915-J-WS-081424

Tgt Ion:	240	Resp:	1813
Ion Ratio	Lower	Upper	
240	100		
120	13.1	13.0	19.6
236	28.8	23.2	34.8

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Supervised By :mohammad ahmed 08/21/2024

#30

Pyrene

Concen: 0.037 ng

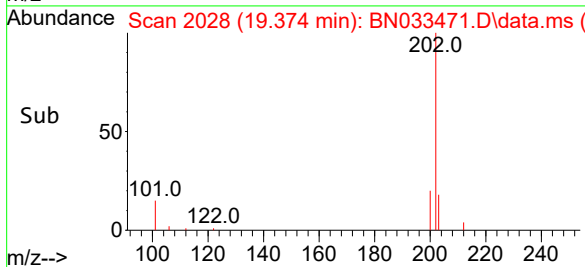
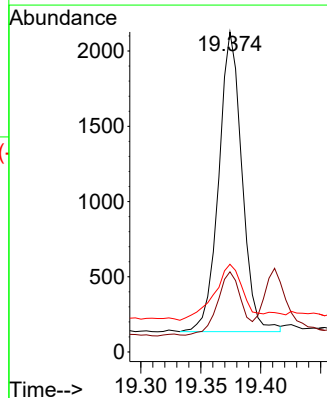
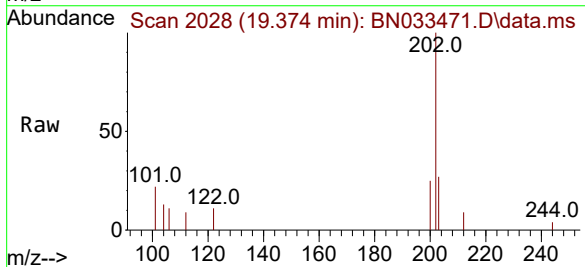
RT: 19.374 min Scan# 2028

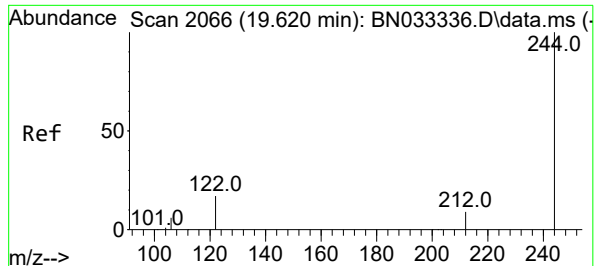
Delta R.T. -0.009 min

Lab File: BN033471.D

Acq: 17 Aug 2024 16:57

Tgt Ion:	202	Resp:	2687
Ion Ratio	Lower	Upper	
202	100		
200	21.8	16.7	25.1
203	23.3	14.2	21.4





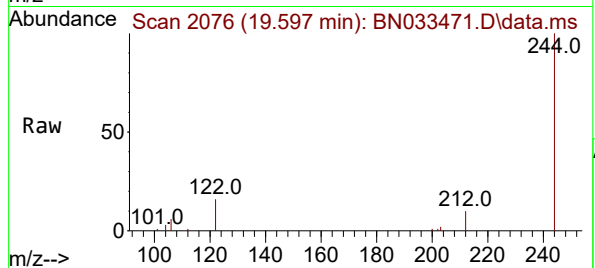
#31
Terphenyl-d14
Concen: 0.652 ng
RT: 19.597 min Scan# 2066
Delta R.T. -0.009 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

Instrument :

BNA_N

ClientSampleId :

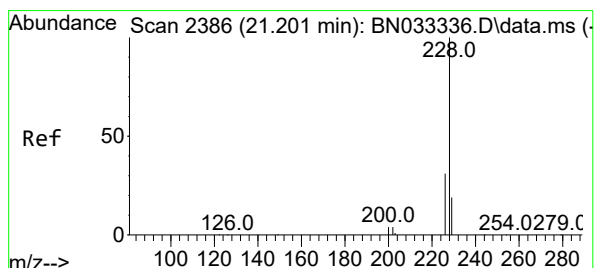
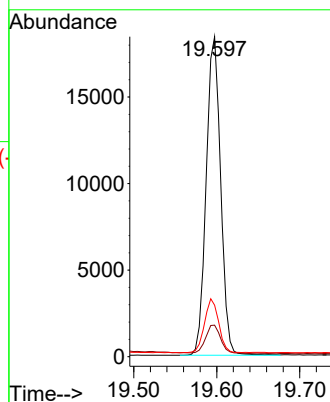
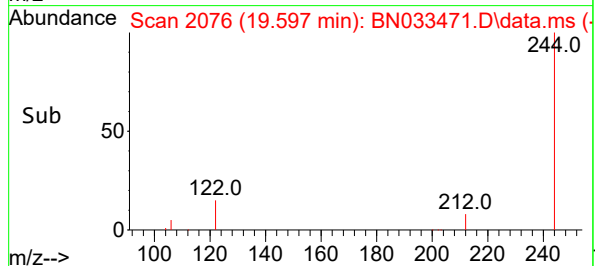
915-J-WS-081424



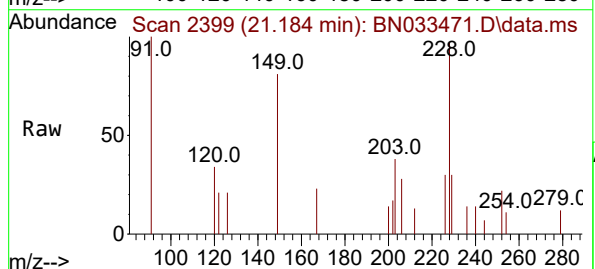
Tgt Ion:244 Resp: 2233
Ion Ratio Lower Upper
244 100
212 9.8 7.7 11.5
122 16.1 14.0 21.0

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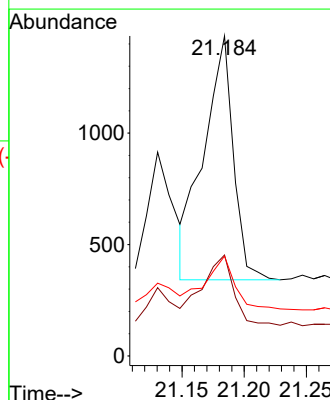
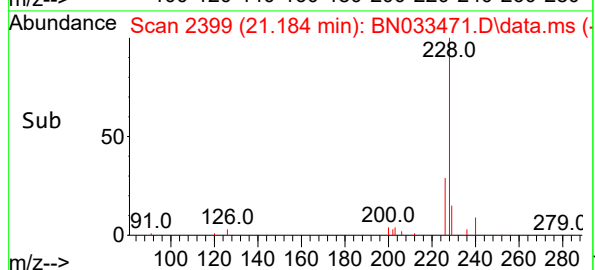
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

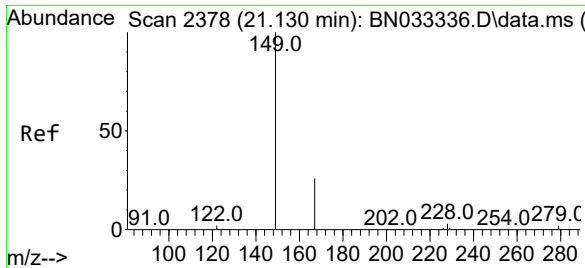


#33
Chrysene
Concen: 0.027 ng
RT: 21.184 min Scan# 2399
Delta R.T. -0.009 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57



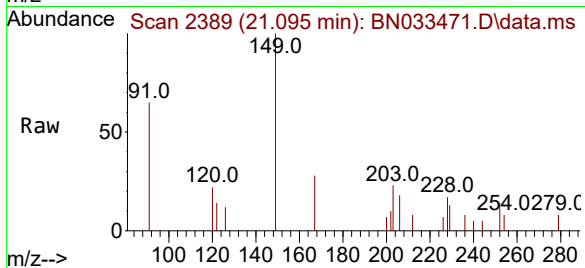
Tgt Ion:228 Resp: 1812
Ion Ratio Lower Upper
228 100
226 31.5 24.7 37.1
229 31.2 15.4 23.2#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.050 ng
RT: 21.095 min Scan# 2109
Delta R.T. -0.018 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

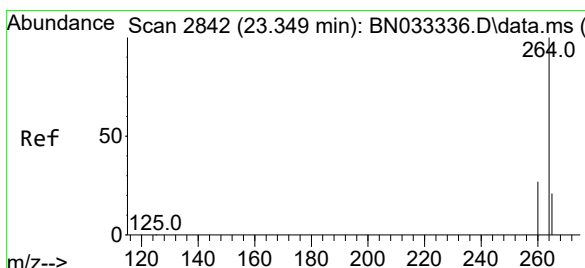
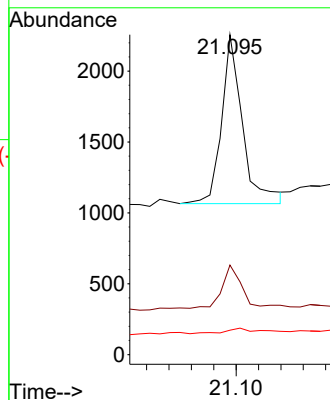
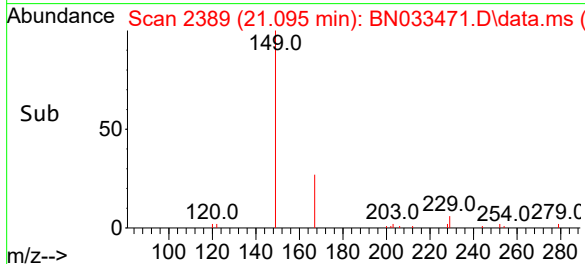
Instrument :
BNA_N
ClientSampleId :
915-J-WS-081424



Tgt Ion:149 Resp: 1540
Ion Ratio Lower Upper
149 100
167 30.9 20.9 31.3
279 6.0 2.2 3.4

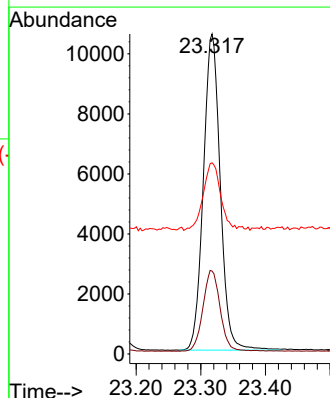
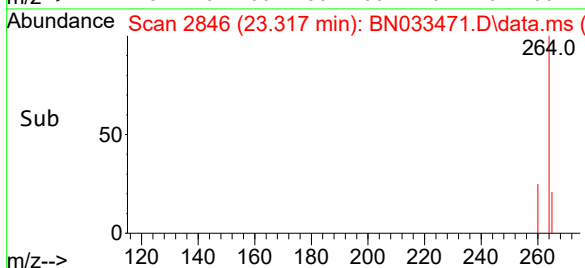
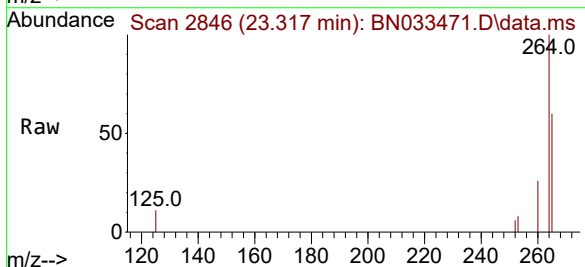
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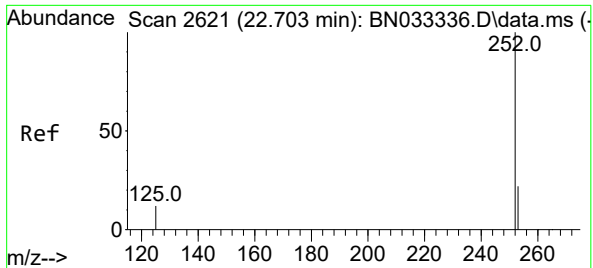
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 2846
Delta R.T. -0.015 min
Lab File: BN033471.D
Acq: 17 Aug 2024 16:57

Tgt Ion:264 Resp: 19135
Ion Ratio Lower Upper
264 100
260 25.9 21.6 32.4
265 59.7 29.3 43.9





#37

Benzo(b)fluoranthene

Concen: 0.024 ng

RT: 22.671 min Scan# 20

Delta R.T. -0.015 min

Lab File: BN033471.D

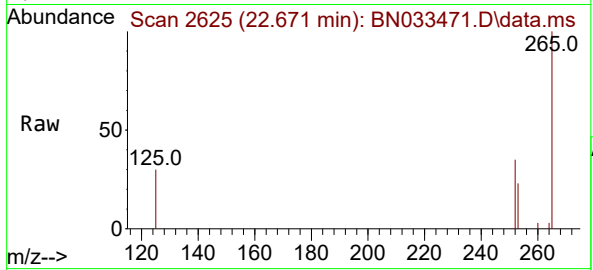
Acq: 17 Aug 2024 16:57

Instrument :

BNA_N

ClientSampleId :

915-J-WS-081424



Tgt Ion:252 Resp: 170

Ion Ratio Lower Upper

252 100

253 64.9 18.2 27.2

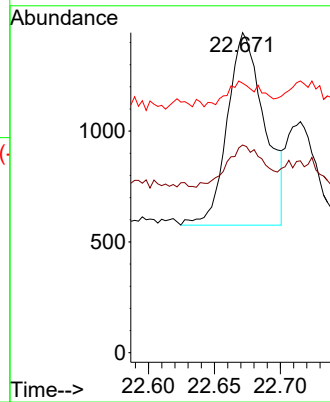
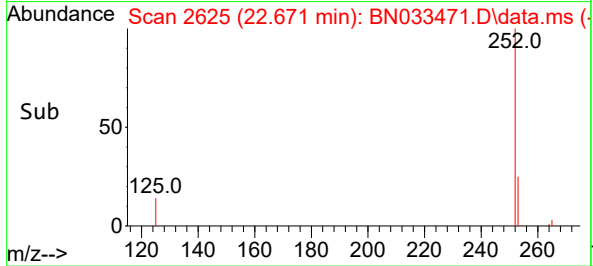
125 84.2 11.3 16.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/19/2024

Supervised By :mohammad ahmed 08/21/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/14/24
Client Sample ID:	920-J-WS-081424	SDG No.:	P3609
Lab Sample ID:	P3609-02	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033454.D	1	08/15/24 08:23	08/17/24 06:02	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.020	U	0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.040	J	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.040	J	0.020	0.10	ug/L
120-12-7	Anthracene	0.020	U	0.020	0.10	ug/L
206-44-0	Fluoranthene	0.060	J	0.020	0.10	ug/L
129-00-0	Pyrene	0.040	J	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.10	ug/L
218-01-9	Chrysene	0.040	J	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	J	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.030	U	0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.27		30 (20) - 150 (139)	67%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 (30) - 150 (150)	88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		30 (27) - 130 (123)	83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		30 (34) - 130 (132)	73%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		30 (35) - 130 (157)	122%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7670	7.559			
1146-65-2	Naphthalene-d8	20900	10.325			
15067-26-2	Acenaphthene-d10	10500	14.199			
1517-22-2	Phenanthrene-d10	19700	16.942			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/14/24
Client Sample ID:	920-J-WS-081424	SDG No.:	P3609
Lab Sample ID:	P3609-02	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033454.D	1	08/15/24 08:23	08/17/24 06:02	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	15400	21.148			
1520-96-3	Perylene-d12	16100	23.32			

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\BN081724\
Data File : BN033454.D
Acq On : 17 Aug 2024 06:02
Operator : MA/JU
Sample : P3609-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
920-J-WS-081424

Quant Time: Aug 17 06:30:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 2024
Response via : Initial Calibration

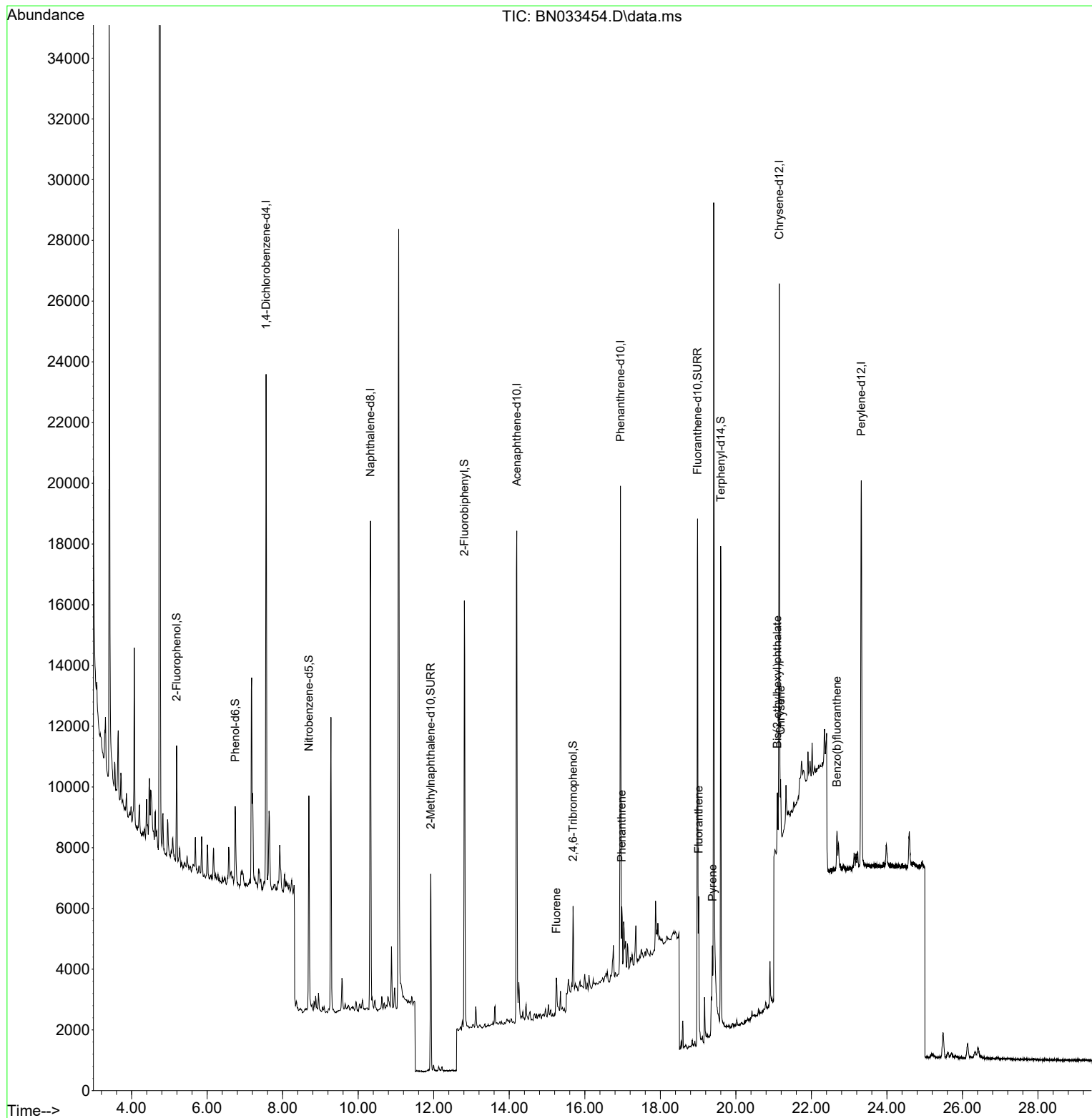
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	7674	0.400	ng	-0.01
7) Naphthalene-d8	10.325	136	20880	0.400	ng	#-0.01
13) Acenaphthene-d10	14.199	164	10506	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	19650	0.400	ng	-0.01
29) Chrysene-d12	21.148	240	15396	0.400	ng	0.00
35) Perylene-d12	23.320	264	16092	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	2723	0.128	ng	0.00
5) Phenol-d6	6.743	99	2050	0.072	ng	0.00
8) Nitrobenzene-d5	8.692	82	5197	0.330	ng	-0.01
11) 2-Methylnaphthalene-d10	11.919	152	8630	0.269	ng	-0.01
14) 2,4,6-Tribromophenol	15.688	330	1649	0.306	ng	-0.01
15) 2-Fluorobiphenyl	12.810	172	12580	0.292	ng	-0.01
27) Fluoranthene-d10	18.984	212	18592	0.354	ng	0.00
31) Terphenyl-d14	19.598	244	14210	0.489	ng	0.00
Target Compounds						
18) Fluorene	15.247	166	1828	0.041	ng	# 37
25) Phenanthrene	16.979	178	2392	0.042	ng	96
28) Fluoranthene	19.017	202	4229	0.061	ng	99
30) Pyrene	19.379	202	2469	0.040	ng	# 94
33) Chrysene	21.184	228	2039	0.035	ng	# 88
34) Bis(2-ethylhexyl)phtha...	21.095	149	2010	0.077	ng	# 99
37) Benzo(b)fluoranthene	22.674	252	1701	0.028	ng	# 1

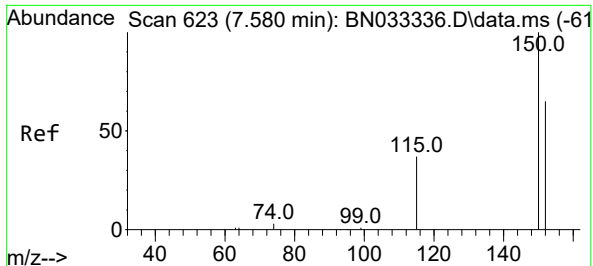
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081724\
Data File : BN033454.D
Acq On : 17 Aug 2024 06:02
Operator : MA/JU
Sample : P3609-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
920-J-WS-081424

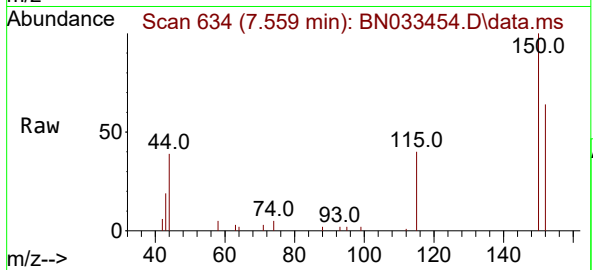
Quant Time: Aug 17 06:30:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 2024
Response via : Initial Calibration



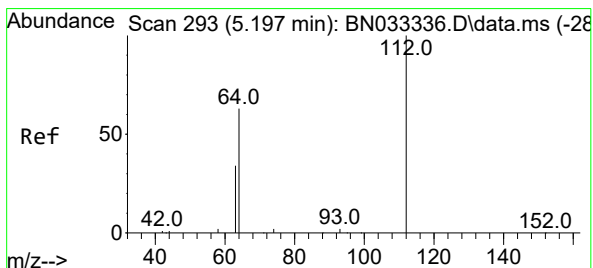
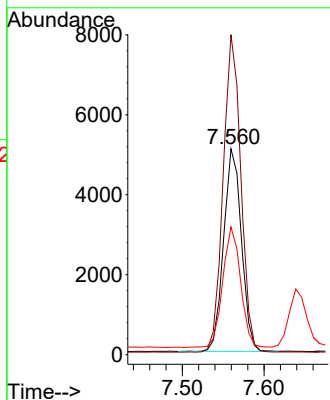
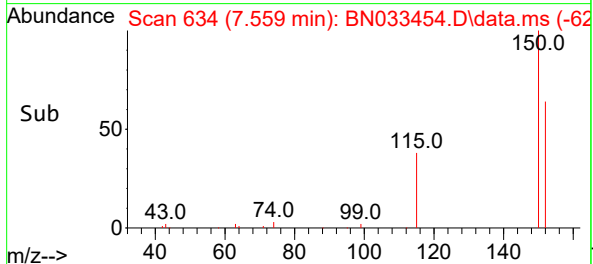


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

Instrument :
BNA_N
ClientSampleId :
920-J-WS-081424

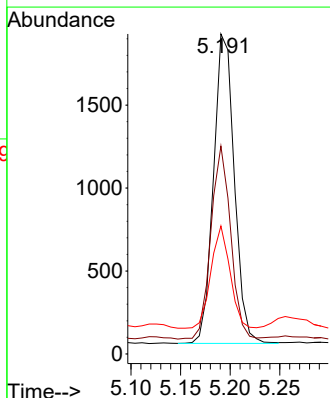
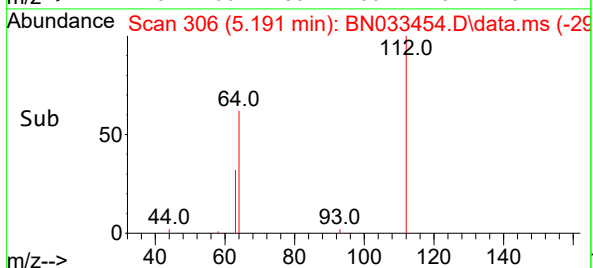
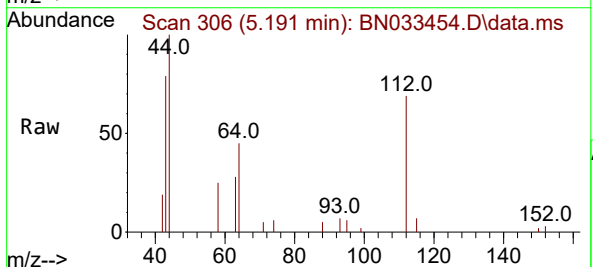


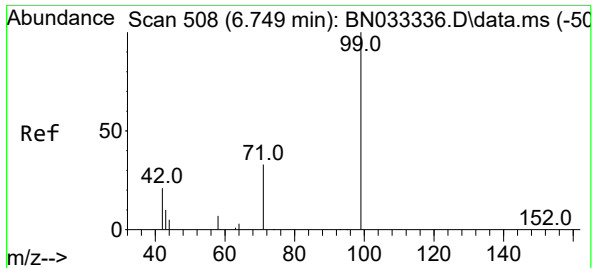
Tgt Ion:152 Resp: 7674
Ion Ratio Lower Upper
152 100
150 155.3 122.3 183.5
115 62.0 48.8 73.2



#4
2-Fluorophenol
Concen: 0.128 ng
RT: 5.191 min Scan# 306
Delta R.T. -0.007 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

Tgt Ion:112 Resp: 2723
Ion Ratio Lower Upper
112 100
64 59.2 48.1 72.1
63 30.3 25.4 38.2

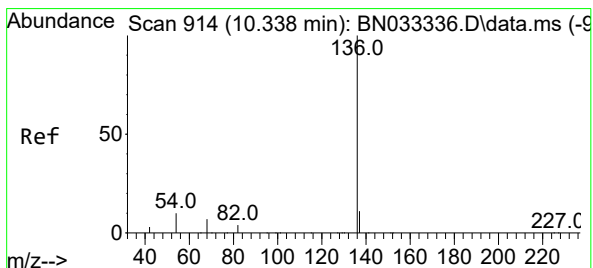
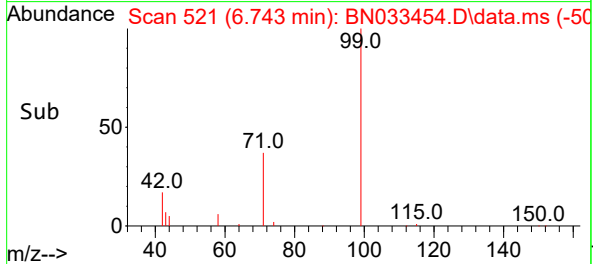
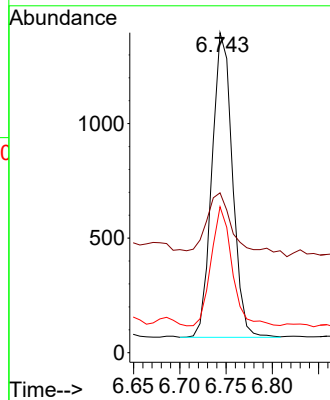
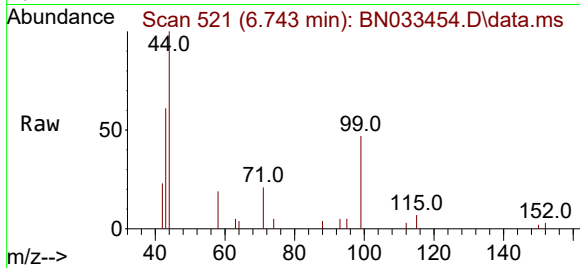




#5
Phenol-d6
Concen: 0.072 ng
RT: 6.743 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

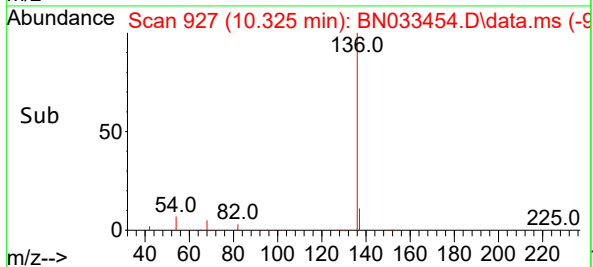
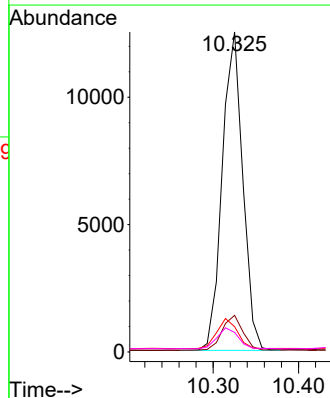
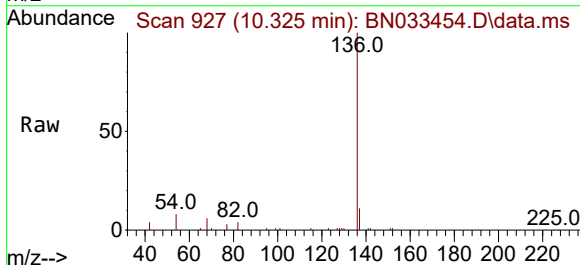
Instrument :
BNA_N
ClientSampleId :
920-J-WS-081424

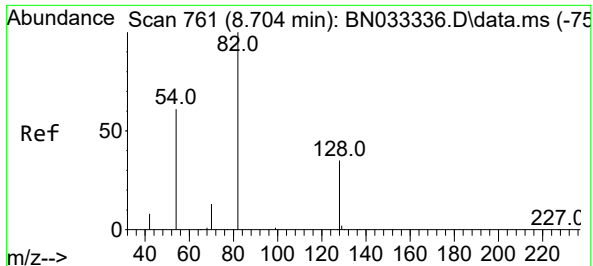
Tgt Ion: 99 Resp: 2050
Ion Ratio Lower Upper
99 100
42 22.4 18.5 27.7
71 39.8 26.2 39.2#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.325 min Scan# 927
Delta R.T. -0.011 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

Tgt Ion: 136 Resp: 20880
Ion Ratio Lower Upper
136 100
137 11.5 9.1 13.7
54 7.9 9.4 14.0#
68 6.1 7.0 10.4#

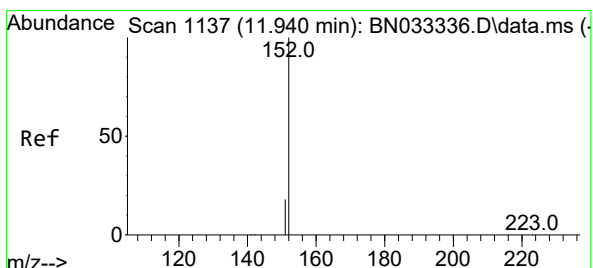
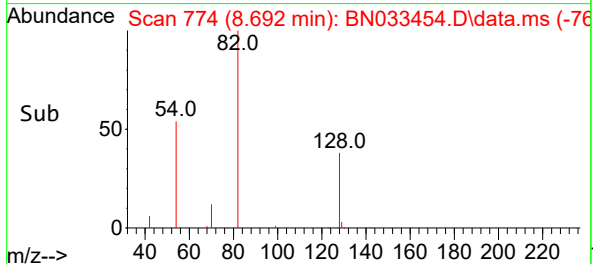
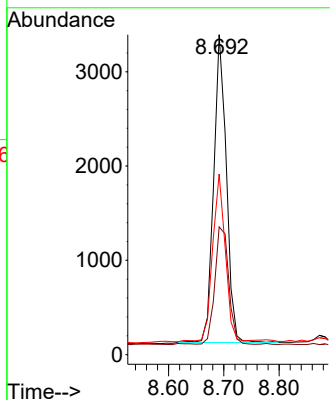
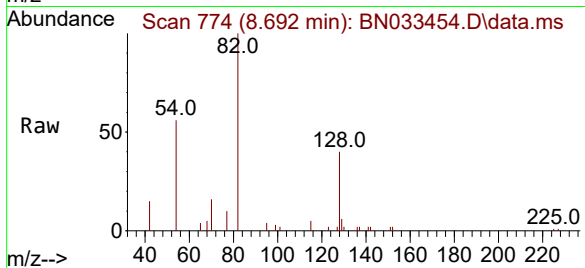




#8
Nitrobenzene-d5
Concen: 0.330 ng
RT: 8.692 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

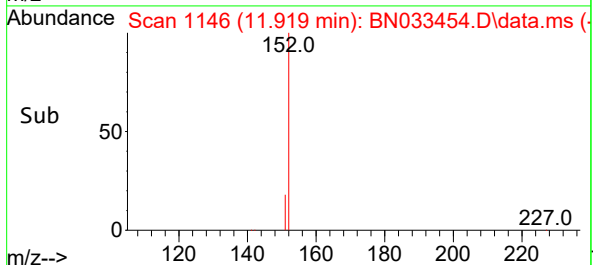
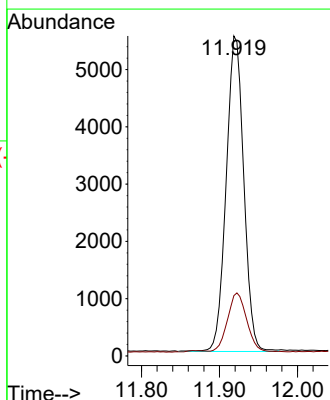
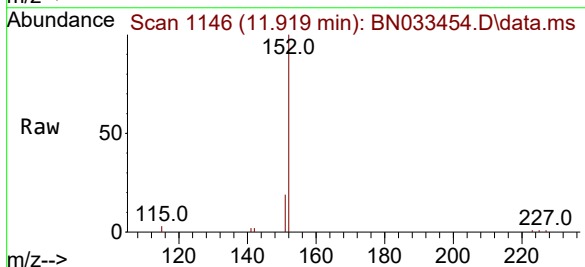
Instrument :
BNA_N
ClientSampleId :
920-J-WS-081424

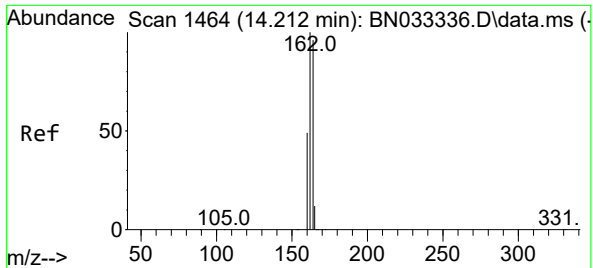
Tgt Ion	82	Resp:	5197
Ion Ratio	Lower	Upper	
82	100		
128	39.9	29.0	43.4
54	56.5	50.2	75.4



#11
2-Methylnaphthalene-d10
Concen: 0.269 ng
RT: 11.919 min Scan# 1146
Delta R.T. -0.011 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

Tgt Ion	152	Resp:	8630
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.7	25.1

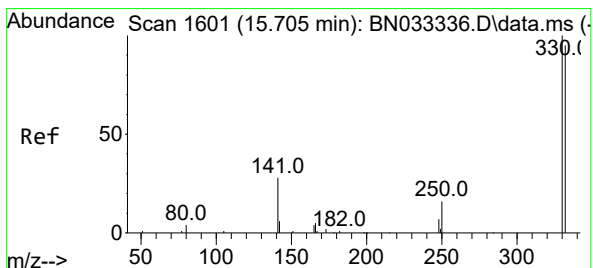
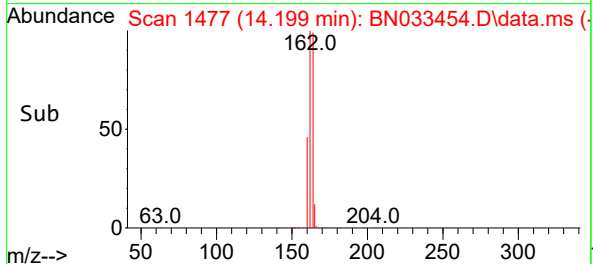
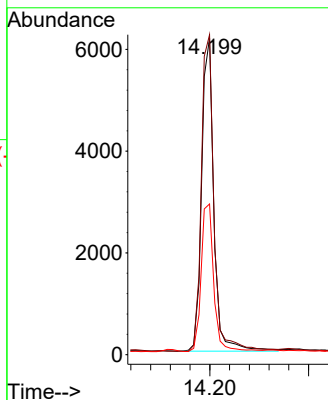
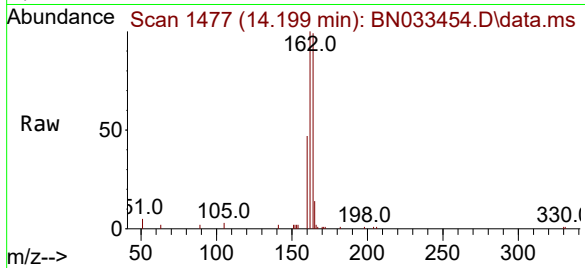




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.199 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

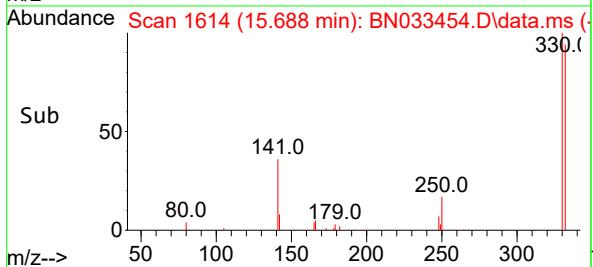
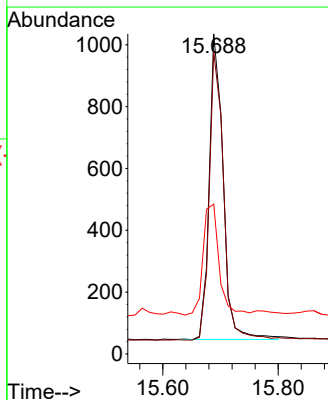
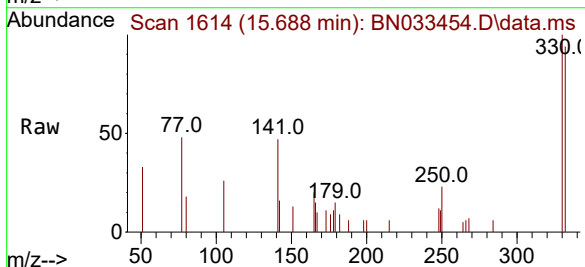
Instrument :
BNA_N
ClientSampleId :
920-J-WS-081424

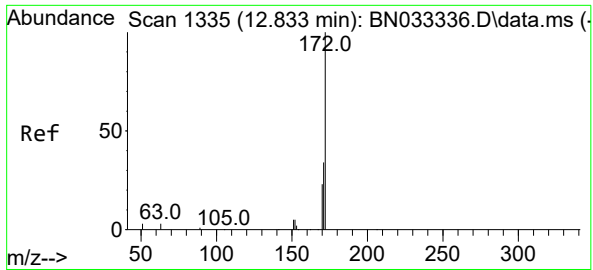
Tgt Ion:164 Resp: 10506
Ion Ratio Lower Upper
164 100
162 101.1 83.1 124.7
160 47.6 41.1 61.7



#14
2,4,6-Tribromophenol
Concen: 0.306 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.012 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

Tgt Ion:330 Resp: 1649
Ion Ratio Lower Upper
330 100
332 96.5 77.1 115.7
141 41.7 33.4 50.0

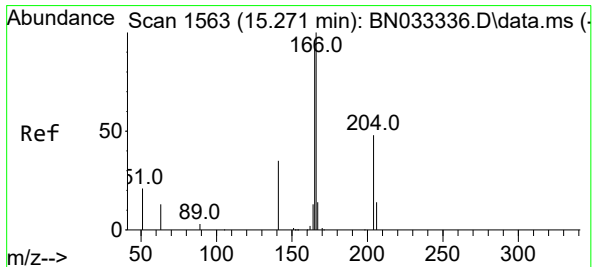
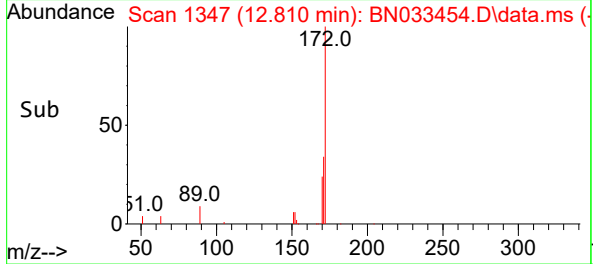
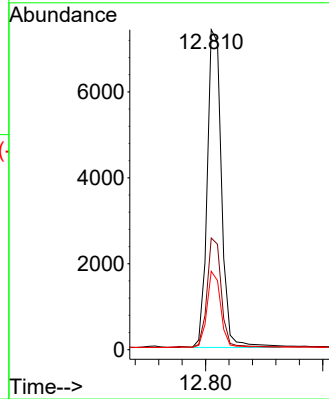
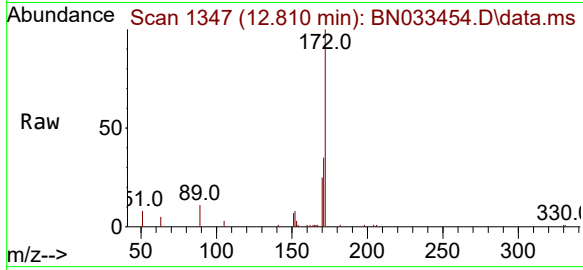




#15
2-Fluorobiphenyl
Concen: 0.292 ng
RT: 12.810 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

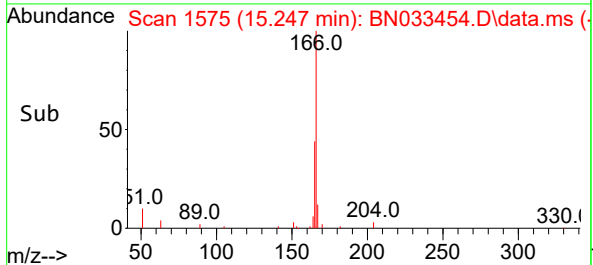
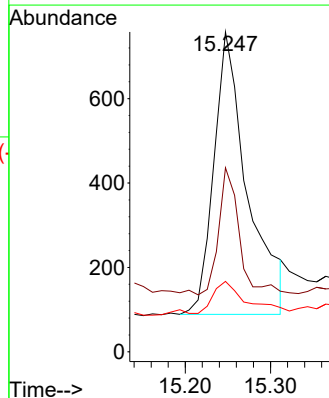
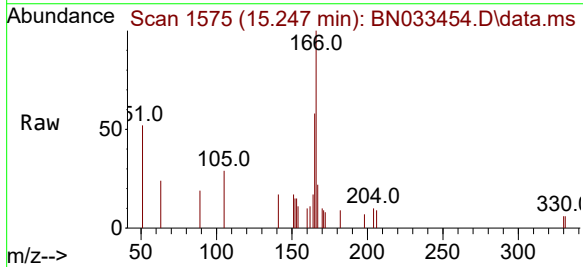
Instrument :
BNA_N
ClientSampleId :
920-J-WS-081424

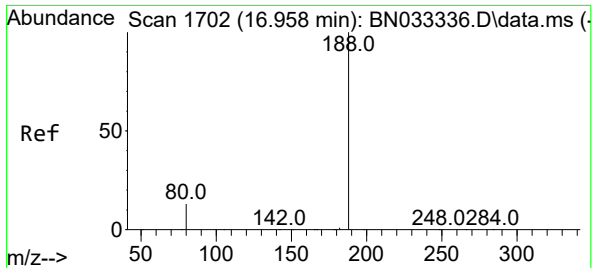
Tgt Ion:172 Resp: 12580
Ion Ratio Lower Upper
172 100
171 34.9 27.8 41.8
170 24.5 18.7 28.1



#18
Fluorene
Concen: 0.041 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

Tgt Ion:166 Resp: 1828
Ion Ratio Lower Upper
166 100
165 27.6 78.0 117.0#
167 11.0 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN033454.D

Acq: 17 Aug 2024 06:02

Instrument :

BNA_N

ClientSampleId :

920-J-WS-081424

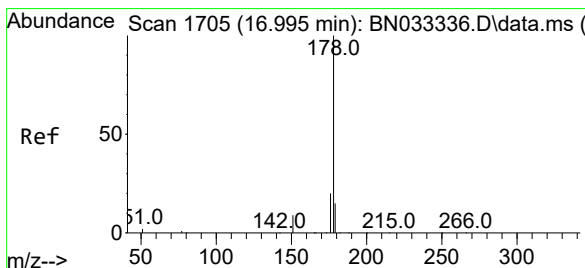
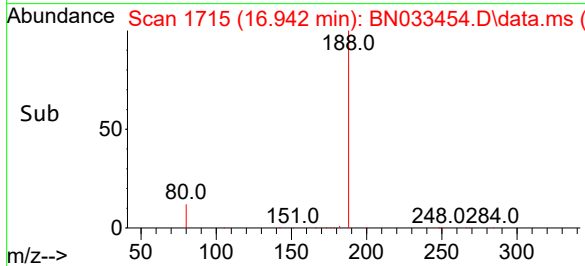
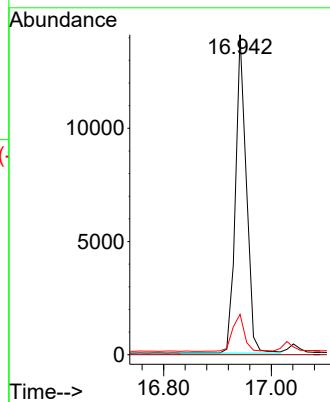
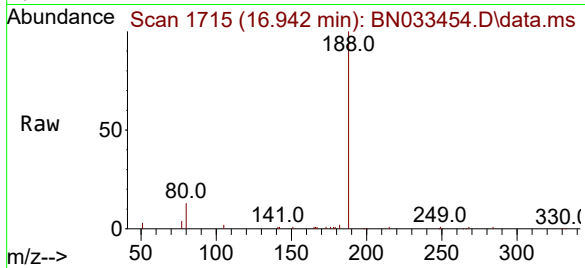
Tgt Ion:188 Resp: 19650

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.6 10.7 16.1



#25

Phenanthrene

Concen: 0.042 ng

RT: 16.979 min Scan# 1718

Delta R.T. -0.012 min

Lab File: BN033454.D

Acq: 17 Aug 2024 06:02

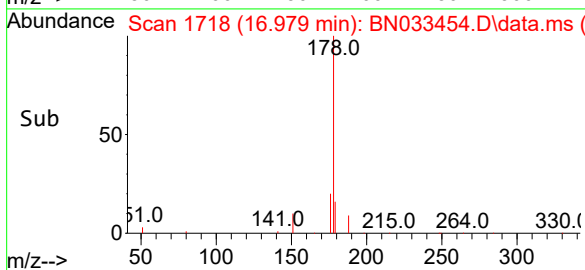
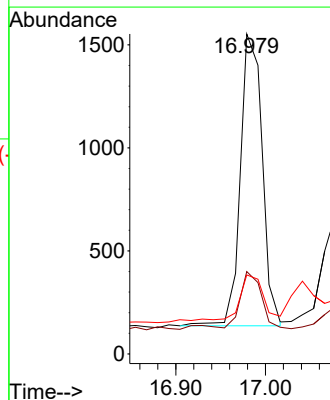
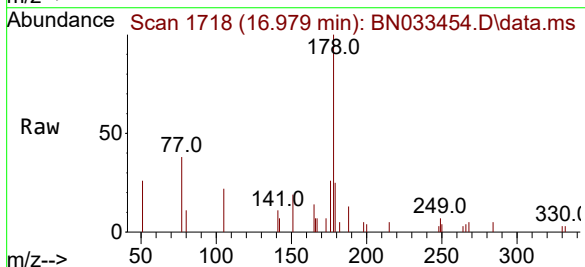
Tgt Ion:178 Resp: 2392

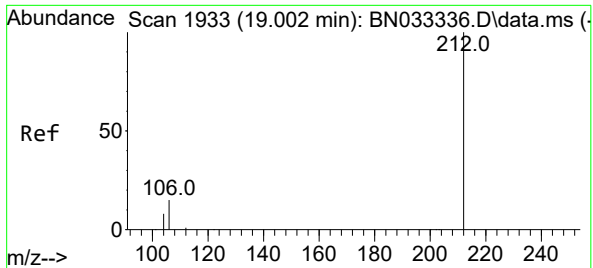
Ion Ratio Lower Upper

178 100

176 21.0 15.4 23.0

179 16.7 12.2 18.2

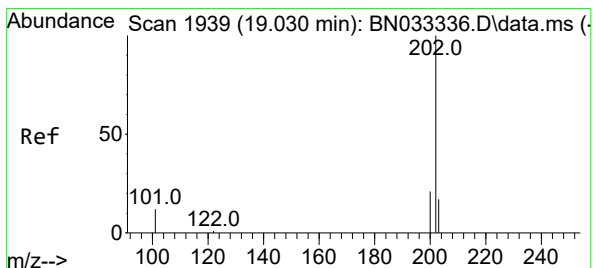
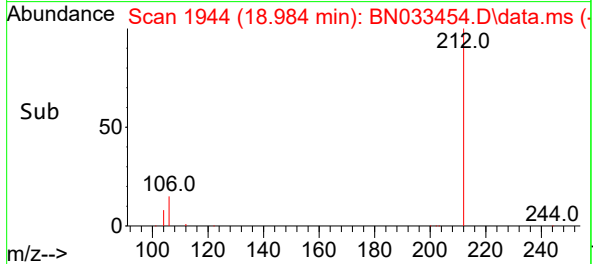
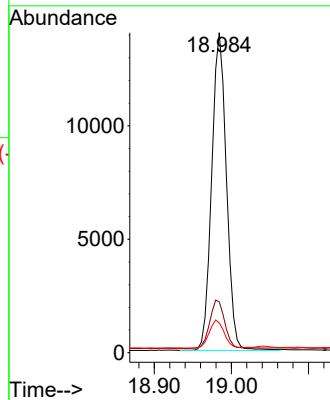
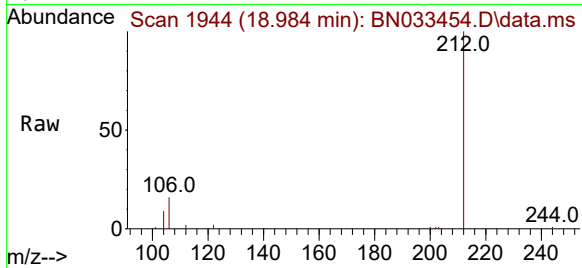




#27
Fluoranthene-d10
Concen: 0.354 ng
RT: 18.984 min Scan# 1944
Delta R.T. -0.009 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

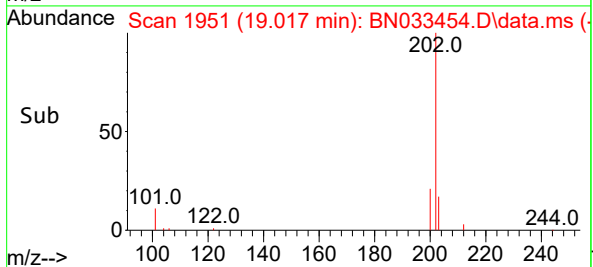
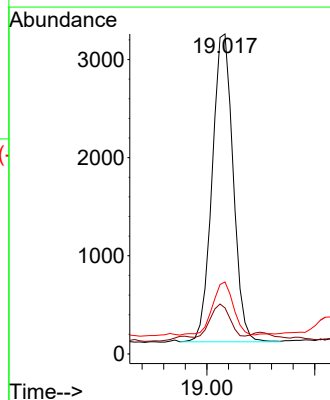
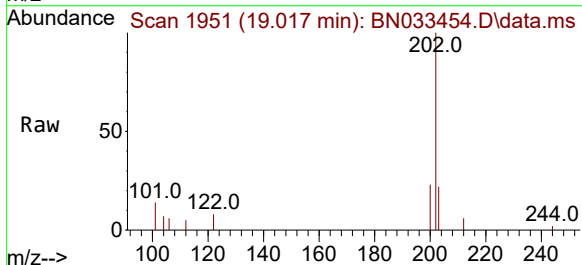
Instrument :
BNA_N
ClientSampleId :
920-J-WS-081424

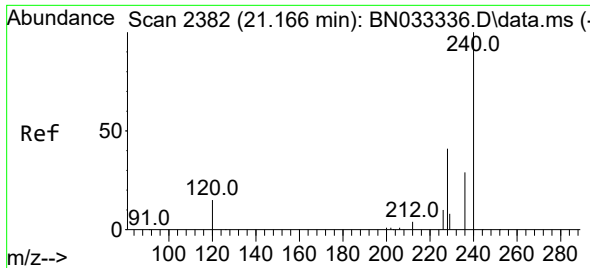
Tgt Ion:212 Resp: 18592
Ion Ratio Lower Upper
212 100
106 15.8 12.8 19.2
104 8.9 7.1 10.7



#28
Fluoranthene
Concen: 0.061 ng
RT: 19.017 min Scan# 1951
Delta R.T. -0.005 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

Tgt Ion:202 Resp: 4229
Ion Ratio Lower Upper
202 100
101 11.5 9.8 14.6
203 17.4 13.8 20.6

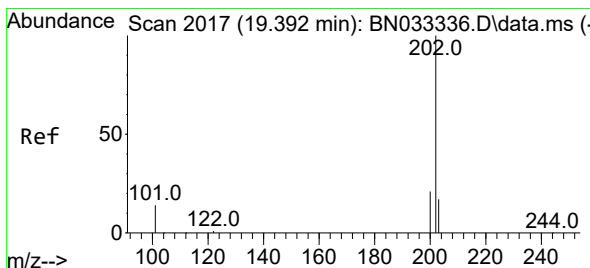
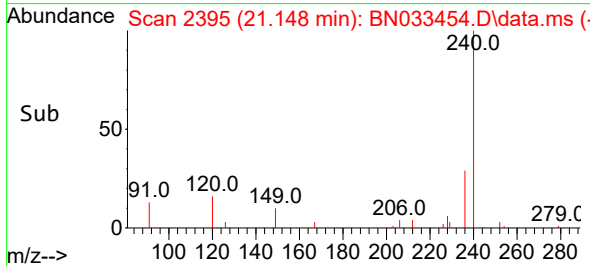
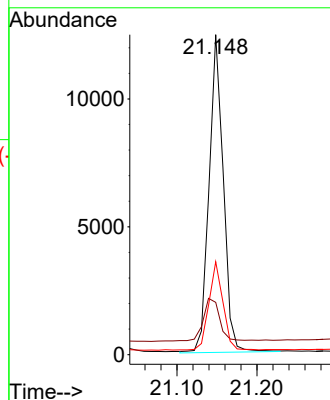
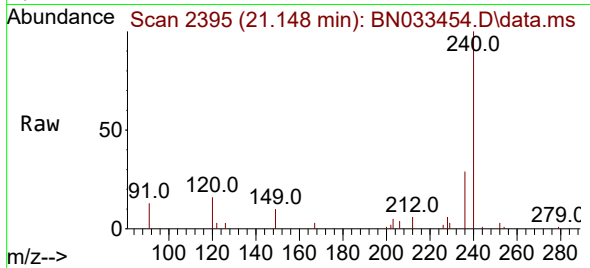




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

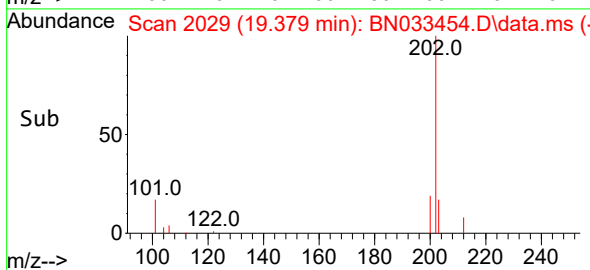
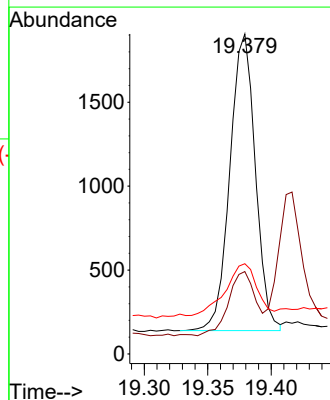
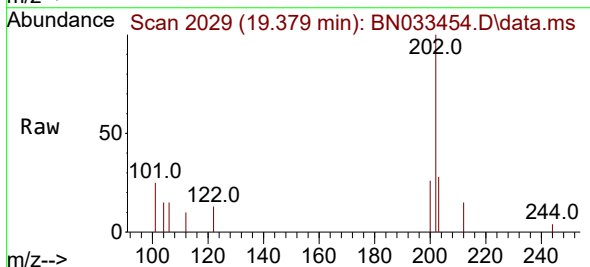
Instrument :
BNA_N
ClientSampleId :
920-J-WS-081424

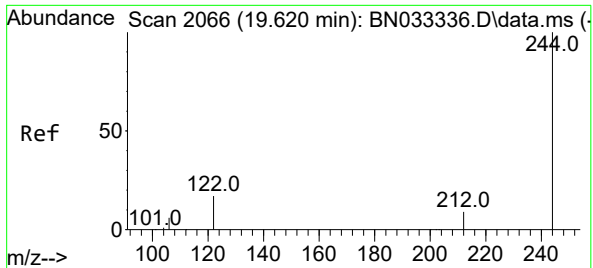
Tgt Ion:240 Resp: 15396
Ion Ratio Lower Upper
240 100
120 16.4 13.0 19.6
236 29.1 23.2 34.8



#30
Pyrene
Concen: 0.040 ng
RT: 19.379 min Scan# 2029
Delta R.T. -0.005 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

Tgt Ion:202 Resp: 2469
Ion Ratio Lower Upper
202 100
200 22.9 16.7 25.1
203 21.7 14.2 21.4#

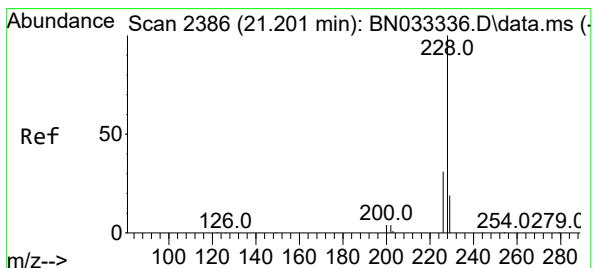
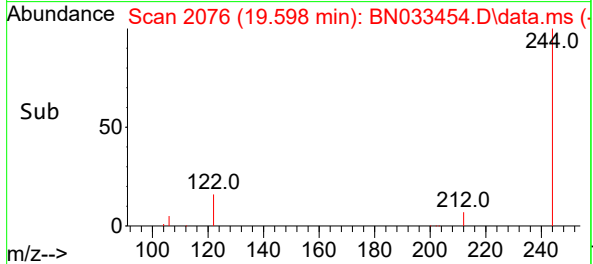
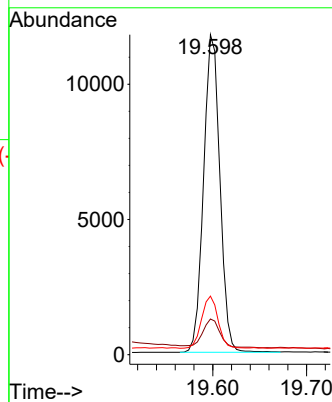
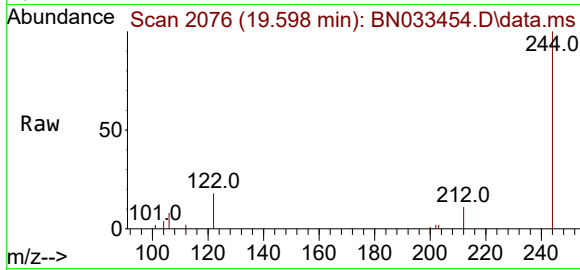




#31
Terphenyl-d14
Concen: 0.489 ng
RT: 19.598 min Scan# 2066
Delta R.T. -0.009 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

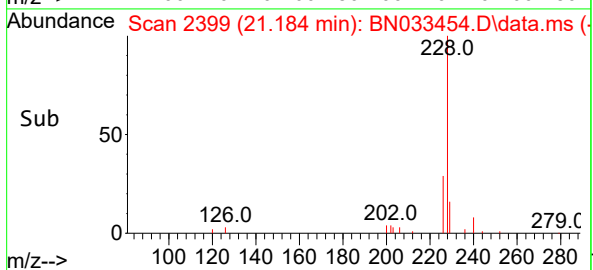
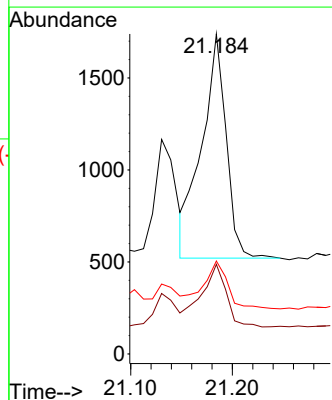
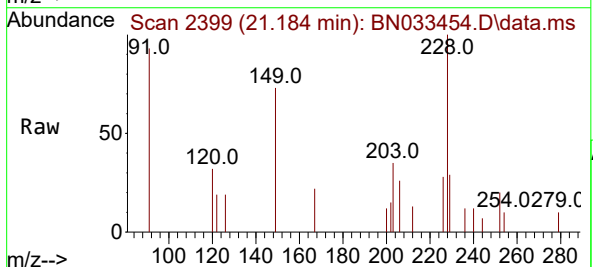
Instrument :
BNA_N
ClientSampleId :
920-J-WS-081424

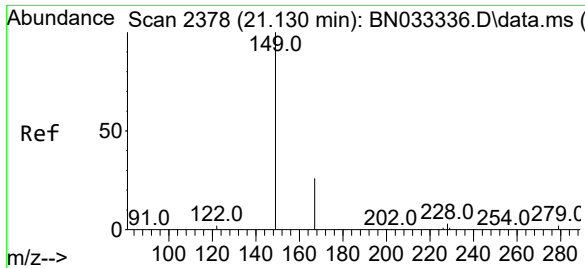
Tgt Ion:244 Resp: 14210
Ion Ratio Lower Upper
244 100
212 11.2 7.7 11.5
122 18.3 14.0 21.0



#33
Chrysene
Concen: 0.035 ng
RT: 21.184 min Scan# 2399
Delta R.T. -0.009 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

Tgt Ion:228 Resp: 2039
Ion Ratio Lower Upper
228 100
226 28.0 24.7 37.1
229 29.0 15.4 23.2#

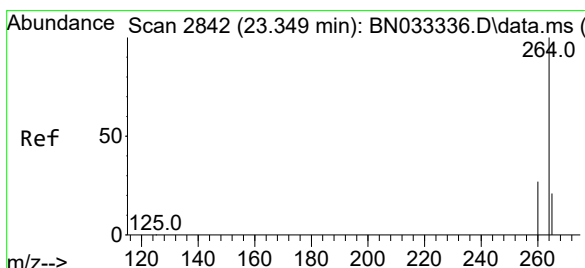
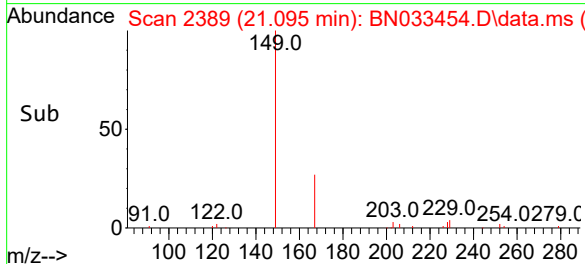
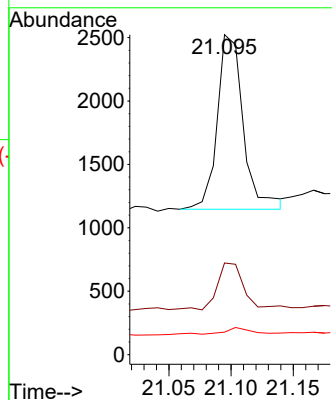
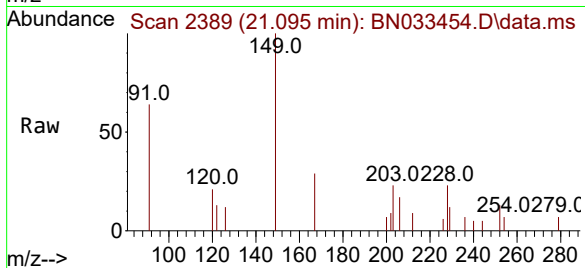




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 21.095 min Scan# 2100
Delta R.T. -0.018 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

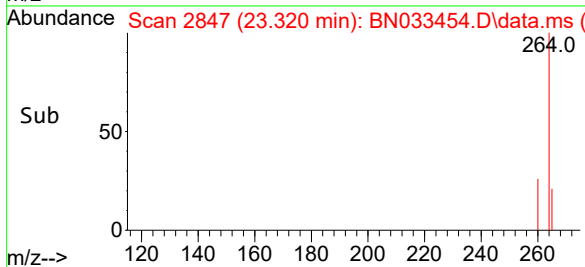
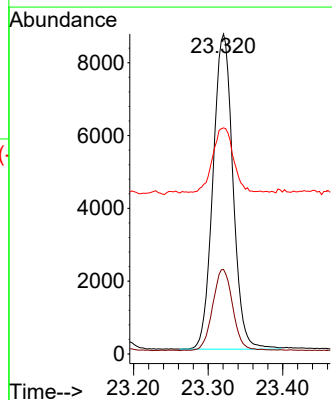
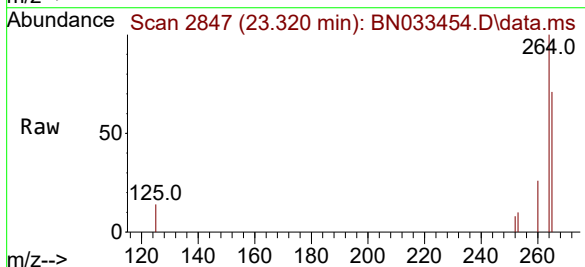
Instrument :
BNA_N
ClientSampleId :
920-J-WS-081424

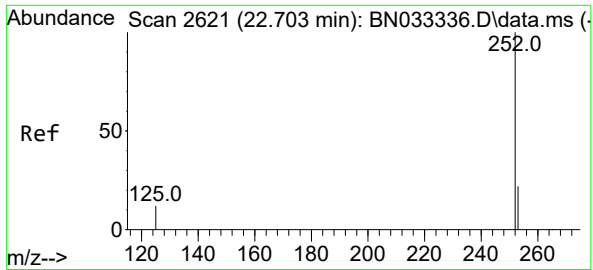
Tgt Ion:149 Resp: 2010
Ion Ratio Lower Upper
149 100
167 26.1 20.9 31.3
279 5.4 2.2 3.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.320 min Scan# 2847
Delta R.T. -0.012 min
Lab File: BN033454.D
Acq: 17 Aug 2024 06:02

Tgt Ion:264 Resp: 16092
Ion Ratio Lower Upper
264 100
260 26.4 21.6 32.4
265 70.6 29.3 43.9#





#37

Benzo(b)fluoranthene

Concen: 0.028 ng

RT: 22.674 min Scan# 20

Delta R.T. -0.012 min

Lab File: BN033454.D

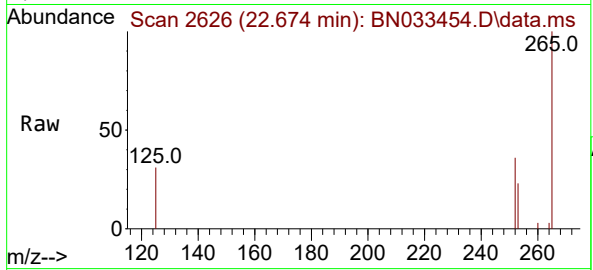
Acq: 17 Aug 2024 06:02

Instrument :

BNA_N

ClientSampleId :

920-J-WS-081424



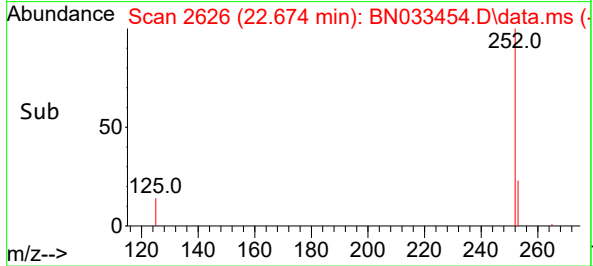
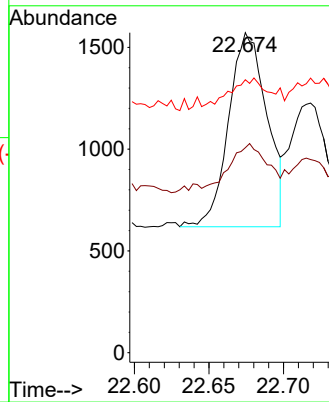
Tgt Ion:252 Resp: 1701

Ion Ratio Lower Upper

252 100

253 64.1 18.2 27.2#

125 85.3 11.3 16.9#





CALIBRATION SUMMARY

- 1
- 2
- 3
- 4
- 5
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- 15
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- 17

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN081024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 12 01:09:50 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN033334.D 0.2 =BN033335.D 0.4 =BN033336.D 0.8 =BN033337.D 1.6 =BN033338.D 3.2 =BN033339.D 5.0 =BN033340.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	0.514	0.479	0.426	0.451	0.425	0.416	0.400	0.444	9.00
3)	n-Nitrosodimet...	0.591	0.536	0.559	0.617	0.592	0.559	0.553	0.572	4.92
4) S	2-Fluorophenol	1.200	1.136	1.125	1.133	1.102	1.016	1.021	1.105	5.98
5) S	Phenol-d6	1.592	1.460	1.513	1.524	1.510	1.403	1.443	1.492	4.15
6)	bis(2-Chloroet...	1.244	1.185	1.187	1.281	1.252	1.150	1.161	1.209	4.14
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.309	0.297	0.294	0.310	0.310	0.290	0.301	0.302	2.73
9)	Naphthalene	1.102	1.082	1.072	1.166	1.144	1.072	1.086	1.103	3.37
10)	Hexachlorobuta...	0.215	0.206	0.208	0.224	0.217	0.202	0.201	0.210	3.97
11) SURR	2-Methylnaphth...	0.614	0.587	0.592	0.649	0.641	0.603	0.623	0.616	3.84
12)	2-Methylnaphth...	0.736	0.706	0.715	0.784	0.783	0.735	0.755	0.745	4.12
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.214	0.197	0.191	0.207	0.208	0.203	0.216	0.205	4.30
15) S	2-Fluorobiphenyl	1.637	1.596	1.632	1.729	1.700	1.583	1.601	1.640	3.38
16)	Acenaphthylene	1.797	1.711	1.739	1.961	1.982	1.919	1.962	1.867	6.15
17)	Acenaphthene	1.250	1.224	1.218	1.345	1.347	1.283	1.302	1.281	4.16
18)	Fluorene	1.648	1.559	1.615	1.779	1.807	1.689	1.726	1.689	5.27
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.042	0.042	0.042	0.048	0.052	0.055	0.059	0.049	14.34
21)	4-Bromophenyl-...	0.237	0.226	0.228	0.249	0.249	0.244	0.243	0.239	3.96
22)	Hexachlorobenzene	0.264	0.263	0.262	0.282	0.280	0.263	0.265	0.268	3.19
23)	Atrazine	0.186	0.171	0.173	0.190	0.200	0.199	0.210	0.190	7.60
24)	Pentachlorophenol	0.119	0.103	0.092	0.104	0.110	0.110	0.120	0.108	8.81
25)	Phenanthrene	1.132	1.095	1.110	1.195	1.221	1.154	1.181	1.155	4.00
26)	Anthracene	0.952	0.938	0.958	1.055	1.092	1.064	1.102	1.023	6.93
27) SURR	Fluoranthene-d10	1.035	1.021	1.015	1.097	1.118	1.079	1.120	1.069	4.23
28)	Fluoranthene	1.329	1.330	1.341	1.487	1.510	1.466	1.495	1.422	5.93
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.607	1.534	1.572	1.663	1.680	1.544	1.546	1.592	3.73
31) S	Terphenyl-d14	0.774	0.729	0.756	0.785	0.784	0.727	0.735	0.756	3.39
32)	Benzo(a)anthra...	1.513	1.417	1.387	1.549	1.568	1.499	1.527	1.494	4.52
33)	Chrysene	1.504	1.475	1.497	1.573	1.556	1.462	1.462	1.504	2.97
34)	Bis(2-ethylhex...	0.774	0.587	0.588	0.634	0.686	0.710	0.775	0.679	11.74
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN081024.M

36)	Indeno(1,2,3-c...	1.470	1.620	1.499	1.709	1.777	1.707	1.788	1.653	7.74
37)	Benzo(b)fluora...	1.395	1.396	1.420	1.591	1.609	1.533	1.593	1.505	6.53
38)	Benzo(k)fluora...	1.404	1.380	1.487	1.637	1.668	1.577	1.605	1.537	7.42
39) C	Benzo(a)pyrene	1.198	1.156	1.155	1.318	1.363	1.316	1.369	1.268	7.50
40)	Dibenzo(a,h)an...	1.127	1.265	1.179	1.366	1.413	1.363	1.422	1.305	8.95
41)	Benzo(g,h,i)pe...	1.303	1.486	1.329	1.500	1.533	1.459	1.522	1.448	6.45

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
 Data File : BN033334.D
 Acq On : 10 Aug 2024 13:40
 Operator : MA/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Aug 12 01:00:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 12 00:59:25 2024
 Response via : Initial Calibration

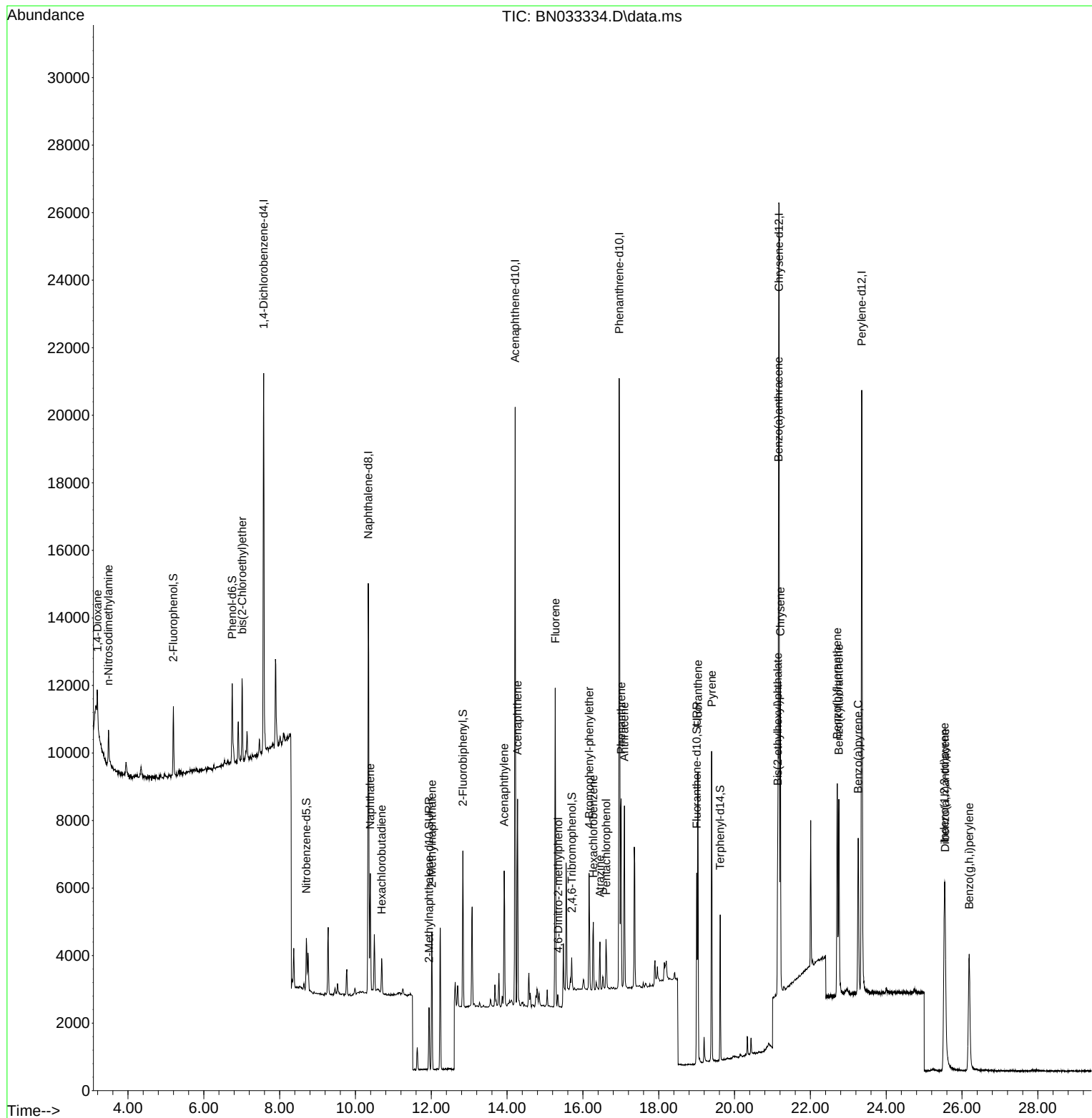
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.580	152	5269	0.400	ng	0.00
7) Naphthalene-d8	10.338	136	15510	0.400	ng	0.00
13) Acenaphthene-d10	14.212	164	9264	0.400	ng	0.00
19) Phenanthrene-d10	16.958	188	23040	0.400	ng	0.00
29) Chrysene-d12	21.174	240	20123	0.400	ng	# 0.00
35) Perylene-d12	23.355	264	22159	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.197	112	1581	0.114	ng	0.00
5) Phenol-d6	6.749	99	2097	0.111	ng	0.00
8) Nitrobenzene-d5	8.704	82	1200	0.127	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	2381	0.099	ng	0.00
14) 2,4,6-Tribromophenol	15.704	330	495	0.132	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	3792	0.109	ng	0.00
27) Fluoranthene-d10	19.002	212	5960	0.094	ng	0.00
31) Terphenyl-d14	19.620	244	3894	0.112	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.196	88	677	0.116	ng	# 89
3) n-Nitrosodimethylamine	3.485	42	779	0.105	ng	# 92
6) bis(2-Chloroethyl)ether	7.009	93	1639	0.101	ng	98
9) Naphthalene	10.391	128	4274	0.098	ng	95
10) Hexachlorobutadiene	10.690	225	834	0.104	ng	# 98
12) 2-Methylnaphthalene	12.015	142	2852	0.095	ng	94
16) Acenaphthylene	13.924	152	4163	0.092	ng	99
17) Acenaphthene	14.276	154	2894	0.101	ng	98
18) Fluorene	15.271	166	3817	0.100	ng	99
20) 4,6-Dinitro-2-methylph...	15.346	198	243	0.147	ng	# 1
21) 4-Bromophenyl-phenylether	16.164	248	1365	0.098	ng	96
22) Hexachlorobenzene	16.275	284	1520	0.103	ng	99
23) Atrazine	16.449	200	1073	0.093	ng	# 93
24) Pentachlorophenol	16.611	266	684	0.133	ng	97
25) Phenanthrene	17.008	178	6521	0.098	ng	99
26) Anthracene	17.095	178	5483	0.085	ng	99
28) Fluoranthene	19.035	202	7654	0.091	ng	100
30) Pyrene	19.397	202	8085	0.102	ng	100
32) Benzo(a)anthracene	21.157	228	7613	0.097	ng	99
33) Chrysene	21.210	228	7565	0.100	ng	98
34) Bis(2-ethylhexyl)phtha...	21.139	149	3895	0.096	ng	97
36) Indeno(1,2,3-cd)pyrene	25.536	276	8143	0.084	ng	99
37) Benzo(b)fluoranthene	22.709	252	7729	0.094	ng	# 89
38) Benzo(k)fluoranthene	22.753	252	7776	0.097	ng	# 89
39) Benzo(a)pyrene	23.261	252	6639	0.091	ng	# 86
40) Dibenzo(a,h)anthracene	25.553	278	6243	0.082	ng	92
41) Benzo(g,h,i)perylene	26.188	276	7216	0.087	ng	95

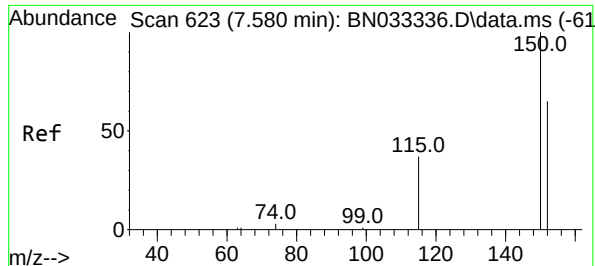
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033334.D
Acq On : 10 Aug 2024 13:40
Operator : MA/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Aug 12 01:00:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 00:59:25 2024
Response via : Initial Calibration

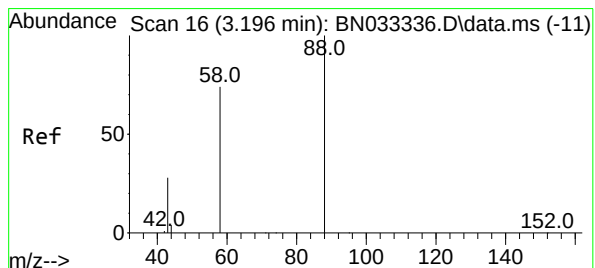
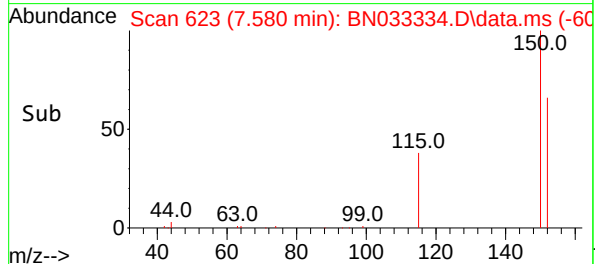
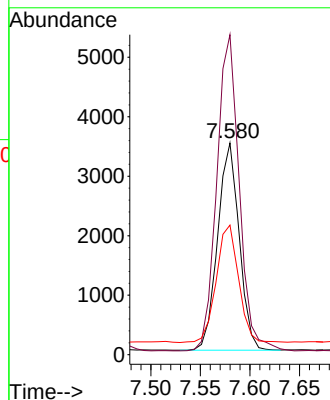
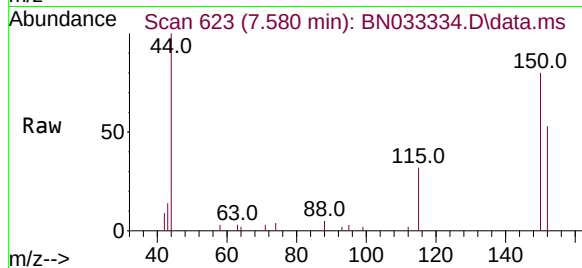




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.580 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

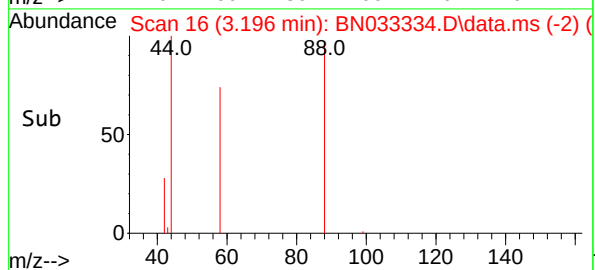
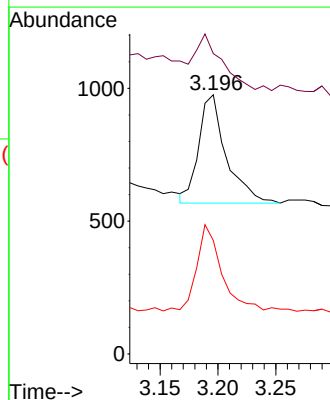
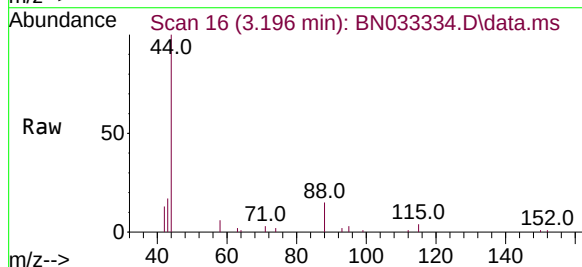
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

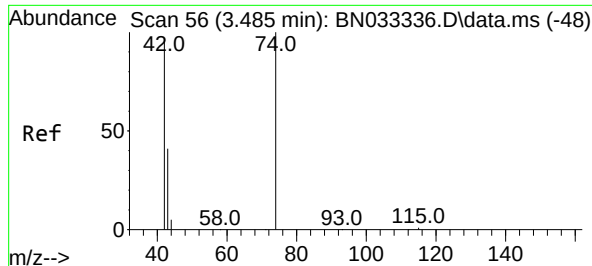
Tgt Ion:152 Resp: 5269
Ion Ratio Lower Upper
152 100
150 151.2 122.3 183.5
115 61.2 48.8 73.2



#2
1,4-Dioxane
Concen: 0.116 ng
RT: 3.196 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

Tgt Ion: 88 Resp: 677
Ion Ratio Lower Upper
88 100
43 49.8 30.6 46.0#
58 73.9 64.5 96.7

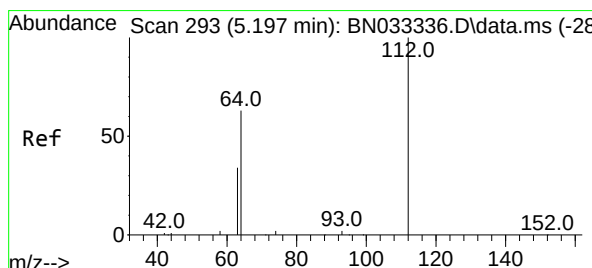
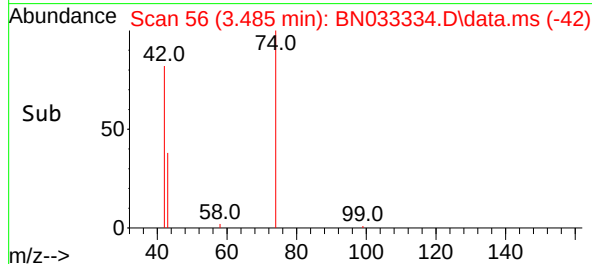
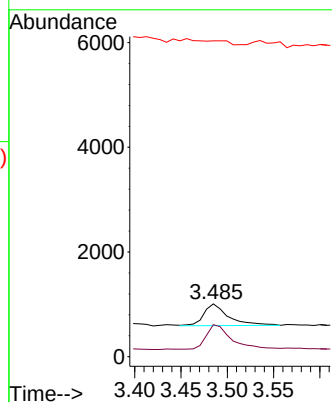
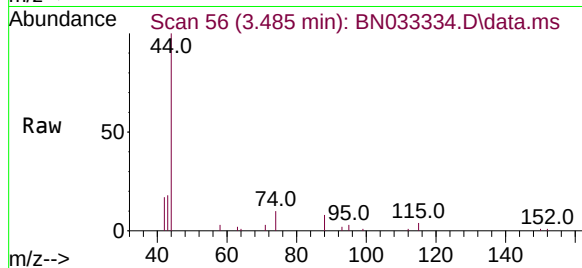




#3
n-Nitrosodimethylamine
Concen: 0.105 ng
RT: 3.485 min Scan# 56
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

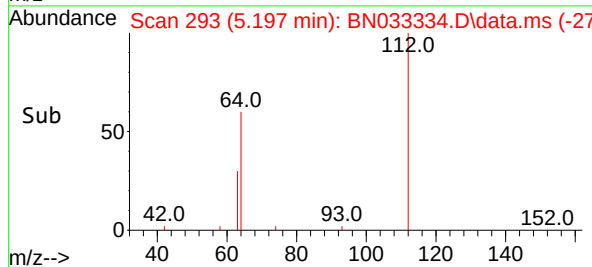
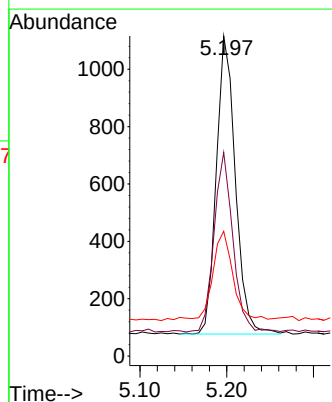
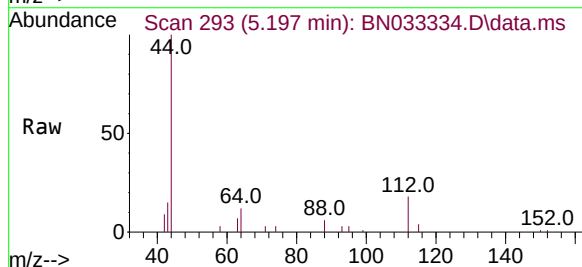
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

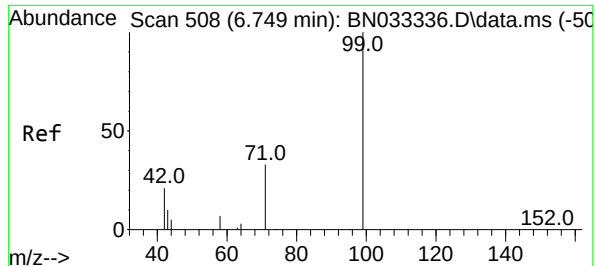
Tgt Ion: 42 Resp: 779
Ion Ratio Lower Upper
42 100
74 116.9 89.0 133.6
44 0.0 11.0 16.4#



#4
2-Fluorophenol
Concen: 0.114 ng
RT: 5.197 min Scan# 293
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

Tgt Ion: 112 Resp: 1581
Ion Ratio Lower Upper
112 100
64 59.8 48.1 72.1
63 32.6 25.4 38.2

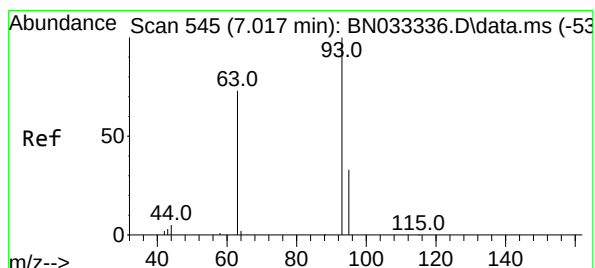
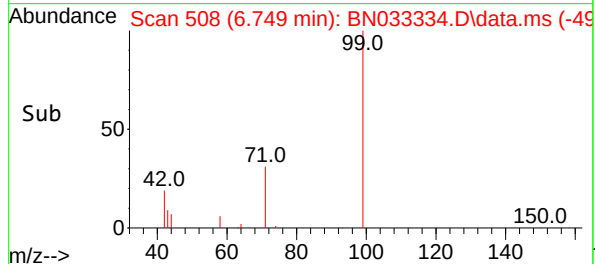
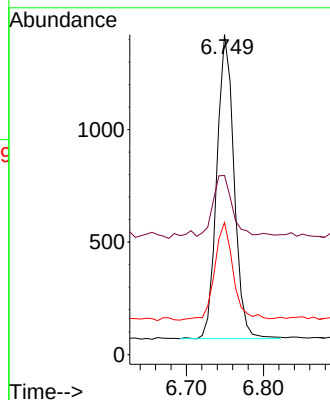
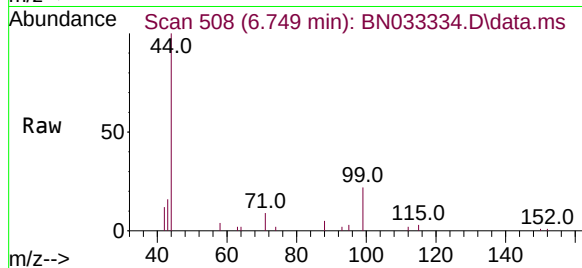




#5
Phenol-d6
Concen: 0.111 ng
RT: 6.749 min Scan# 508
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

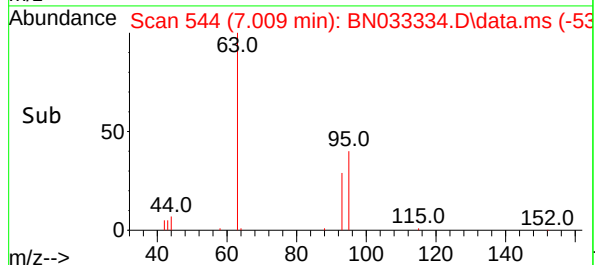
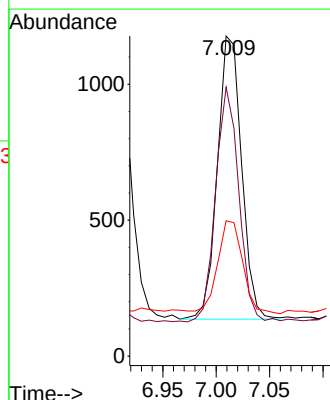
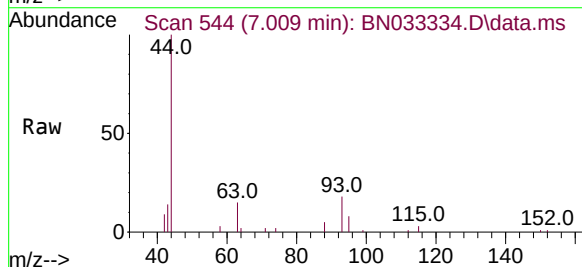
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

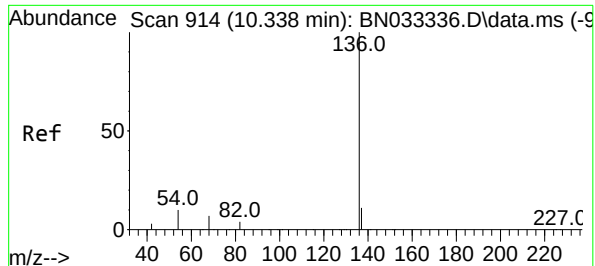
Tgt Ion: 99 Resp: 2097
Ion Ratio Lower Upper
99 100
42 22.4 18.5 27.7
71 34.8 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.101 ng
RT: 7.009 min Scan# 544
Delta R.T. -0.007 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

Tgt Ion: 93 Resp: 1639
Ion Ratio Lower Upper
93 100
63 79.7 65.2 97.8
95 34.0 26.2 39.4

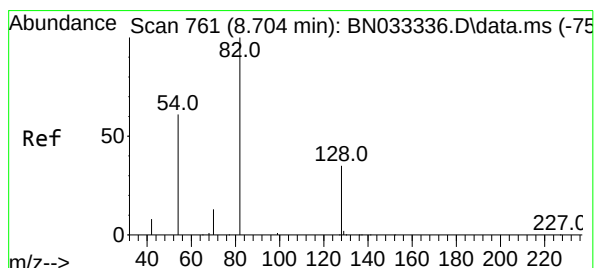
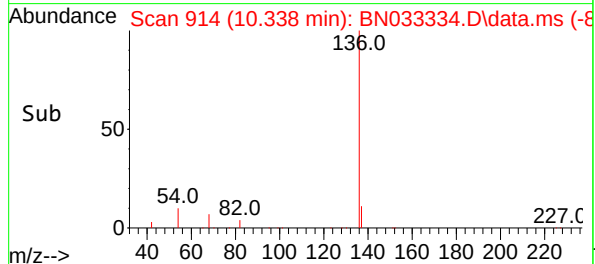
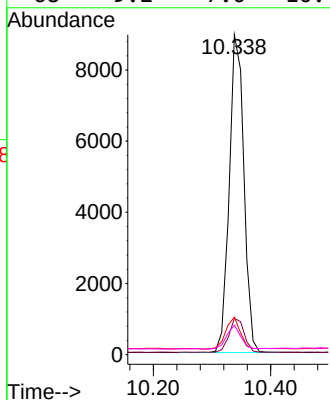
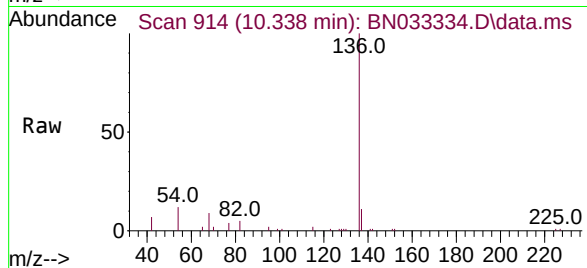




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.338 min Scan# 914
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

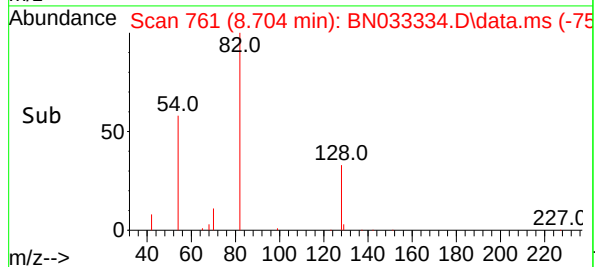
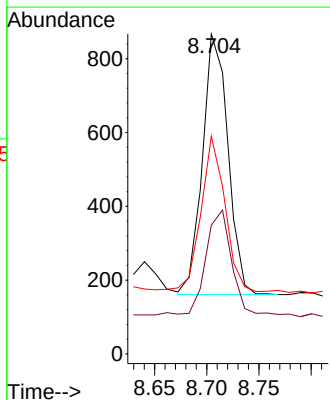
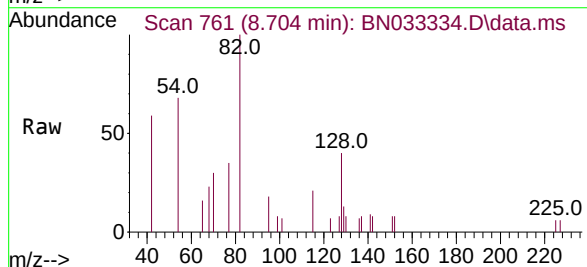
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

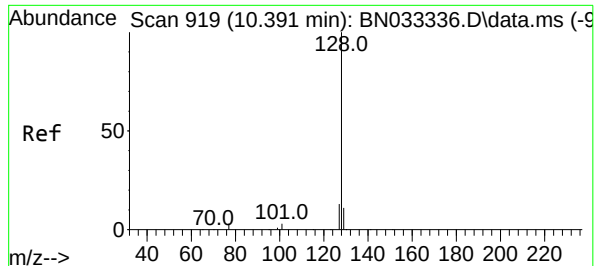
Tgt Ion:	136	Resp:	15510
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	11.7	9.4	14.0
68	9.2	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.127 ng
RT: 8.704 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

Tgt Ion:	82	Resp:	1200
Ion	Ratio	Lower	Upper
82	100		
128	40.3	29.0	43.4
54	68.1	50.2	75.4





#9
Naphthalene

Concen: 0.098 ng

RT: 10.391 min Scan# 919

Delta R.T. -0.000 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

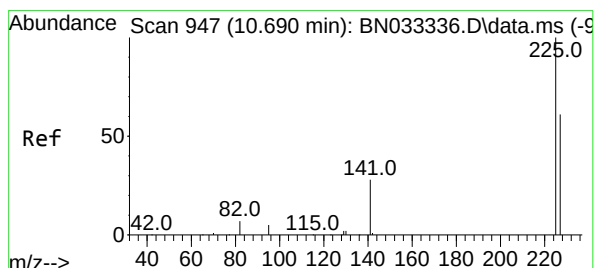
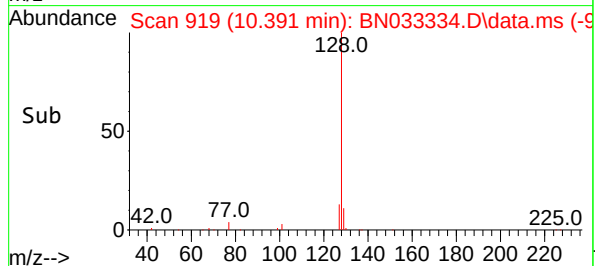
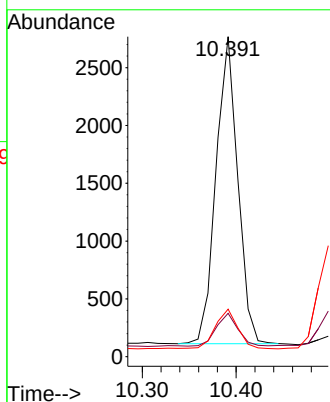
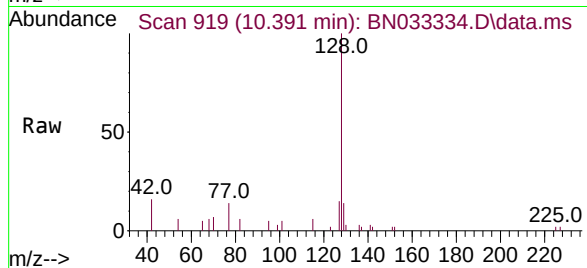
Tgt Ion:128 Resp: 4274

Ion Ratio Lower Upper

128 100

129 13.5 9.2 13.8

127 14.8 10.6 15.8



#10

Hexachlorobutadiene

Concen: 0.104 ng

RT: 10.690 min Scan# 947

Delta R.T. -0.000 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

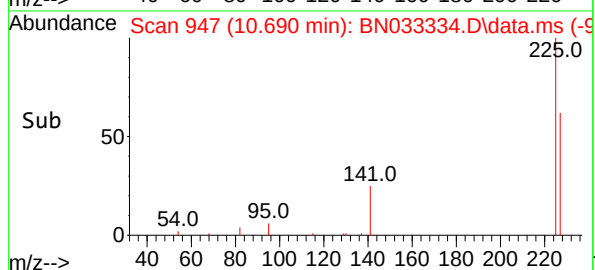
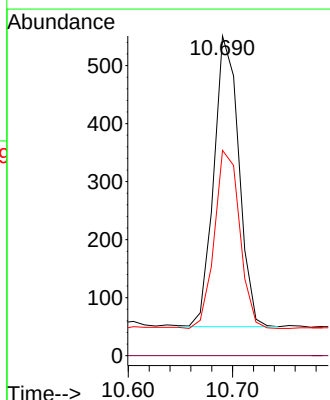
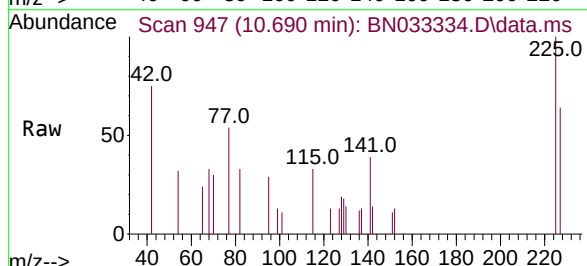
Tgt Ion:225 Resp: 834

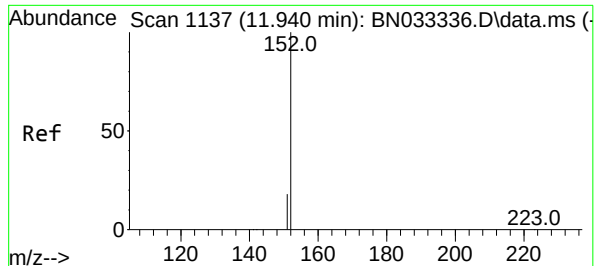
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 61.9 50.8 76.2

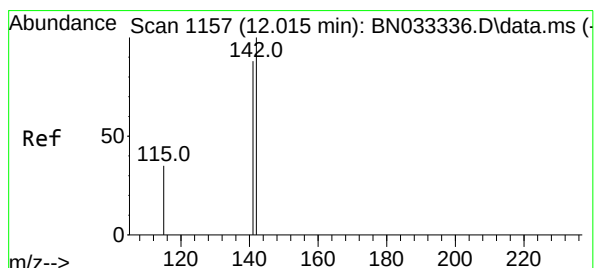
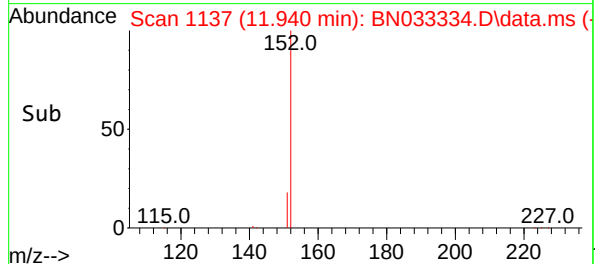
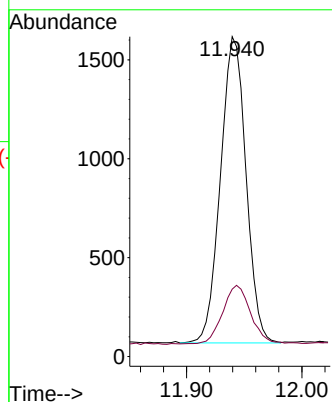
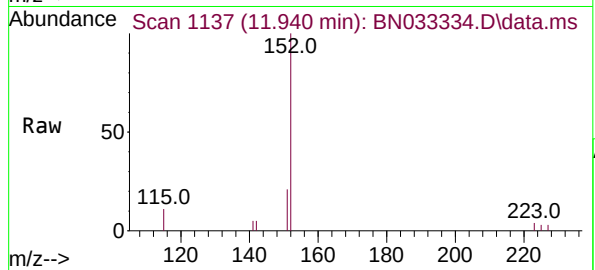




#11
2-Methylnaphthalene-d10
Concen: 0.099 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

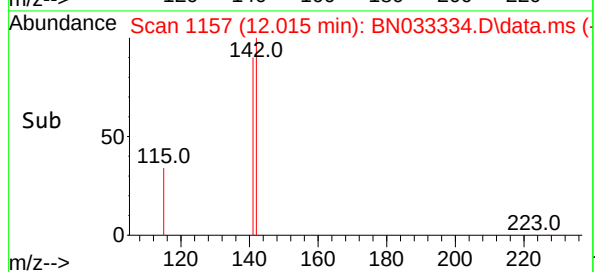
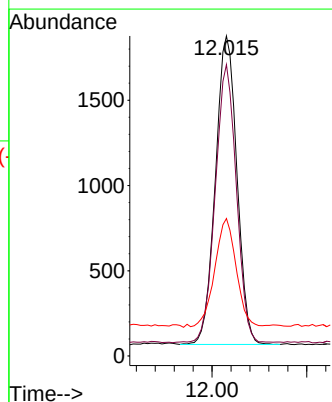
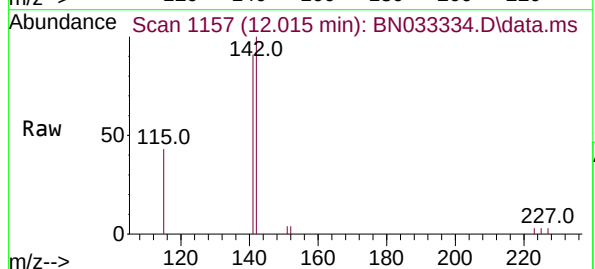
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

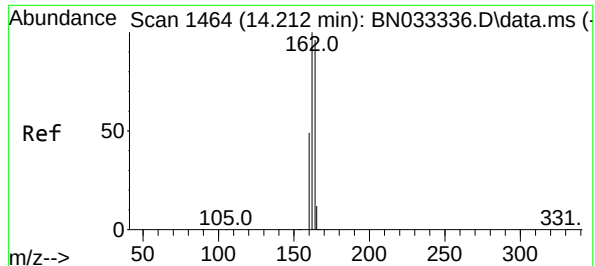
Tgt Ion:152 Resp: 2381
Ion Ratio Lower Upper
152 100
151 21.1 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 12.015 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

Tgt Ion:142 Resp: 2852
Ion Ratio Lower Upper
142 100
141 91.0 70.2 105.4
115 42.9 29.3 43.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.212 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

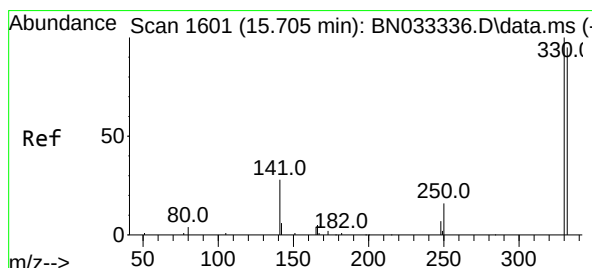
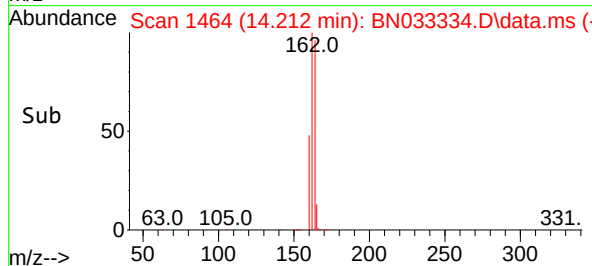
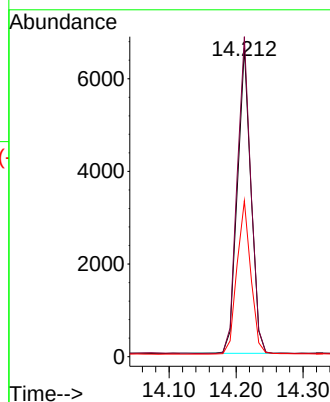
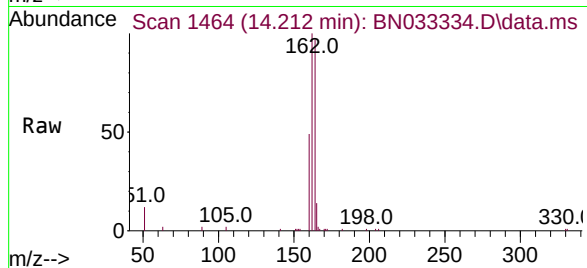
Tgt Ion:164 Resp: 9264

Ion Ratio Lower Upper

164 100

162 103.6 83.1 124.7

160 50.5 41.1 61.7



#14

2,4,6-Tribromophenol

Concen: 0.132 ng

RT: 15.704 min Scan# 1601

Delta R.T. -0.000 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

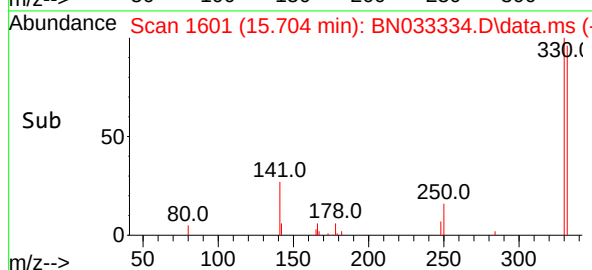
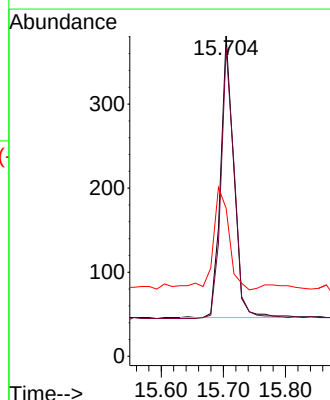
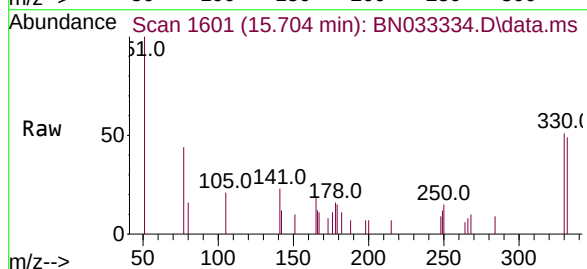
Tgt Ion:330 Resp: 495

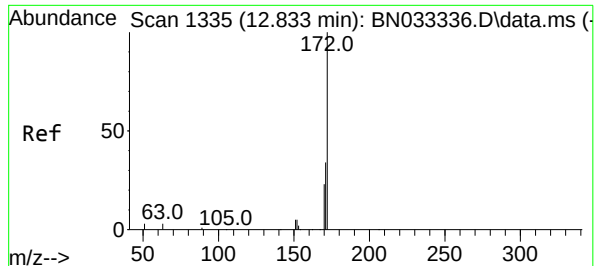
Ion Ratio Lower Upper

330 100

332 97.2 77.1 115.7

141 42.8 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.109 ng

RT: 12.833 min Scan# 1335

Delta R.T. -0.000 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

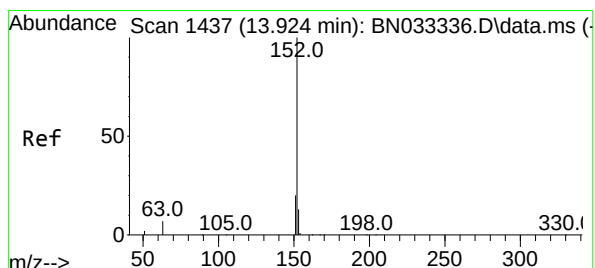
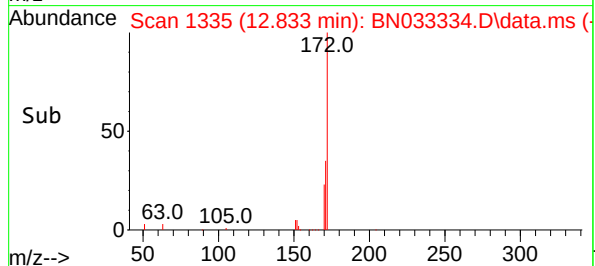
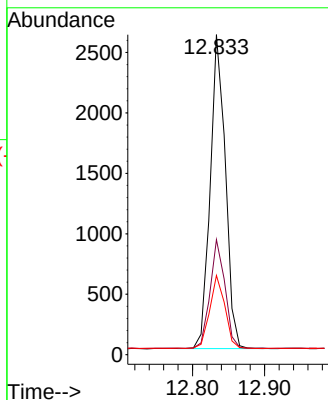
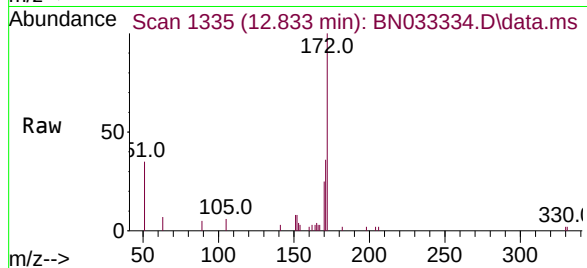
Tgt Ion:172 Resp: 3792

Ion Ratio Lower Upper

172 100

171 36.0 27.8 41.8

170 24.7 18.7 28.1



#16

Acenaphthylene

Concen: 0.092 ng

RT: 13.924 min Scan# 1437

Delta R.T. -0.000 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

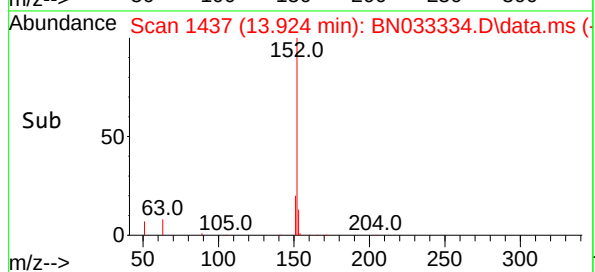
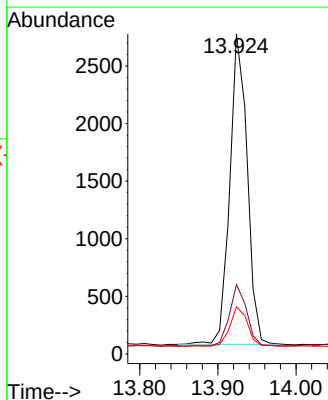
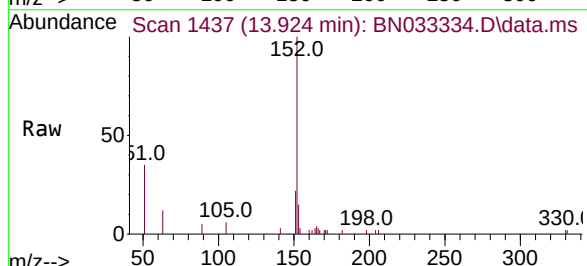
Tgt Ion:152 Resp: 4163

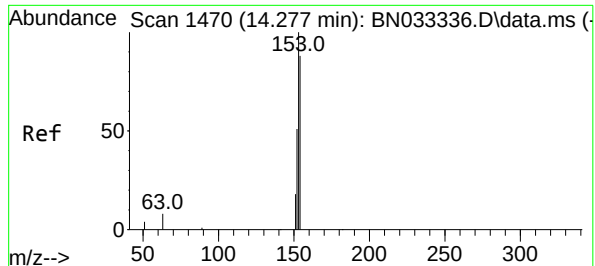
Ion Ratio Lower Upper

152 100

151 20.0 15.7 23.5

153 13.2 10.4 15.6

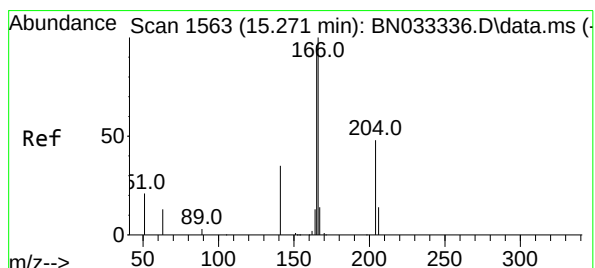
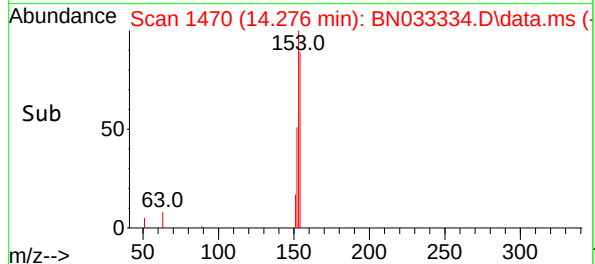
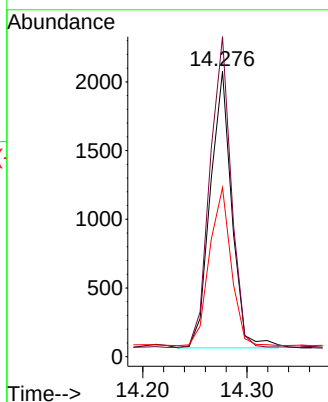
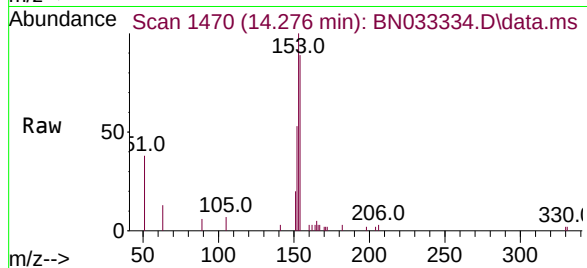




#17
Acenaphthene
Concen: 0.101 ng
RT: 14.276 min Scan# 1470
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

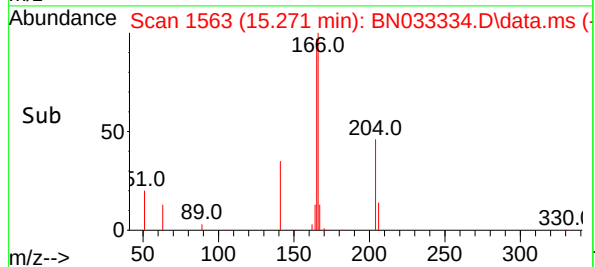
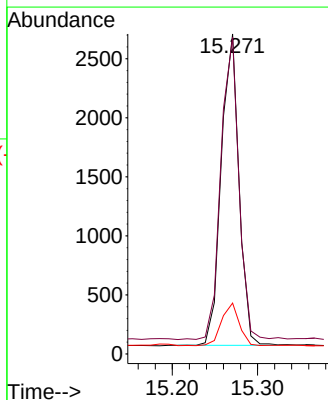
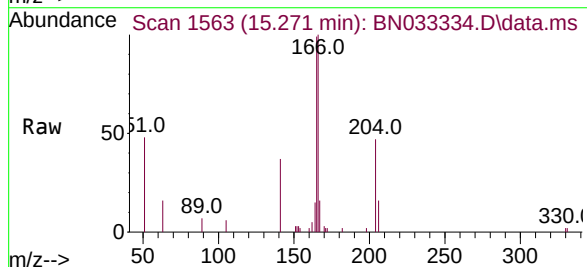
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

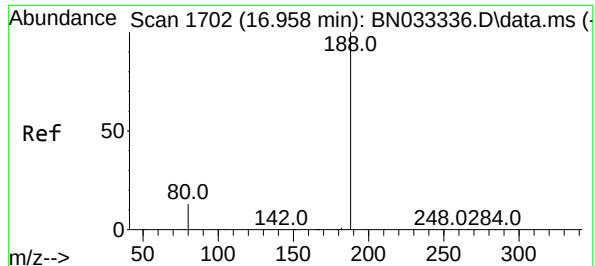
Tgt Ion	154	Resp	2894
Ion Ratio	Lower	Upper	
154	100		
153	110.2	89.7	134.5
152	57.3	47.2	70.8



#18
Fluorene
Concen: 0.100 ng
RT: 15.271 min Scan# 1563
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

Tgt Ion	166	Resp	3817
Ion Ratio	Lower	Upper	
166	100		
165	98.2	78.0	117.0
167	13.5	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.958 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

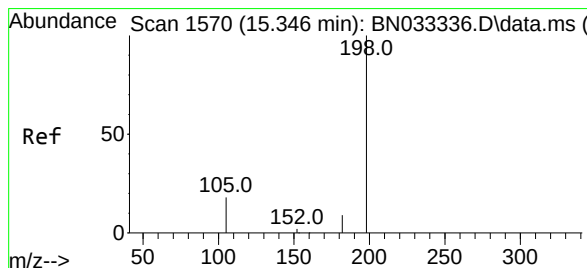
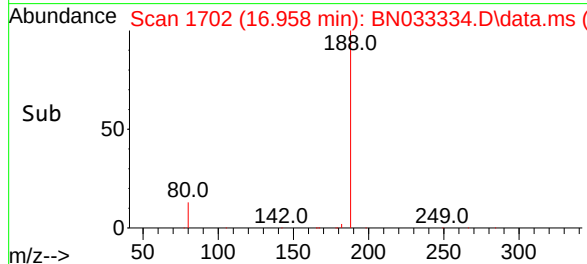
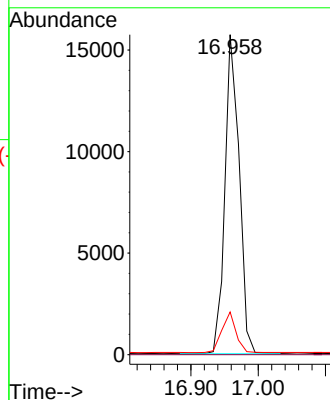
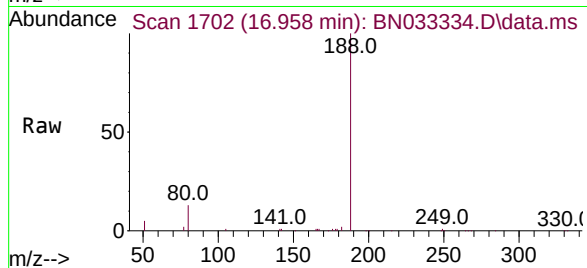
Tgt Ion:188 Resp: 23040

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.147 ng

RT: 15.346 min Scan# 1570

Delta R.T. -0.000 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

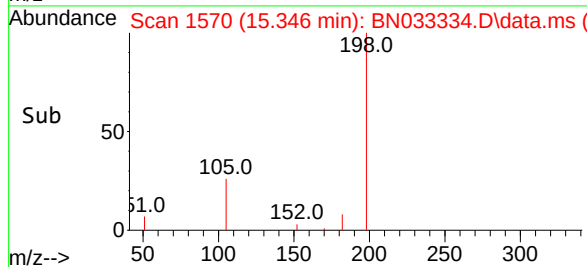
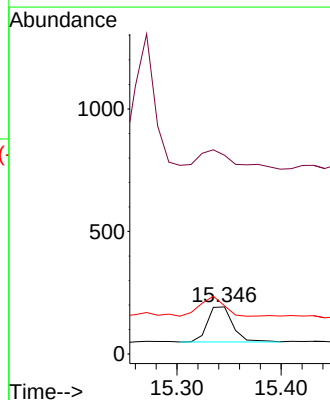
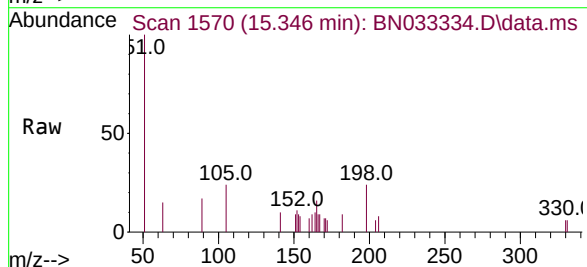
Tgt Ion:198 Resp: 243

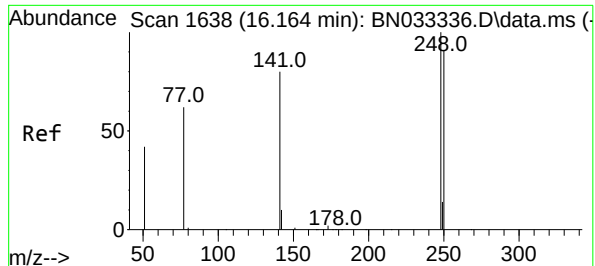
Ion Ratio Lower Upper

198 100

51 422.4 62.8 94.2#

105 102.6 34.1 51.1#

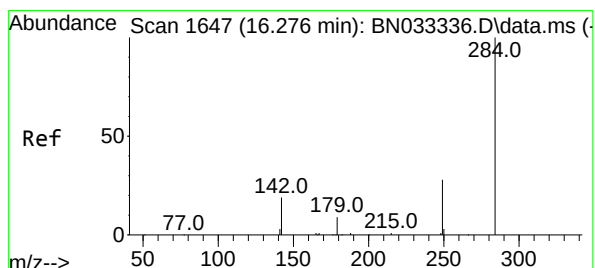
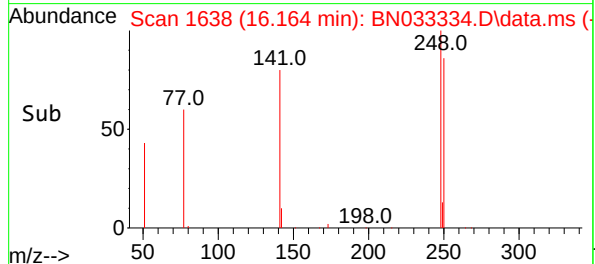
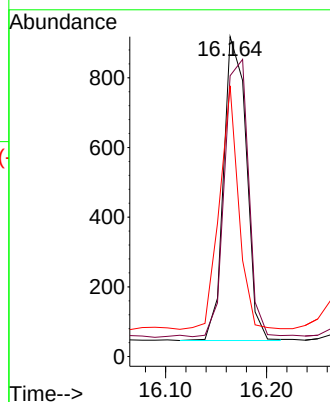
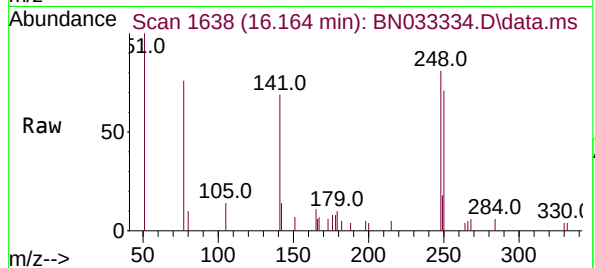




#21
4-Bromophenyl-phenylether
Concen: 0.098 ng
RT: 16.164 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

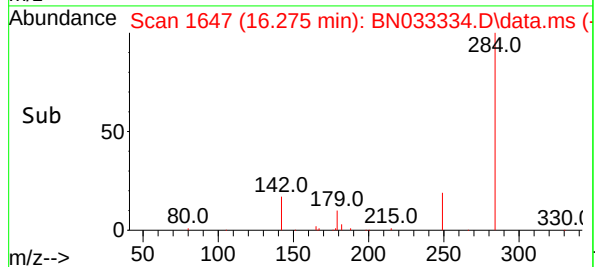
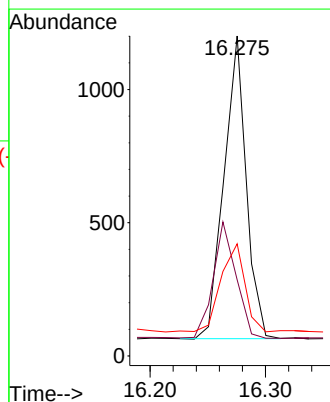
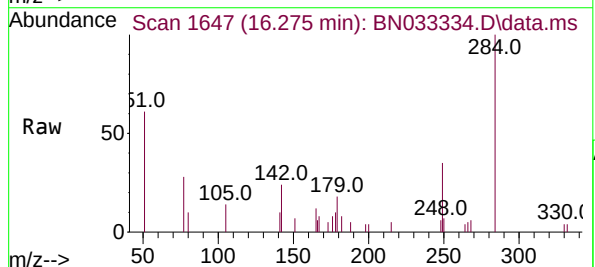
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

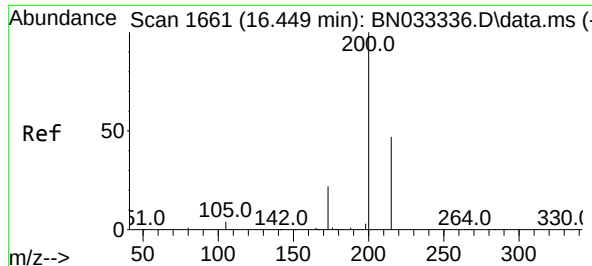
Tgt Ion:248 Resp: 1365
Ion Ratio Lower Upper
248 100
250 87.8 73.0 109.4
141 84.6 64.6 96.8



#22
Hexachlorobenzene
Concen: 0.103 ng
RT: 16.275 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

Tgt Ion:284 Resp: 1520
Ion Ratio Lower Upper
284 100
142 39.4 32.2 48.4
249 32.0 25.3 37.9





#23

Atrazine

Concen: 0.093 ng

RT: 16.449 min Scan# 1661

Delta R.T. -0.000 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

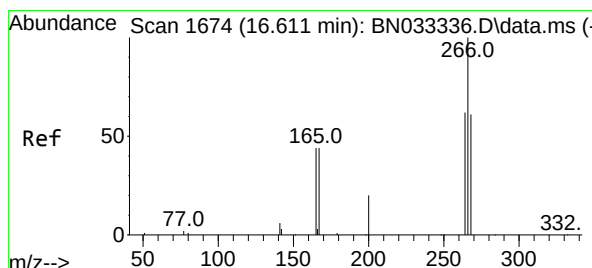
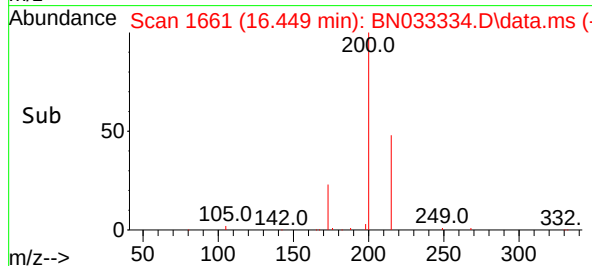
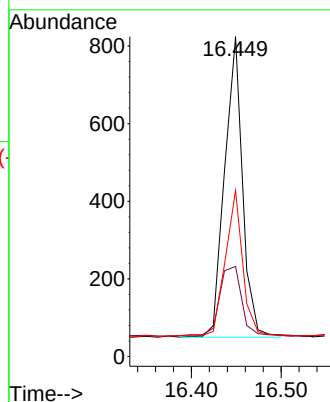
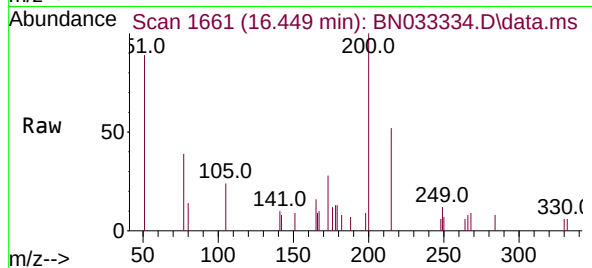
Tgt Ion:200 Resp: 1073

Ion Ratio Lower Upper

200 100

173 28.2 18.7 28.1#

215 51.9 38.6 58.0



#24

Pentachlorophenol

Concen: 0.133 ng

RT: 16.611 min Scan# 1674

Delta R.T. -0.000 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

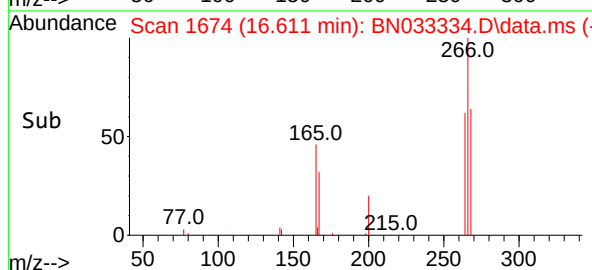
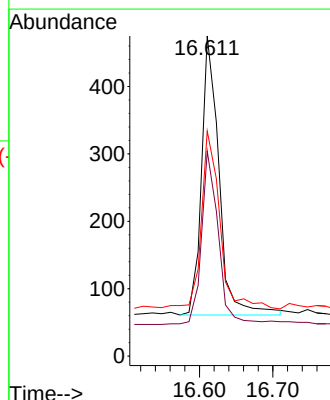
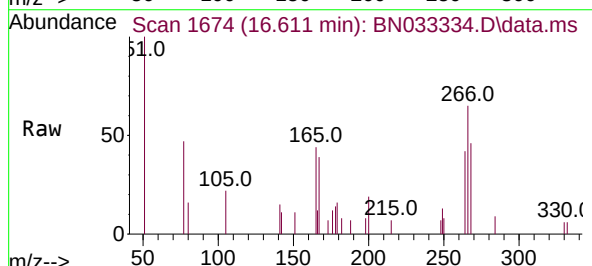
Tgt Ion:266 Resp: 684

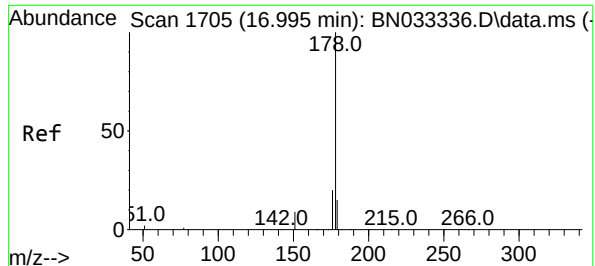
Ion Ratio Lower Upper

266 100

264 60.2 49.2 73.8

268 67.3 51.2 76.8

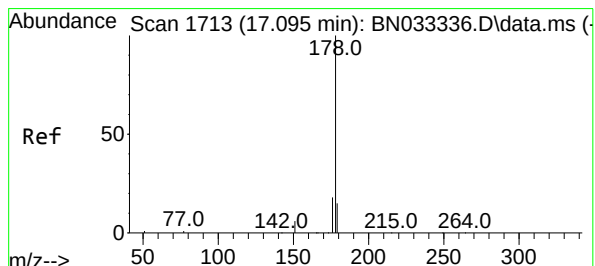
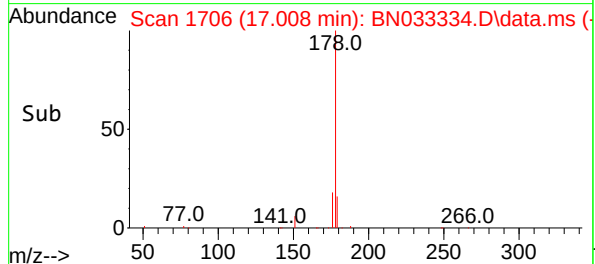
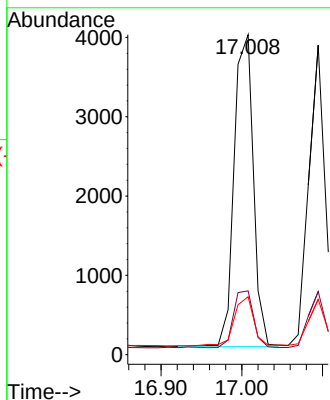
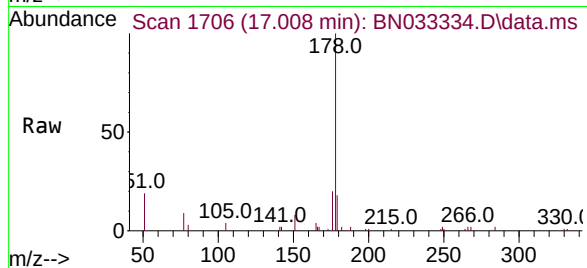




#25
Phenanthrene
Concen: 0.098 ng
RT: 17.008 min Scan# 1706
Delta R.T. 0.012 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

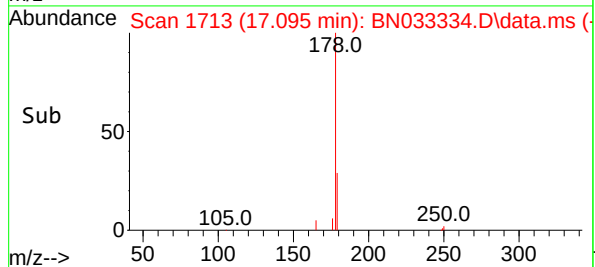
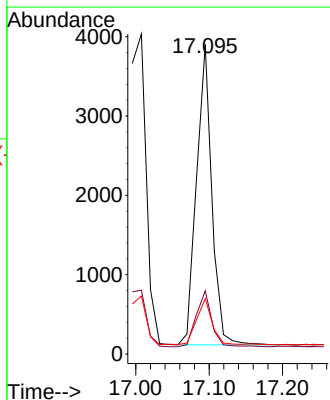
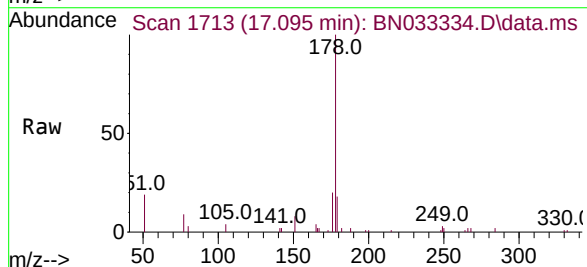
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

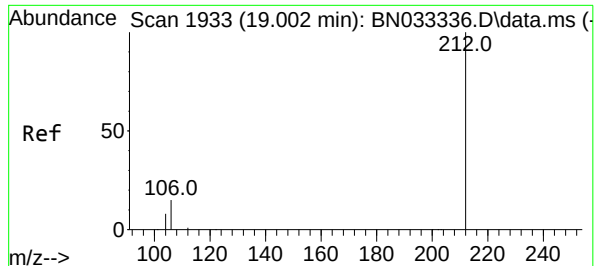
Tgt Ion:178 Resp: 6521
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.0
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.085 ng
RT: 17.095 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

Tgt Ion:178 Resp: 5483
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.5 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.094 ng

RT: 19.002 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

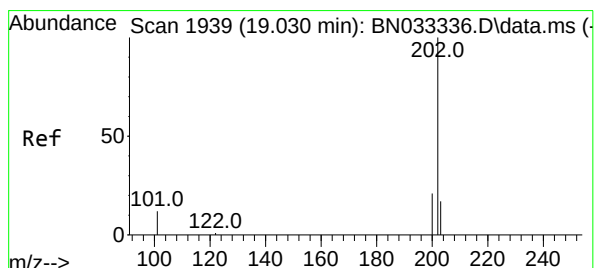
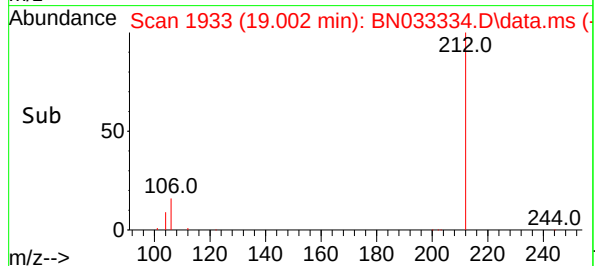
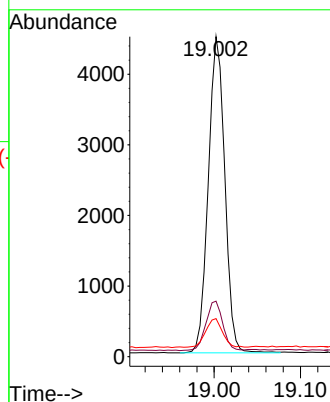
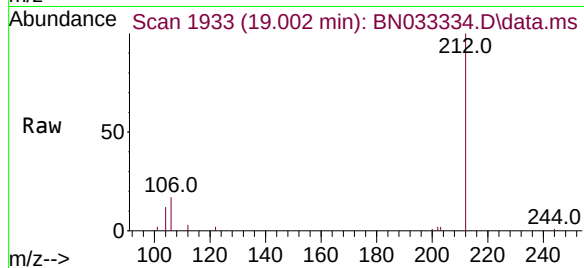
Tgt Ion:212 Resp: 5960

Ion Ratio Lower Upper

212 100

106 15.9 12.8 19.2

104 9.2 7.1 10.7



#28

Fluoranthene

Concen: 0.091 ng

RT: 19.035 min Scan# 1940

Delta R.T. 0.005 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

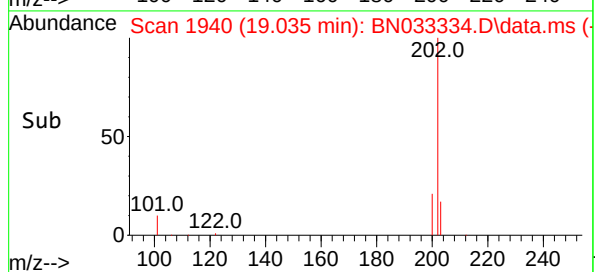
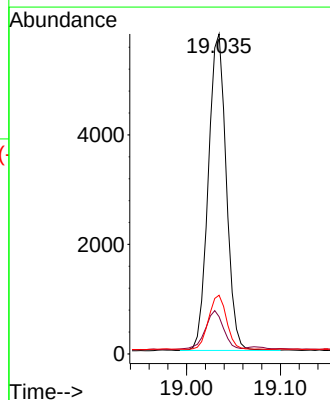
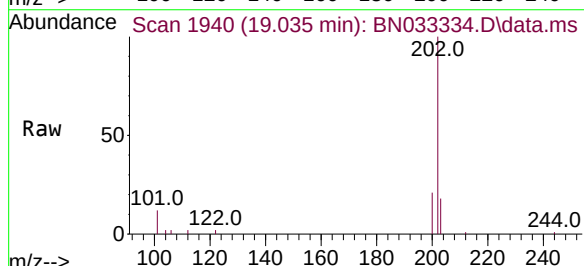
Tgt Ion:202 Resp: 7654

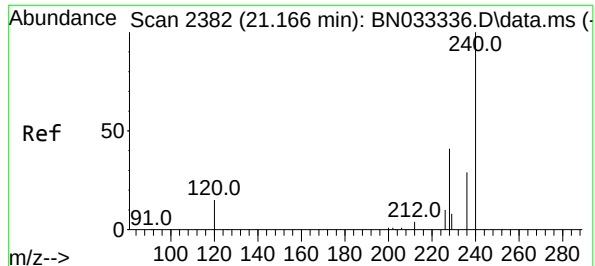
Ion Ratio Lower Upper

202 100

101 12.5 9.8 14.6

203 17.3 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.174 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

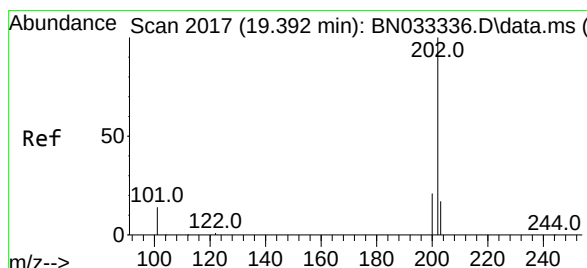
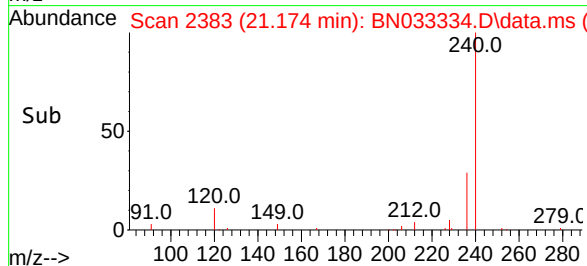
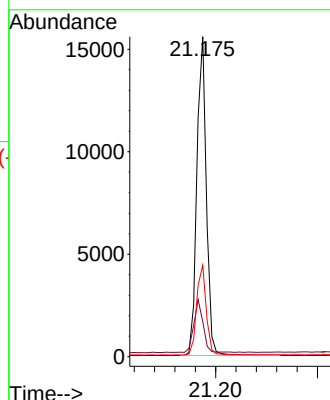
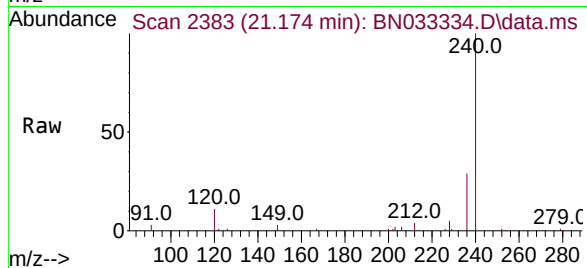
Tgt Ion:240 Resp: 20123

Ion Ratio Lower Upper

240 100

120 10.9 13.0 19.6#

236 28.6 23.2 34.8



#30

Pyrene

Concen: 0.102 ng

RT: 19.397 min Scan# 2018

Delta R.T. 0.005 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

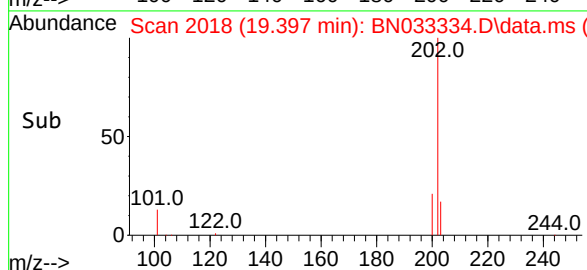
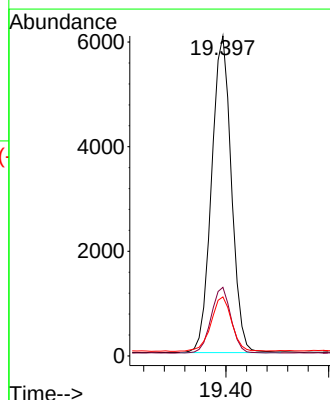
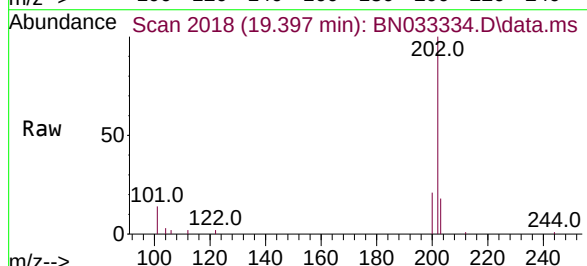
Tgt Ion:202 Resp: 8085

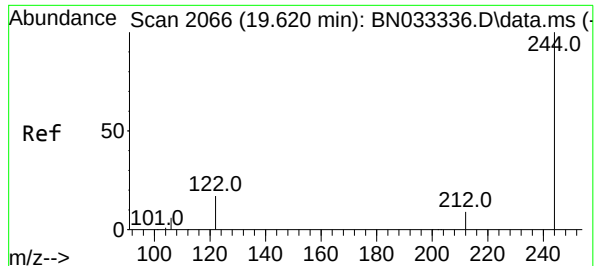
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 18.1 14.2 21.4

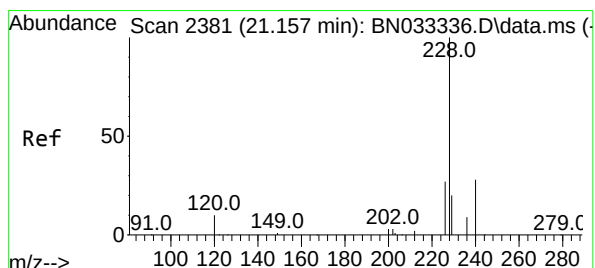
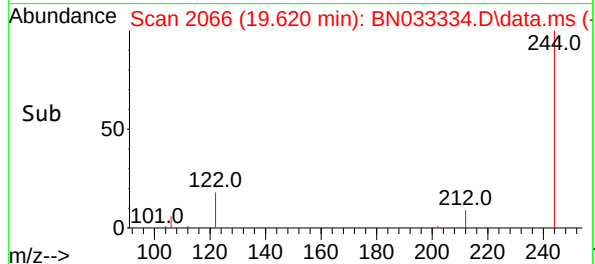
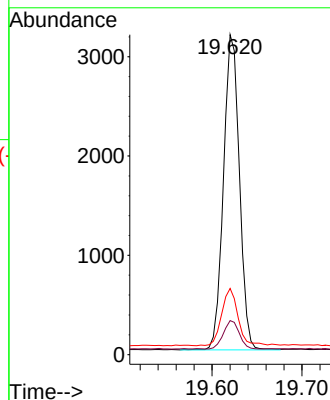
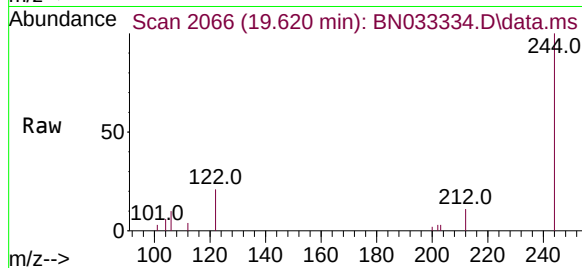




#31
Terphenyl-d14
Concen: 0.112 ng
RT: 19.620 min Scan# 2066
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

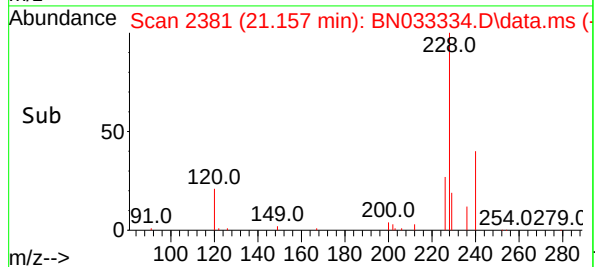
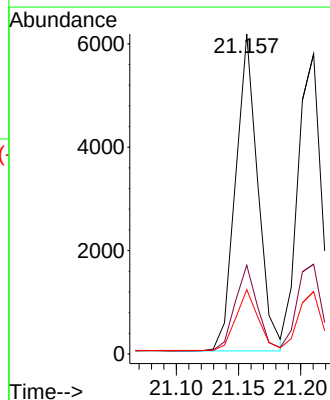
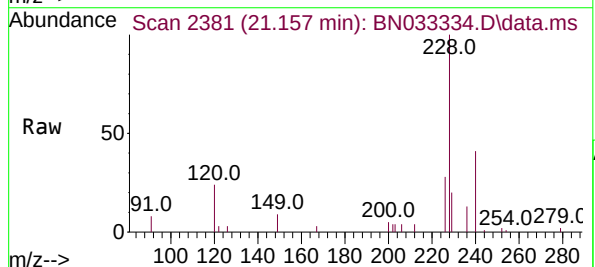
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

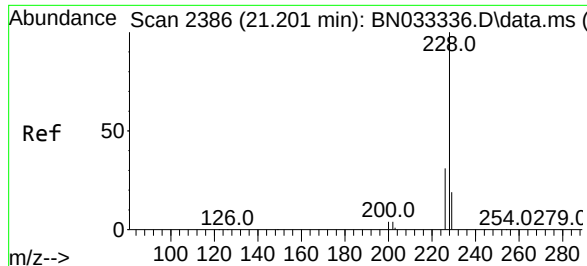
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.6	7.7	11.5
122	20.7	14.0	21.0



#32
Benzo(a)anthracene
Concen: 0.097 ng
RT: 21.157 min Scan# 2381
Delta R.T. -0.000 min
Lab File: BN033334.D
Acq: 10 Aug 2024 13:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	21.6	32.4
229	20.1	15.9	23.9





#33

Chrysene

Concen: 0.100 ng

RT: 21.210 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

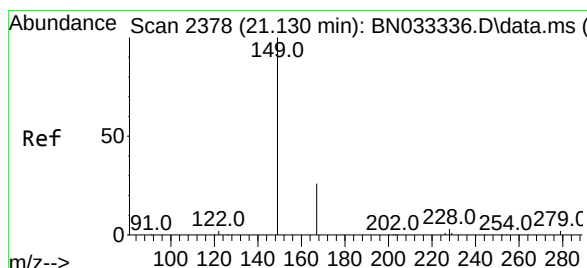
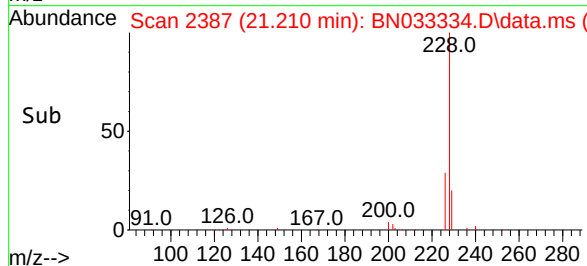
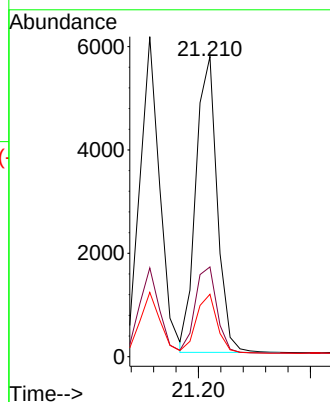
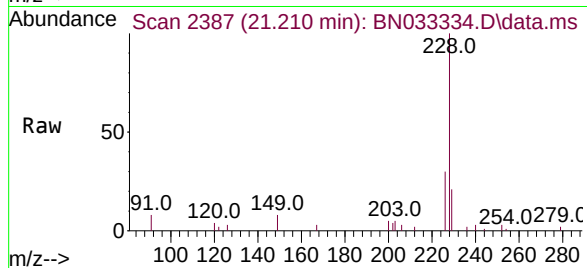
Tgt Ion:228 Resp: 7565

Ion Ratio Lower Upper

228 100

226 29.9 24.7 37.1

229 20.8 15.4 23.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.096 ng

RT: 21.139 min Scan# 2379

Delta R.T. 0.009 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

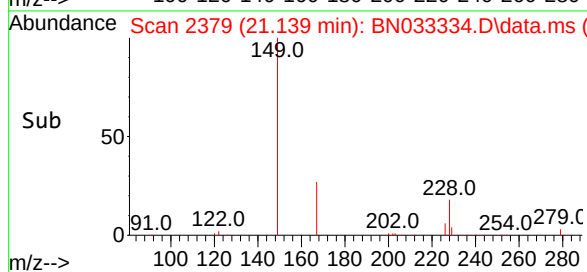
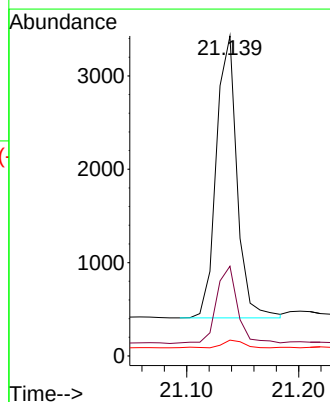
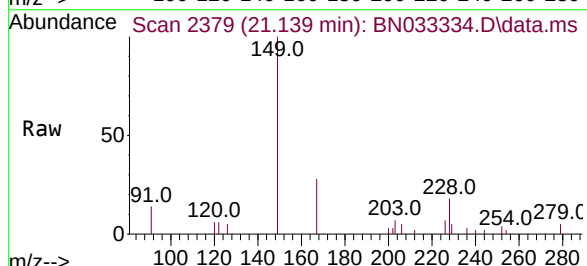
Tgt Ion:149 Resp: 3895

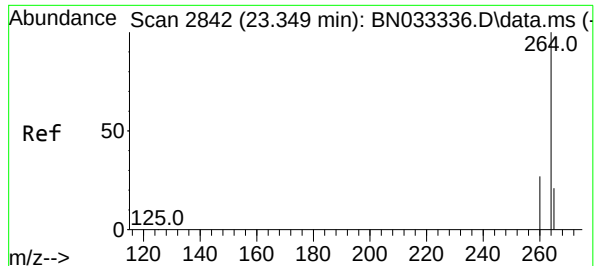
Ion Ratio Lower Upper

149 100

167 27.8 20.9 31.3

279 2.8 2.2 3.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.355 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

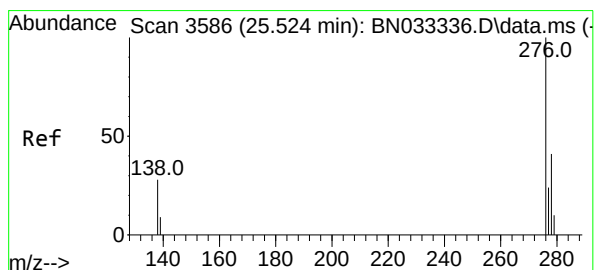
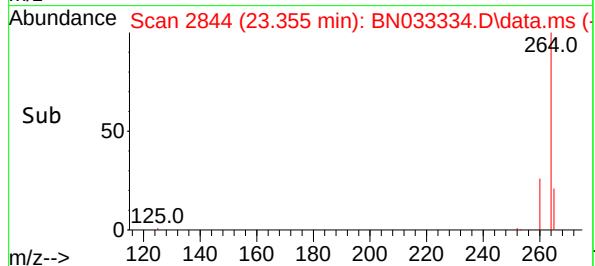
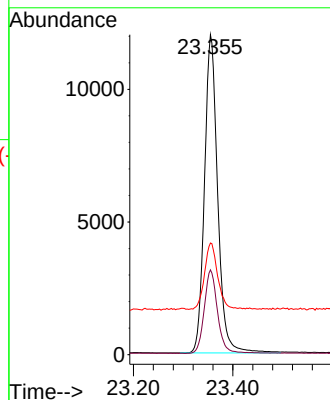
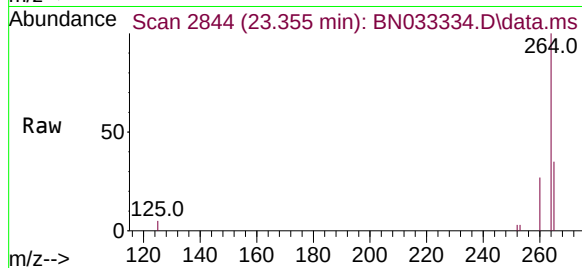
Tgt Ion:264 Resp: 22159

Ion Ratio Lower Upper

264 100

260 26.5 21.6 32.4

265 34.9 29.3 43.9



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.084 ng

RT: 25.536 min Scan# 3590

Delta R.T. 0.012 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

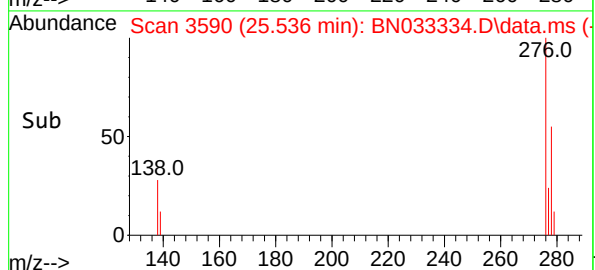
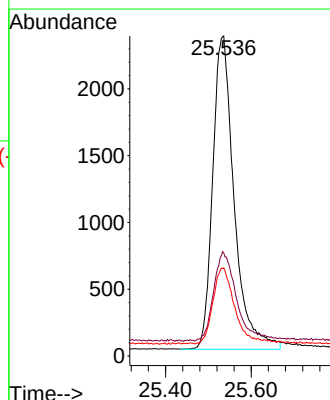
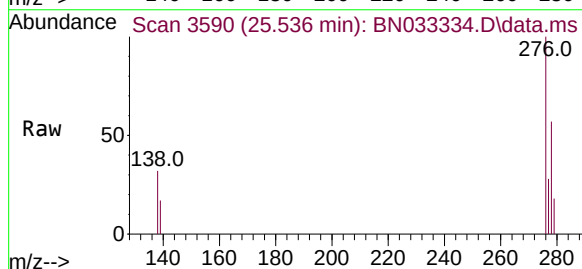
Tgt Ion:276 Resp: 8143

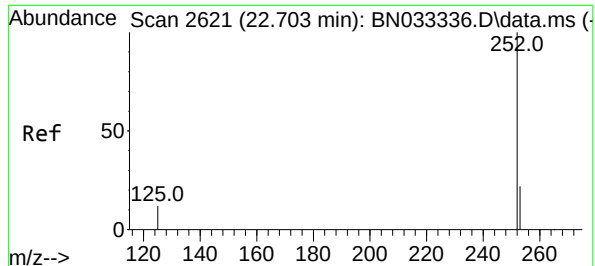
Ion Ratio Lower Upper

276 100

138 30.4 24.9 37.3

277 24.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.094 ng

RT: 22.709 min Scan# 2621

Delta R.T. 0.006 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

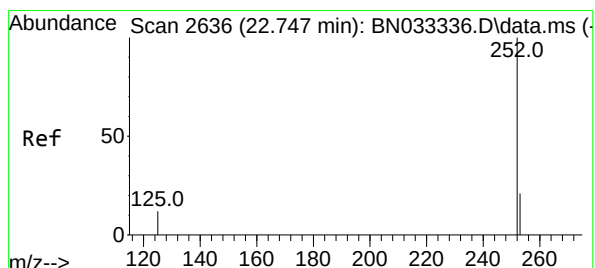
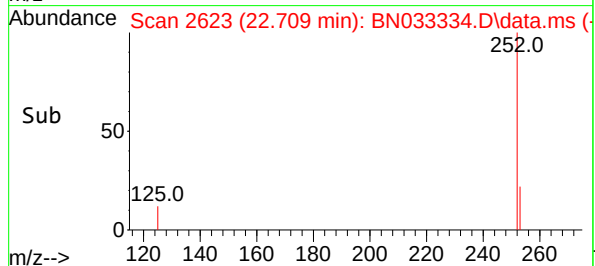
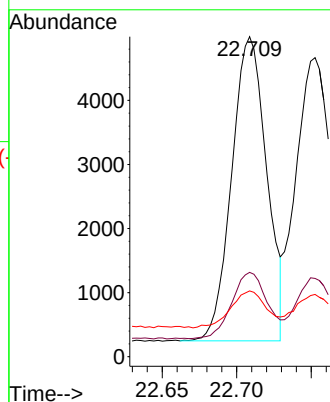
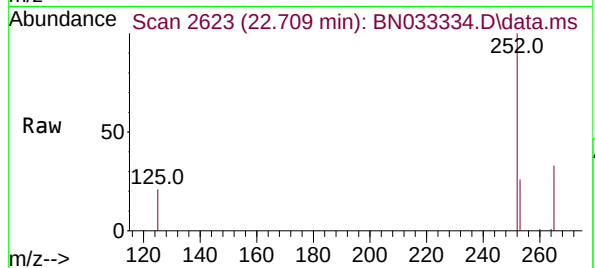
Tgt Ion:252 Resp: 7729

Ion Ratio Lower Upper

252 100

253 26.4 18.2 27.2

125 20.6 11.3 16.9#



#38

Benzo(k)fluoranthene

Concen: 0.097 ng

RT: 22.753 min Scan# 2638

Delta R.T. 0.006 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

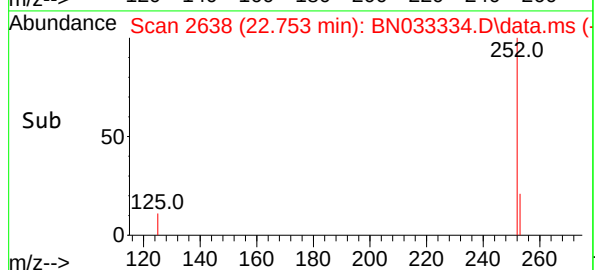
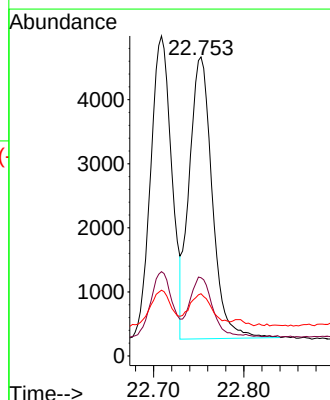
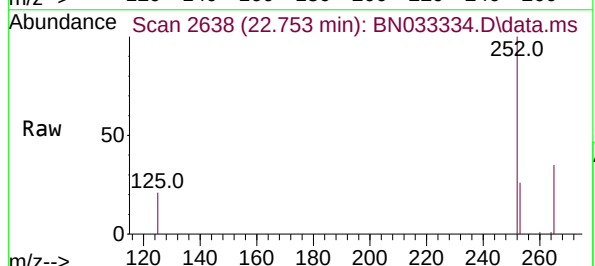
Tgt Ion:252 Resp: 7776

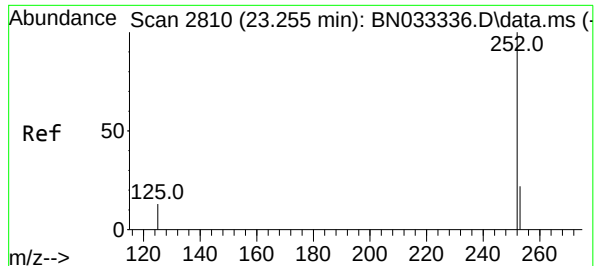
Ion Ratio Lower Upper

252 100

253 26.2 17.9 26.9

125 20.8 11.3 16.9#





#39

Benzo(a)pyrene

Concen: 0.091 ng

RT: 23.261 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

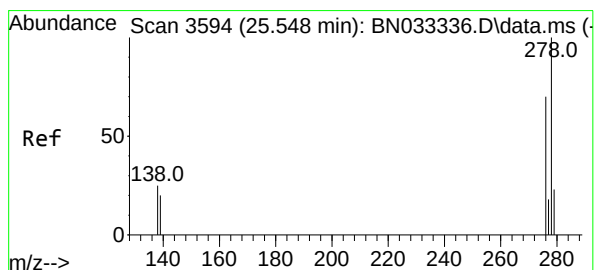
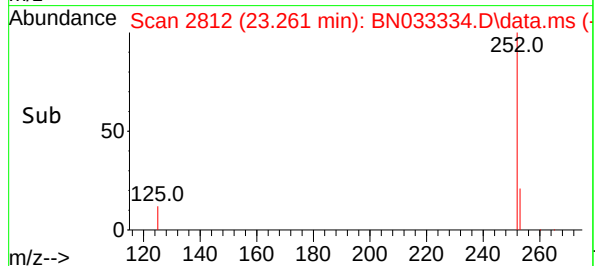
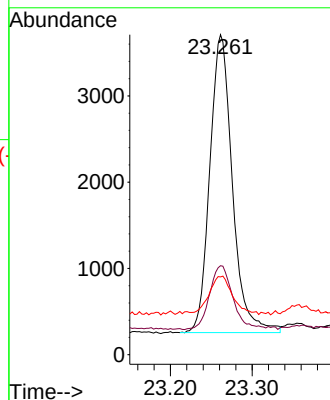
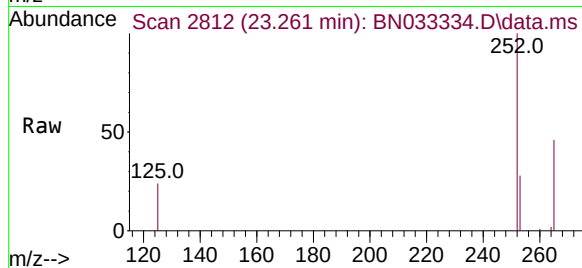
Tgt Ion:252 Resp: 6639

Ion Ratio Lower Upper

252 100

253 27.8 18.6 28.0

125 24.3 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.082 ng

RT: 25.553 min Scan# 3596

Delta R.T. 0.006 min

Lab File: BN033334.D

Acq: 10 Aug 2024 13:40

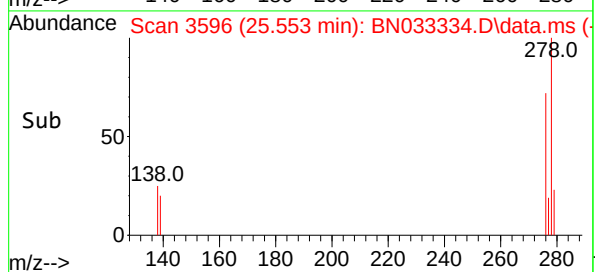
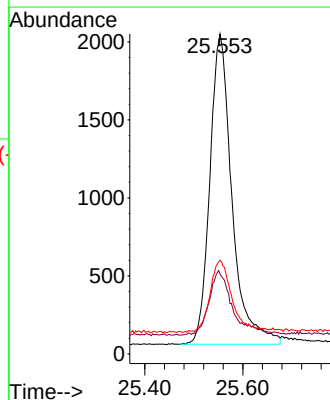
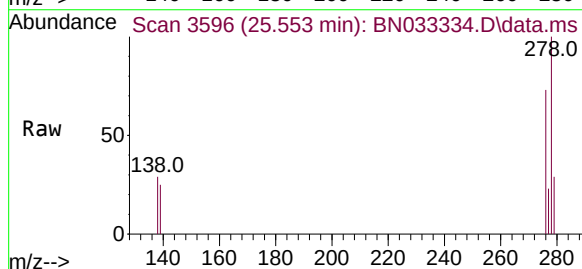
Tgt Ion:278 Resp: 6243

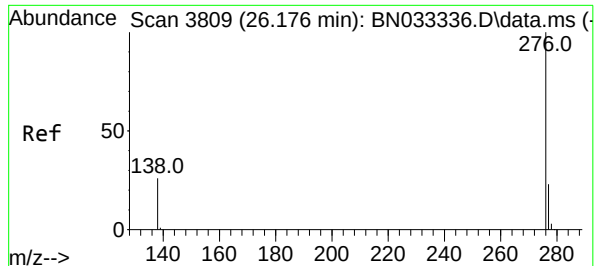
Ion Ratio Lower Upper

278 100

139 25.0 17.0 25.6

279 29.3 20.0 30.0





#41

Benzo(g,h,i)perylene

Concen: 0.087 ng

RT: 26.188 min Scan# 3813

Delta R.T. 0.012 min

Lab File: BN033334.D

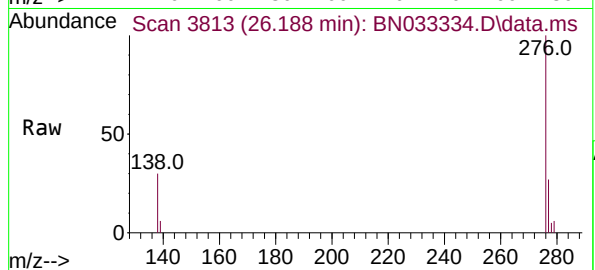
Acq: 10 Aug 2024 13:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



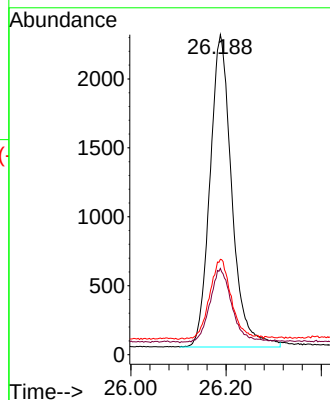
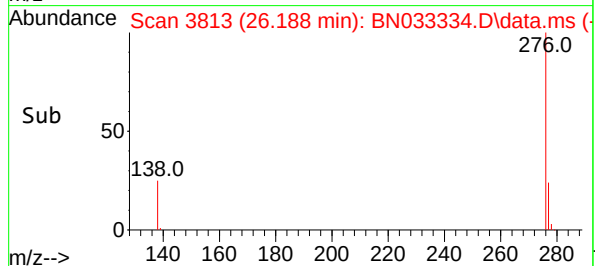
Tgt Ion:276 Resp: 7216

Ion Ratio Lower Upper

276 100

277 26.9 19.4 29.2

138 29.8 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
 Data File : BN033335.D
 Acq On : 10 Aug 2024 14:16
 Operator : MA/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Aug 12 01:01:06 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 12 00:59:25 2024
 Response via : Initial Calibration

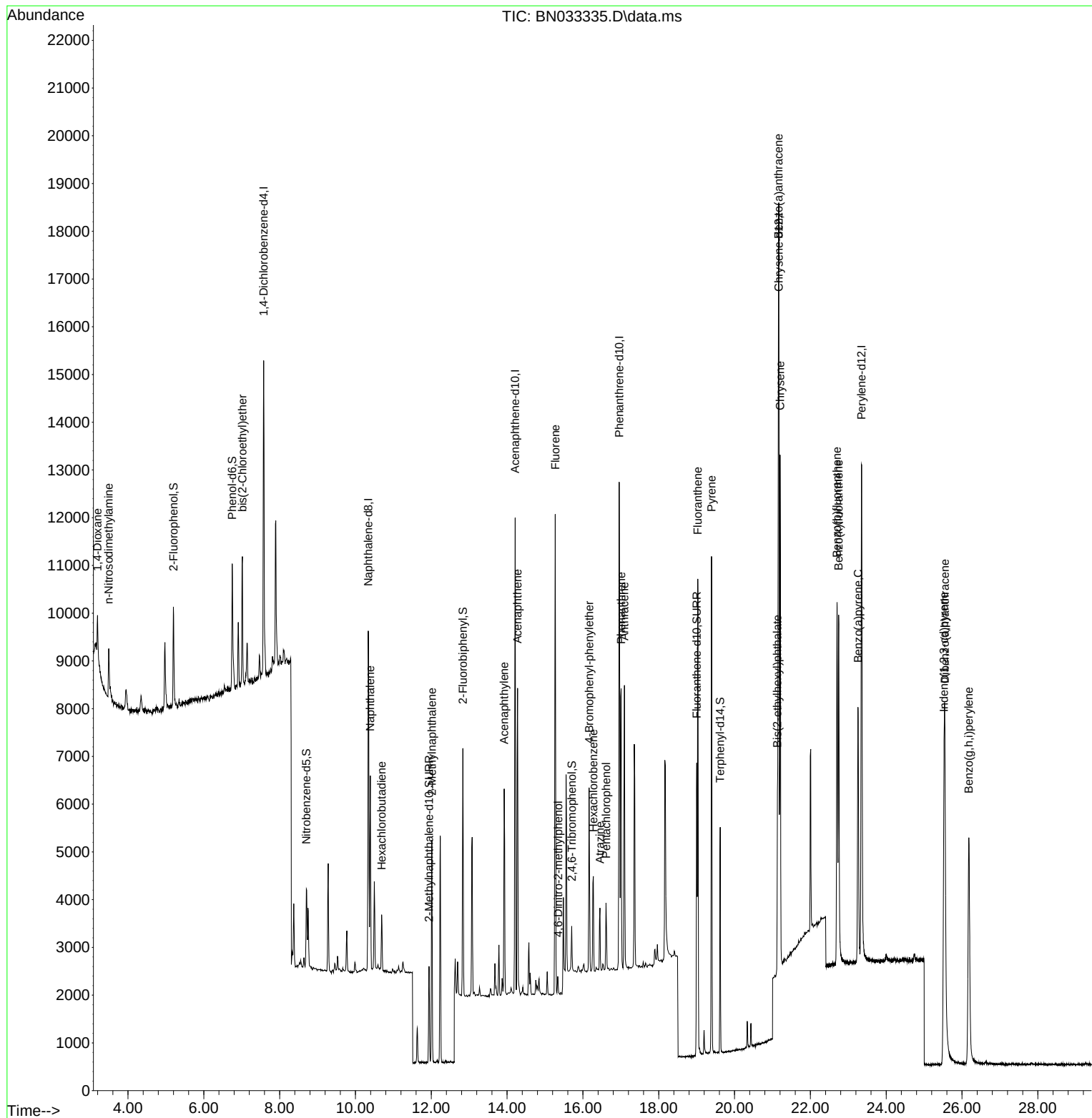
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.580	152	3251	0.400	ng	0.00
7) Naphthalene-d8	10.338	136	9138	0.400	ng	0.00
13) Acenaphthene-d10	14.212	164	5282	0.400	ng	0.00
19) Phenanthrene-d10	16.958	188	12691	0.400	ng	0.00
29) Chrysene-d12	21.166	240	11524	0.400	ng	0.00
35) Perylene-d12	23.349	264	13553	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.204	112	1846	0.216	ng	0.00
5) Phenol-d6	6.749	99	2374	0.203	ng	0.00
8) Nitrobenzene-d5	8.704	82	1357	0.243	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	2682	0.188	ng	0.00
14) 2,4,6-Tribromophenol	15.705	330	521	0.244	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	4214	0.212	ng	0.00
27) Fluoranthene-d10	19.002	212	6478	0.186	ng	0.00
31) Terphenyl-d14	19.620	244	4203	0.211	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.196	88	779	0.216	ng	93
3) n-Nitrosodimethylamine	3.492	42	871	0.190	ng	# 96
6) bis(2-Chloroethyl)ether	7.017	93	1926	0.193	ng	100
9) Naphthalene	10.391	128	4942	0.193	ng	95
10) Hexachlorobutadiene	10.690	225	941	0.200	ng	# 100
12) 2-Methylnaphthalene	12.015	142	3227	0.183	ng	96
16) Acenaphthylene	13.924	152	4520	0.175	ng	99
17) Acenaphthene	14.277	154	3233	0.198	ng	99
18) Fluorene	15.271	166	4116	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.346	198	266	0.293	ng	# 1
21) 4-Bromophenyl-phenylether	16.164	248	1434	0.186	ng	99
22) Hexachlorobenzene	16.276	284	1668	0.206	ng	100
23) Atrazine	16.449	200	1085	0.171	ng	93
24) Pentachlorophenol	16.611	266	654	0.231	ng	98
25) Phenanthrene	17.008	178	6950	0.189	ng	98
26) Anthracene	17.095	178	5950	0.167	ng	99
28) Fluoranthene	19.030	202	8441	0.182	ng	100
30) Pyrene	19.392	202	8840	0.195	ng	100
32) Benzo(a)anthracene	21.157	228	8163	0.182	ng	99
33) Chrysene	21.201	228	8497	0.196	ng	99
34) Bis(2-ethylhexyl)phtha...	21.130	149	3384	0.146	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.524	276	10976	0.185	ng	100
37) Benzo(b)fluoranthene	22.703	252	9460	0.188	ng	# 93
38) Benzo(k)fluoranthene	22.747	252	9352	0.191	ng	# 92
39) Benzo(a)pyrene	23.255	252	7833	0.175	ng	# 89
40) Dibenzo(a,h)anthracene	25.548	278	8570	0.183	ng	95
41) Benzo(g,h,i)perylene	26.179	276	10072	0.198	ng	96

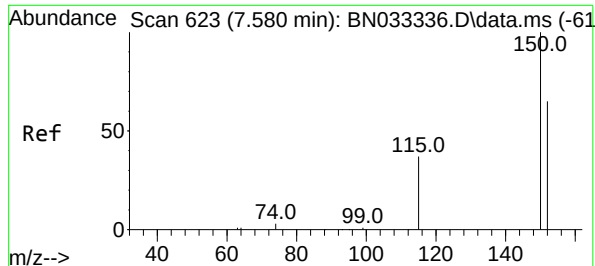
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033335.D
Acq On : 10 Aug 2024 14:16
Operator : MA/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

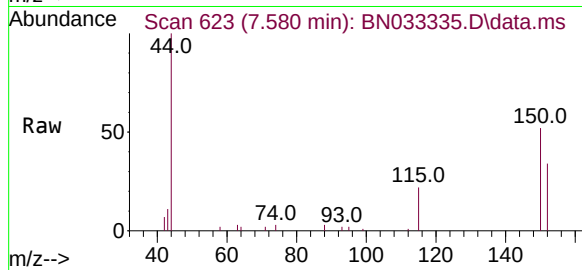
Quant Time: Aug 12 01:01:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 00:59:25 2024
Response via : Initial Calibration



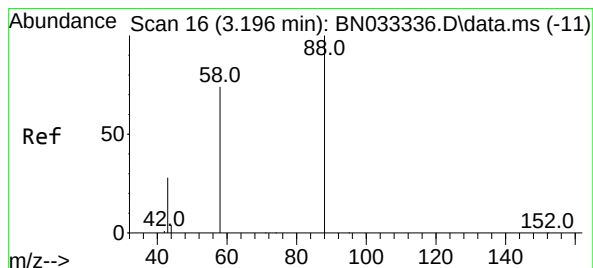
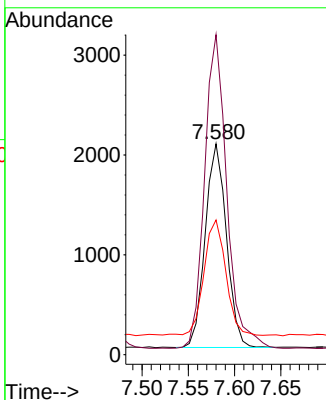
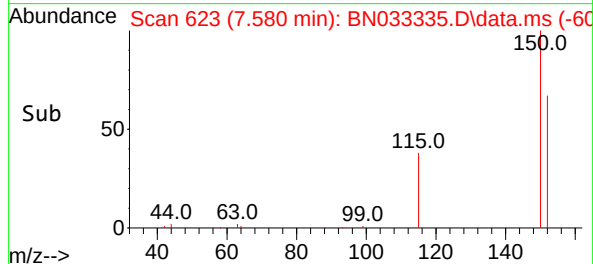


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.580 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

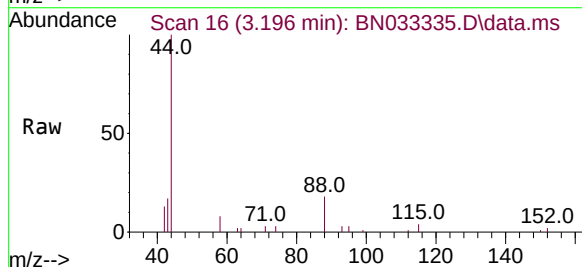
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



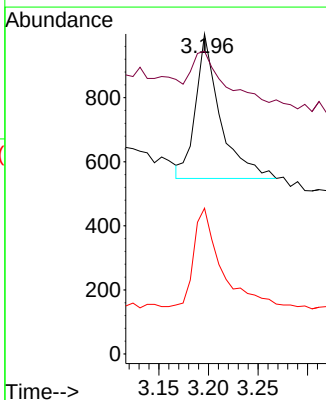
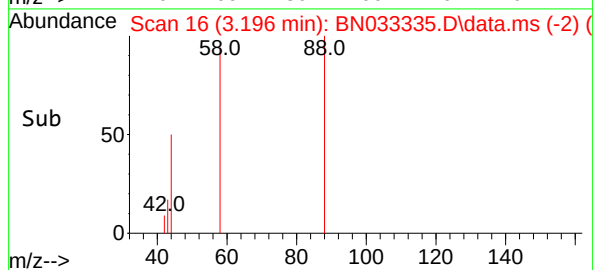
Tgt Ion:152 Resp: 3251
Ion Ratio Lower Upper
152 100
150 151.8 122.3 183.5
115 63.9 48.8 73.2

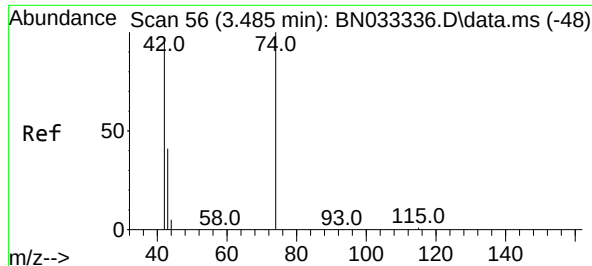


#2
1,4-Dioxane
Concen: 0.216 ng
RT: 3.196 min Scan# 16
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16



Tgt Ion: 88 Resp: 779
Ion Ratio Lower Upper
88 100
43 43.6 30.6 46.0
58 75.1 64.5 96.7

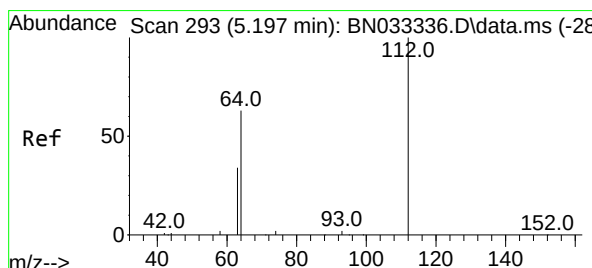
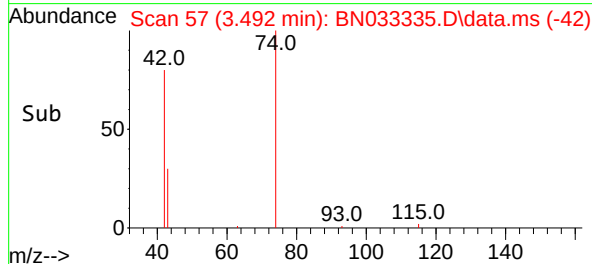
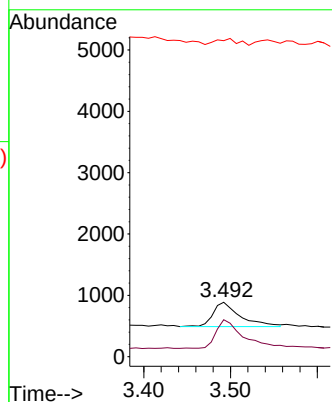
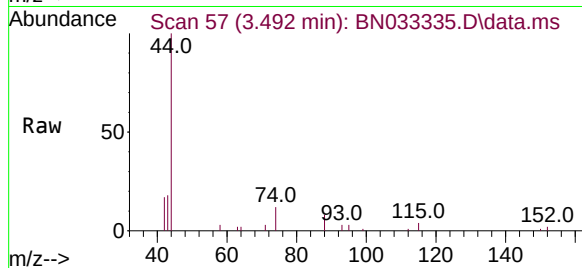




#3
n-Nitrosodimethylamine
Concen: 0.190 ng
RT: 3.492 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

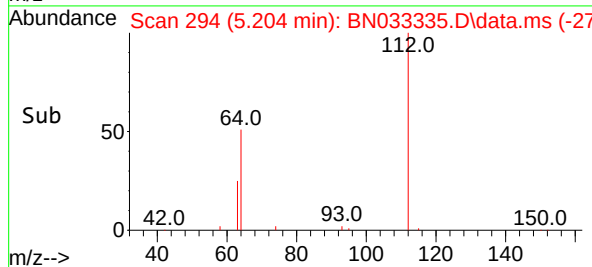
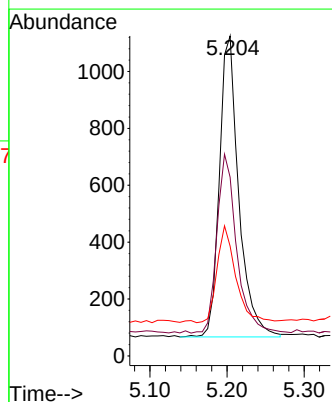
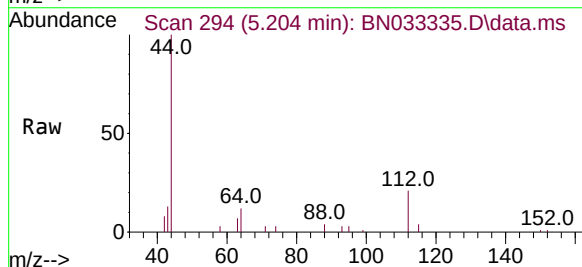
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

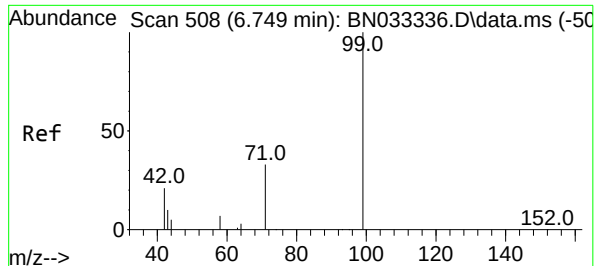
Tgt Ion: 42 Resp: 871
Ion Ratio Lower Upper
42 100
74 113.3 89.0 133.6
44 21.0 11.0 16.4#



#4
2-Fluorophenol
Concen: 0.216 ng
RT: 5.204 min Scan# 294
Delta R.T. 0.007 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

Tgt Ion: 112 Resp: 1846
Ion Ratio Lower Upper
112 100
64 60.7 48.1 72.1
63 31.1 25.4 38.2

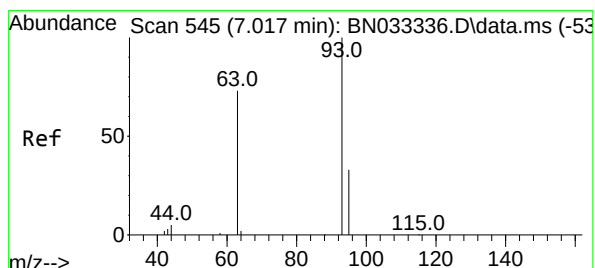
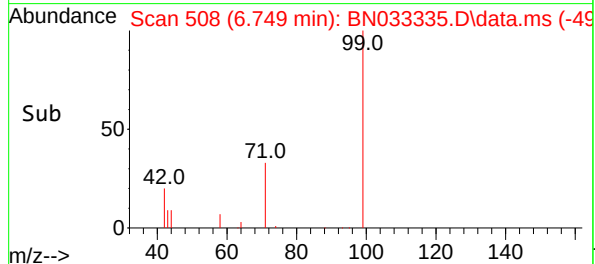
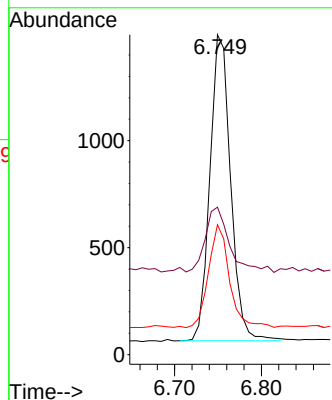
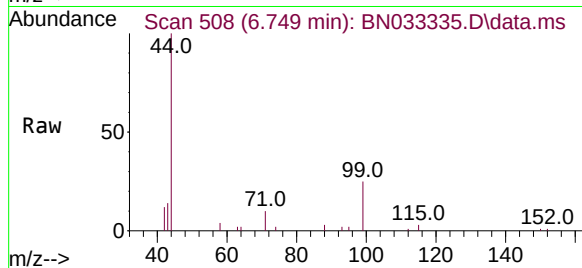




#5
Phenol-d6
Concen: 0.203 ng
RT: 6.749 min Scan# 508
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

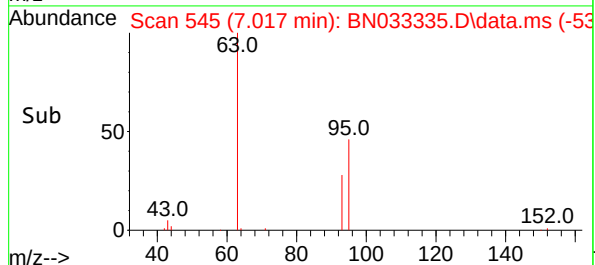
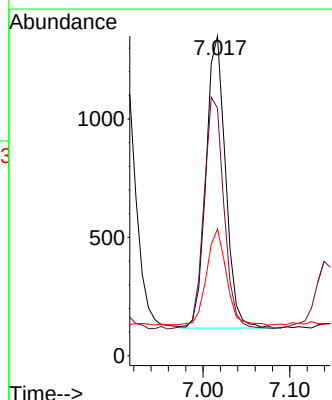
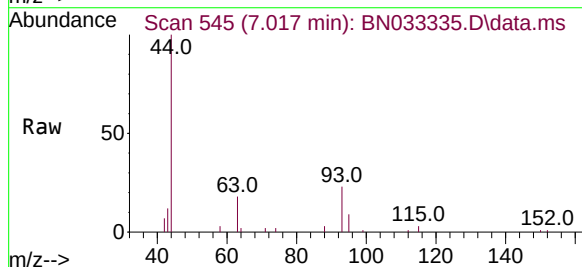
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

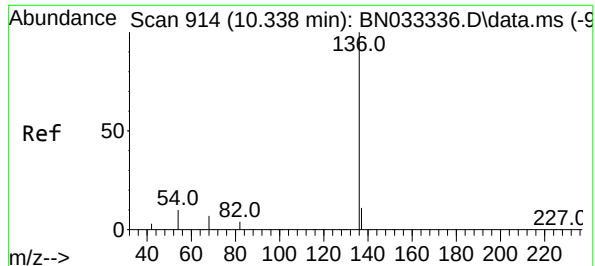
Tgt Ion: 99 Resp: 2374
Ion Ratio Lower Upper
99 100
42 25.6 18.5 27.7
71 33.6 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.017 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

Tgt Ion: 93 Resp: 1926
Ion Ratio Lower Upper
93 100
63 81.7 65.2 97.8
95 33.3 26.2 39.4

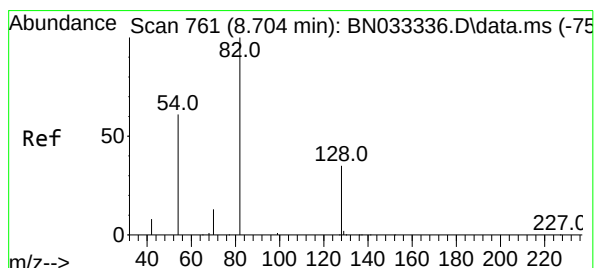
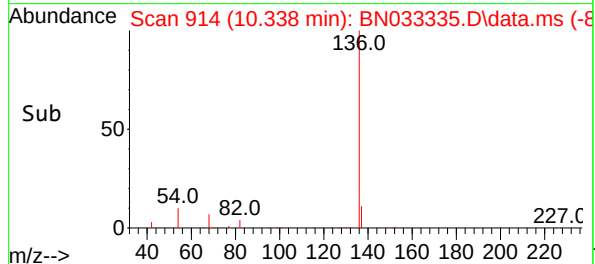
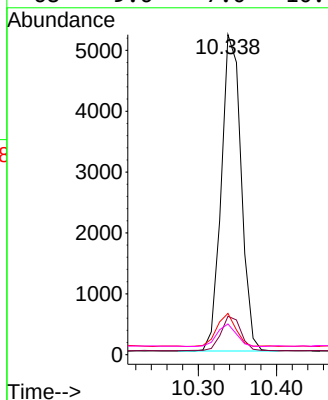
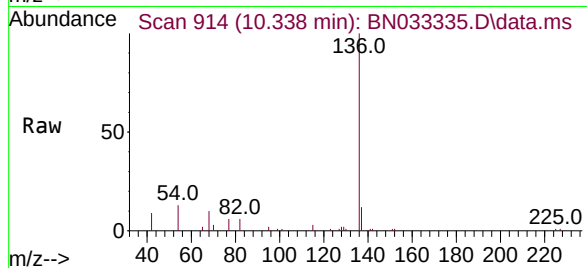




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.338 min Scan# 914
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

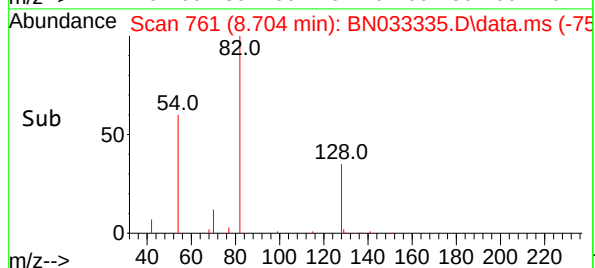
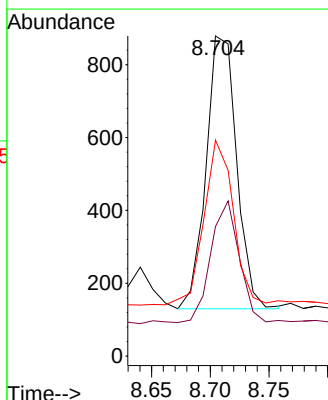
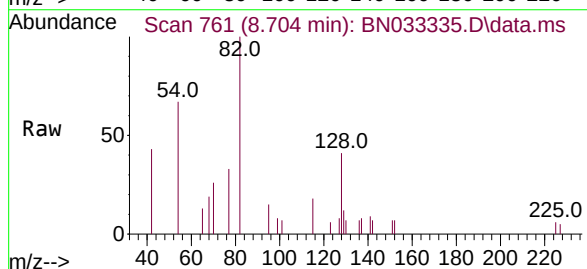
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

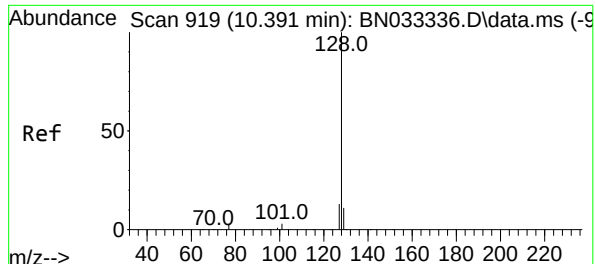
Tgt Ion:	136	Resp:	9138
Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.1	13.7
54	12.9	9.4	14.0
68	9.6	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.243 ng
RT: 8.704 min Scan# 761
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

Tgt Ion:	82	Resp:	1357
Ion	Ratio	Lower	Upper
82	100		
128	40.5	29.0	43.4
54	67.5	50.2	75.4





#9

Naphthalene

Concen: 0.193 ng

RT: 10.391 min Scan# 919

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

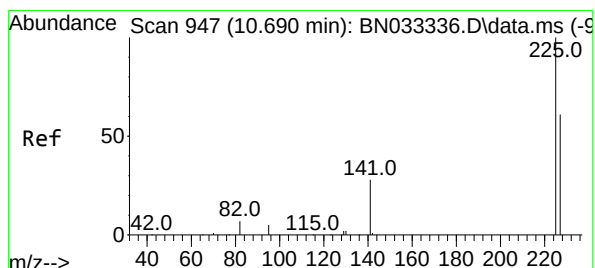
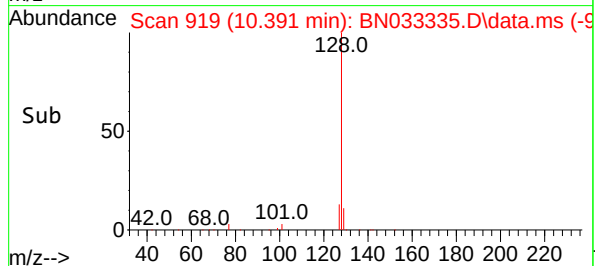
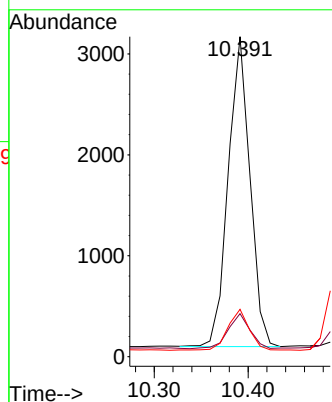
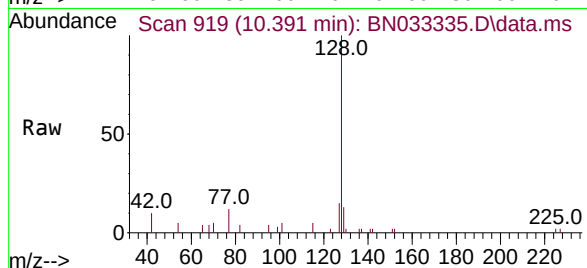
Tgt Ion:128 Resp: 4942

Ion Ratio Lower Upper

128 100

129 13.5 9.2 13.8

127 14.8 10.6 15.8



#10

Hexachlorobutadiene

Concen: 0.200 ng

RT: 10.690 min Scan# 947

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

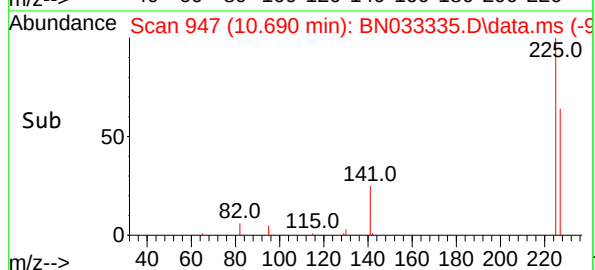
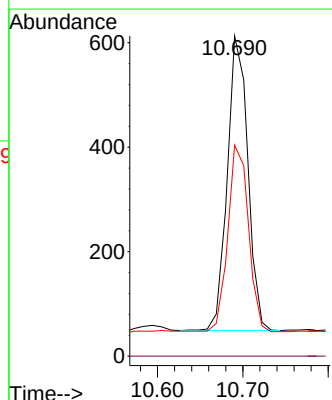
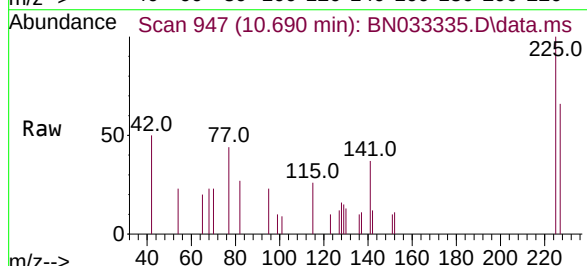
Tgt Ion:225 Resp: 941

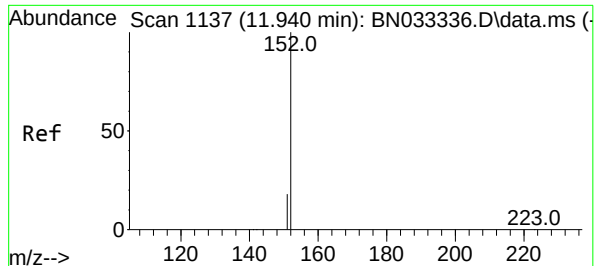
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.4 50.8 76.2

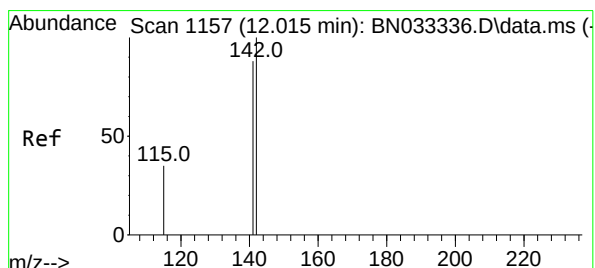
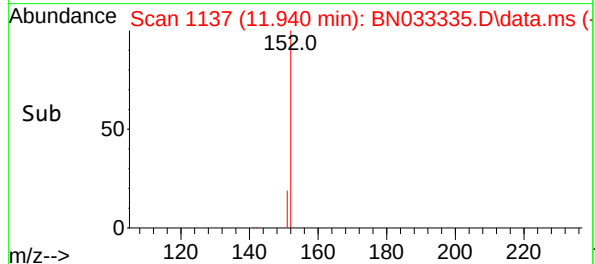
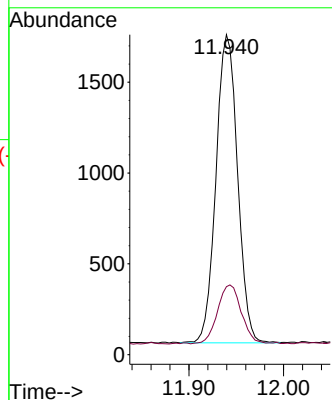
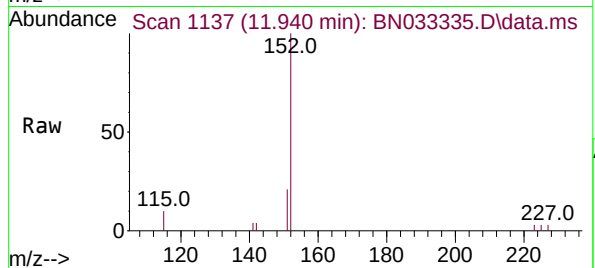




#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 11.940 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

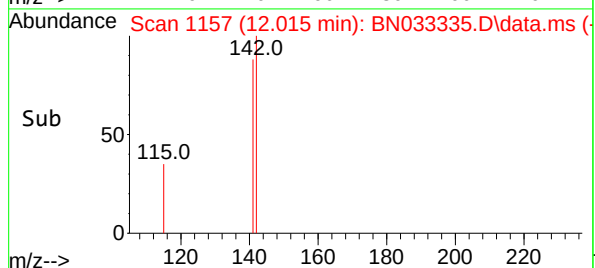
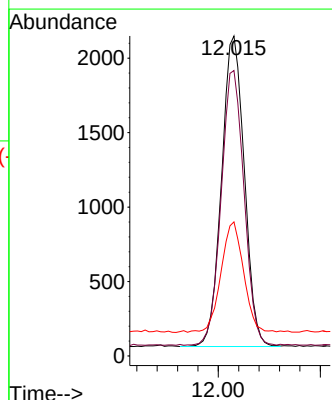
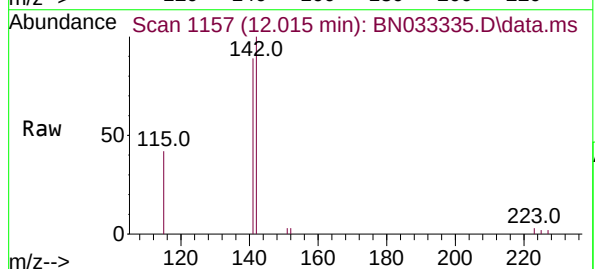
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

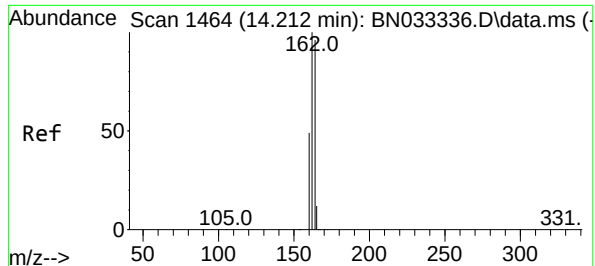
Tgt Ion:152 Resp: 2682
Ion Ratio Lower Upper
152 100
151 21.1 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.183 ng
RT: 12.015 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

Tgt Ion:142 Resp: 3227
Ion Ratio Lower Upper
142 100
141 89.2 70.2 105.4
115 41.9 29.3 43.9

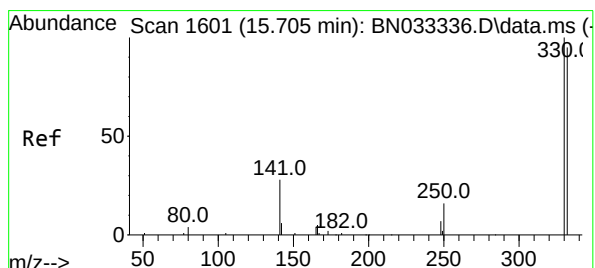
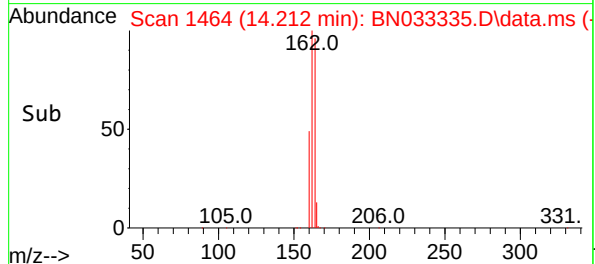
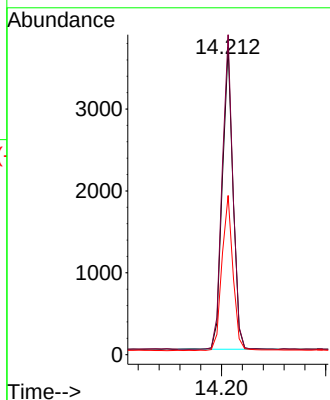
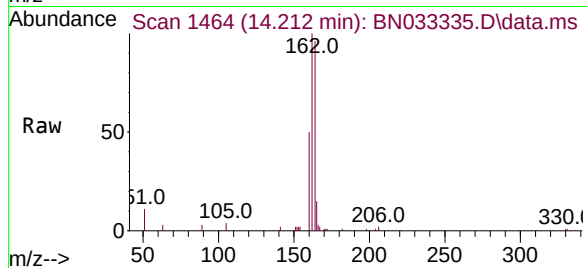




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.212 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

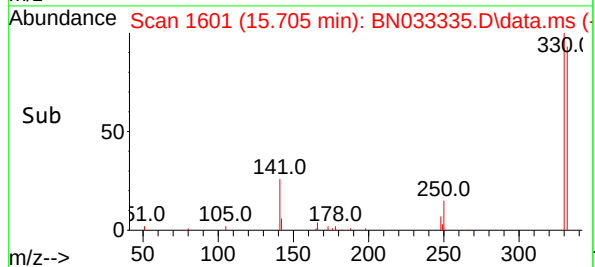
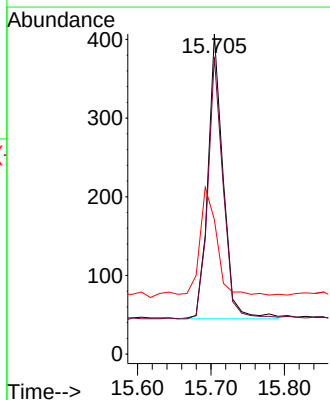
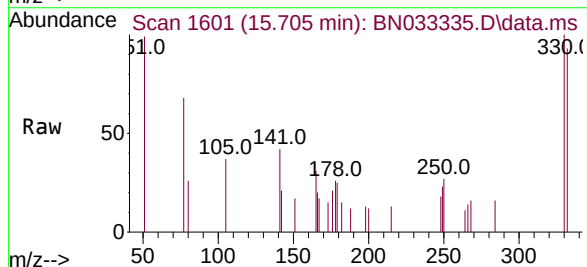
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

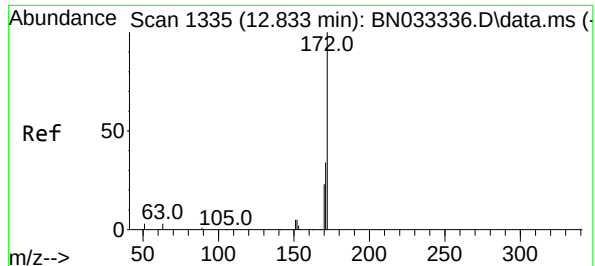
Tgt Ion:164 Resp: 5282
Ion Ratio Lower Upper
164 100
162 104.0 83.1 124.7
160 51.8 41.1 61.7



#14
2,4,6-Tribromophenol
Concen: 0.244 ng
RT: 15.705 min Scan# 1601
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

Tgt Ion:330 Resp: 521
Ion Ratio Lower Upper
330 100
332 92.1 77.1 115.7
141 41.7 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.212 ng

RT: 12.833 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

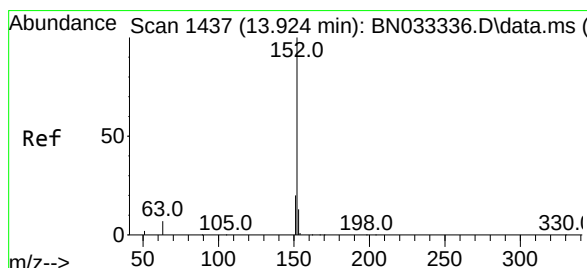
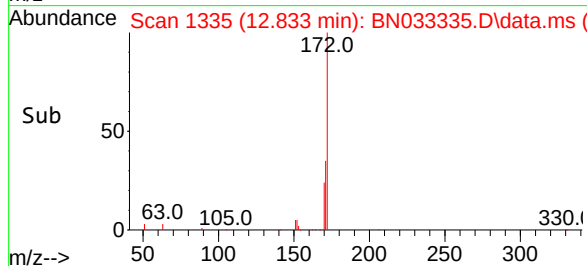
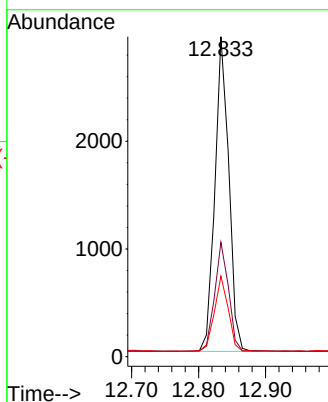
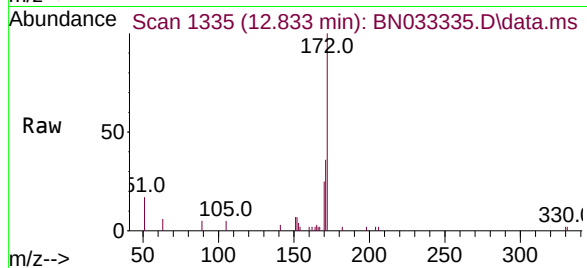
Tgt Ion:172 Resp: 4214

Ion Ratio Lower Upper

172 100

171 35.8 27.8 41.8

170 25.1 18.7 28.1



#16

Acenaphthylene

Concen: 0.175 ng

RT: 13.924 min Scan# 1437

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

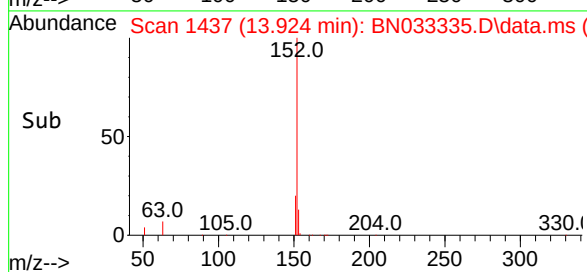
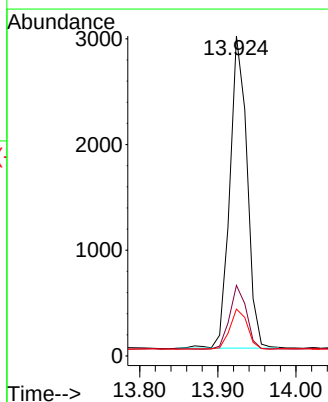
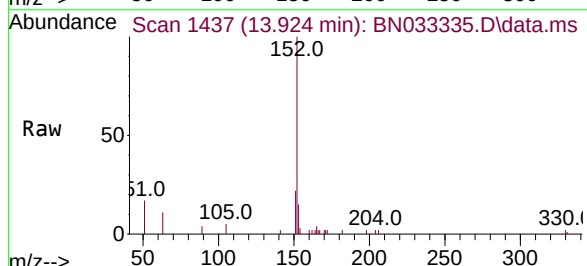
Tgt Ion:152 Resp: 4520

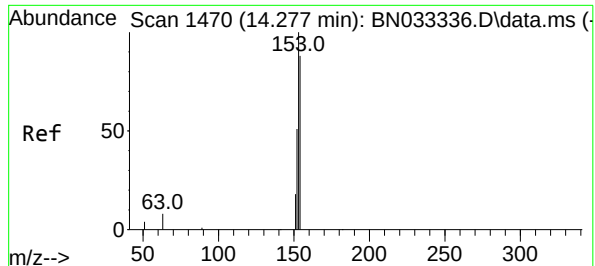
Ion Ratio Lower Upper

152 100

151 19.9 15.7 23.5

153 13.2 10.4 15.6





#17

Acenaphthene

Concen: 0.198 ng

RT: 14.277 min Scan# 1470

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

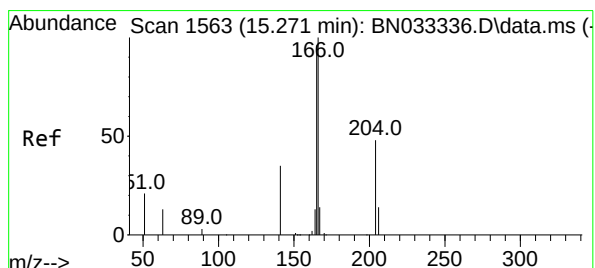
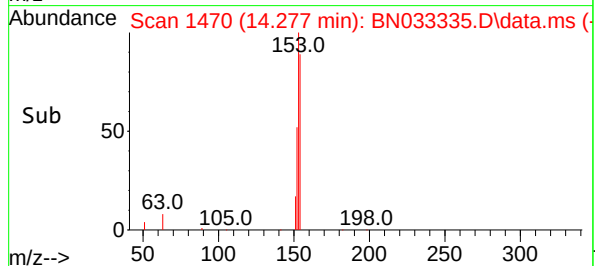
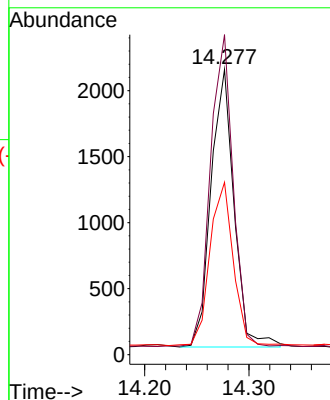
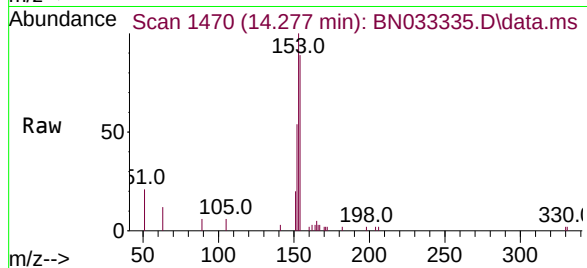
Tgt Ion:154 Resp: 3233

Ion Ratio Lower Upper

154 100

153 109.8 89.7 134.5

152 59.1 47.2 70.8



#18

Fluorene

Concen: 0.188 ng

RT: 15.271 min Scan# 1563

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

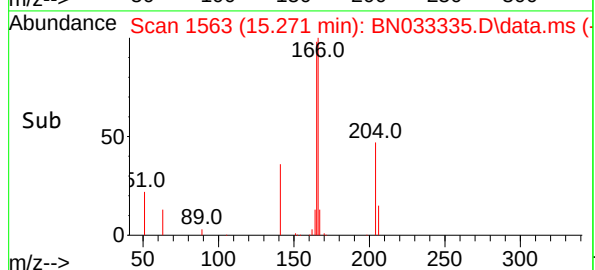
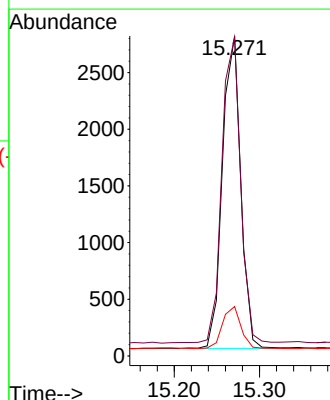
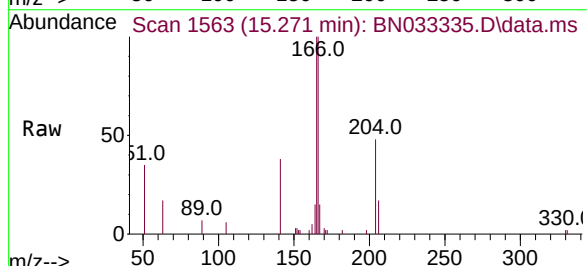
Tgt Ion:166 Resp: 4116

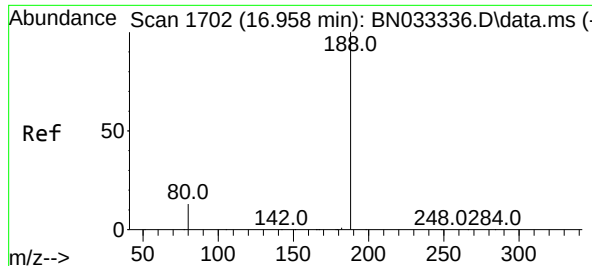
Ion Ratio Lower Upper

166 100

165 99.1 78.0 117.0

167 13.5 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.958 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

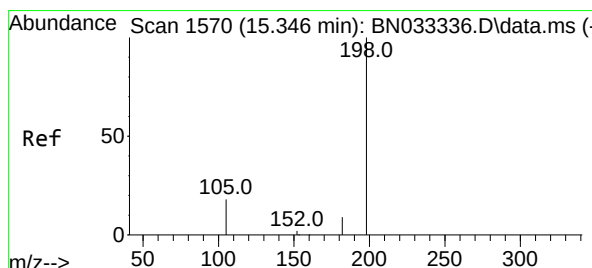
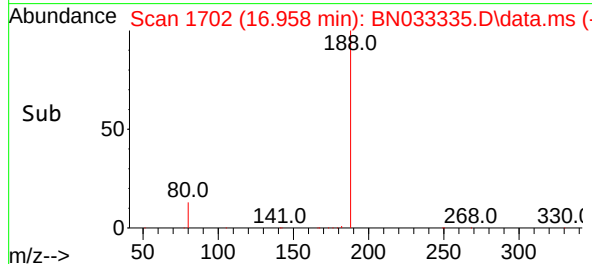
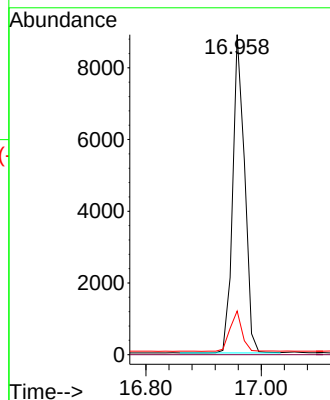
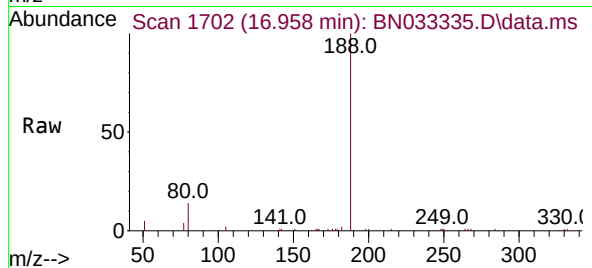
Tgt Ion:188 Resp: 12691

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.6 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.293 ng

RT: 15.346 min Scan# 1570

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

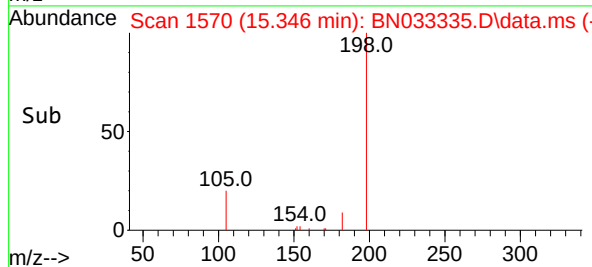
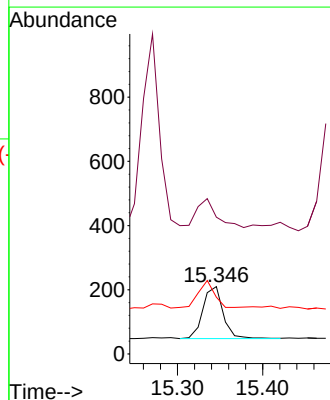
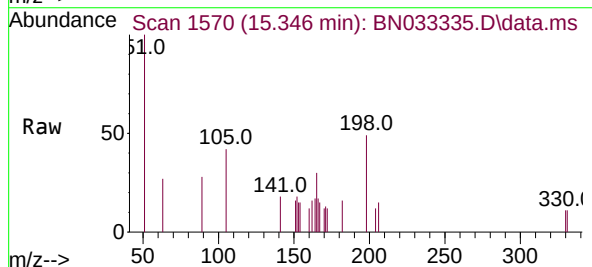
Tgt Ion:198 Resp: 266

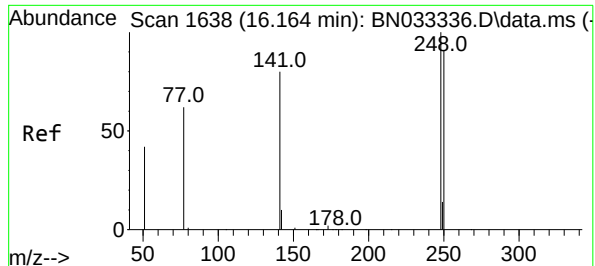
Ion Ratio Lower Upper

198 100

51 202.9 62.8 94.2#

105 84.3 34.1 51.1#

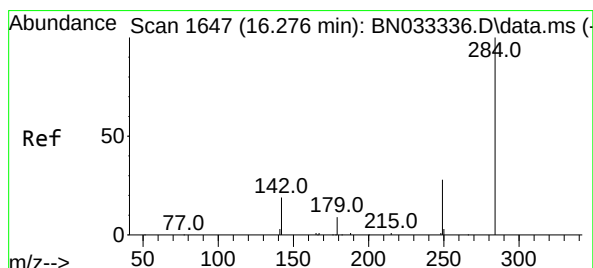
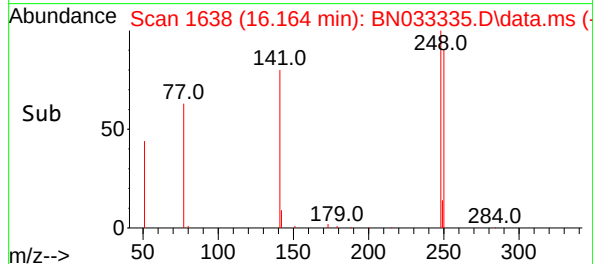
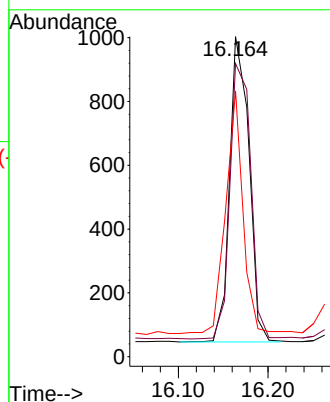
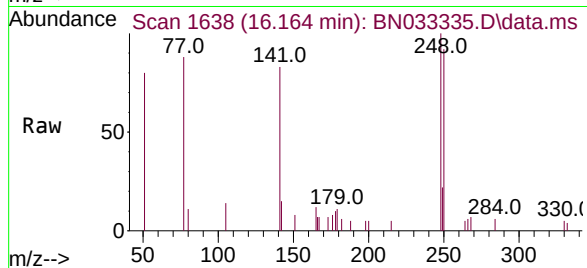




#21
4-Bromophenyl-phenylether
Concen: 0.186 ng
RT: 16.164 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

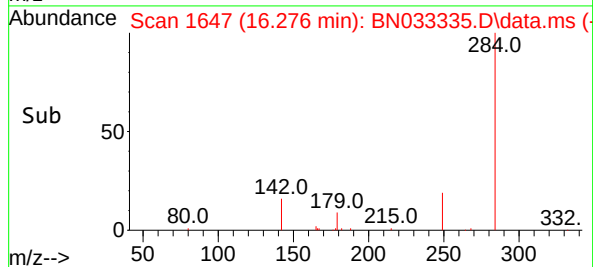
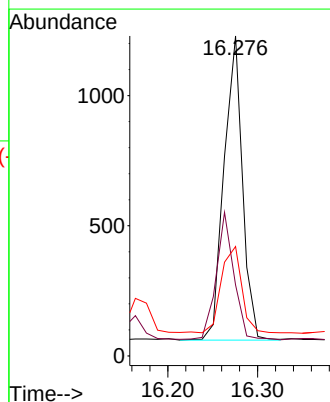
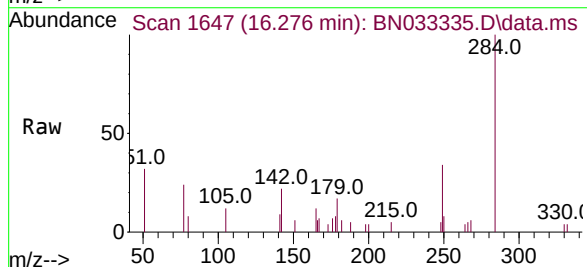
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

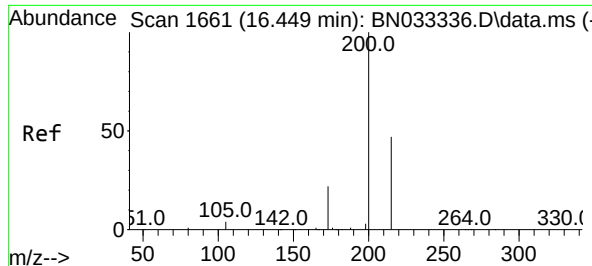
Tgt Ion:248 Resp: 1434
Ion Ratio Lower Upper
248 100
250 91.6 73.0 109.4
141 83.1 64.6 96.8



#22
Hexachlorobenzene
Concen: 0.206 ng
RT: 16.276 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

Tgt Ion:284 Resp: 1668
Ion Ratio Lower Upper
284 100
142 40.3 32.2 48.4
249 31.5 25.3 37.9





#23

Atrazine

Concen: 0.171 ng

RT: 16.449 min Scan# 1661

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

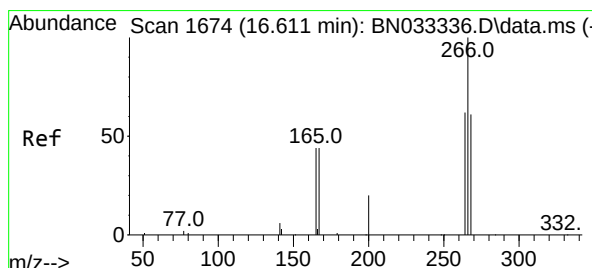
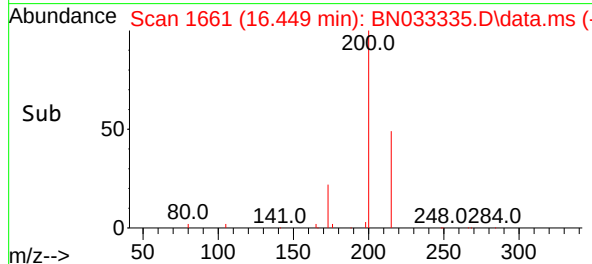
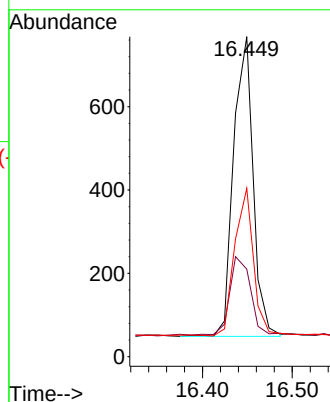
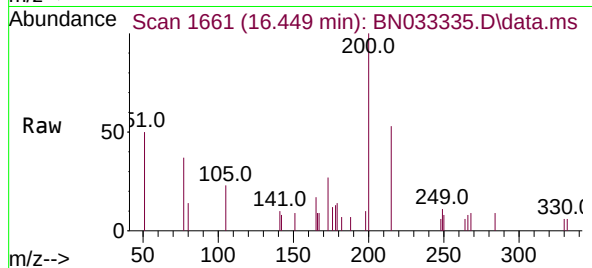
Tgt Ion:200 Resp: 1085

Ion Ratio Lower Upper

200 100

173 27.3 18.7 28.1

215 52.6 38.6 58.0



#24

Pentachlorophenol

Concen: 0.231 ng

RT: 16.611 min Scan# 1674

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

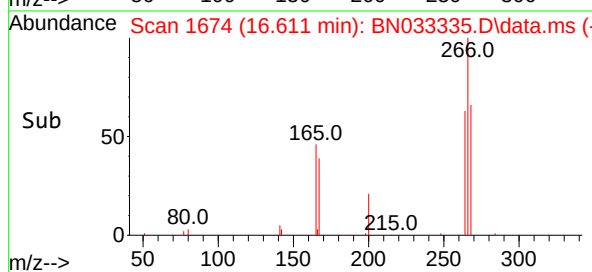
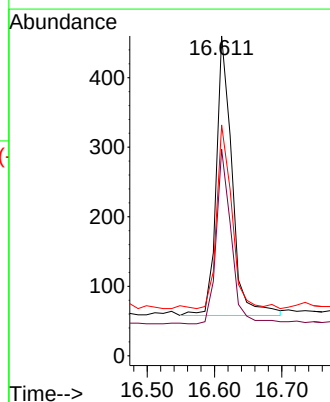
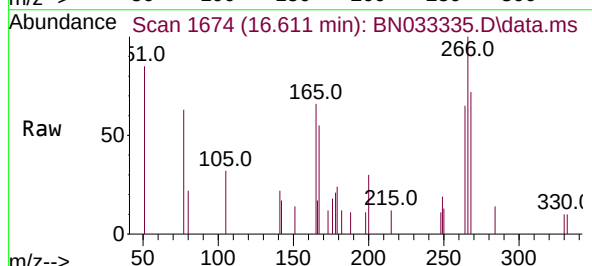
Tgt Ion:266 Resp: 654

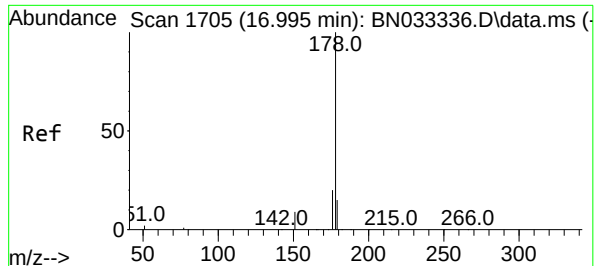
Ion Ratio Lower Upper

266 100

264 58.9 49.2 73.8

268 62.8 51.2 76.8

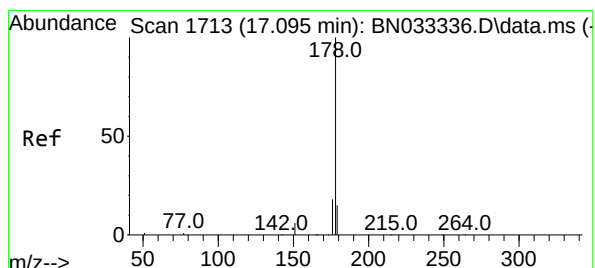
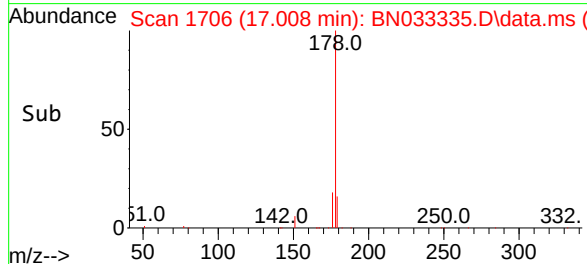
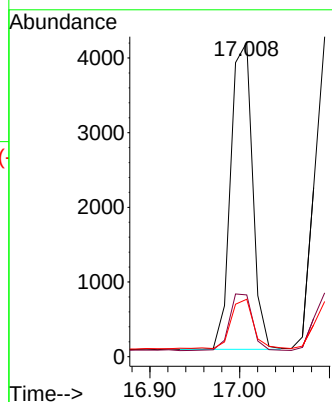
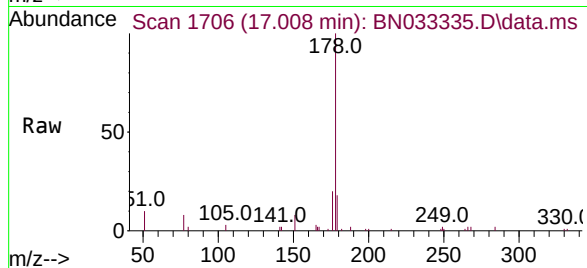




#25
Phenanthrene
Concen: 0.189 ng
RT: 17.008 min Scan# 1706
Delta R.T. 0.012 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

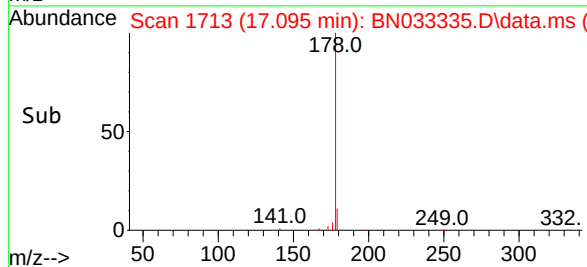
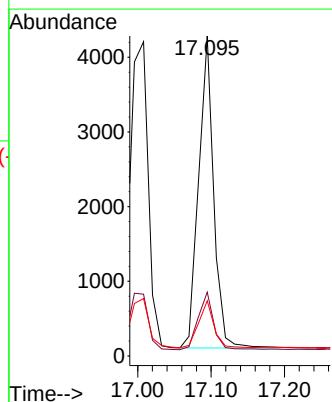
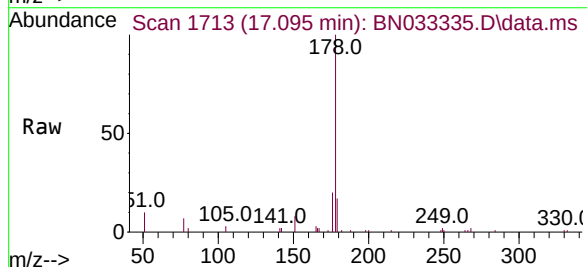
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

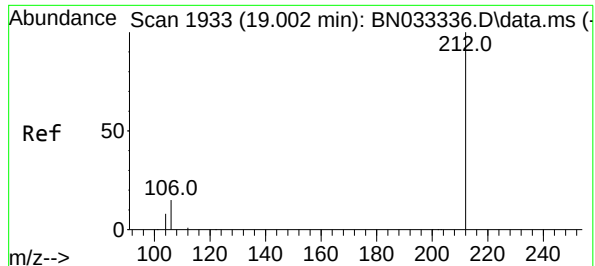
Tgt Ion:178 Resp: 6950
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 16.6 12.2 18.2



#26
Anthracene
Concen: 0.167 ng
RT: 17.095 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

Tgt Ion:178 Resp: 5950
Ion Ratio Lower Upper
178 100
176 19.1 14.7 22.1
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.186 ng

RT: 19.002 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

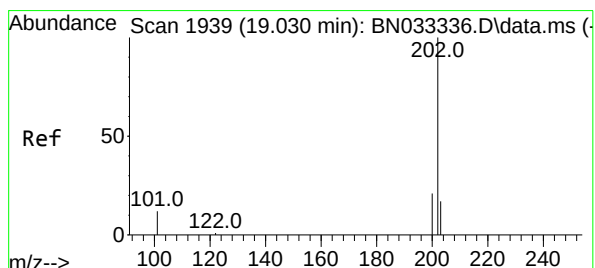
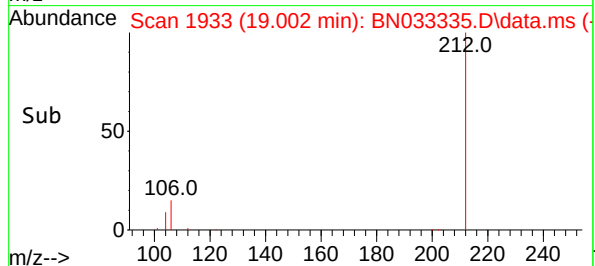
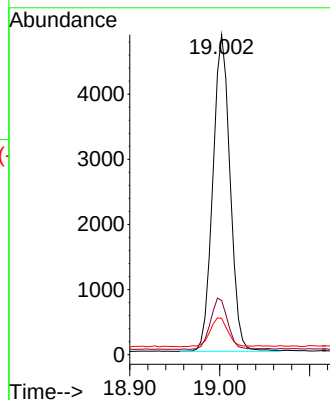
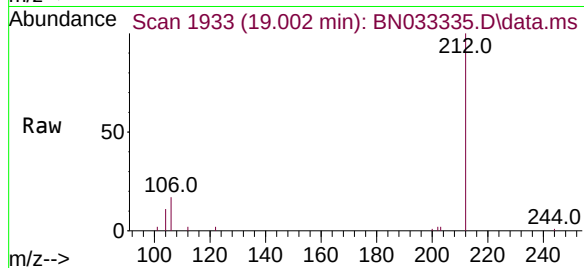
Tgt Ion:212 Resp: 6478

Ion Ratio Lower Upper

212 100

106 16.1 12.8 19.2

104 9.6 7.1 10.7



#28

Fluoranthene

Concen: 0.182 ng

RT: 19.030 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

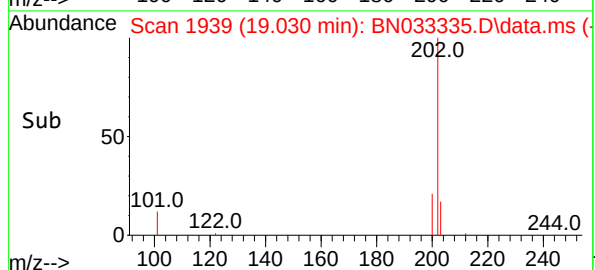
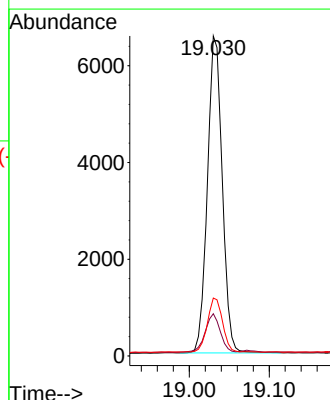
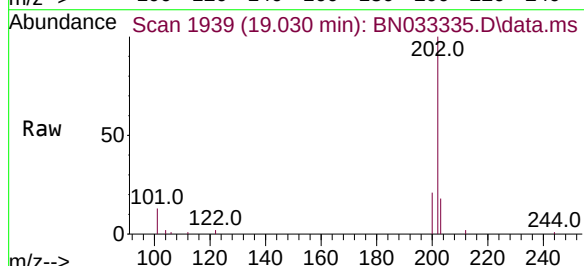
Tgt Ion:202 Resp: 8441

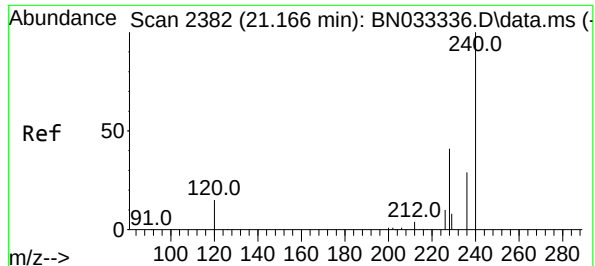
Ion Ratio Lower Upper

202 100

101 12.4 9.8 14.6

203 17.1 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.166 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

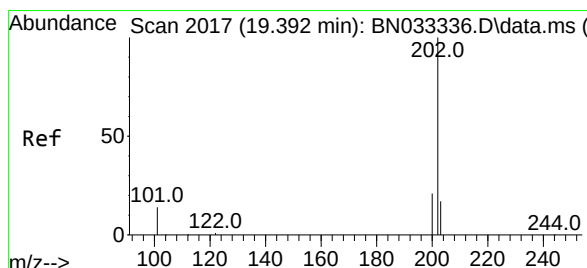
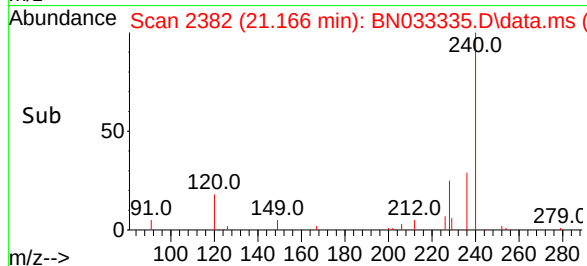
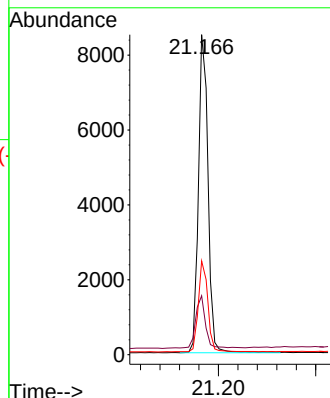
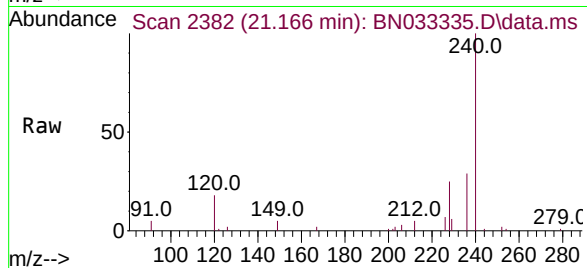
Tgt Ion:240 Resp: 11524

Ion Ratio Lower Upper

240 100

120 18.4 13.0 19.6

236 29.3 23.2 34.8



#30

Pyrene

Concen: 0.195 ng

RT: 19.392 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

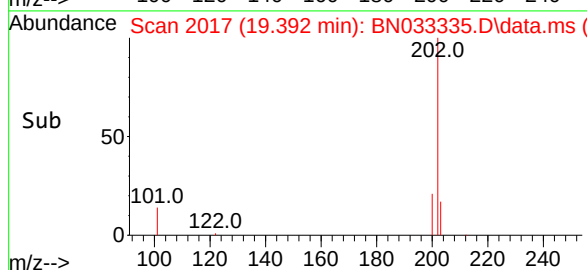
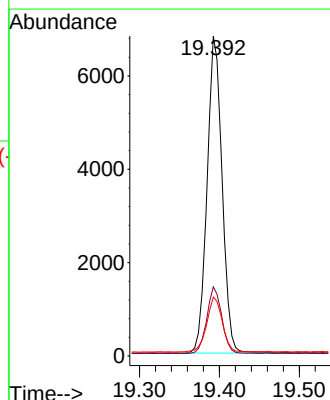
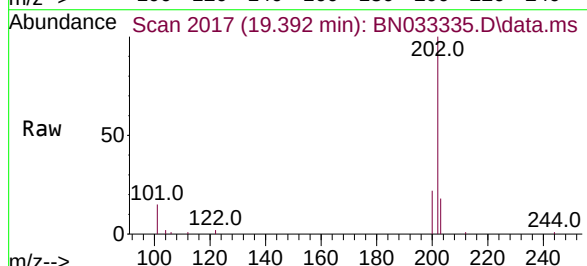
Tgt Ion:202 Resp: 8840

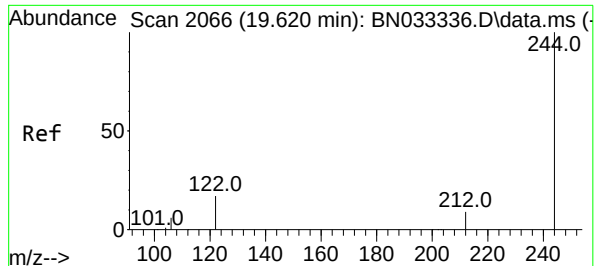
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 18.0 14.2 21.4

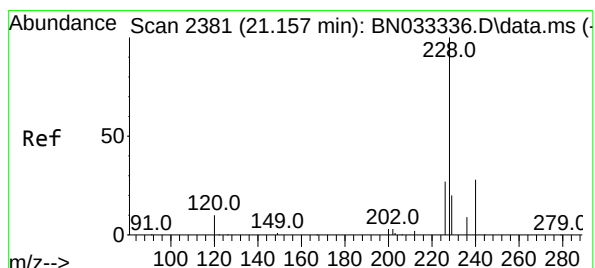
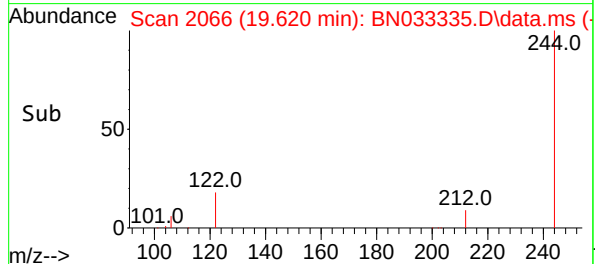
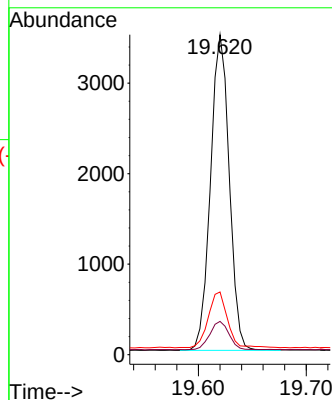
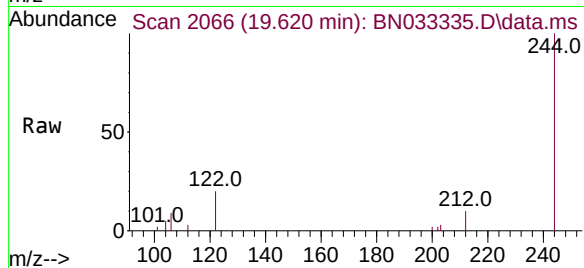




#31
Terphenyl-d14
Concen: 0.211 ng
RT: 19.620 min Scan# 2066
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

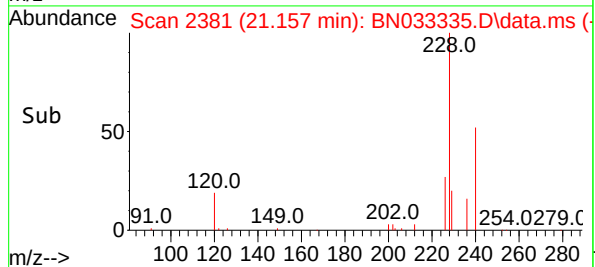
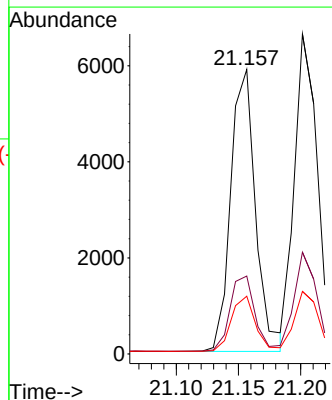
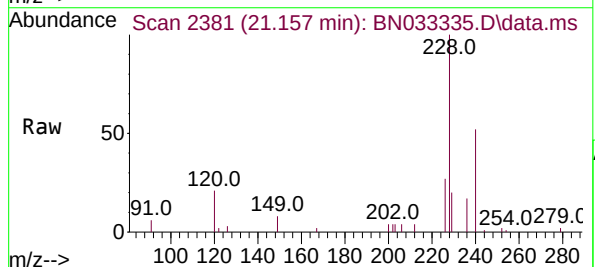
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

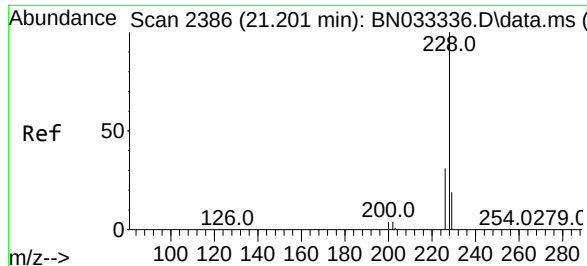
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.4	7.7	11.5
122	19.6	14.0	21.0



#32
Benzo(a)anthracene
Concen: 0.182 ng
RT: 21.157 min Scan# 2381
Delta R.T. 0.000 min
Lab File: BN033335.D
Acq: 10 Aug 2024 14:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.6	32.4
229	20.3	15.9	23.9





#33

Chrysene

Concen: 0.196 ng

RT: 21.201 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

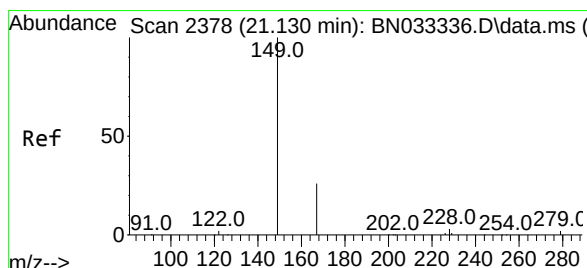
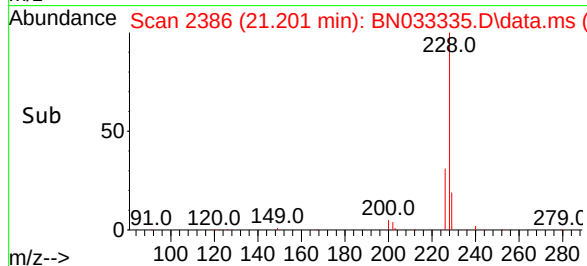
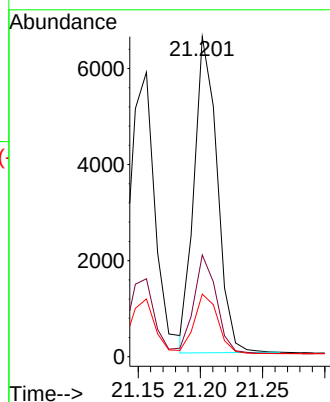
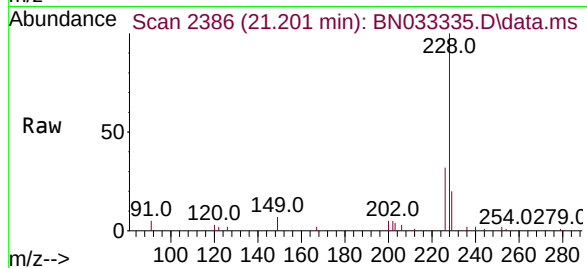
Tgt Ion:228 Resp: 8497

Ion Ratio Lower Upper

228 100

226 31.8 24.7 37.1

229 19.5 15.4 23.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.146 ng

RT: 21.130 min Scan# 2378

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

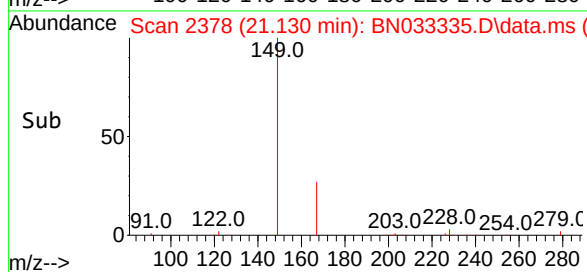
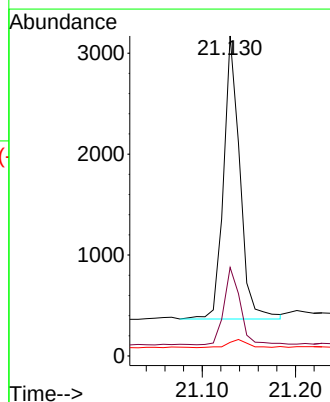
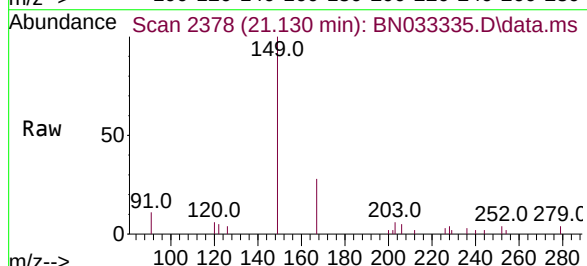
Tgt Ion:149 Resp: 3384

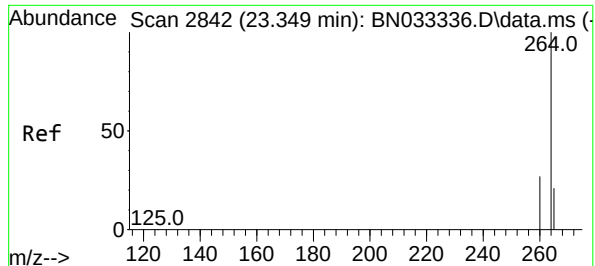
Ion Ratio Lower Upper

149 100

167 27.4 20.9 31.3

279 3.4 2.2 3.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.349 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

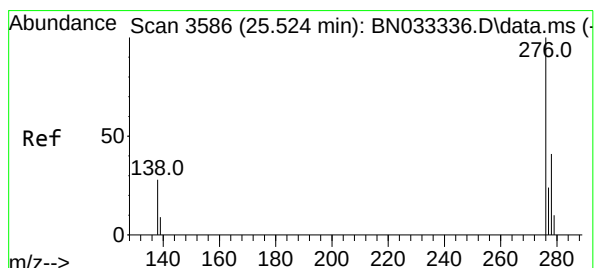
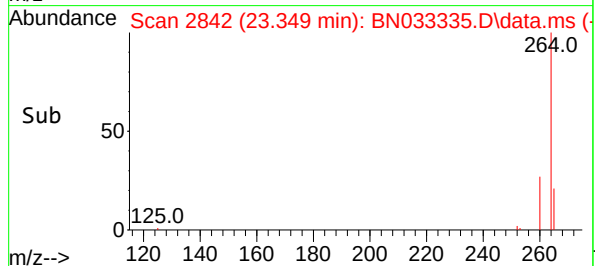
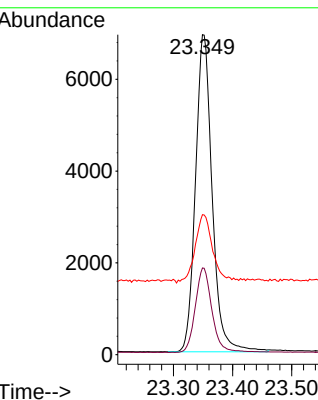
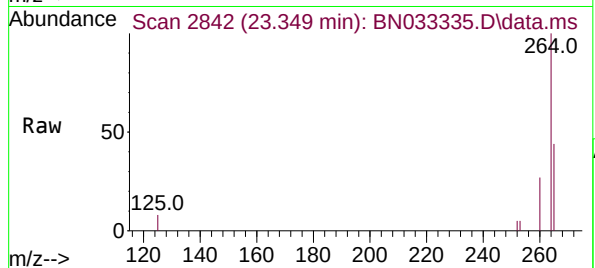
Tgt Ion:264 Resp: 13553

Ion Ratio Lower Upper

264 100

260 27.1 21.6 32.4

265 43.8 29.3 43.9



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.185 ng

RT: 25.524 min Scan# 3586

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

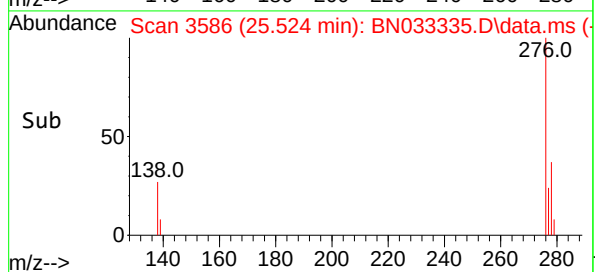
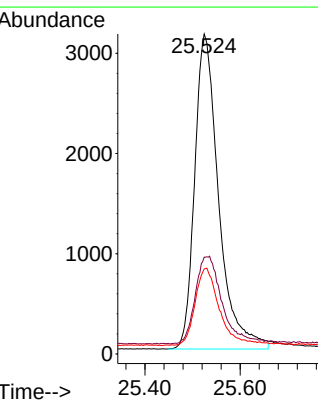
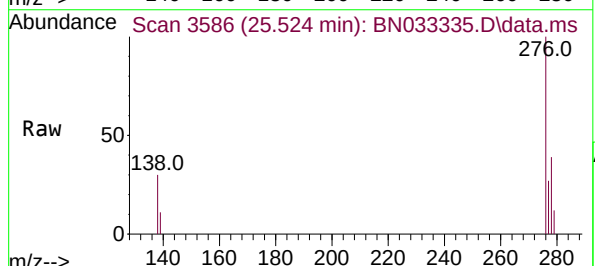
Tgt Ion:276 Resp: 10976

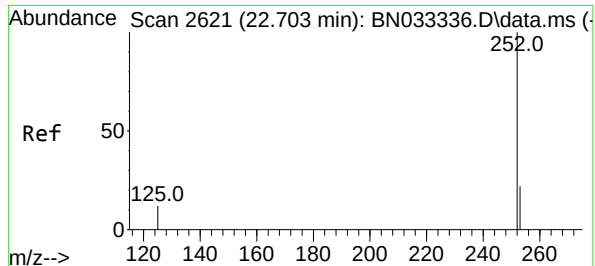
Ion Ratio Lower Upper

276 100

138 31.0 24.9 37.3

277 24.4 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.188 ng

RT: 22.703 min Scan# 2621

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

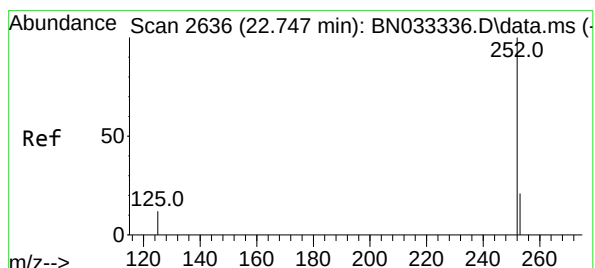
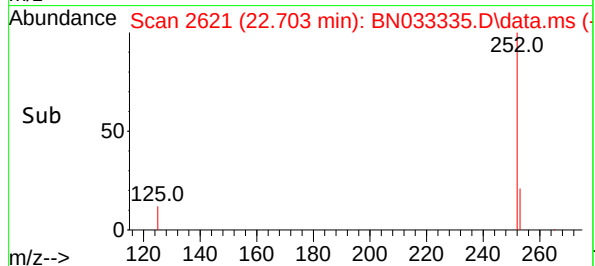
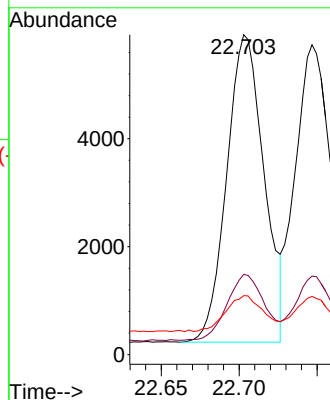
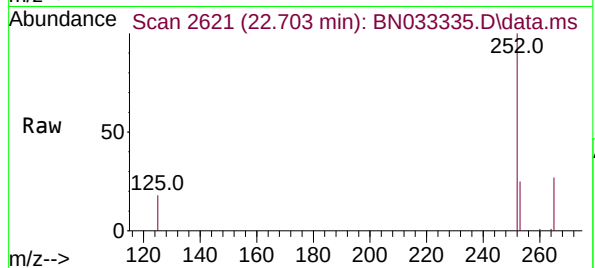
Tgt Ion:252 Resp: 9460

Ion Ratio Lower Upper

252 100

253 25.1 18.2 27.2

125 18.5 11.3 16.9#



#38

Benzo(k)fluoranthene

Concen: 0.191 ng

RT: 22.747 min Scan# 2636

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

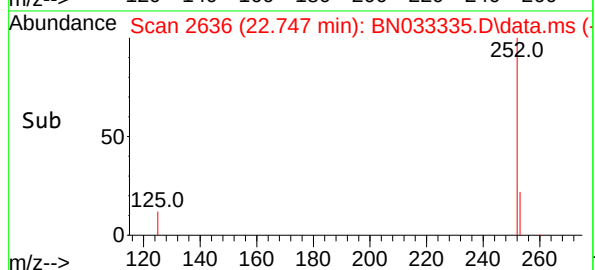
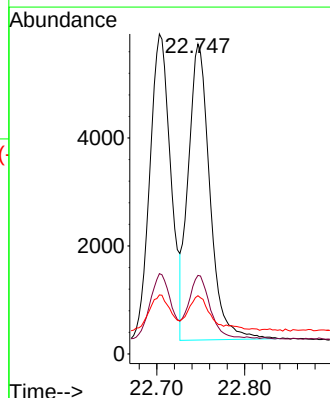
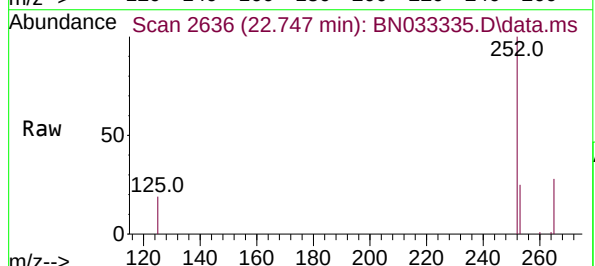
Tgt Ion:252 Resp: 9352

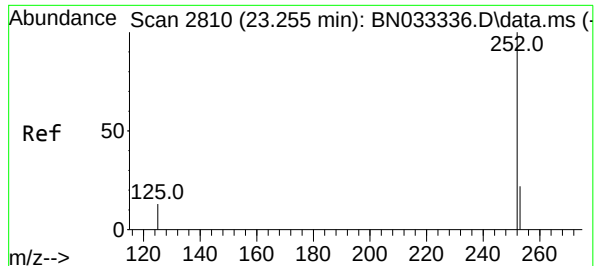
Ion Ratio Lower Upper

252 100

253 25.3 17.9 26.9

125 18.8 11.3 16.9#





#39

Benzo(a)pyrene

Concen: 0.175 ng

RT: 23.255 min Scan# 2810

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

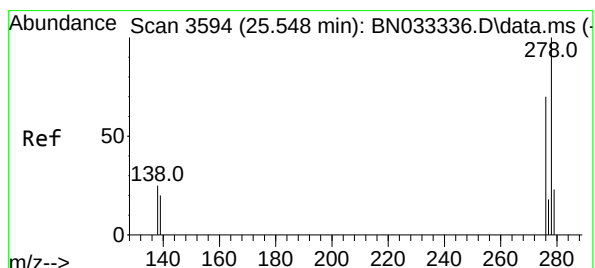
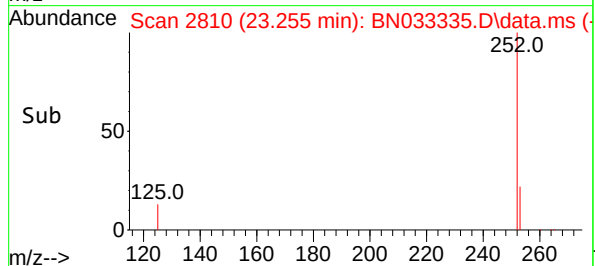
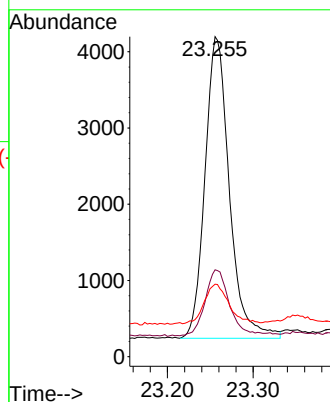
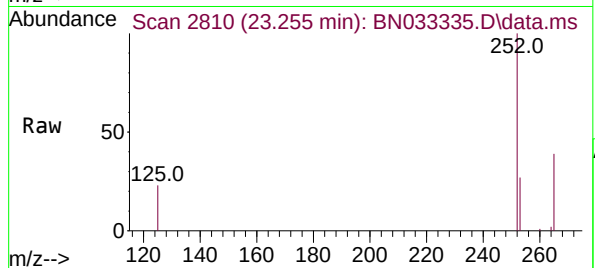
Tgt Ion:252 Resp: 7833

Ion Ratio Lower Upper

252 100

253 27.2 18.6 28.0

125 22.7 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.183 ng

RT: 25.548 min Scan# 3594

Delta R.T. 0.000 min

Lab File: BN033335.D

Acq: 10 Aug 2024 14:16

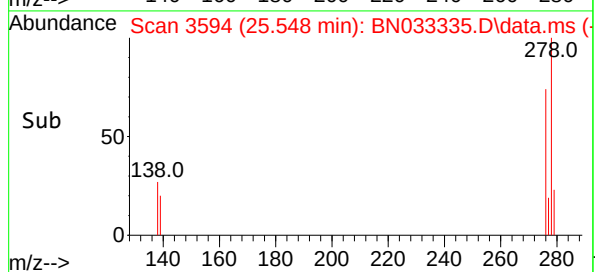
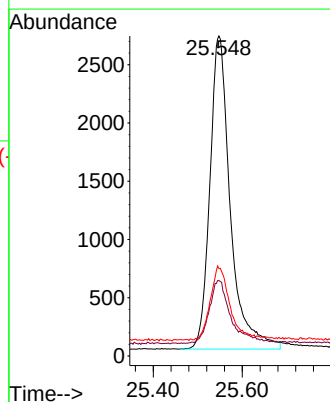
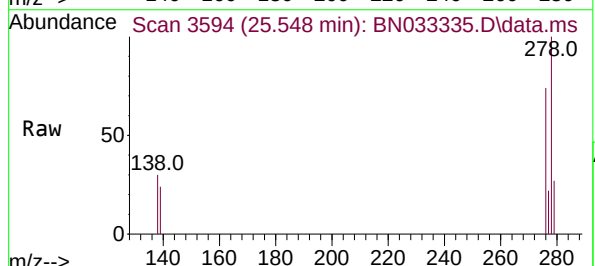
Tgt Ion:278 Resp: 8570

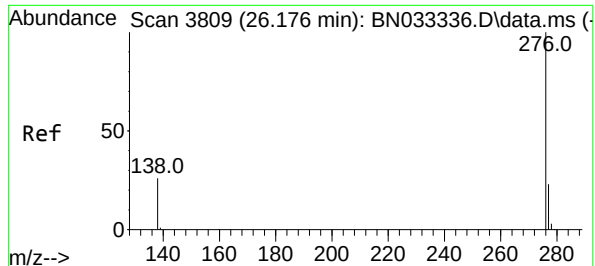
Ion Ratio Lower Upper

278 100

139 23.6 17.0 25.6

279 27.3 20.0 30.0





#41

Benzo(g,h,i)perylene

Concen: 0.198 ng

RT: 26.179 min Scan# 3809

Delta R.T. 0.003 min

Lab File: BN033335.D

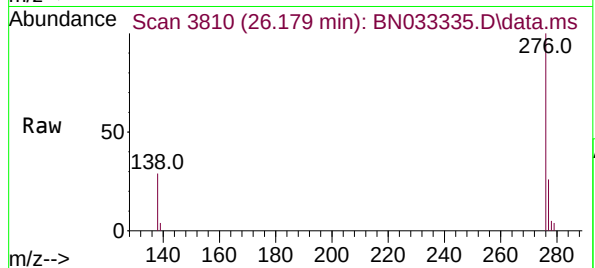
Acq: 10 Aug 2024 14:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



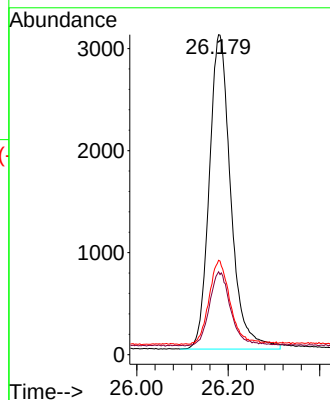
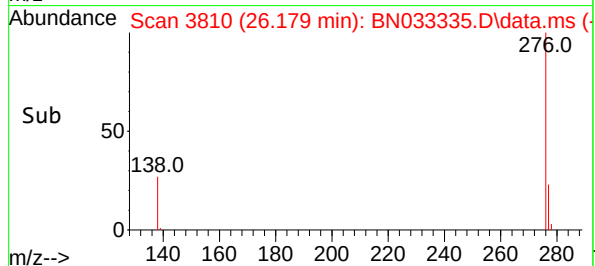
Tgt Ion:276 Resp: 10072

Ion Ratio Lower Upper

276 100

277 25.9 19.4 29.2

138 29.5 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
 Data File : BN033336.D
 Acq On : 10 Aug 2024 14:53
 Operator : MA/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Aug 12 01:01:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 12 00:59:25 2024
 Response via : Initial Calibration

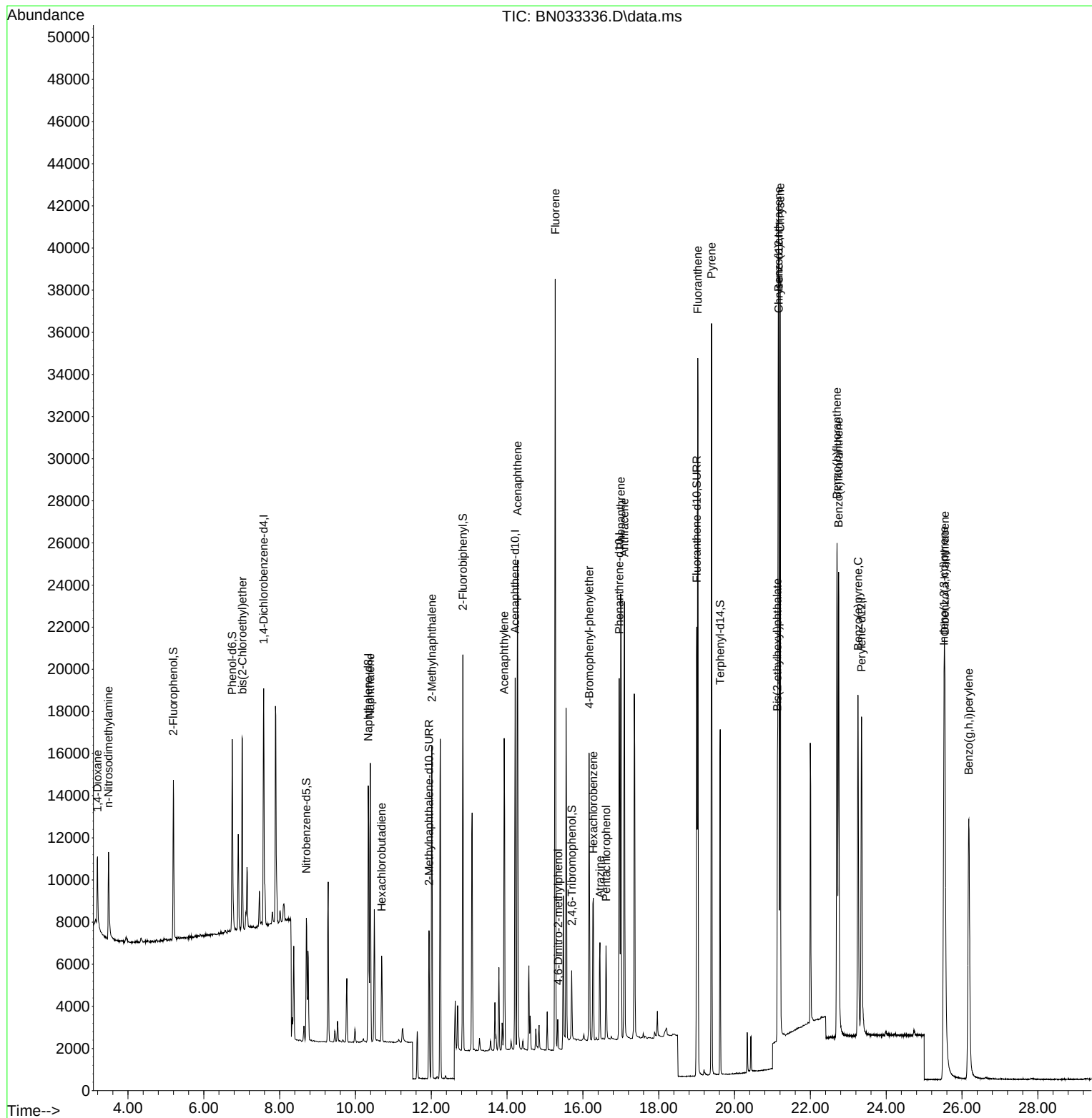
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.580	152	5313	0.400	ng	0.00
7) Naphthalene-d8	10.338	136	15448	0.400	ng	0.00
13) Acenaphthene-d10	14.212	164	9171	0.400	ng	0.00
19) Phenanthrene-d10	16.958	188	22066	0.400	ng	0.00
29) Chrysene-d12	21.166	240	19273	0.400	ng	0.00
35) Perylene-d12	23.349	264	19885	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.197	112	5977	0.427	ng	0.00
5) Phenol-d6	6.749	99	8038	0.420	ng	0.00
8) Nitrobenzene-d5	8.704	82	4546	0.482	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	9150	0.380	ng	0.00
14) 2,4,6-Tribromophenol	15.705	330	1755	0.473	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	14966	0.433	ng	0.00
27) Fluoranthene-d10	19.002	212	22394	0.369	ng	0.00
31) Terphenyl-d14	19.620	244	14573	0.438	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.196	88	2265	0.385	ng	100
3) n-Nitrosodimethylamine	3.485	42	2971	0.397	ng	100
6) bis(2-Chloroethyl)ether	7.017	93	6308	0.386	ng	100
9) Naphthalene	10.391	128	16562	0.382	ng	100
10) Hexachlorobutadiene	10.690	225	3219	0.404	ng	# 100
12) 2-Methylnaphthalene	12.015	142	11044	0.369	ng	100
16) Acenaphthylene	13.924	152	15945	0.356	ng	100
17) Acenaphthene	14.277	154	11171	0.393	ng	100
18) Fluorene	15.271	166	14815	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.346	198	921	0.584	ng	100
21) 4-Bromophenyl-phenylether	16.164	248	5026	0.375	ng	100
22) Hexachlorobenzene	16.276	284	5784	0.411	ng	100
23) Atrazine	16.449	200	3811	0.344	ng	100
24) Pentachlorophenol	16.611	266	2039	0.414	ng	100
25) Phenanthrene	16.995	178	24483	0.383	ng	100
26) Anthracene	17.095	178	21138	0.340	ng	100
28) Fluoranthene	19.030	202	29596	0.368	ng	100
30) Pyrene	19.392	202	30305	0.400	ng	100
32) Benzo(a)anthracene	21.157	228	26737	0.357	ng	100
33) Chrysene	21.201	228	28851	0.398	ng	100
34) Bis(2-ethylhexyl)phtha...	21.130	149	11323	0.292	ng	100
36) Indeno(1,2,3-cd)pyrene	25.524	276	29809	0.343	ng	100
37) Benzo(b)fluoranthene	22.703	252	28235	0.382	ng	100
38) Benzo(k)fluoranthene	22.747	252	29564	0.412	ng	100
39) Benzo(a)pyrene	23.255	252	22964	0.350	ng	100
40) Dibenzo(a,h)anthracene	25.548	278	23448	0.341	ng	100
41) Benzo(g,h,i)perylene	26.176	276	26432	0.354	ng	100

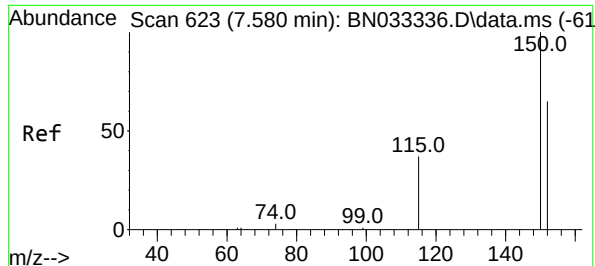
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033336.D
Acq On : 10 Aug 2024 14:53
Operator : MA/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Aug 12 01:01:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 00:59:25 2024
Response via : Initial Calibration

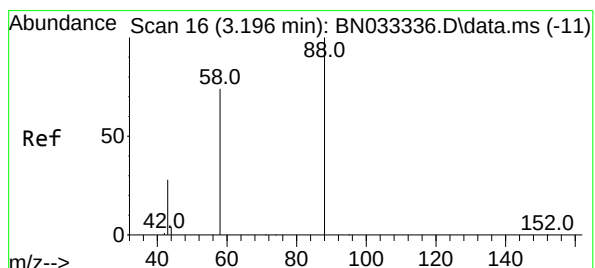
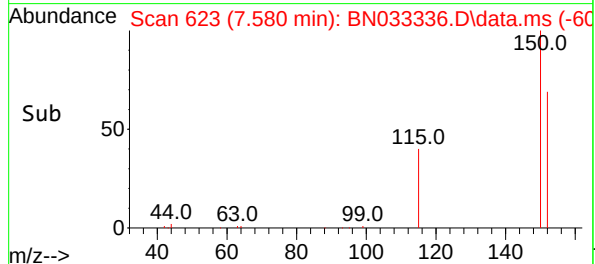
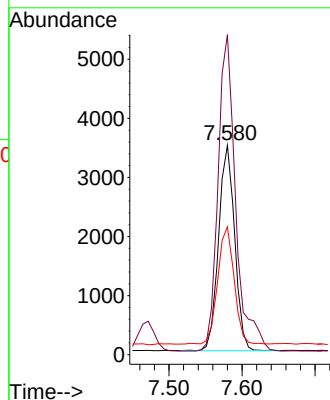
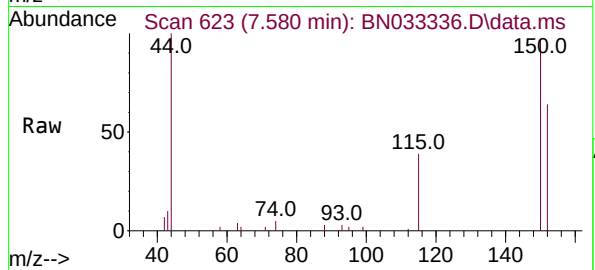




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.580 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

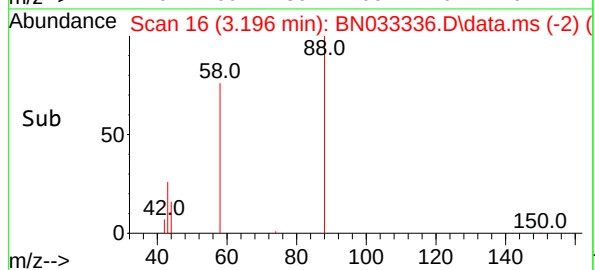
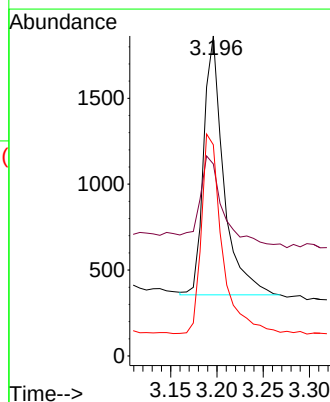
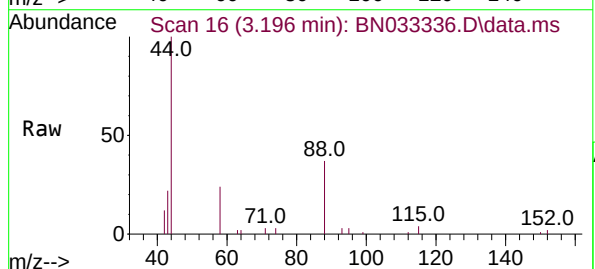
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

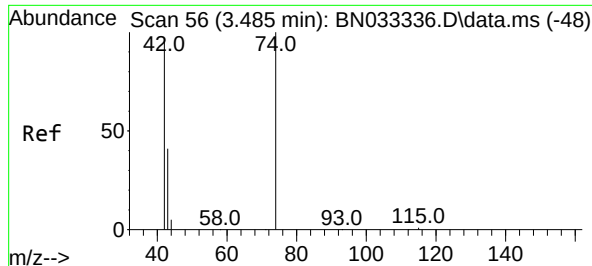
Tgt Ion:152 Resp: 5313
Ion Ratio Lower Upper
152 100
150 152.9 122.3 183.5
115 61.0 48.8 73.2



#2
1,4-Dioxane
Concen: 0.385 ng
RT: 3.196 min Scan# 16
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

Tgt Ion: 88 Resp: 2265
Ion Ratio Lower Upper
88 100
43 38.3 30.6 46.0
58 80.6 64.5 96.7

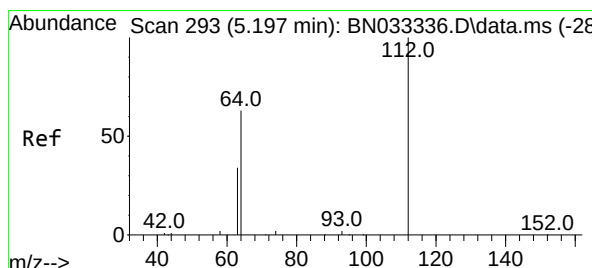
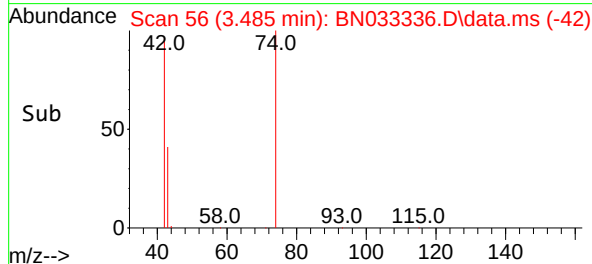
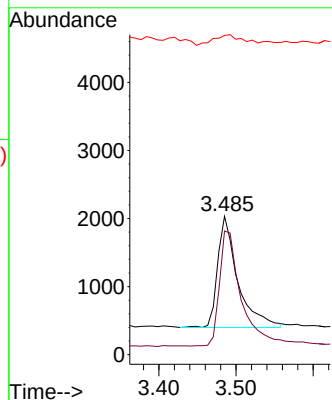
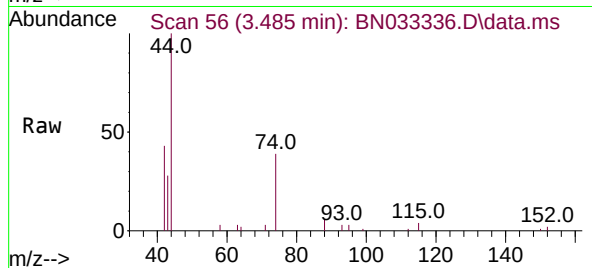




#3
n-Nitrosodimethylamine
Concen: 0.397 ng
RT: 3.485 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

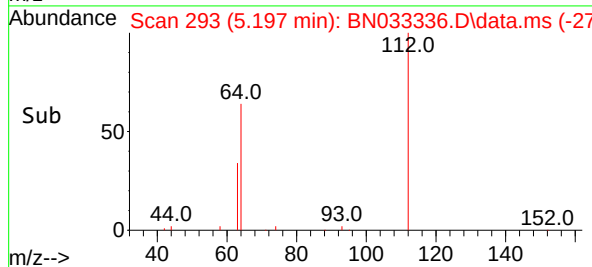
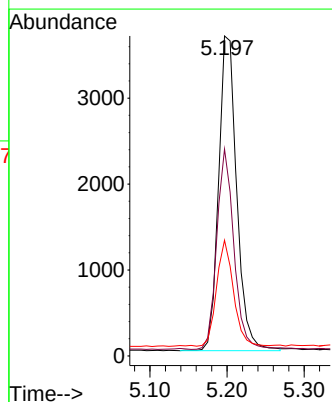
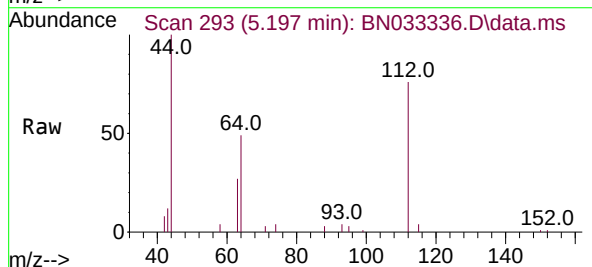
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

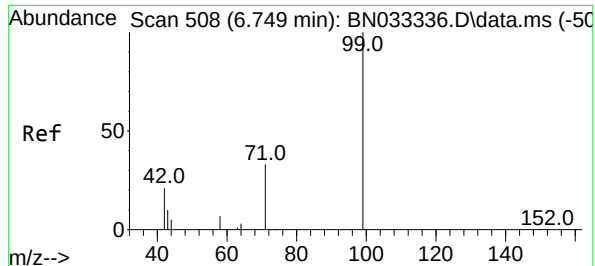
Tgt Ion: 42 Resp: 2971
Ion Ratio Lower Upper
42 100
74 111.0 89.0 133.6
44 13.8 11.0 16.4



#4
2-Fluorophenol
Concen: 0.427 ng
RT: 5.197 min Scan# 293
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

Tgt Ion: 112 Resp: 5977
Ion Ratio Lower Upper
112 100
64 60.2 48.1 72.1
63 31.8 25.4 38.2

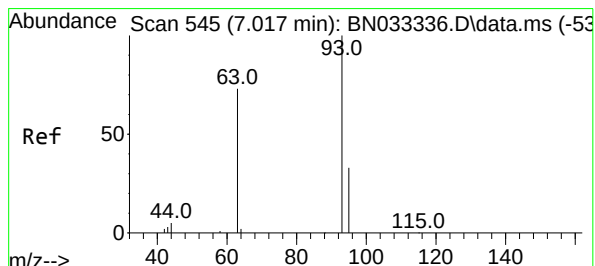
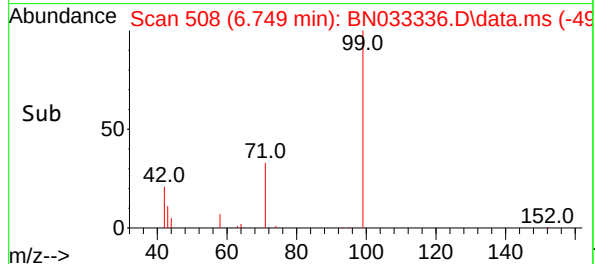
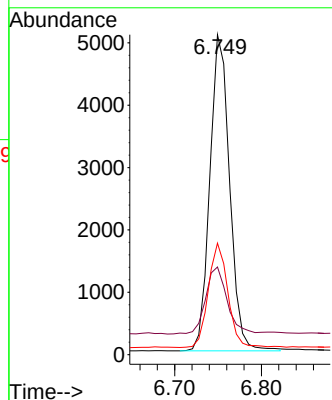
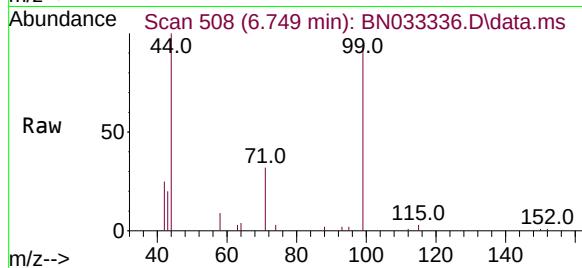




#5
Phenol-d6
Concen: 0.420 ng
RT: 6.749 min Scan# 508
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

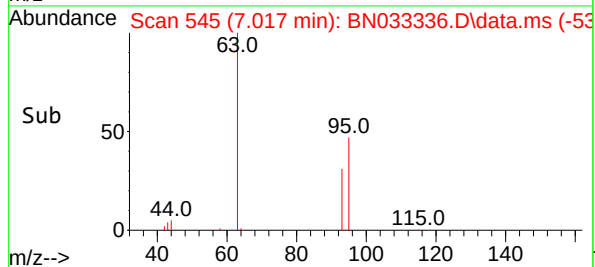
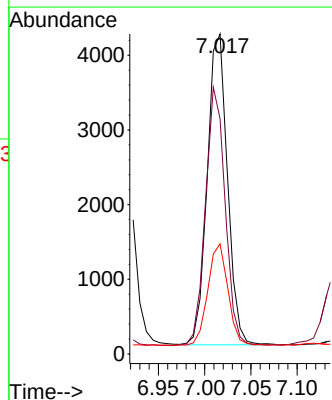
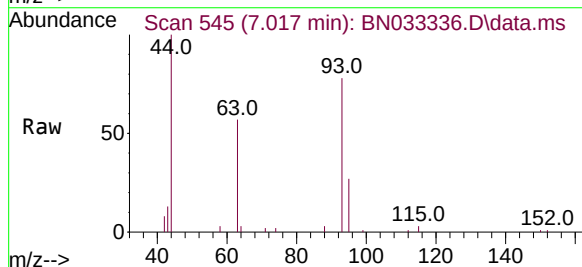
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

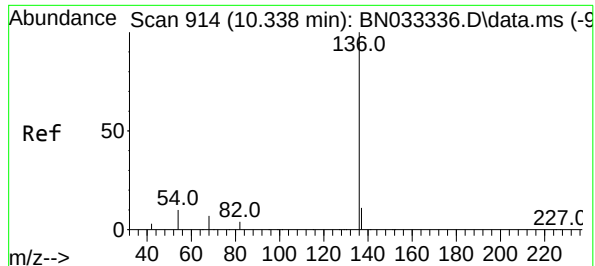
Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.1	18.5	27.7
71	32.7	26.2	39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 7.017 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

Tgt Ion	Ratio	Lower	Upper
93	100		
63	81.5	65.2	97.8
95	32.8	26.2	39.4

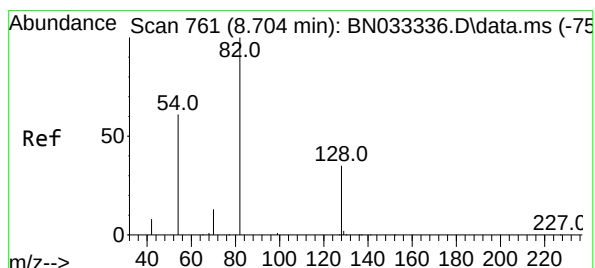
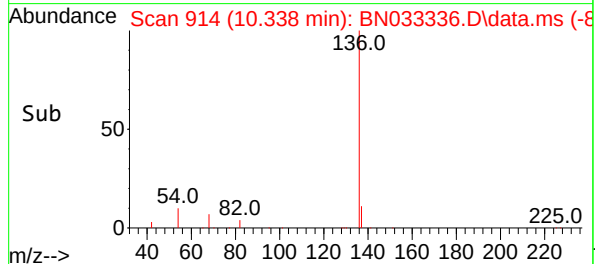
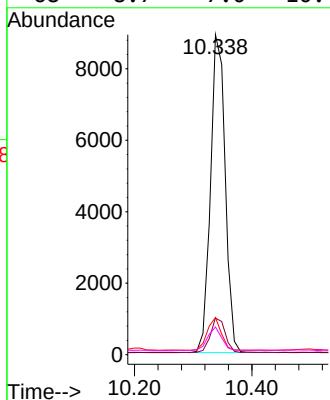
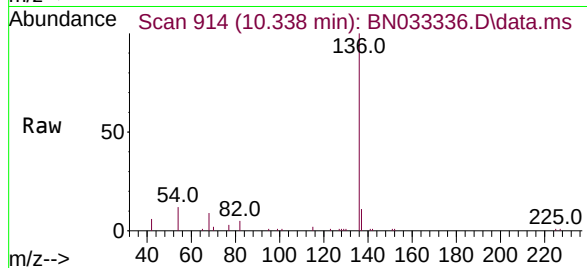




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.338 min Scan# 914
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

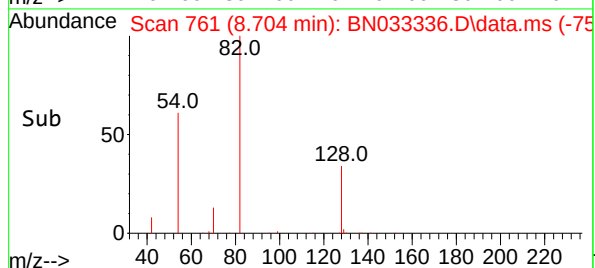
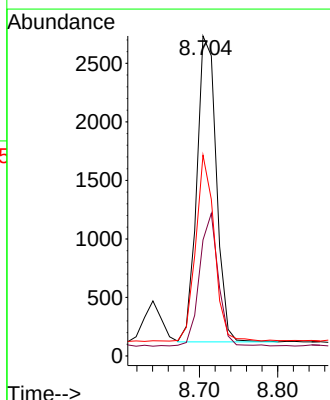
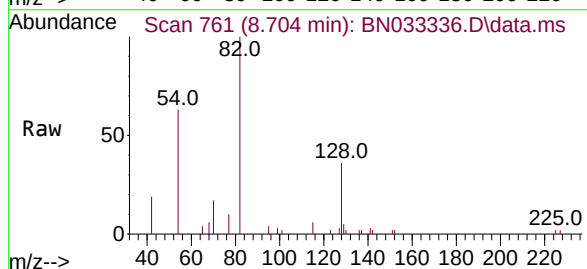
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

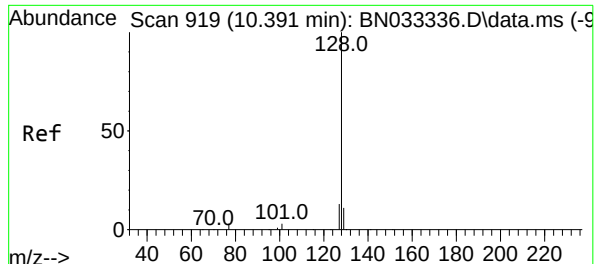
Tgt Ion:	136	Resp:	15448
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	11.7	9.4	14.0
68	8.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.482 ng
RT: 8.704 min Scan# 761
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

Tgt Ion:	82	Resp:	4546
Ion	Ratio	Lower	Upper
82	100		
128	36.2	29.0	43.4
54	62.8	50.2	75.4





#9
Naphthalene

Concen: 0.382 ng

RT: 10.391 min Scan# 919

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Instrument :

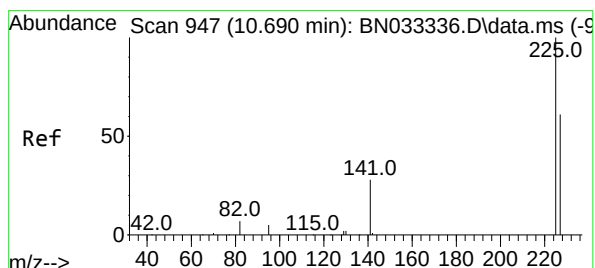
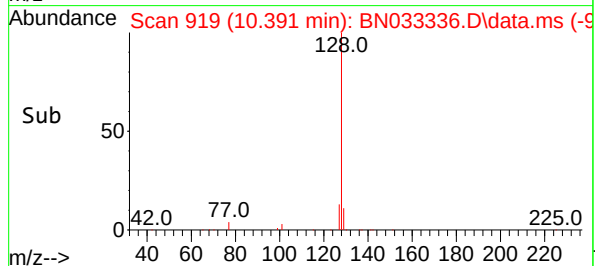
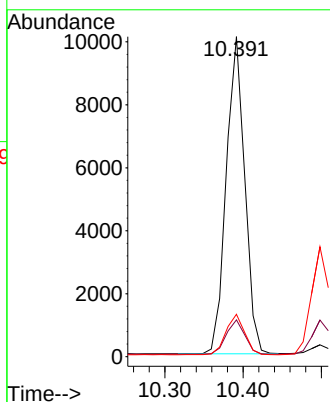
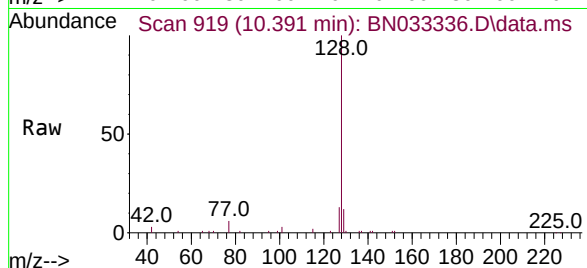
BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:128 Resp: 16562

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.2	10.6	15.8



#10

Hexachlorobutadiene

Concen: 0.404 ng

RT: 10.690 min Scan# 947

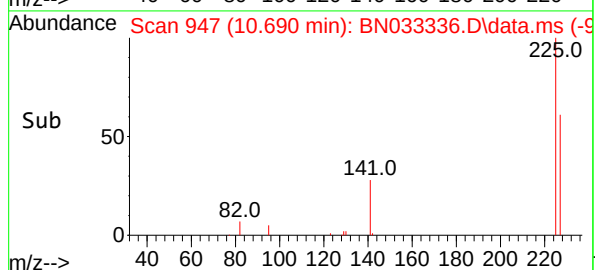
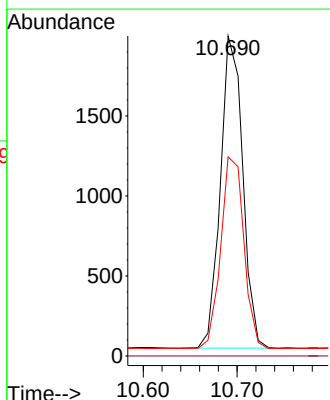
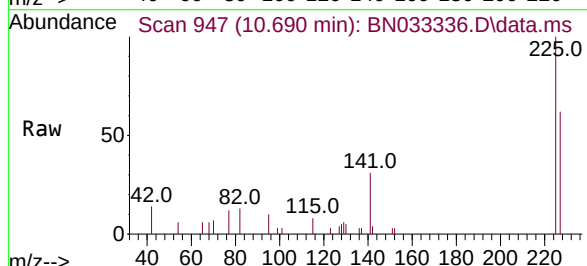
Delta R.T. 0.000 min

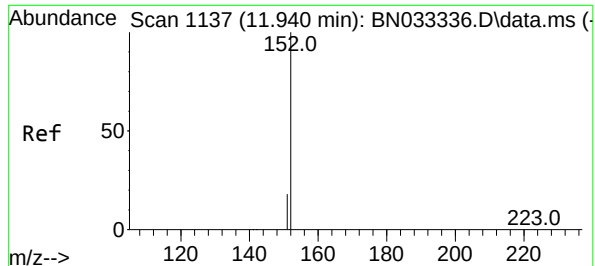
Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Tgt Ion:225 Resp: 3219

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	50.8	76.2

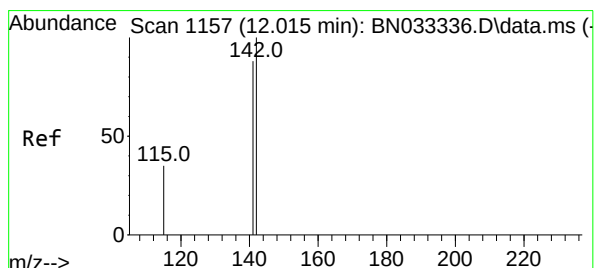
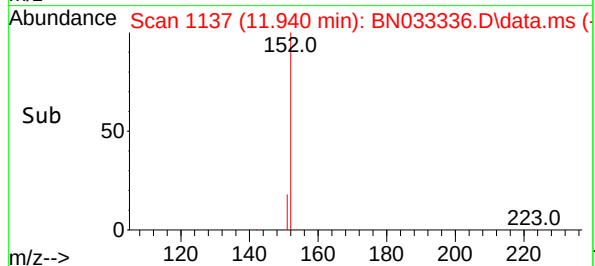
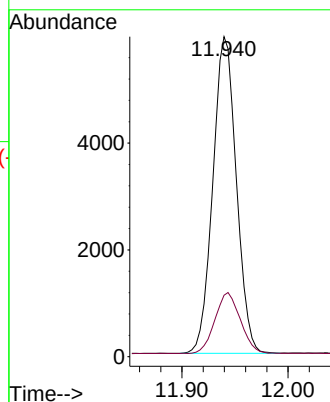
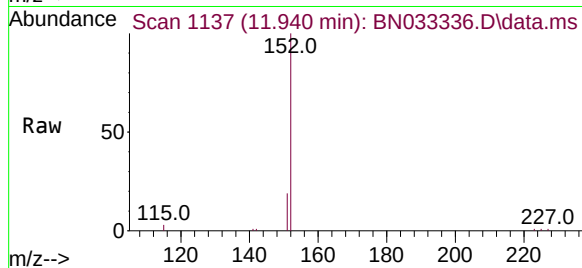




#11
2-Methylnaphthalene-d10
Concen: 0.380 ng
RT: 11.940 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

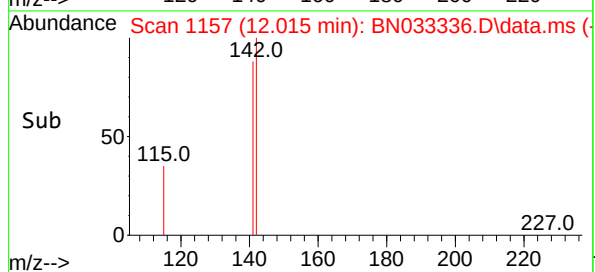
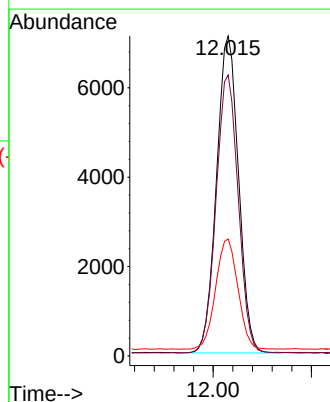
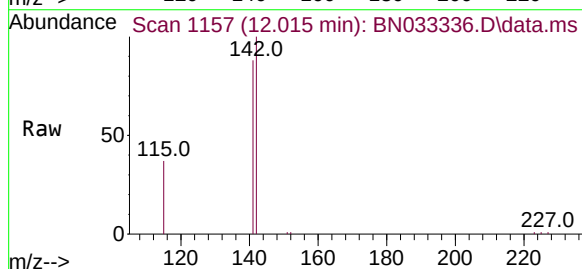
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

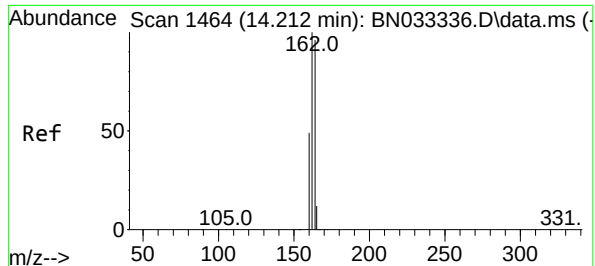
Tgt Ion:152 Resp: 9150
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 12.015 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

Tgt Ion:142 Resp: 11044
Ion Ratio Lower Upper
142 100
141 87.8 70.2 105.4
115 36.6 29.3 43.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.212 min Scan# 1464

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

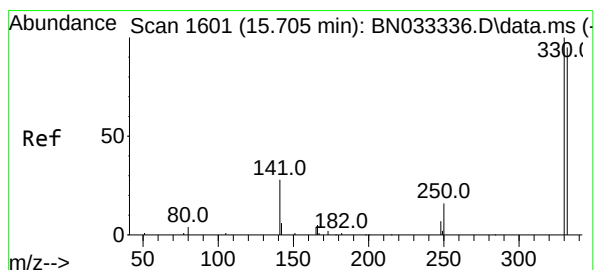
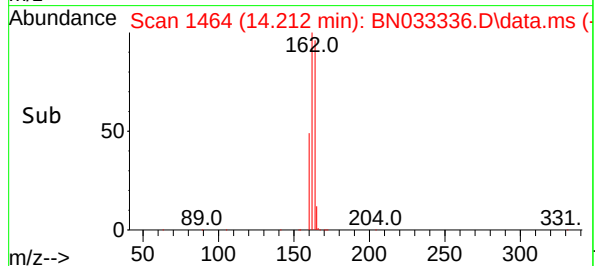
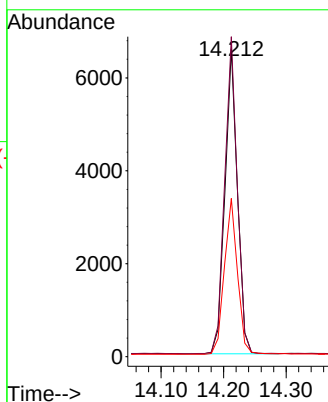
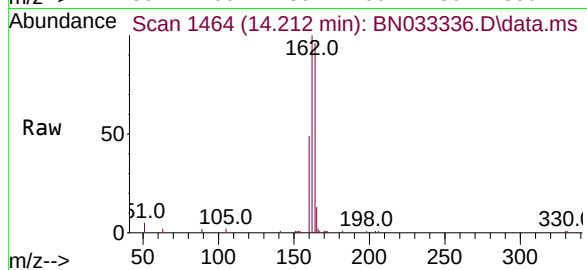
Tgt Ion:164 Resp: 9171

Ion Ratio Lower Upper

164 100

162 103.9 83.1 124.7

160 51.4 41.1 61.7



#14

2,4,6-Tribromophenol

Concen: 0.473 ng

RT: 15.705 min Scan# 1601

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

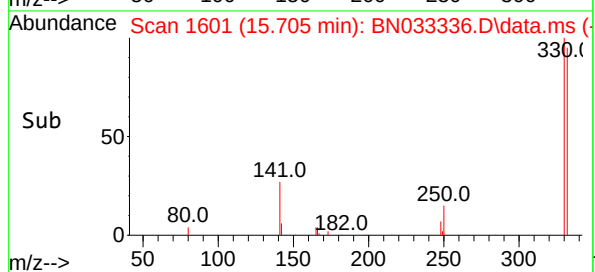
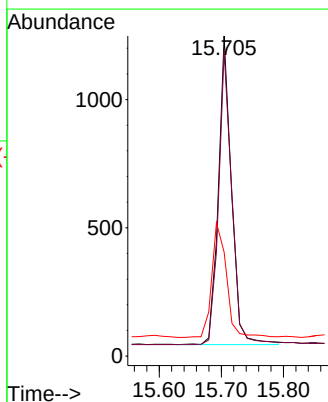
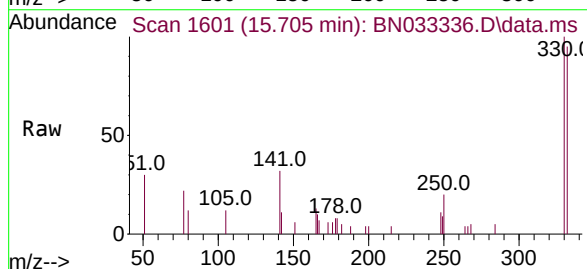
Tgt Ion:330 Resp: 1755

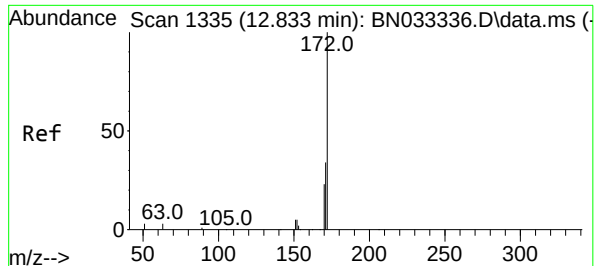
Ion Ratio Lower Upper

330 100

332 96.4 77.1 115.7

141 41.7 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.433 ng

RT: 12.833 min Scan# 1335

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

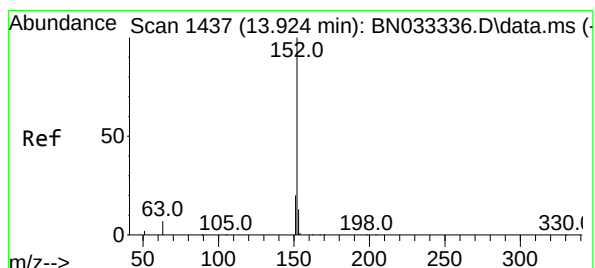
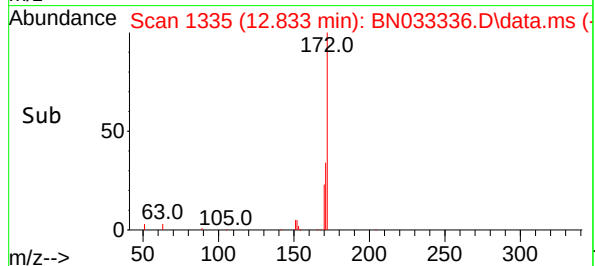
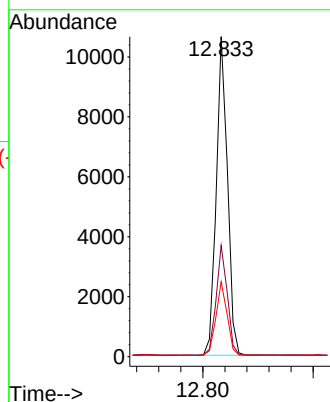
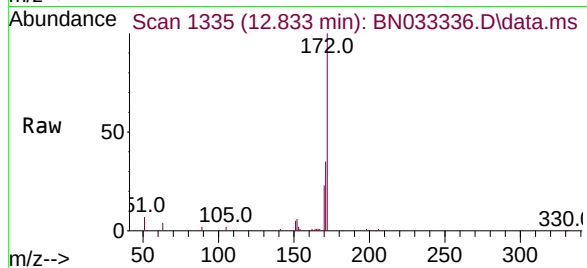
Tgt Ion:172 Resp: 14966

Ion Ratio Lower Upper

172 100

171 34.8 27.8 41.8

170 23.4 18.7 28.1



#16

Acenaphthylene

Concen: 0.356 ng

RT: 13.924 min Scan# 1437

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

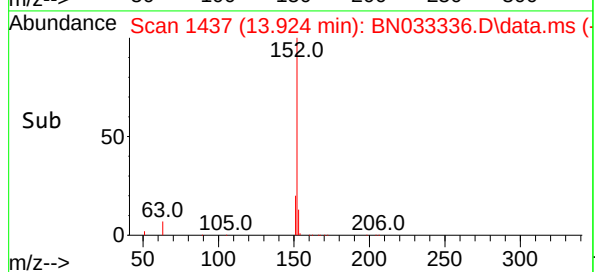
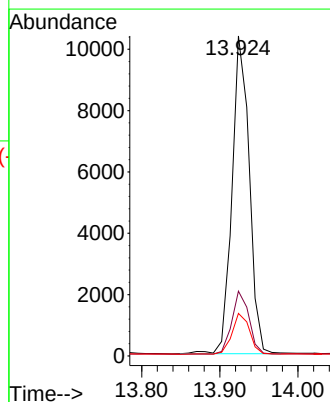
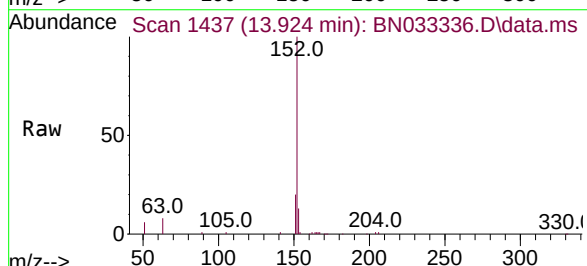
Tgt Ion:152 Resp: 15945

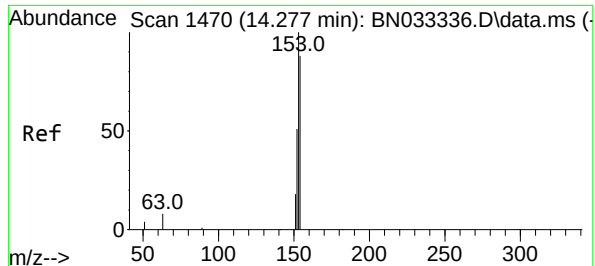
Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

153 13.0 10.4 15.6





#17

Acenaphthene

Concen: 0.393 ng

RT: 14.277 min Scan# 1470

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

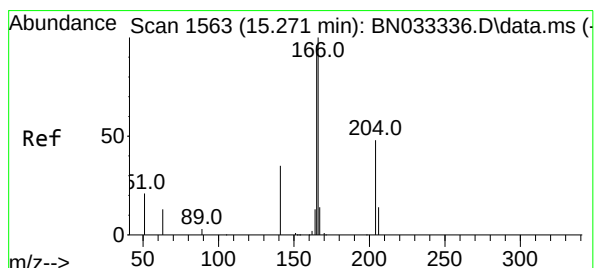
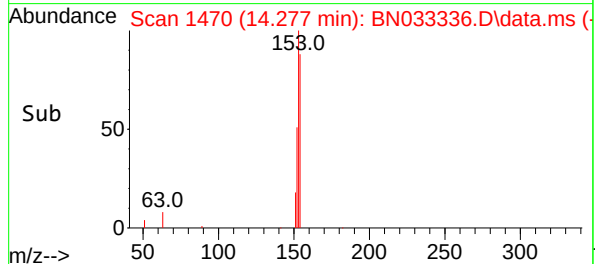
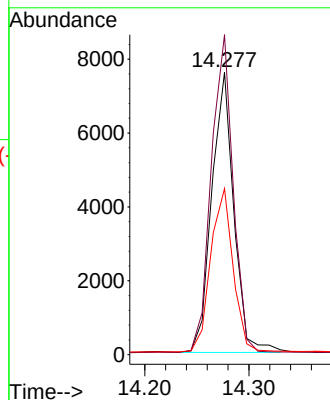
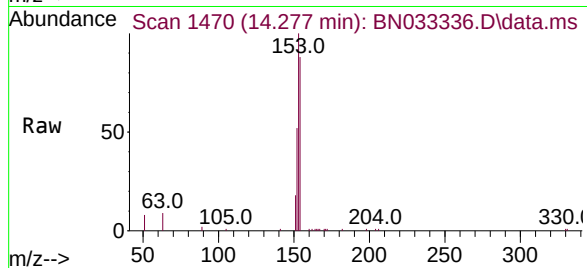
Tgt Ion:154 Resp: 11171

Ion Ratio Lower Upper

154 100

153 112.1 89.7 134.5

152 59.0 47.2 70.8



#18

Fluorene

Concen: 0.390 ng

RT: 15.271 min Scan# 1563

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

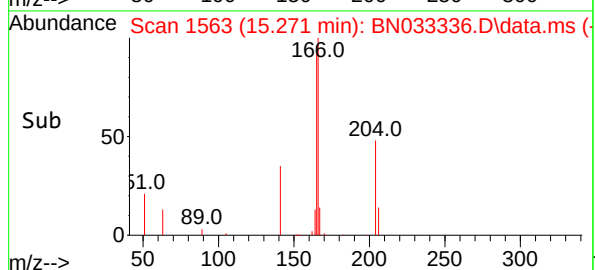
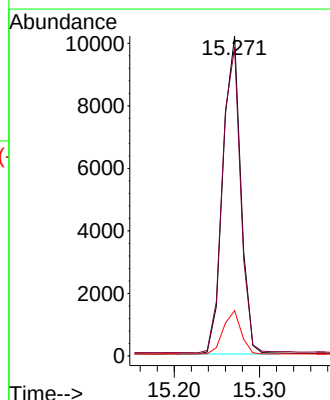
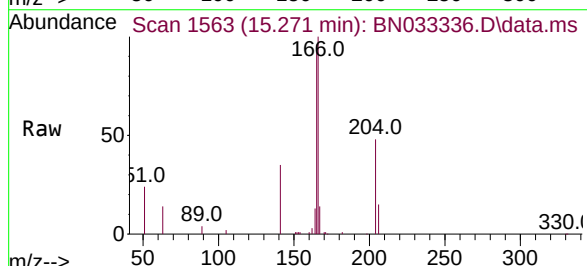
Tgt Ion:166 Resp: 14815

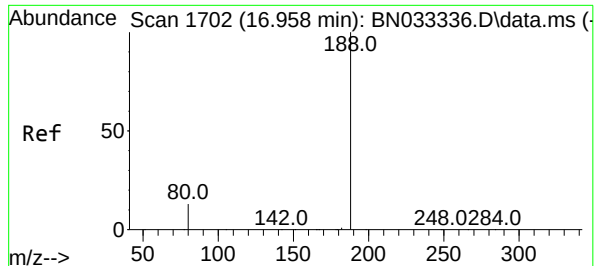
Ion Ratio Lower Upper

166 100

165 97.5 78.0 117.0

167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.958 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

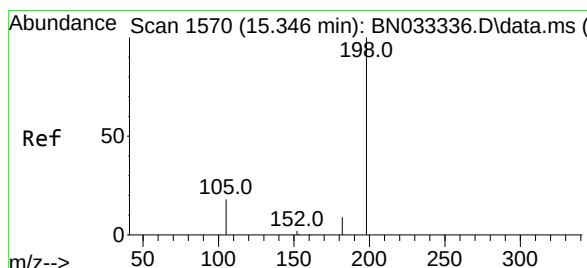
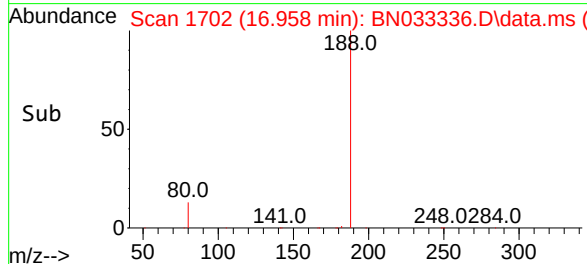
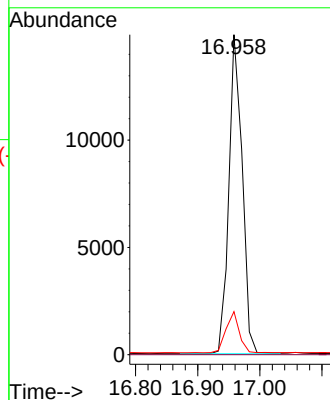
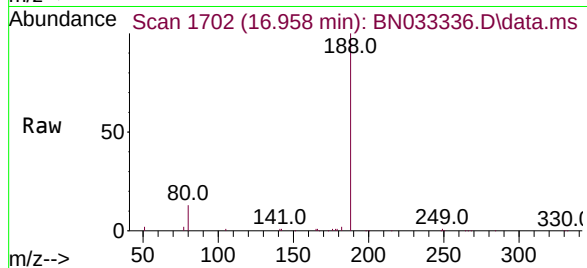
Tgt Ion:188 Resp: 22066

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.584 ng

RT: 15.346 min Scan# 1570

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

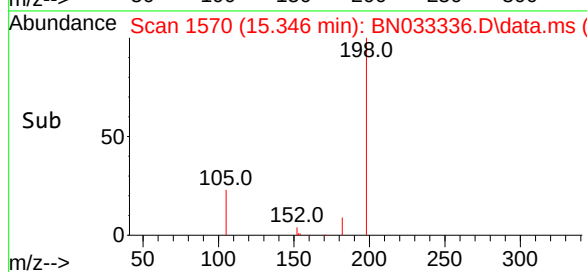
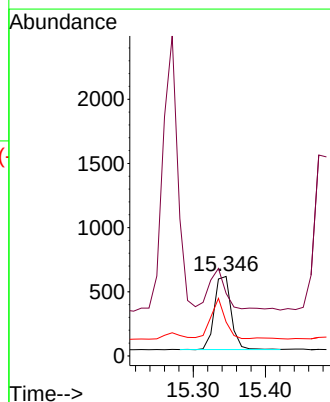
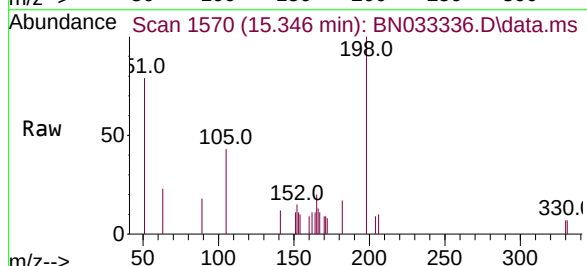
Tgt Ion:198 Resp: 921

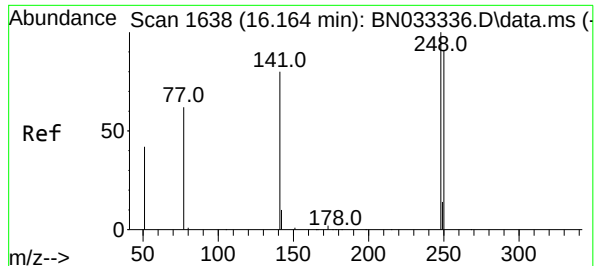
Ion Ratio Lower Upper

198 100

51 78.5 62.8 94.2

105 42.6 34.1 51.1

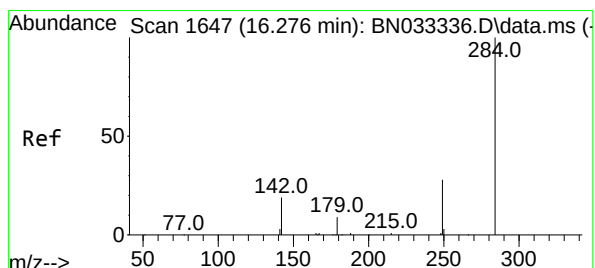
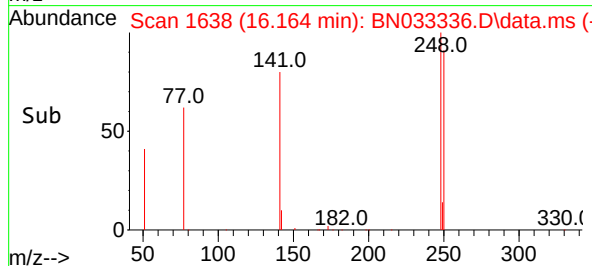
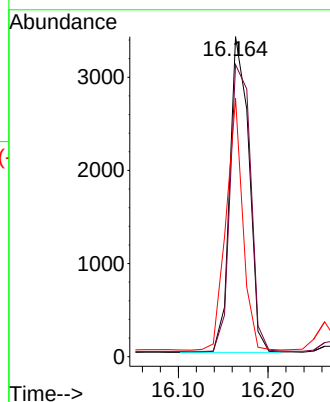
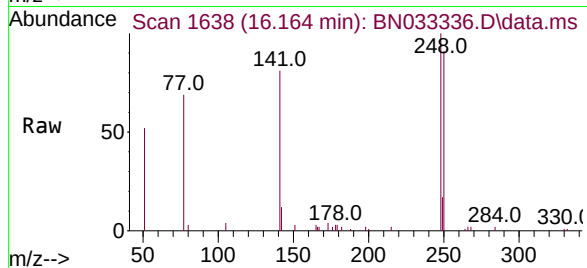




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.164 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

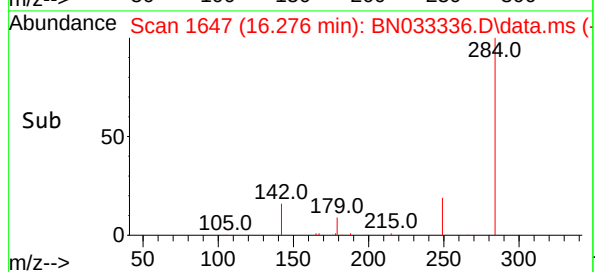
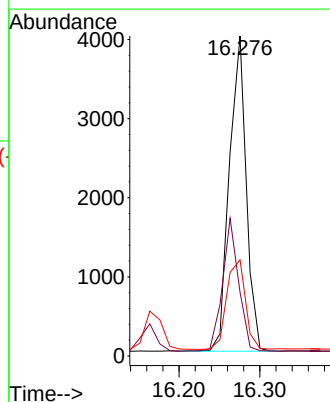
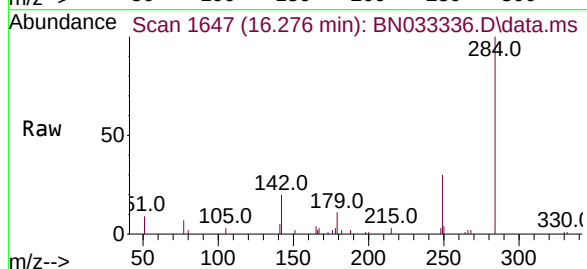
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

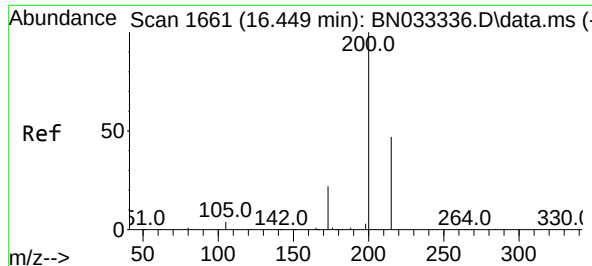
Tgt Ion:248 Resp: 5026
Ion Ratio Lower Upper
248 100
250 91.2 73.0 109.4
141 80.7 64.6 96.8



#22
Hexachlorobenzene
Concen: 0.411 ng
RT: 16.276 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

Tgt Ion:284 Resp: 5784
Ion Ratio Lower Upper
284 100
142 40.3 32.2 48.4
249 31.6 25.3 37.9

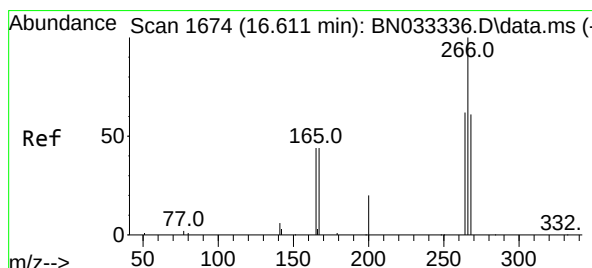
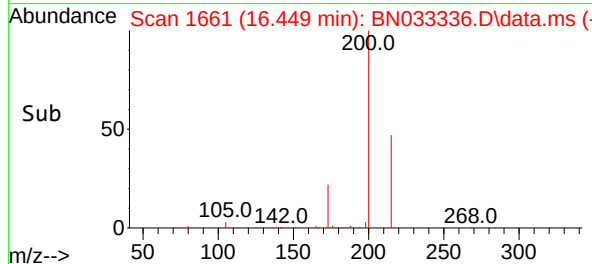
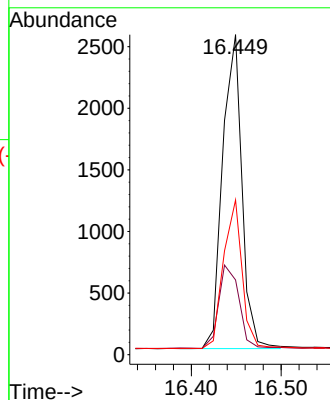
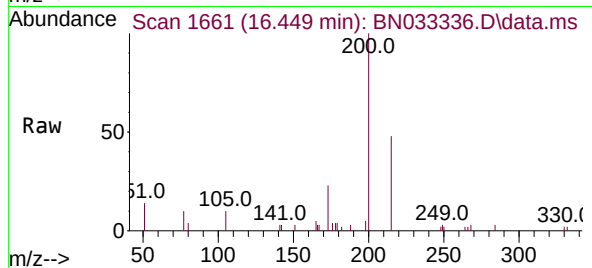




#23
Atrazine
Concen: 0.344 ng
RT: 16.449 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

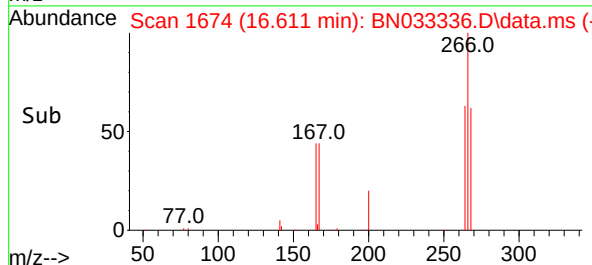
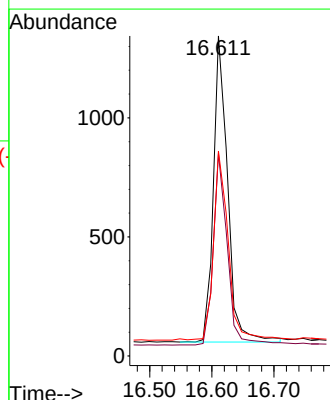
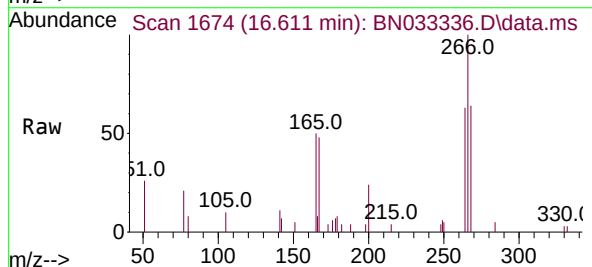
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

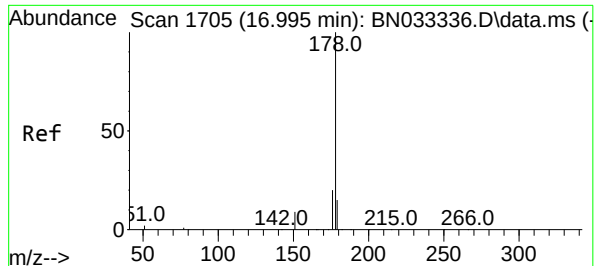
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.4	18.7	28.1
215	48.3	38.6	58.0



#24
Pentachlorophenol
Concen: 0.414 ng
RT: 16.611 min Scan# 1674
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.5	49.2	73.8
268	64.0	51.2	76.8

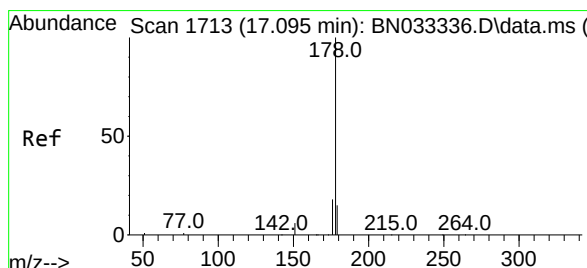
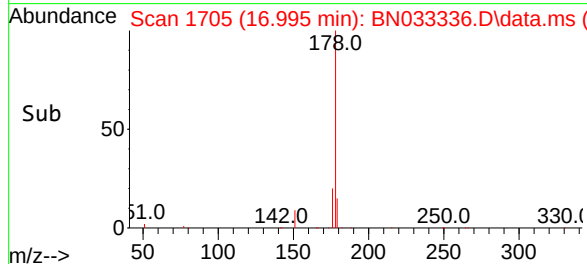
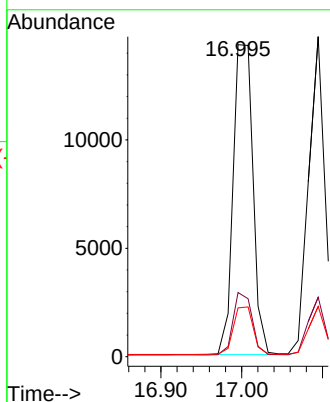
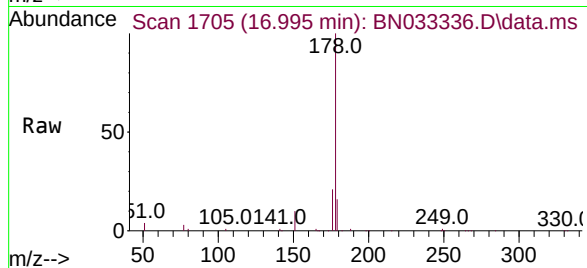




#25
Phenanthrene
Concen: 0.383 ng
RT: 16.995 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

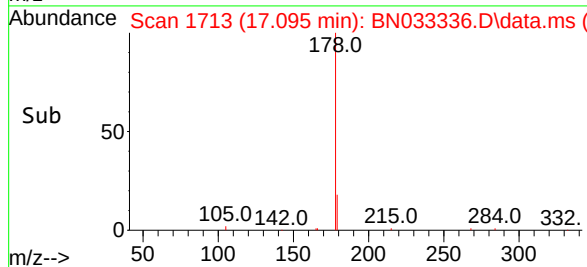
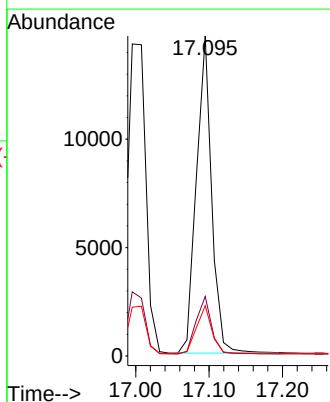
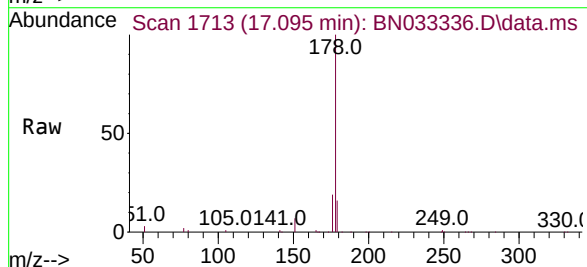
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

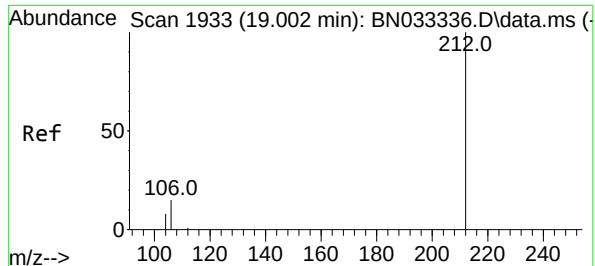
Tgt Ion:178 Resp: 24483
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.2 12.2 18.2



#26
Anthracene
Concen: 0.340 ng
RT: 17.095 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

Tgt Ion:178 Resp: 21138
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.369 ng

RT: 19.002 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

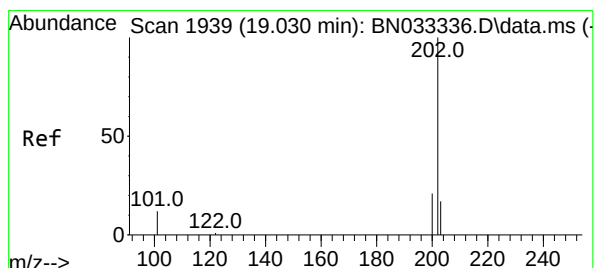
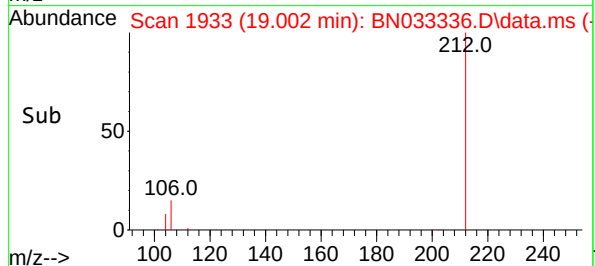
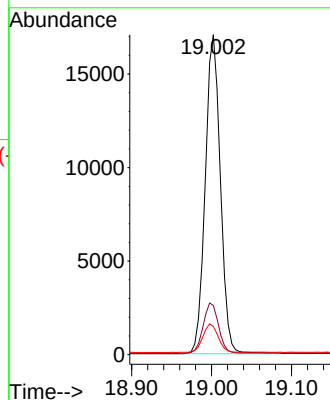
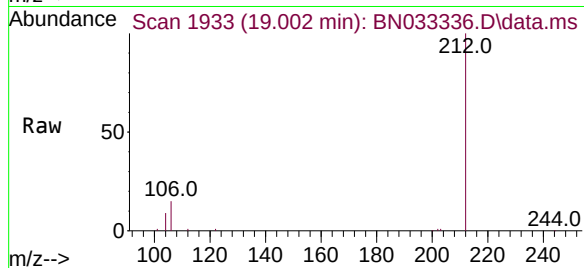
Tgt Ion:212 Resp: 22394

Ion Ratio Lower Upper

212 100

106 16.0 12.8 19.2

104 8.9 7.1 10.7



#28

Fluoranthene

Concen: 0.368 ng

RT: 19.030 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

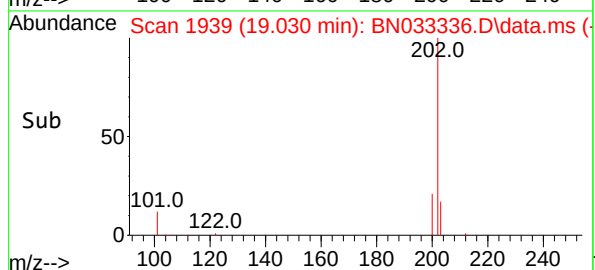
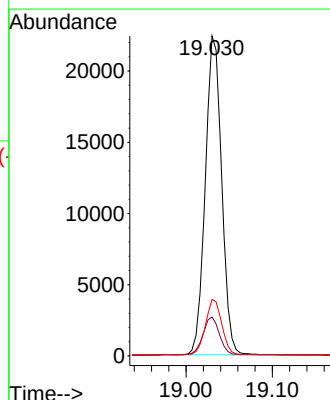
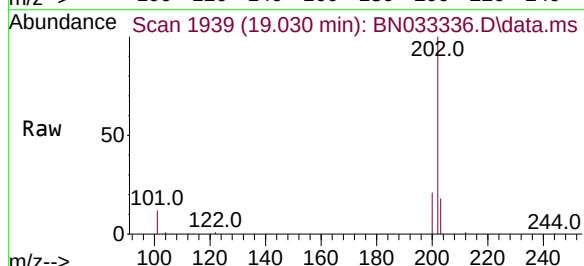
Tgt Ion:202 Resp: 29596

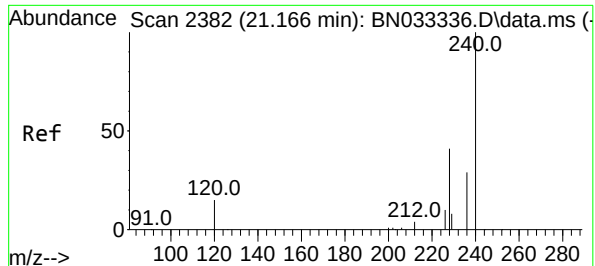
Ion Ratio Lower Upper

202 100

101 12.2 9.8 14.6

203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.166 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

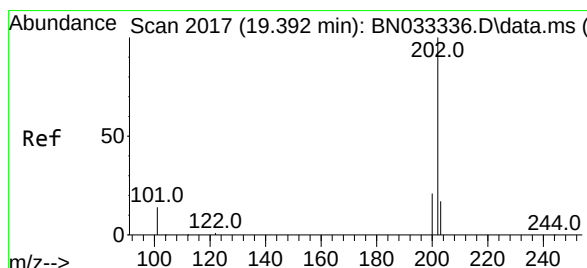
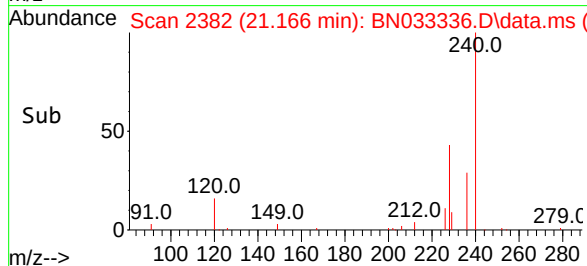
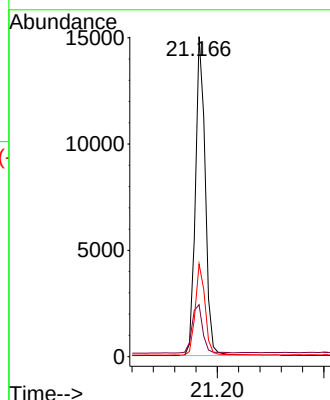
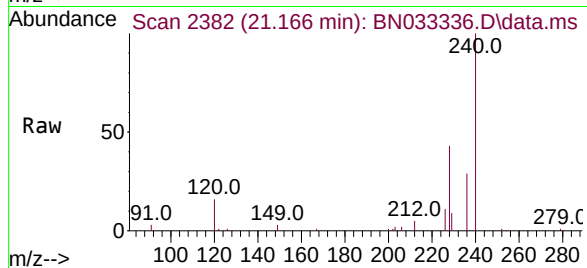
Tgt Ion:240 Resp: 19273

Ion Ratio Lower Upper

240 100

120 16.3 13.0 19.6

236 29.0 23.2 34.8



#30

Pyrene

Concen: 0.400 ng

RT: 19.392 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

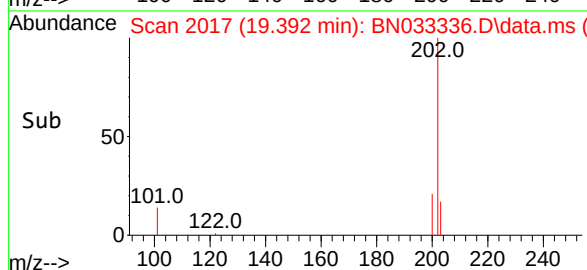
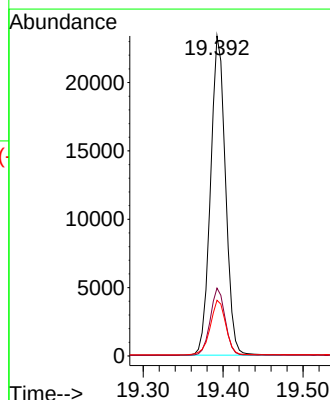
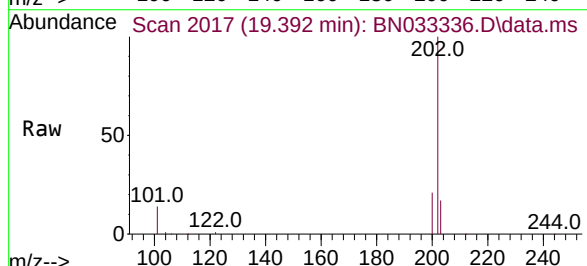
Tgt Ion:202 Resp: 30305

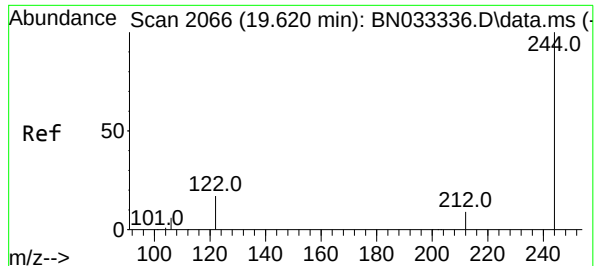
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.8 14.2 21.4

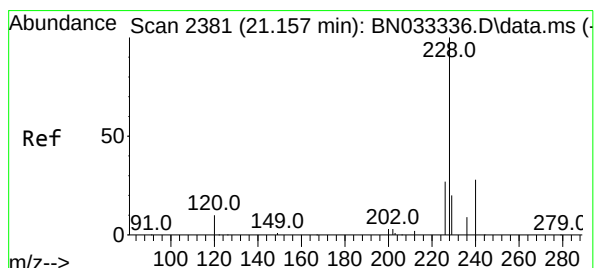
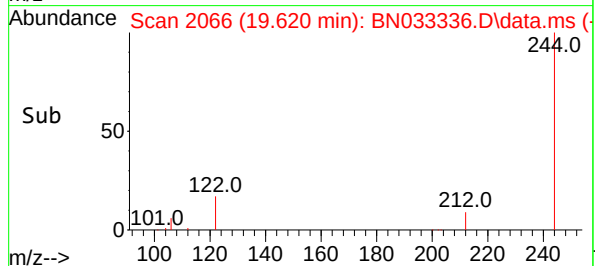
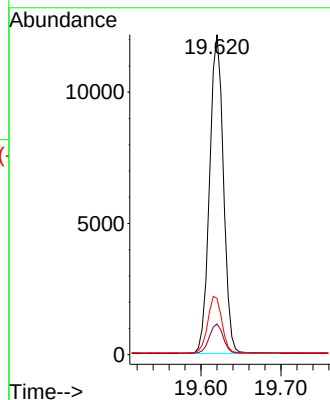
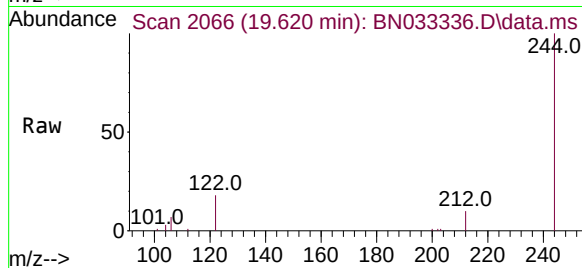




#31
Terphenyl-d14
Concen: 0.438 ng
RT: 19.620 min Scan# 2066
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

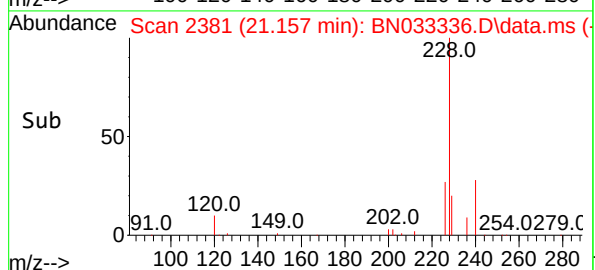
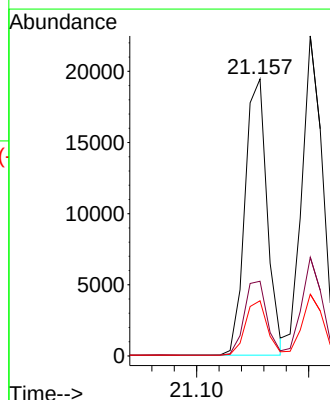
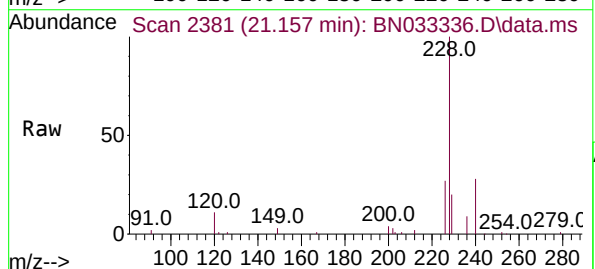
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

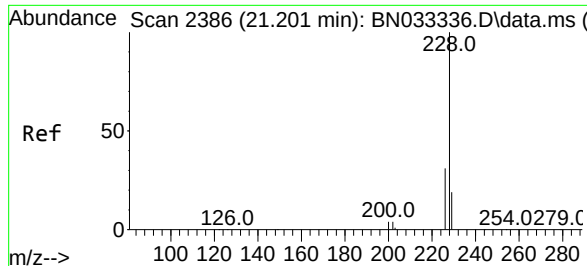
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.7	11.5
122	17.5	14.0	21.0



#32
Benzo(a)anthracene
Concen: 0.357 ng
RT: 21.157 min Scan# 2381
Delta R.T. 0.000 min
Lab File: BN033336.D
Acq: 10 Aug 2024 14:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.6	32.4
229	19.9	15.9	23.9





#33

Chrysene

Concen: 0.398 ng

RT: 21.201 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

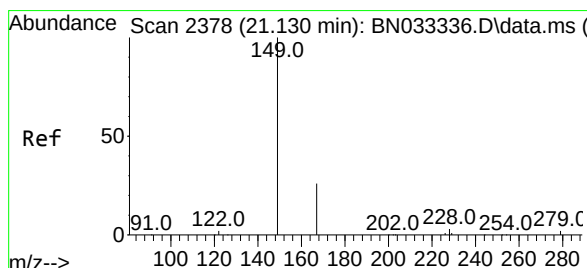
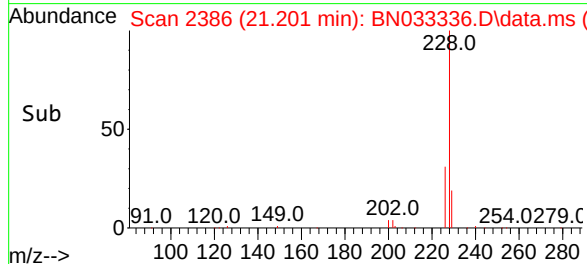
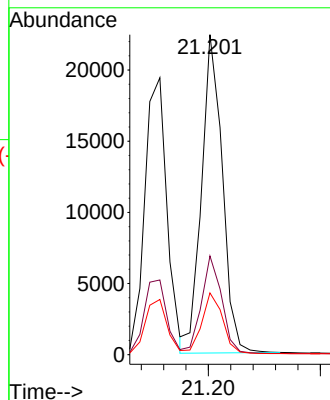
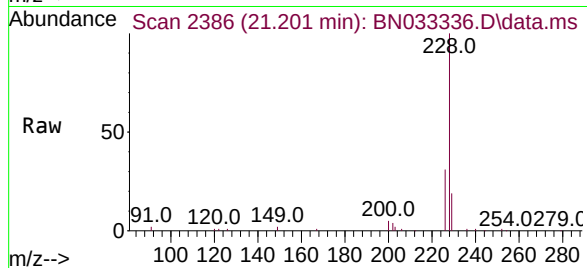
Tgt Ion:228 Resp: 28851

Ion Ratio Lower Upper

228 100

226 30.9 24.7 37.1

229 19.3 15.4 23.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.292 ng

RT: 21.130 min Scan# 2378

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

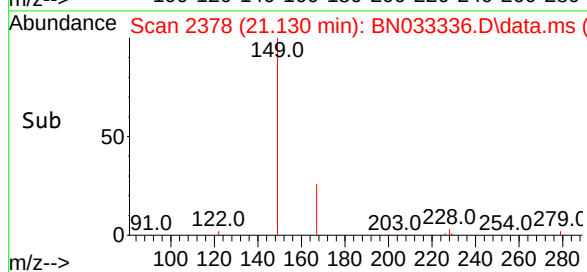
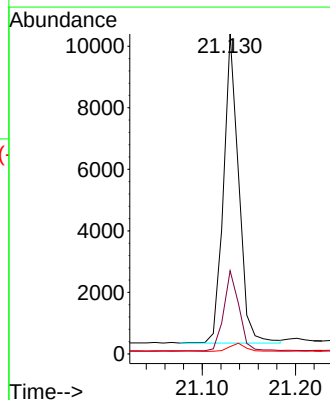
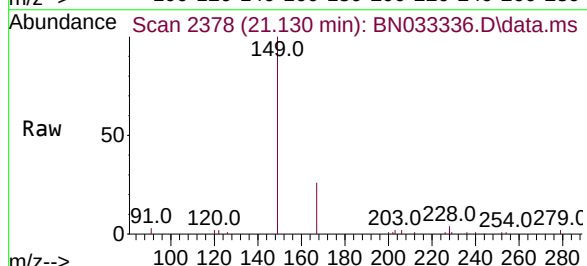
Tgt Ion:149 Resp: 11323

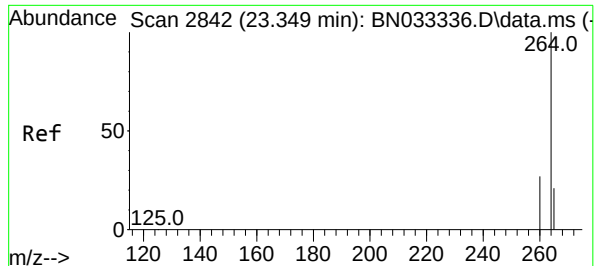
Ion Ratio Lower Upper

149 100

167 26.0 20.9 31.3

279 2.8 2.2 3.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.349 min Scan# 2842

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

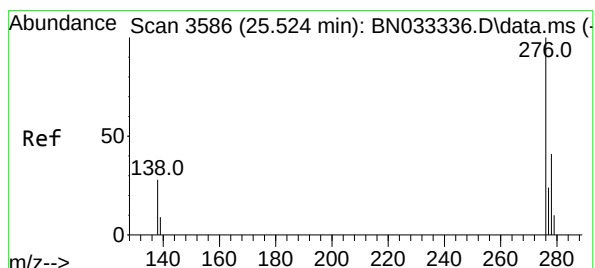
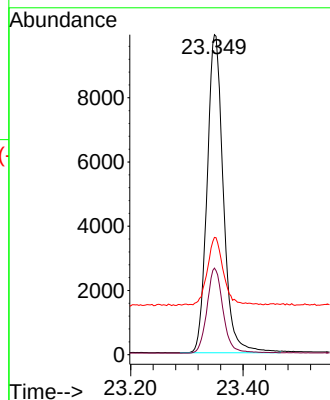
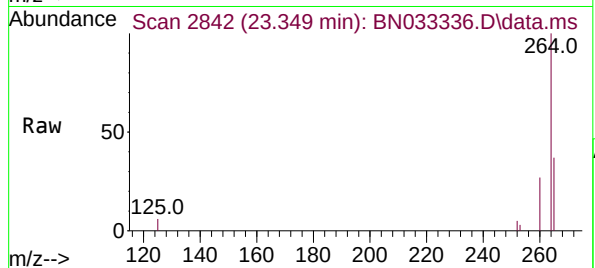
Tgt Ion:264 Resp: 19885

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 36.6 29.3 43.9



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.343 ng

RT: 25.524 min Scan# 3586

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

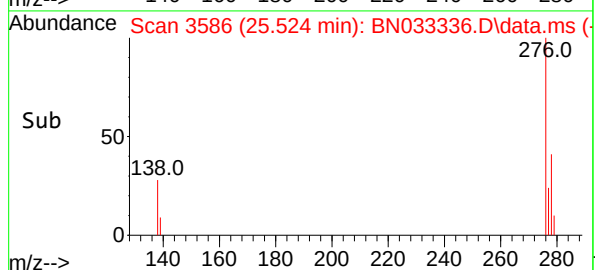
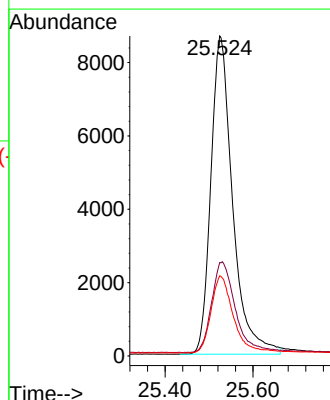
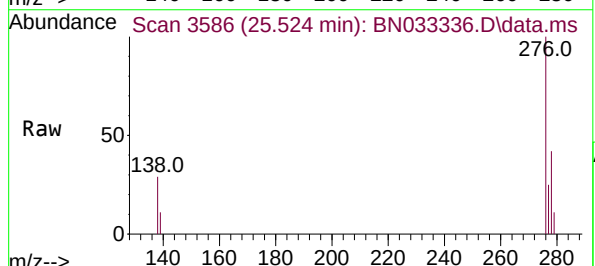
Tgt Ion:276 Resp: 29809

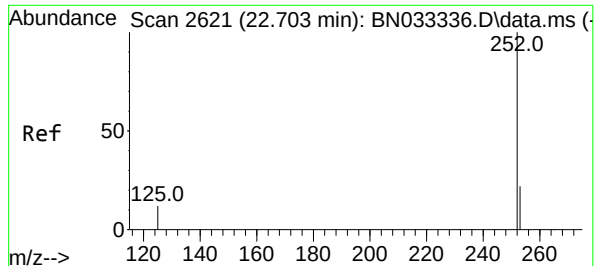
Ion Ratio Lower Upper

276 100

138 31.1 24.9 37.3

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.382 ng

RT: 22.703 min Scan# 2621

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

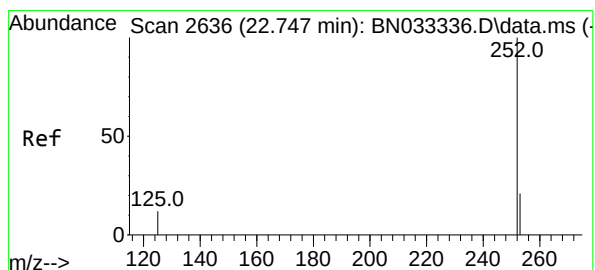
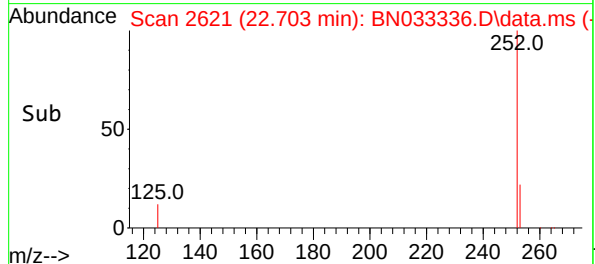
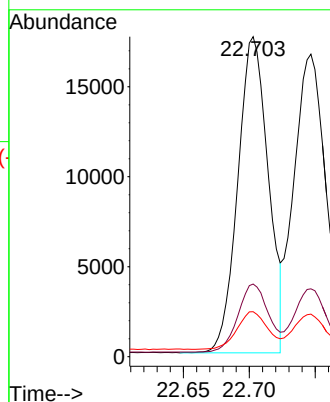
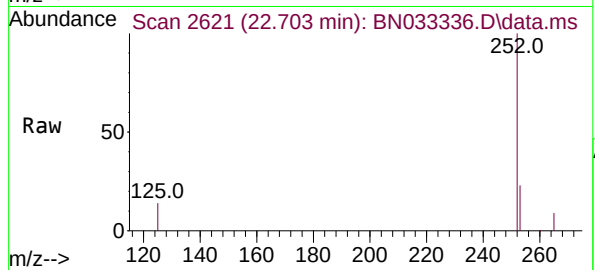
Tgt Ion:252 Resp: 28235

Ion Ratio Lower Upper

252 100

253 22.7 18.2 27.2

125 14.1 11.3 16.9



#38

Benzo(k)fluoranthene

Concen: 0.412 ng

RT: 22.747 min Scan# 2636

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

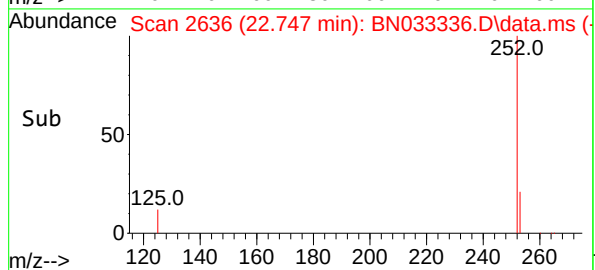
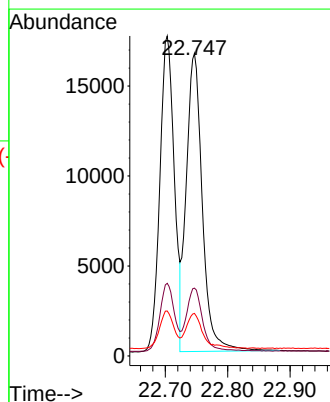
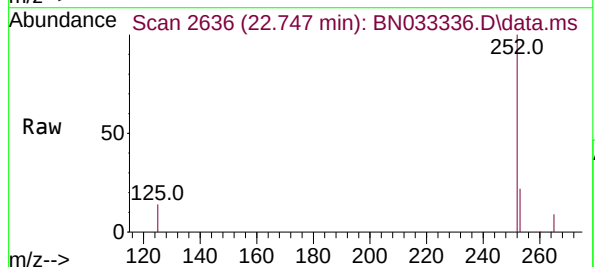
Tgt Ion:252 Resp: 29564

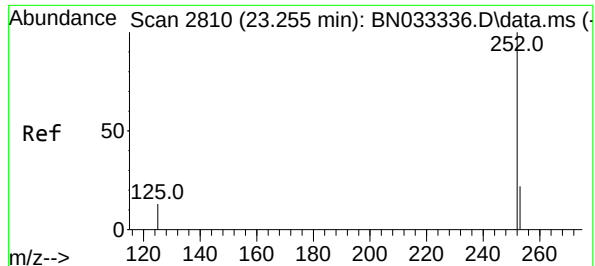
Ion Ratio Lower Upper

252 100

253 22.4 17.9 26.9

125 14.1 11.3 16.9





#39

Benzo(a)pyrene

Concen: 0.350 ng

RT: 23.255 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

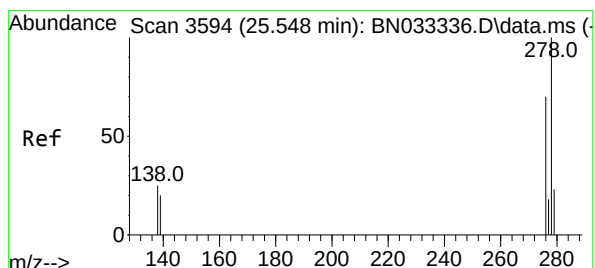
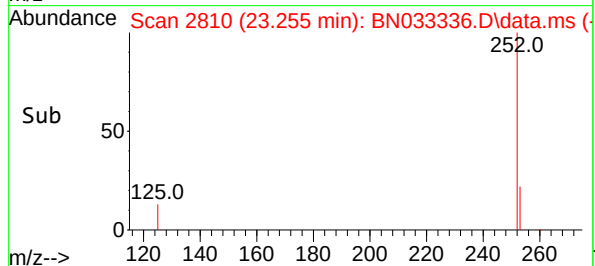
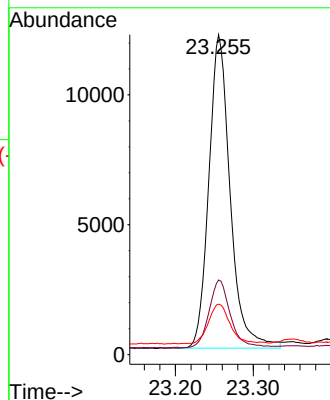
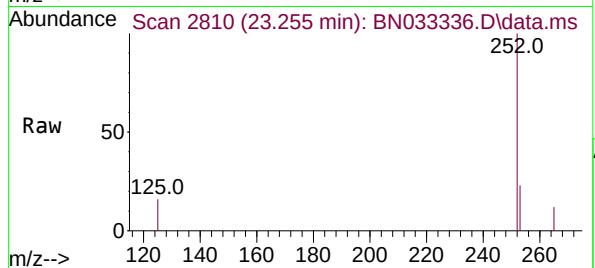
Tgt Ion:252 Resp: 22964

Ion Ratio Lower Upper

252 100

253 23.3 18.6 28.0

125 15.8 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.341 ng

RT: 25.548 min Scan# 3594

Delta R.T. 0.000 min

Lab File: BN033336.D

Acq: 10 Aug 2024 14:53

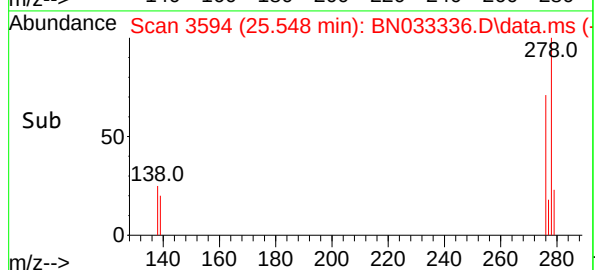
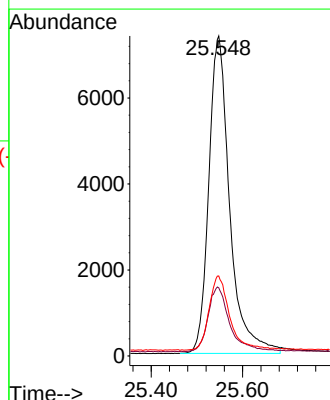
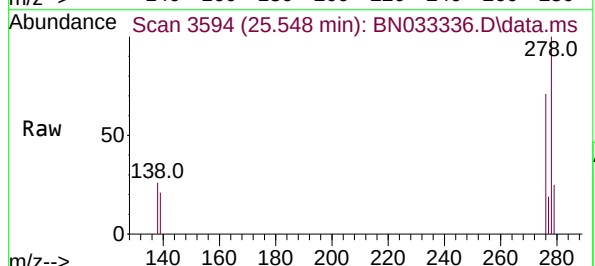
Tgt Ion:278 Resp: 23448

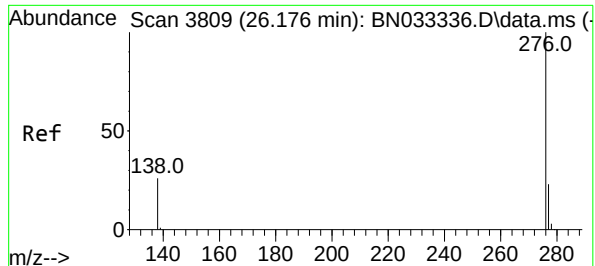
Ion Ratio Lower Upper

278 100

139 21.3 17.0 25.6

279 25.0 20.0 30.0





#41

Benzo(g,h,i)perylene

Concen: 0.354 ng

RT: 26.176 min Scan# 3809

Delta R.T. 0.000 min

Lab File: BN033336.D

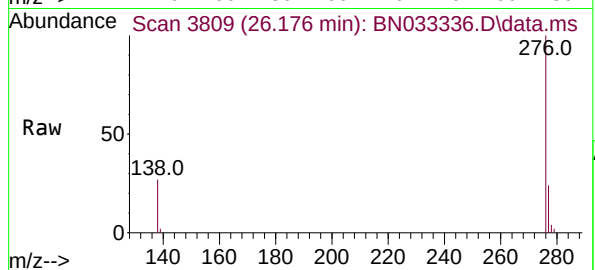
Acq: 10 Aug 2024 14:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



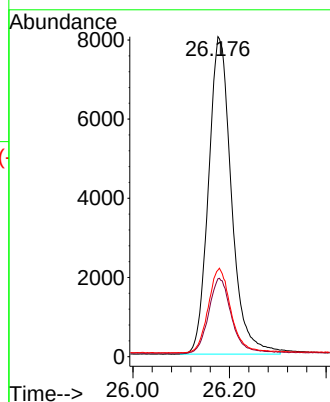
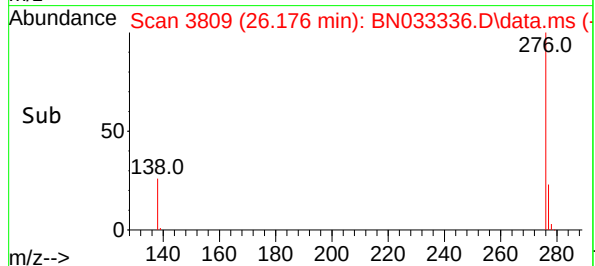
Tgt Ion:276 Resp: 26432

Ion Ratio Lower Upper

276 100

277 24.3 19.4 29.2

138 27.0 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
 Data File : BN033337.D
 Acq On : 10 Aug 2024 15:29
 Operator : MA/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Aug 12 01:01:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 12 00:59:25 2024
 Response via : Initial Calibration

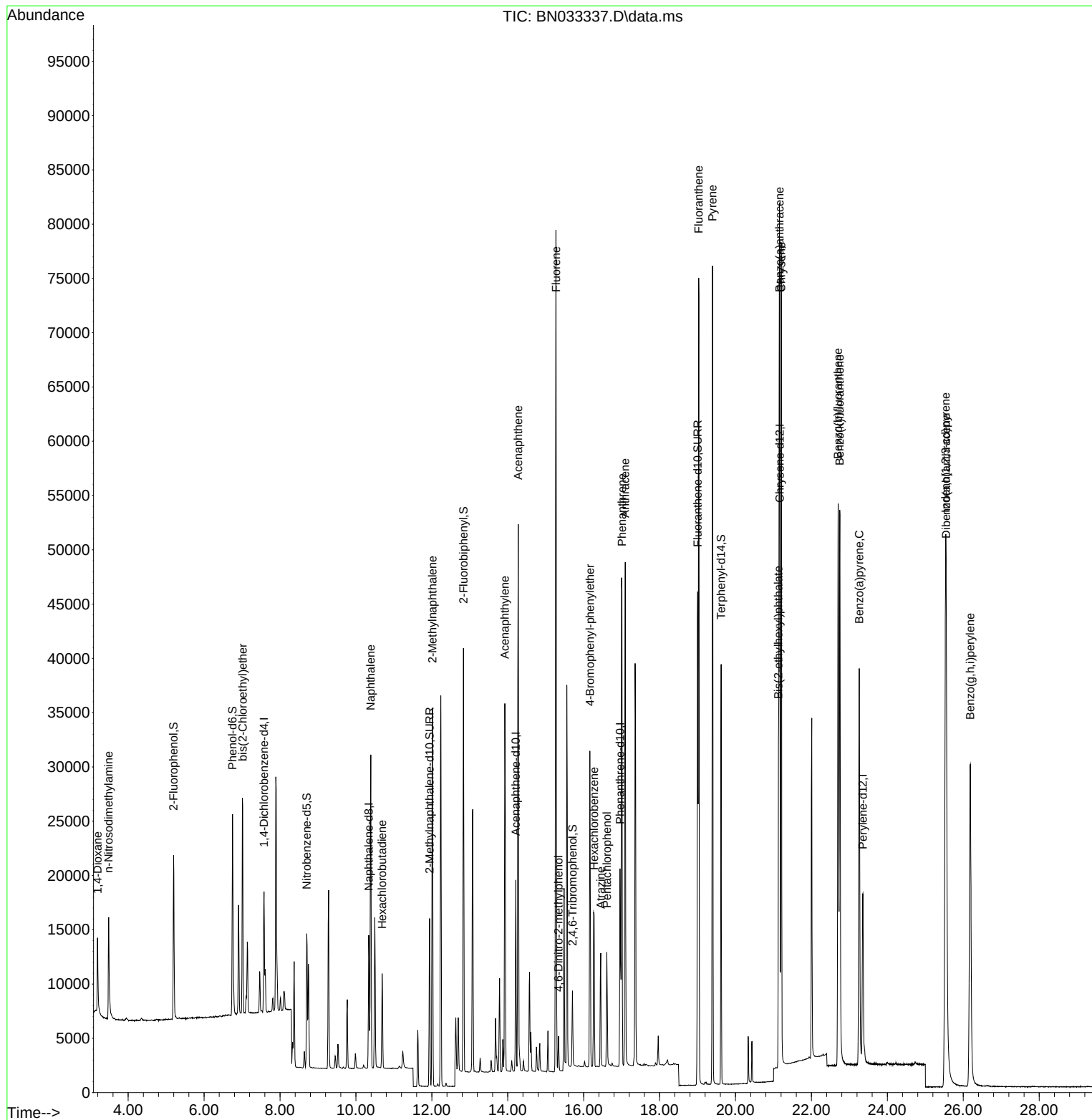
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.580	152	5304	0.400	ng	0.00
7) Naphthalene-d8	10.338	136	15421	0.400	ng	0.00
13) Acenaphthene-d10	14.212	164	9099	0.400	ng	0.00
19) Phenanthrene-d10	16.958	188	22071	0.400	ng	0.00
29) Chrysene-d12	21.166	240	19976	0.400	ng	0.00
35) Perylene-d12	23.355	264	20307	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.197	112	12024	0.861	ng	0.00
5) Phenol-d6	6.749	99	16163	0.847	ng	0.00
8) Nitrobenzene-d5	8.704	82	9562	1.016	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	20023	0.833	ng	0.00
14) 2,4,6-Tribromophenol	15.705	330	3760	1.021	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	31471	0.918	ng	0.00
27) Fluoranthene-d10	19.002	212	48436	0.798	ng	0.00
31) Terphenyl-d14	19.620	244	31359	0.910	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.196	88	4785	0.815	ng	98
3) n-Nitrosodimethylamine	3.485	42	6543	0.876	ng	# 97
6) bis(2-Chloroethyl)ether	7.017	93	13587	0.832	ng	99
9) Naphthalene	10.391	128	35970	0.831	ng	99
10) Hexachlorobutadiene	10.690	225	6899	0.867	ng	# 100
12) 2-Methylnaphthalene	12.015	142	24182	0.810	ng	99
16) Acenaphthylene	13.924	152	35679	0.803	ng	100
17) Acenaphthene	14.277	154	24476	0.868	ng	99
18) Fluorene	15.271	166	32375	0.860	ng	99
20) 4,6-Dinitro-2-methylph...	15.335	198	2122	1.345	ng	# 89
21) 4-Bromophenyl-phenylether	16.164	248	10998	0.821	ng	100
22) Hexachlorobenzene	16.276	284	12449	0.885	ng	100
23) Atrazine	16.449	200	8391	0.758	ng	98
24) Pentachlorophenol	16.611	266	4609	0.935	ng	100
25) Phenanthrene	17.008	178	52730	0.825	ng	100
26) Anthracene	17.095	178	46566	0.750	ng	100
28) Fluoranthene	19.030	202	65620	0.815	ng	100
30) Pyrene	19.392	202	66456	0.846	ng	100
32) Benzo(a)anthracene	21.157	228	61894	0.798	ng	99
33) Chrysene	21.201	228	62851	0.837	ng	100
34) Bis(2-ethylhexyl)phtha...	21.130	149	25330	0.630	ng	100
36) Indeno(1,2,3-cd)pyrene	25.533	276	69404	0.781	ng	100
37) Benzo(b)fluoranthene	22.703	252	64613	0.856	ng	97
38) Benzo(k)fluoranthene	22.747	252	66465	0.907	ng	98
39) Benzo(a)pyrene	23.258	252	53519	0.798	ng	97
40) Dibenzo(a,h)anthracene	25.551	278	55489	0.791	ng	98
41) Benzo(g,h,i)perylene	26.185	276	60937	0.798	ng	100

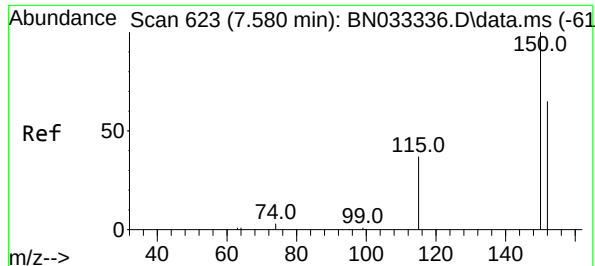
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033337.D
Acq On : 10 Aug 2024 15:29
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Aug 12 01:01:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 00:59:25 2024
Response via : Initial Calibration

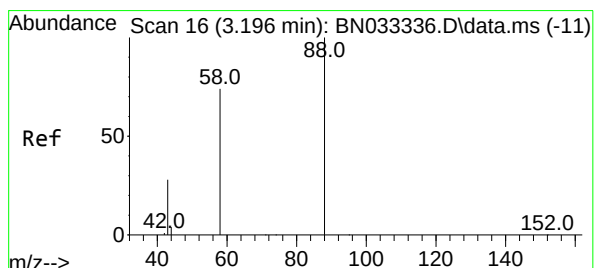
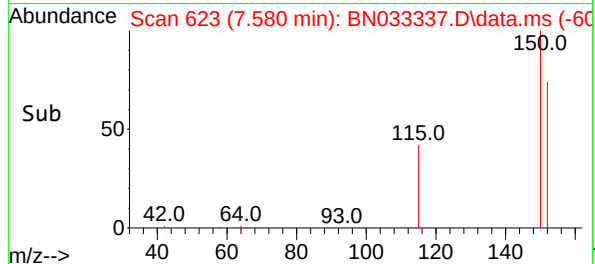
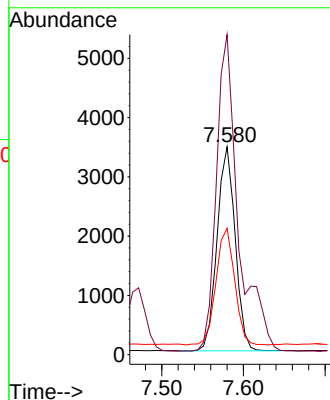
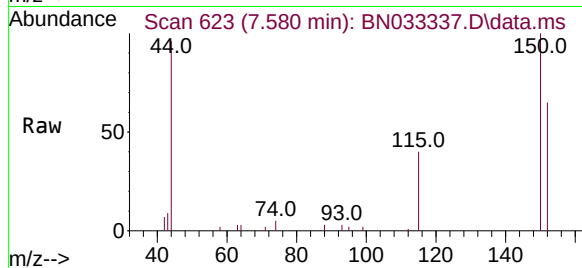




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.580 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

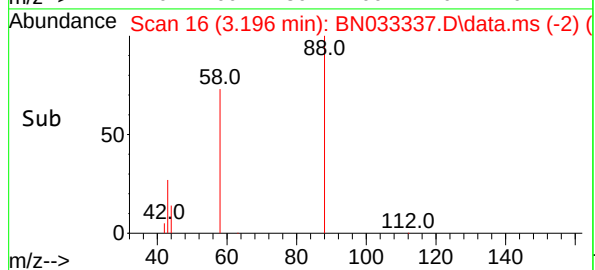
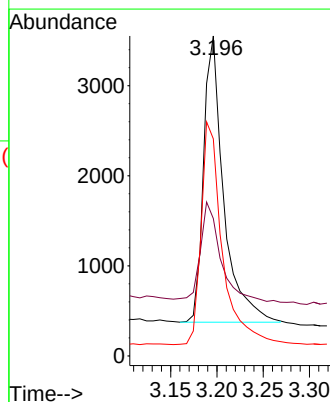
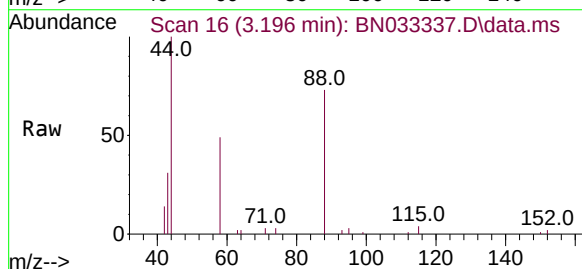
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

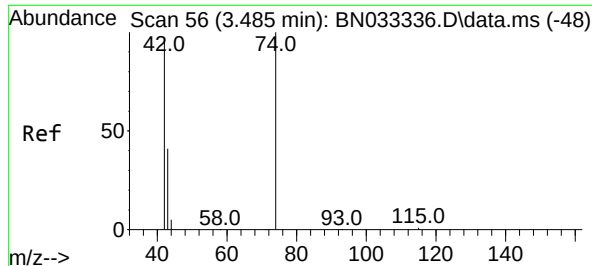
Tgt Ion:152 Resp: 5304
Ion Ratio Lower Upper
152 100
150 153.9 122.3 183.5
115 60.8 48.8 73.2



#2
1,4-Dioxane
Concen: 0.815 ng
RT: 3.196 min Scan# 16
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

Tgt Ion: 88 Resp: 4785
Ion Ratio Lower Upper
88 100
43 36.2 30.6 46.0
58 82.2 64.5 96.7

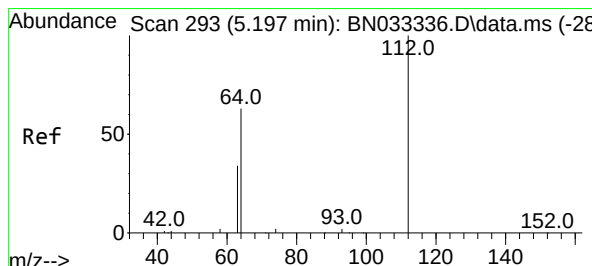
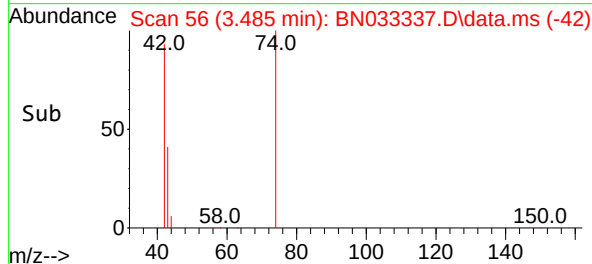
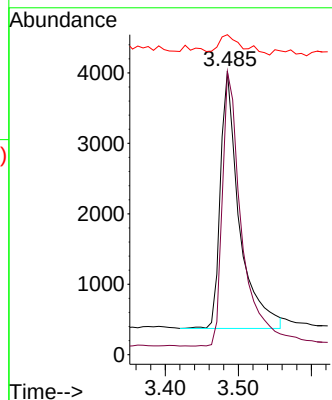
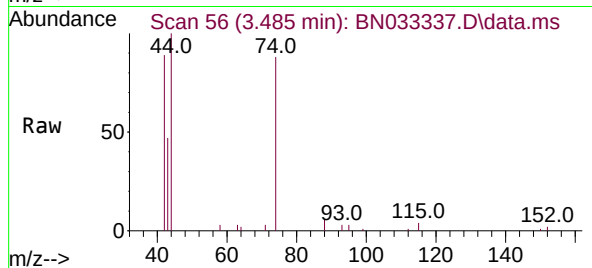




#3
n-Nitrosodimethylamine
Concen: 0.876 ng
RT: 3.485 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

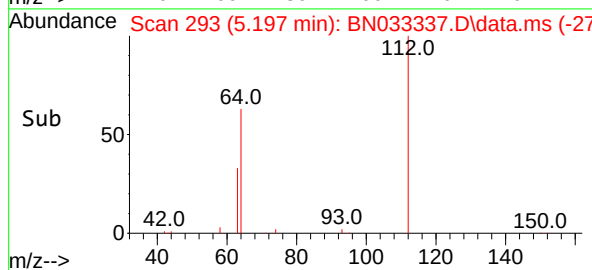
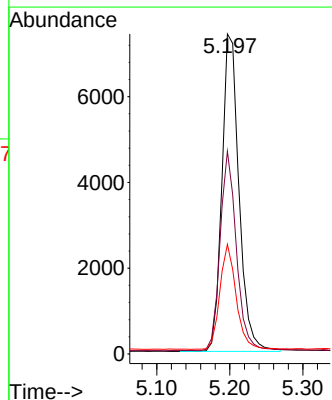
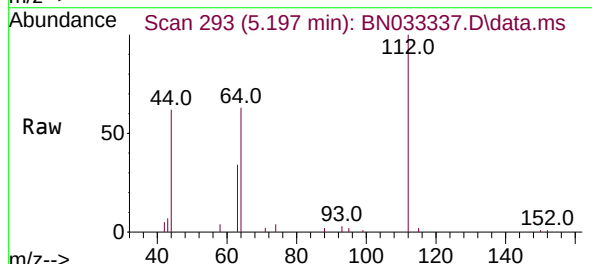
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

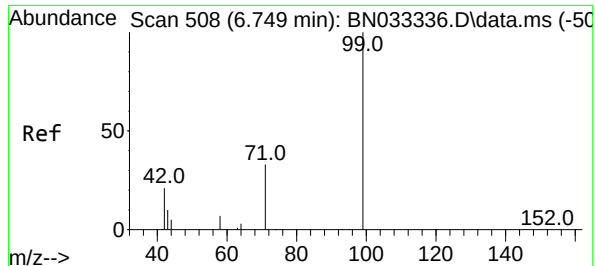
Tgt Ion: 42 Resp: 6543
Ion Ratio Lower Upper
42 100
74 108.9 89.0 133.6
44 10.0 11.0 16.4#



#4
2-Fluorophenol
Concen: 0.861 ng
RT: 5.197 min Scan# 293
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

Tgt Ion: 112 Resp: 12024
Ion Ratio Lower Upper
112 100
64 59.7 48.1 72.1
63 31.5 25.4 38.2





#5

Phenol-d6

Concen: 0.847 ng

RT: 6.749 min Scan# 508

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

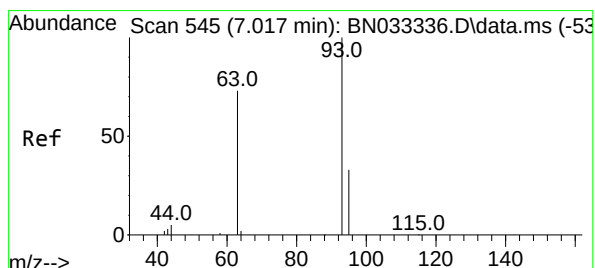
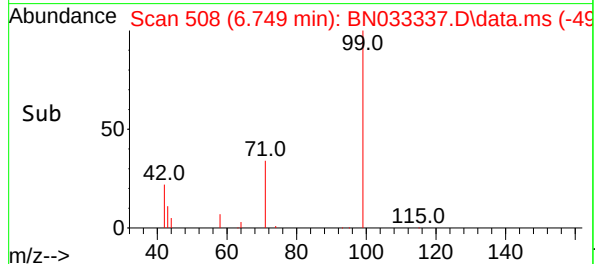
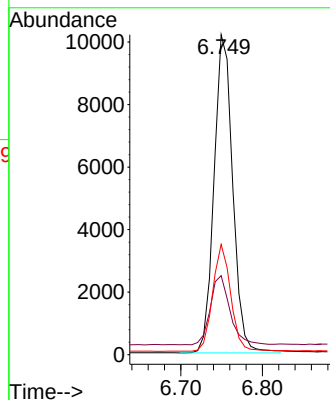
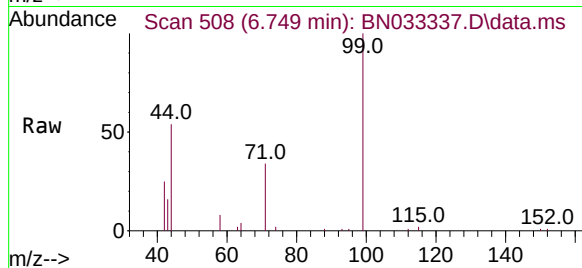
Tgt Ion: 99 Resp: 16163

Ion Ratio Lower Upper

99 100

42 22.9 18.5 27.7

71 32.3 26.2 39.2



#6

bis(2-Chloroethyl)ether

Concen: 0.832 ng

RT: 7.017 min Scan# 545

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

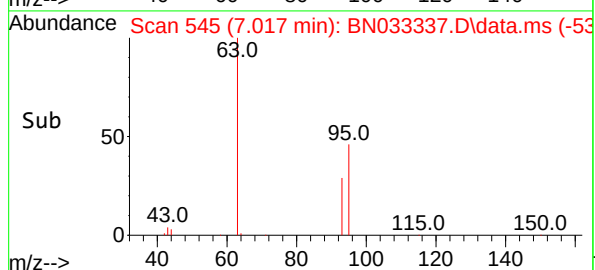
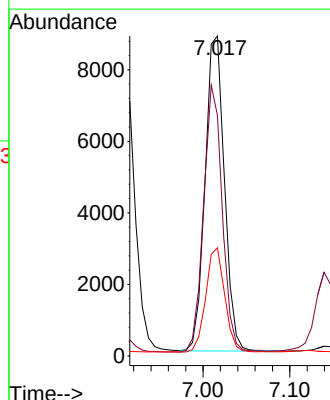
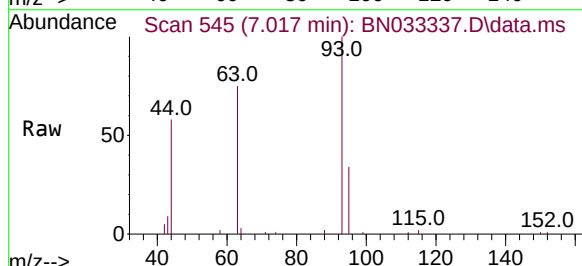
Tgt Ion: 93 Resp: 13587

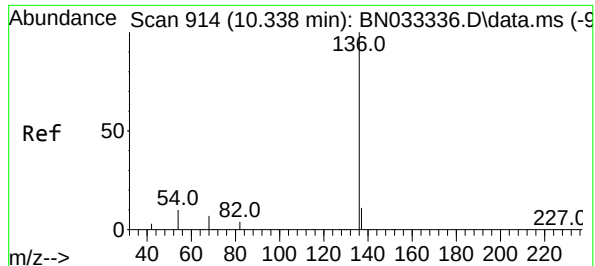
Ion Ratio Lower Upper

93 100

63 82.0 65.2 97.8

95 32.5 26.2 39.4

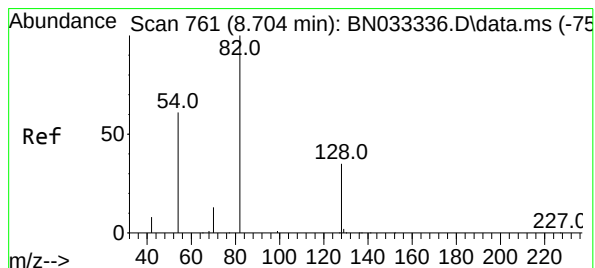
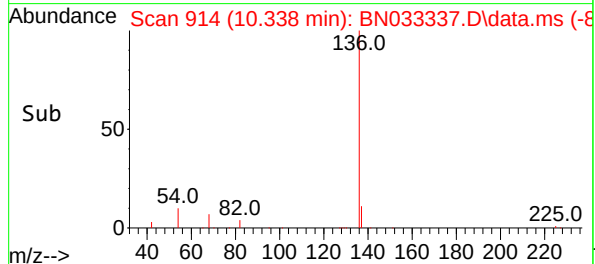
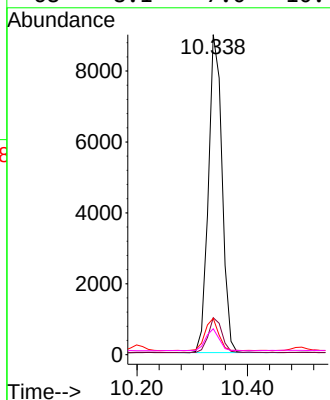
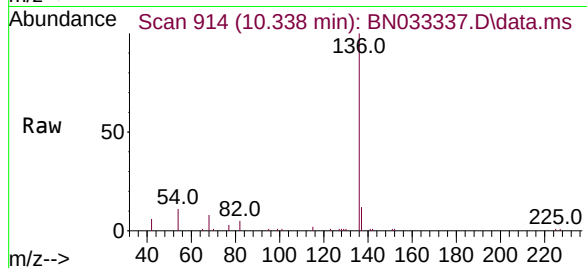




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.338 min Scan# 914
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

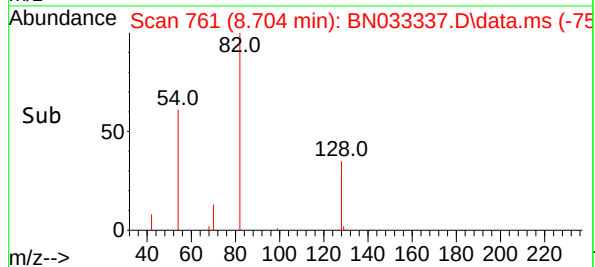
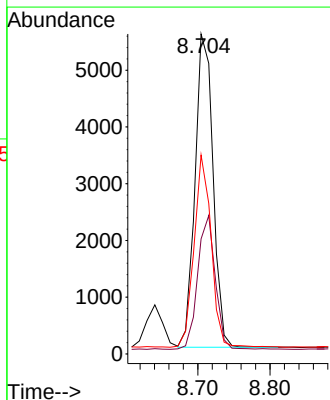
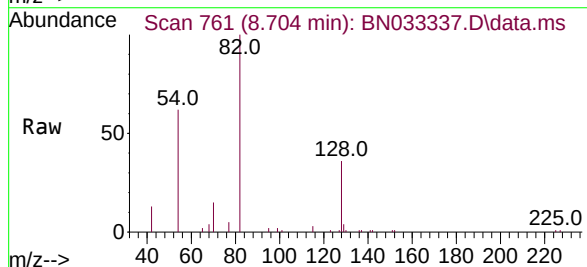
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

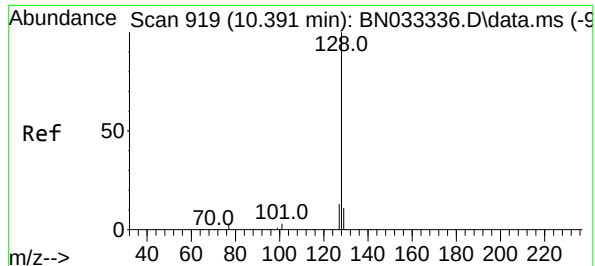
Tgt Ion:	136	Resp:	15421
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	11.4	9.4	14.0
68	8.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 1.016 ng
RT: 8.704 min Scan# 761
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

Tgt Ion:	82	Resp:	9562
Ion	Ratio	Lower	Upper
82	100		
128	35.9	29.0	43.4
54	62.2	50.2	75.4





#9
Naphthalene

Concen: 0.831 ng

RT: 10.391 min Scan# 919

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Instrument :

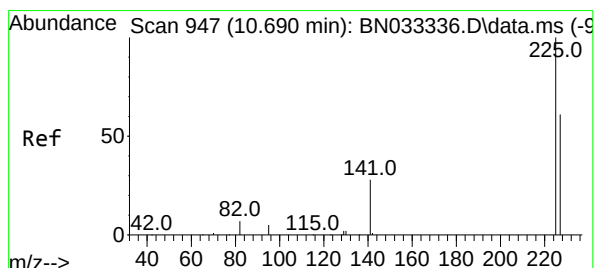
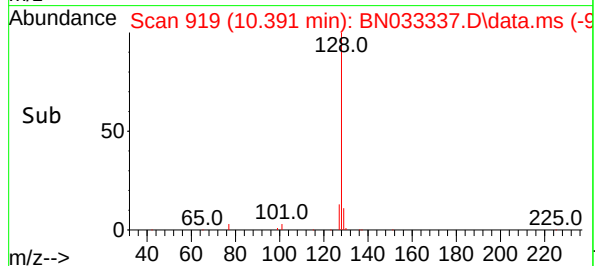
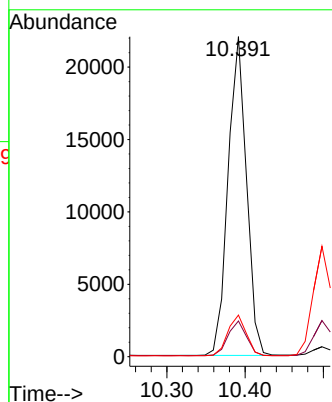
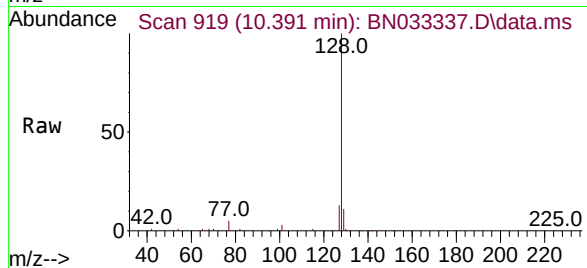
BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion:128 Resp: 35970

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.0	10.6	15.8



#10

Hexachlorobutadiene

Concen: 0.867 ng

RT: 10.690 min Scan# 947

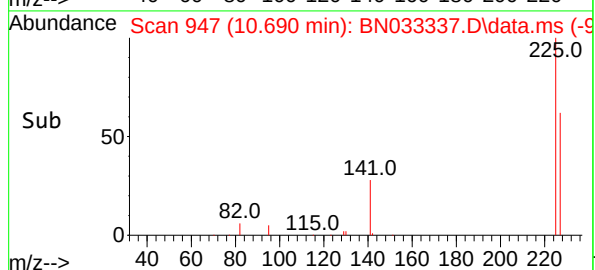
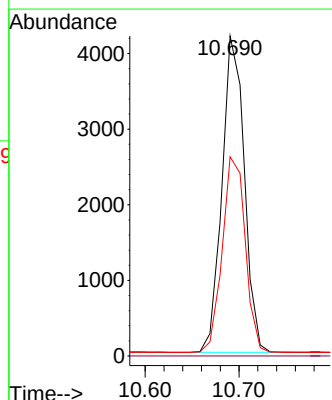
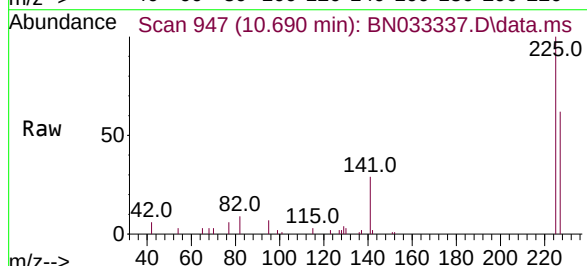
Delta R.T. 0.000 min

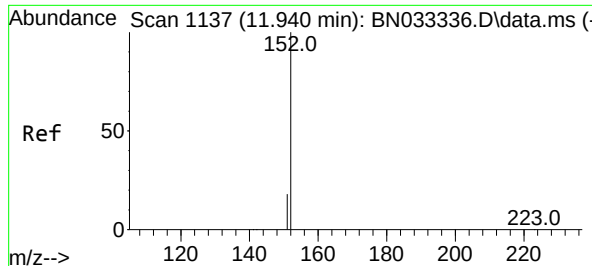
Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Tgt Ion:225 Resp: 6899

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	50.8	76.2

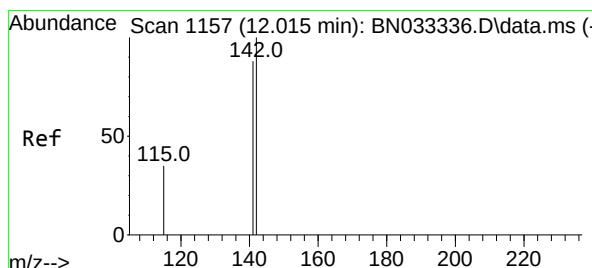
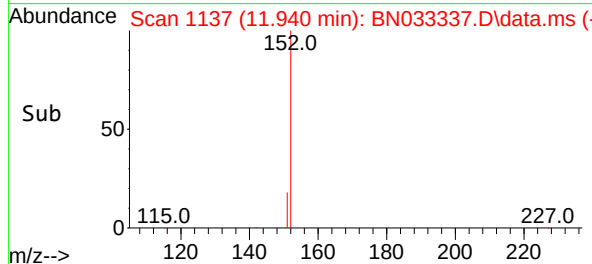
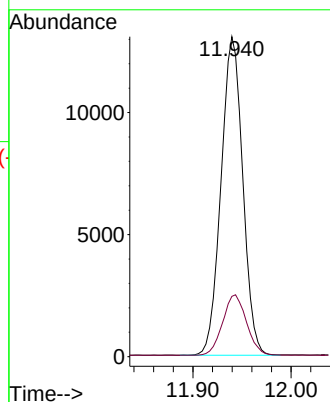
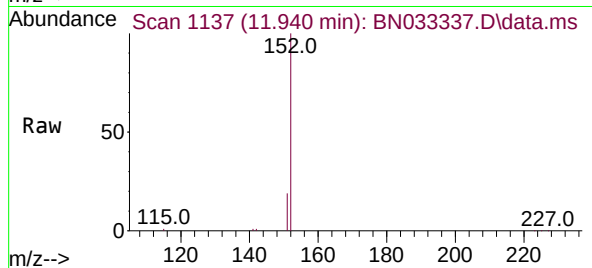




#11
2-Methylnaphthalene-d10
Concen: 0.833 ng
RT: 11.940 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

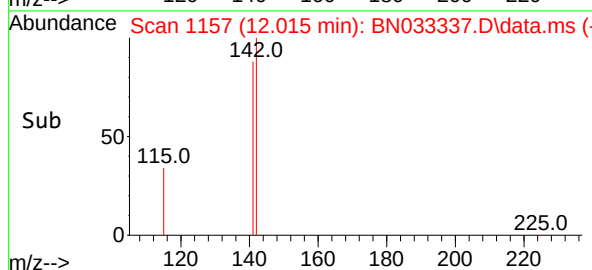
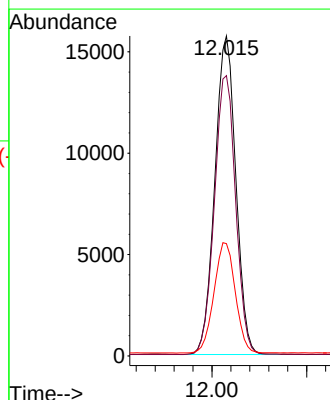
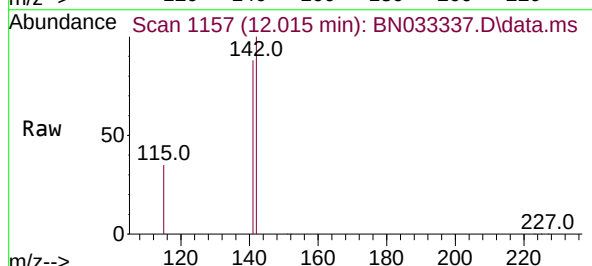
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

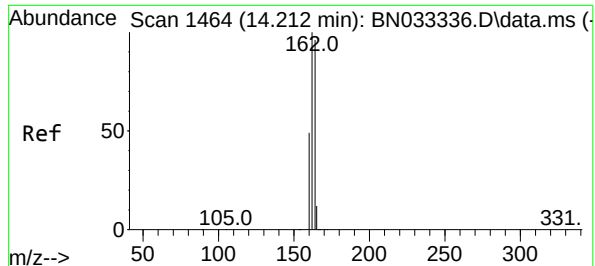
Tgt Ion:152 Resp: 20023
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.810 ng
RT: 12.015 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

Tgt Ion:142 Resp: 24182
Ion Ratio Lower Upper
142 100
141 87.6 70.2 105.4
115 35.1 29.3 43.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.212 min Scan# 1464

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

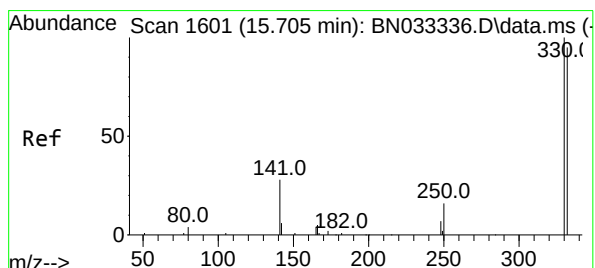
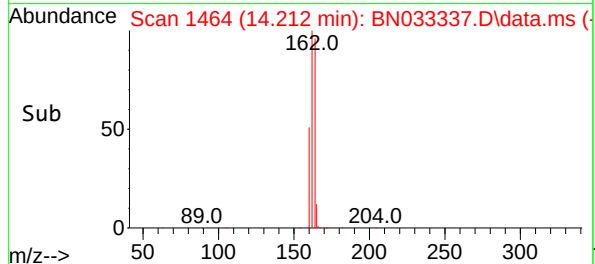
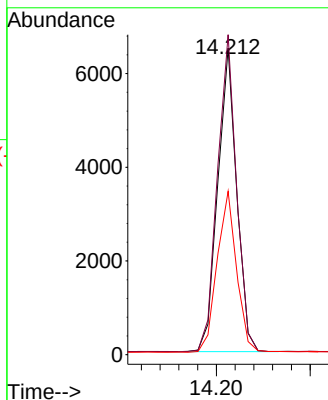
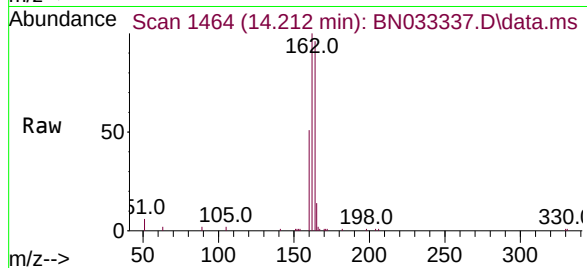
Tgt Ion:164 Resp: 9099

Ion Ratio Lower Upper

164 100

162 104.4 83.1 124.7

160 53.3 41.1 61.7



#14

2,4,6-Tribromophenol

Concen: 1.021 ng

RT: 15.705 min Scan# 1601

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

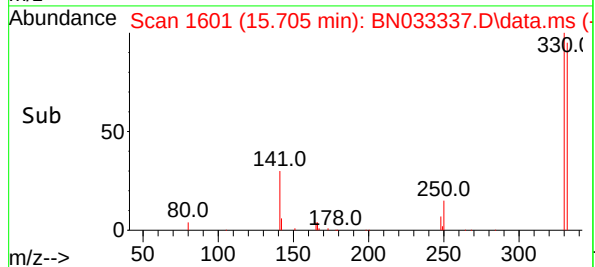
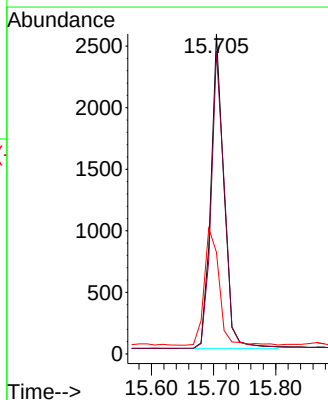
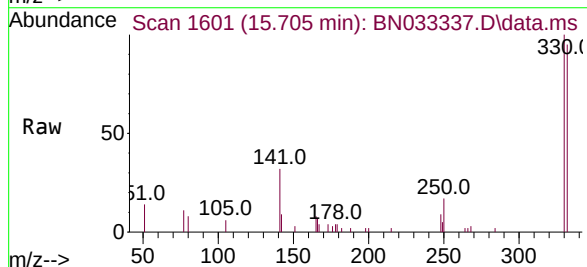
Tgt Ion:330 Resp: 3760

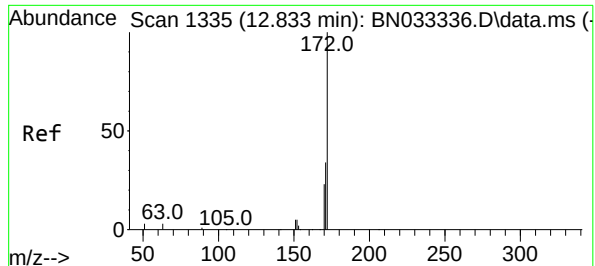
Ion Ratio Lower Upper

330 100

332 96.1 77.1 115.7

141 41.8 33.4 50.0

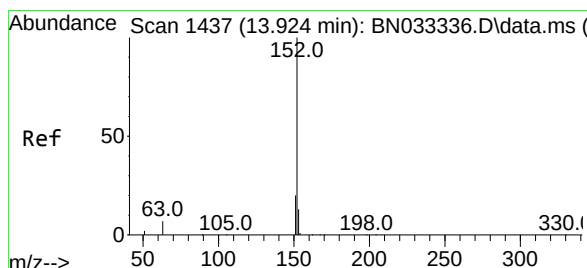
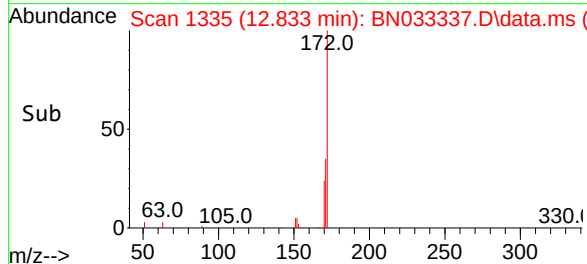
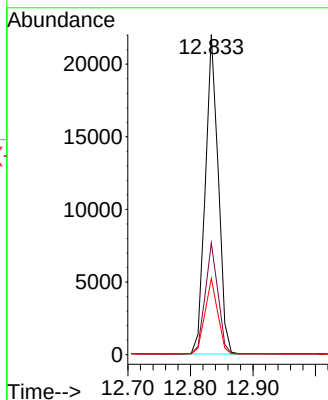
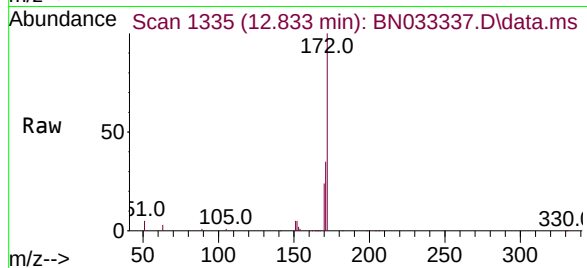




#15
2-Fluorobiphenyl
Concen: 0.918 ng
RT: 12.833 min Scan# 1335
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

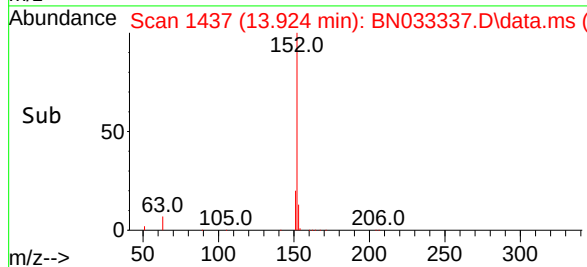
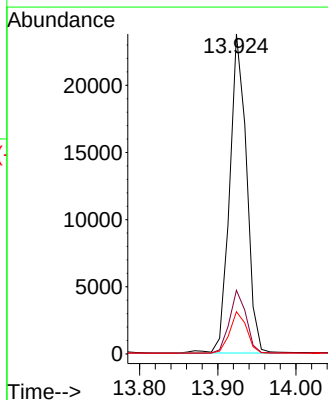
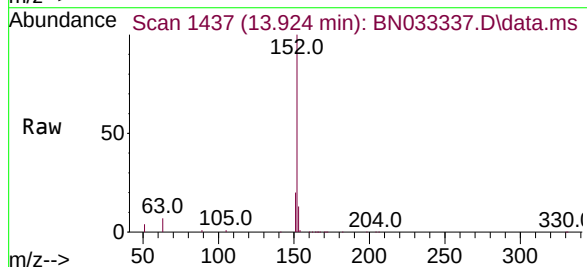
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

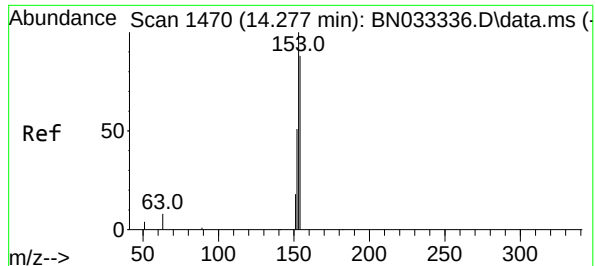
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	27.8	41.8
170	23.8	18.7	28.1



#16
Acenaphthylene
Concen: 0.803 ng
RT: 13.924 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.7	23.5
153	13.0	10.4	15.6





#17

Acenaphthene

Concen: 0.868 ng

RT: 14.277 min Scan# 1470

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

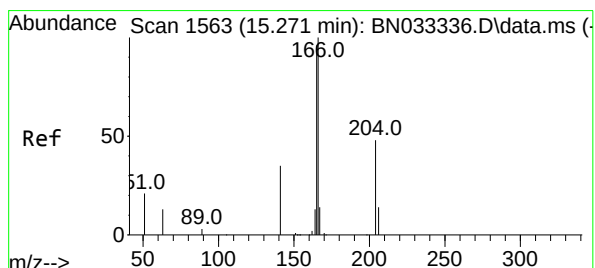
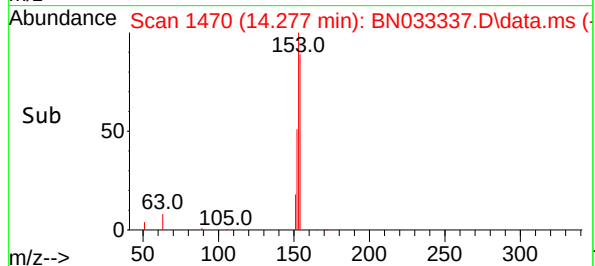
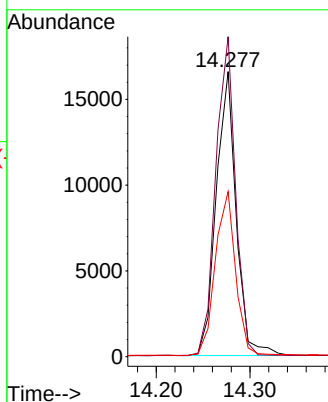
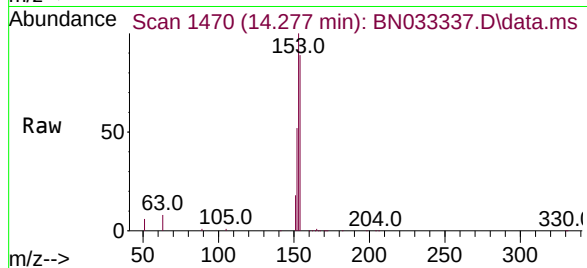
Tgt Ion:154 Resp: 24476

Ion Ratio Lower Upper

154 100

153 110.8 89.7 134.5

152 58.4 47.2 70.8



#18

Fluorene

Concen: 0.860 ng

RT: 15.271 min Scan# 1563

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

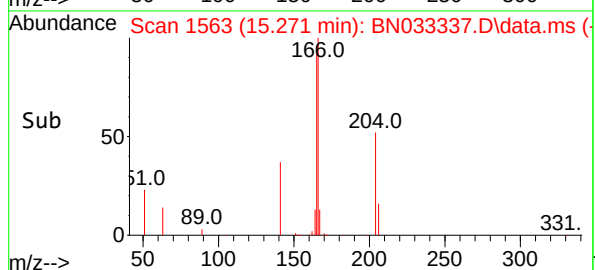
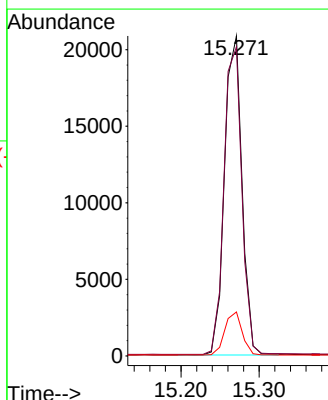
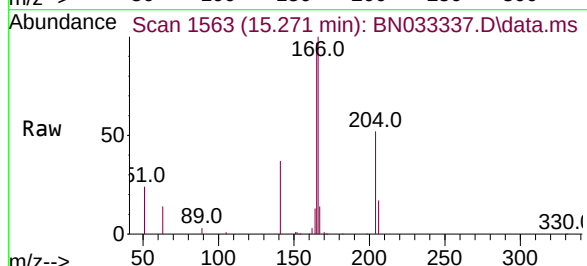
Tgt Ion:166 Resp: 32375

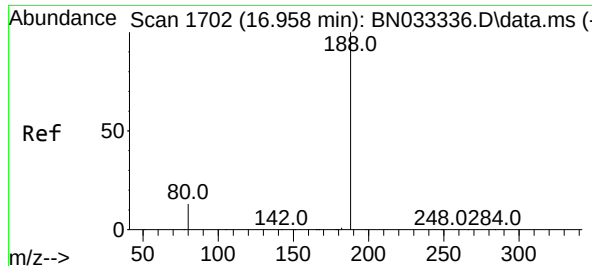
Ion Ratio Lower Upper

166 100

165 98.6 78.0 117.0

167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.958 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

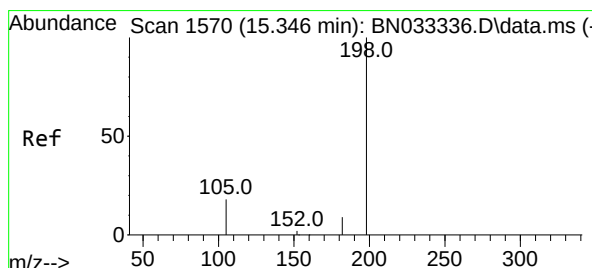
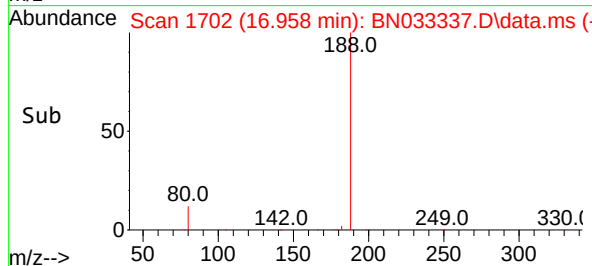
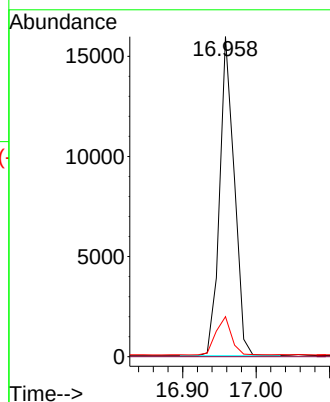
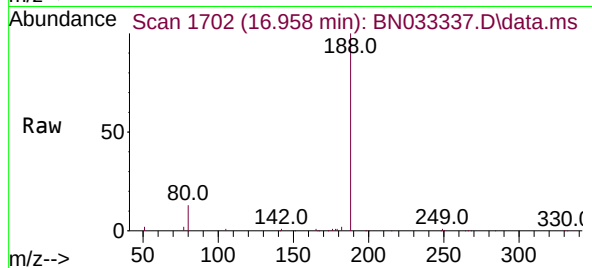
Tgt Ion:188 Resp: 22071

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.5 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 1.345 ng

RT: 15.335 min Scan# 1569

Delta R.T. -0.011 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

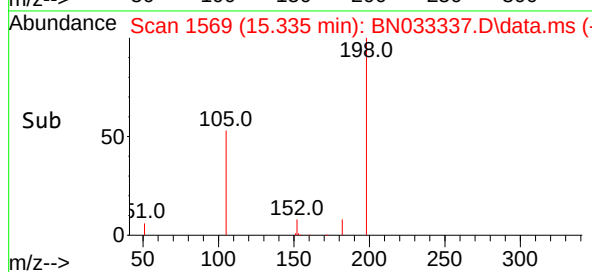
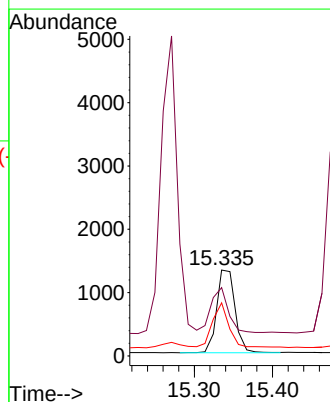
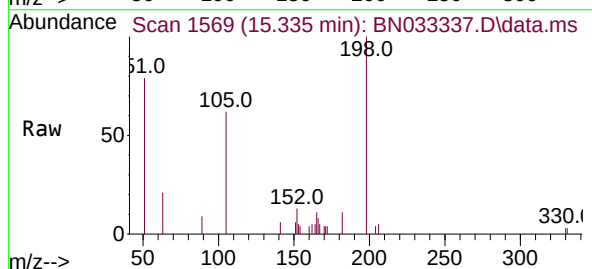
Tgt Ion:198 Resp: 2122

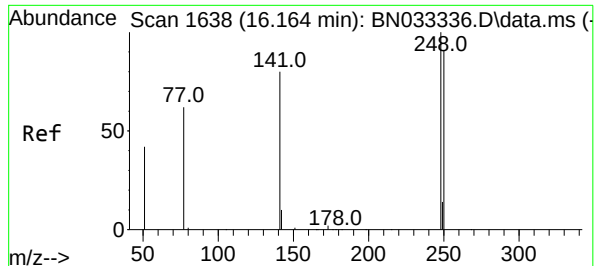
Ion Ratio Lower Upper

198 100

51 79.4 62.8 94.2

105 61.8 34.1 51.1#

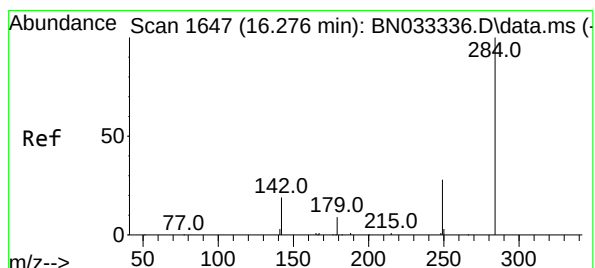
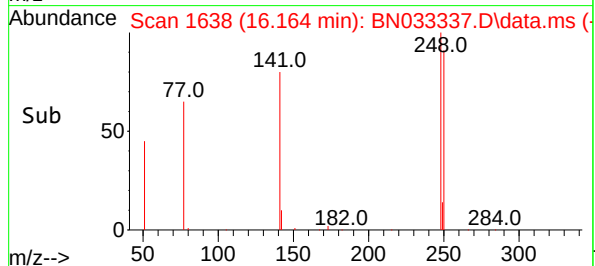
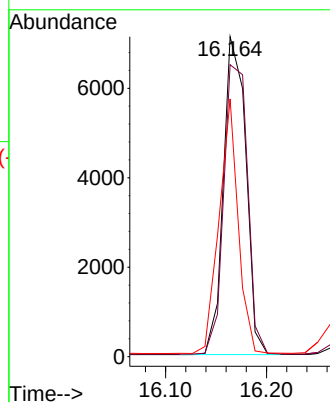
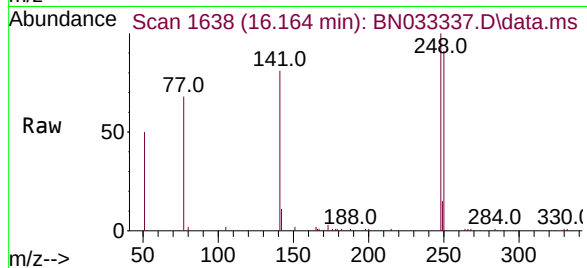




#21
4-Bromophenyl-phenylether
Concen: 0.821 ng
RT: 16.164 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

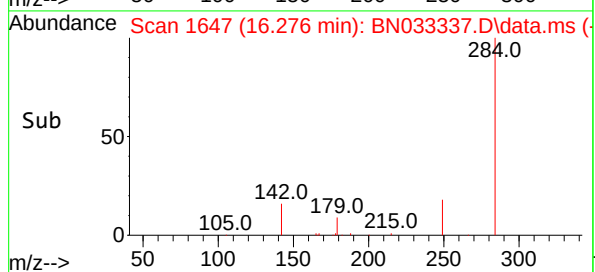
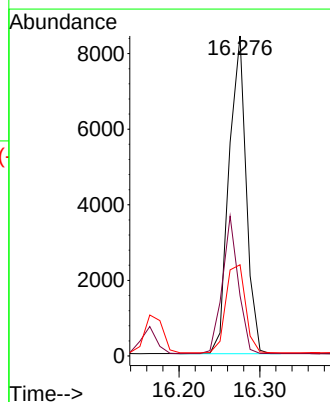
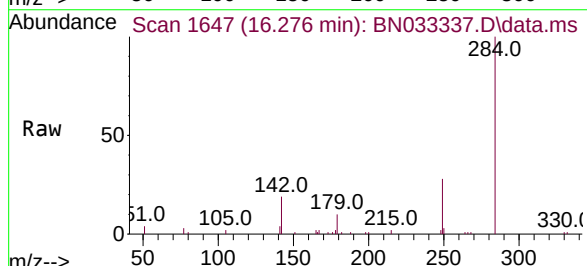
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

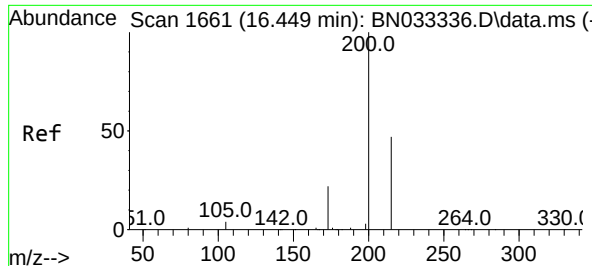
Tgt Ion	Ratio	Lower	Upper
248	100		
250	91.2	73.0	109.4
141	80.5	64.6	96.8



#22
Hexachlorobenzene
Concen: 0.885 ng
RT: 16.276 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.3	32.2	48.4
249	31.8	25.3	37.9

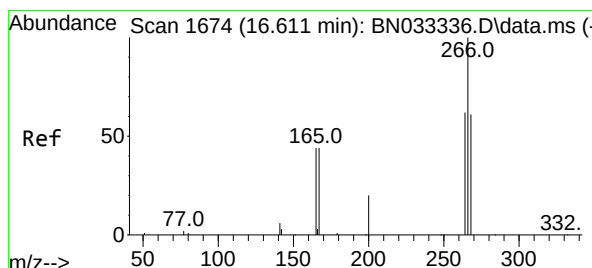
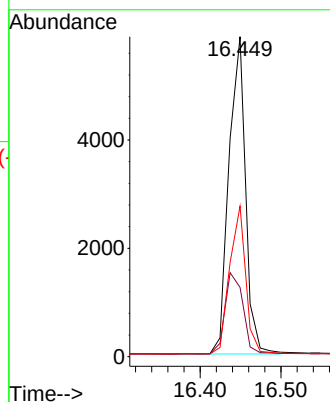
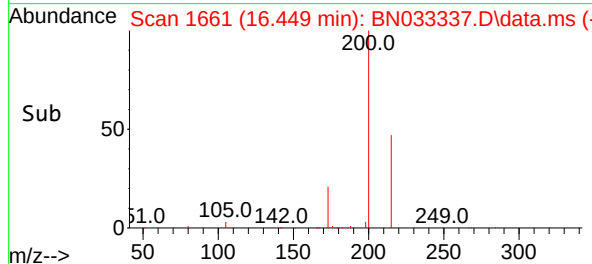
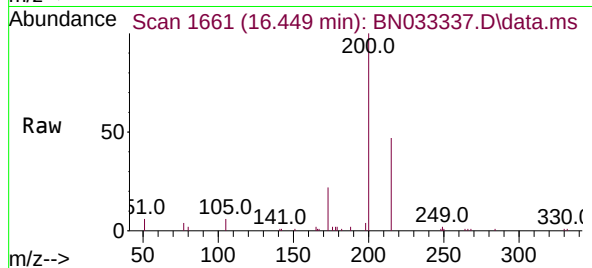




#23
Atrazine
Concen: 0.758 ng
RT: 16.449 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

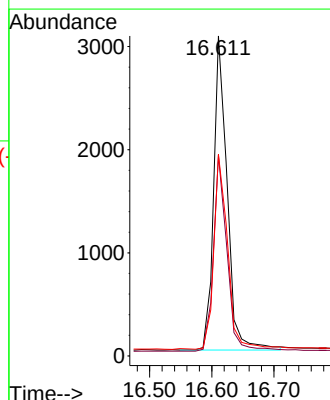
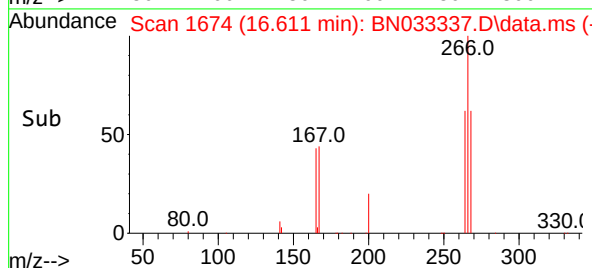
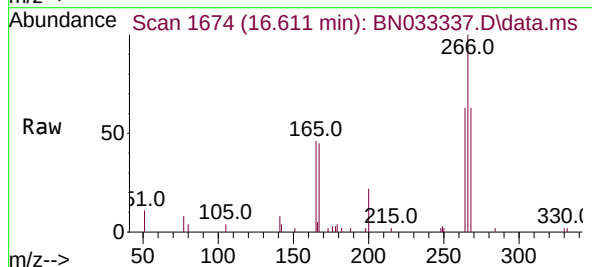
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

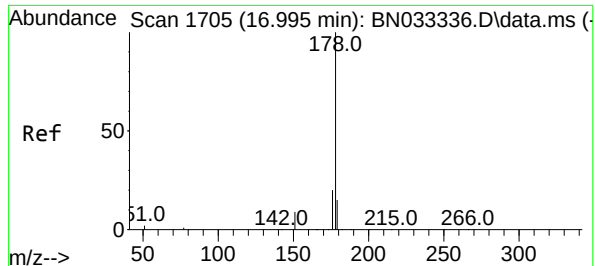
Tgt Ion	Ratio	Lower	Upper
200	100		
173	21.6	18.7	28.1
215	47.1	38.6	58.0



#24
Pentachlorophenol
Concen: 0.935 ng
RT: 16.611 min Scan# 1674
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.1	49.2	73.8
268	63.9	51.2	76.8

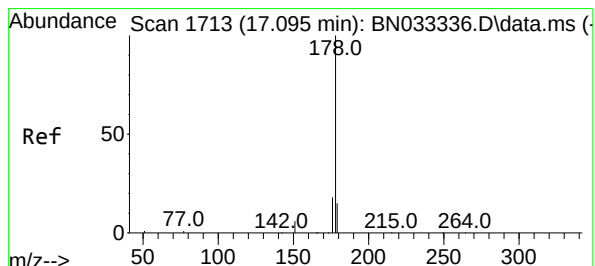
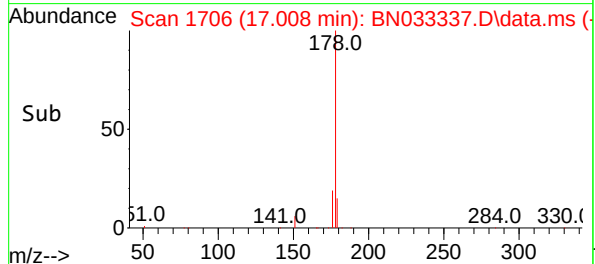
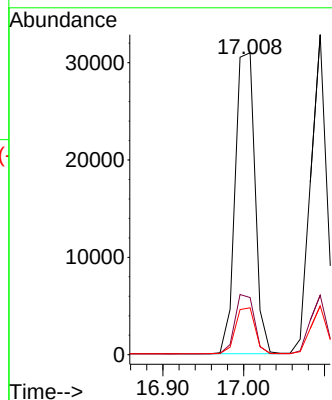
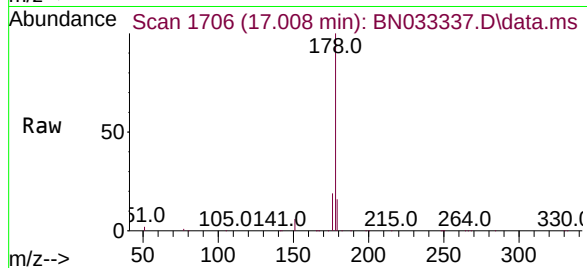




#25
Phenanthrene
Concen: 0.825 ng
RT: 17.008 min Scan# 1706
Delta R.T. 0.012 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

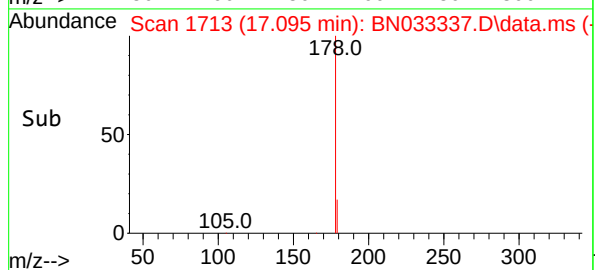
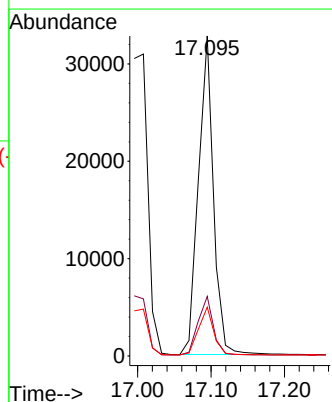
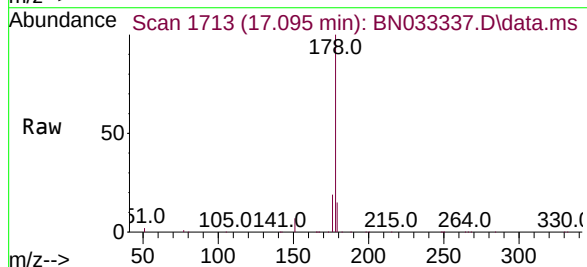
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

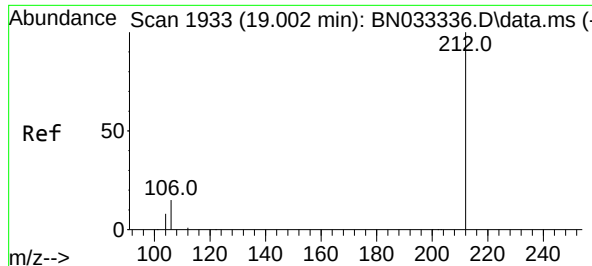
Tgt Ion:178 Resp: 52730
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.1 12.2 18.2



#26
Anthracene
Concen: 0.750 ng
RT: 17.095 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

Tgt Ion:178 Resp: 46566
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.798 ng

RT: 19.002 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

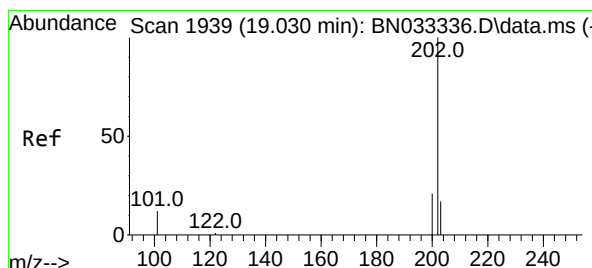
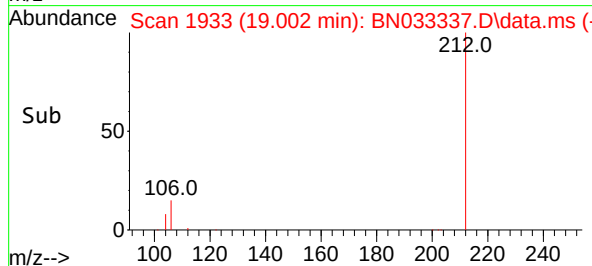
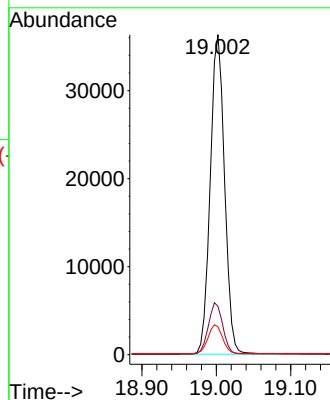
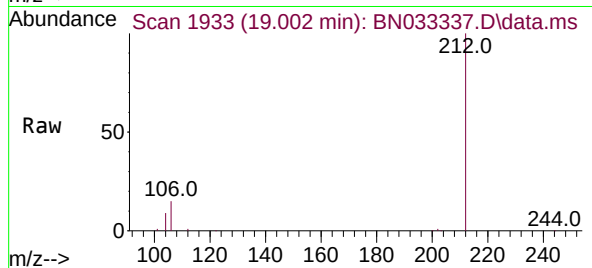
Tgt Ion:212 Resp: 48436

Ion Ratio Lower Upper

212 100

106 16.1 12.8 19.2

104 9.2 7.1 10.7



#28

Fluoranthene

Concen: 0.815 ng

RT: 19.030 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

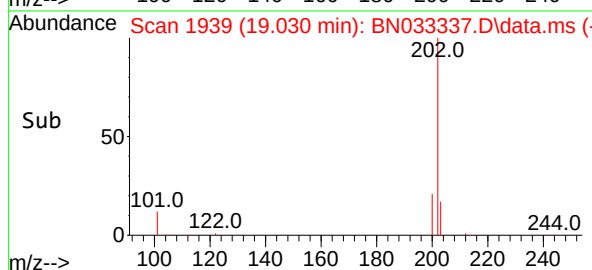
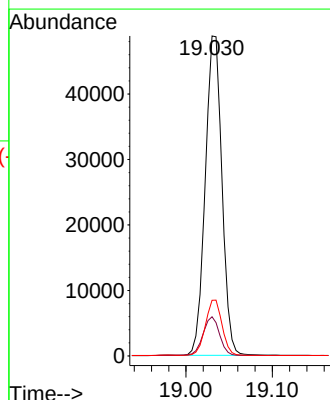
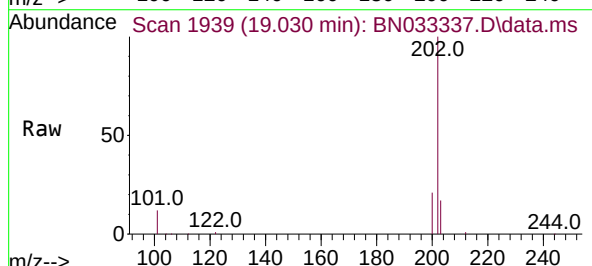
Tgt Ion:202 Resp: 65620

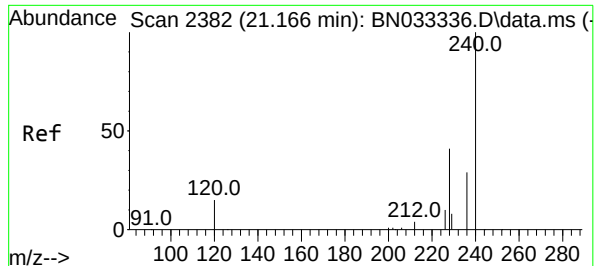
Ion Ratio Lower Upper

202 100

101 12.2 9.8 14.6

203 17.3 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.166 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

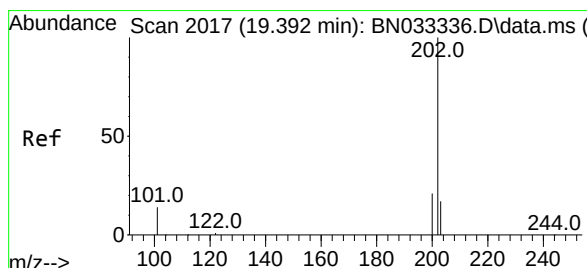
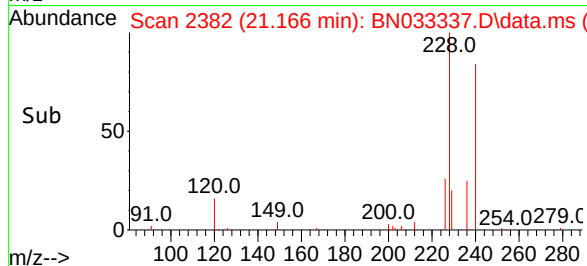
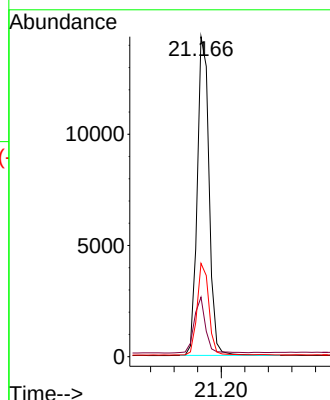
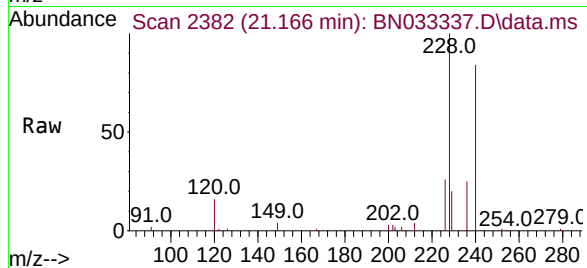
Tgt Ion:240 Resp: 19976

Ion Ratio Lower Upper

240 100

120 18.6 13.0 19.6

236 29.1 23.2 34.8



#30

Pyrene

Concen: 0.846 ng

RT: 19.392 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

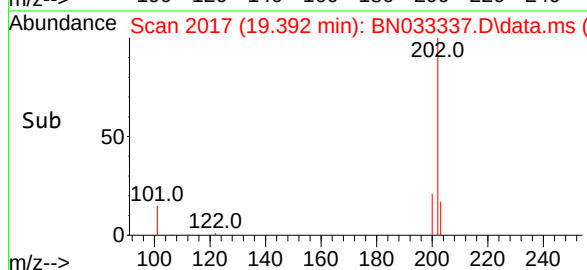
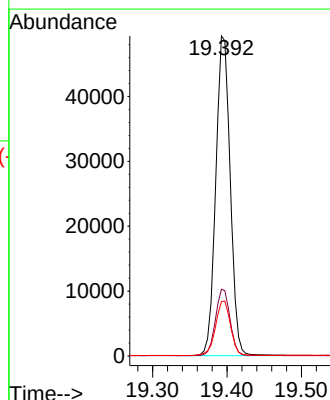
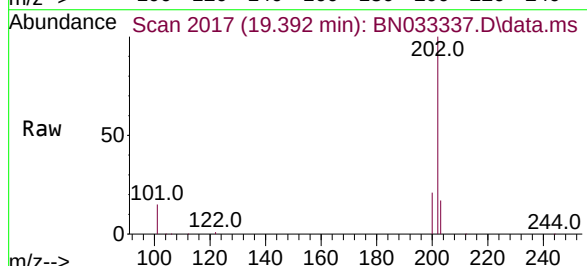
Tgt Ion:202 Resp: 66456

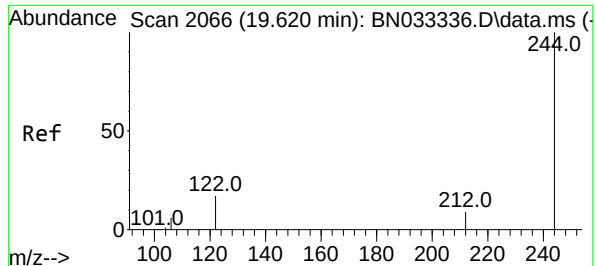
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.7 14.2 21.4

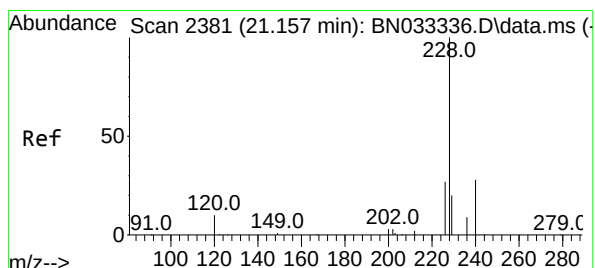
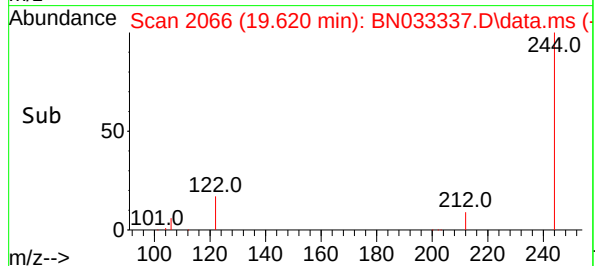
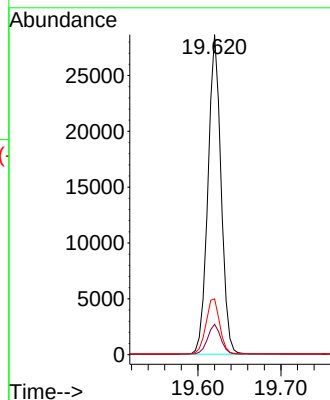
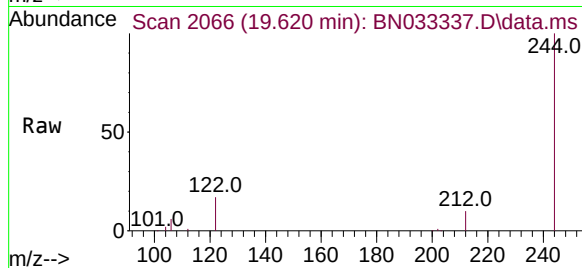




#31
Terphenyl-d14
Concen: 0.910 ng
RT: 19.620 min Scan# 2066
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

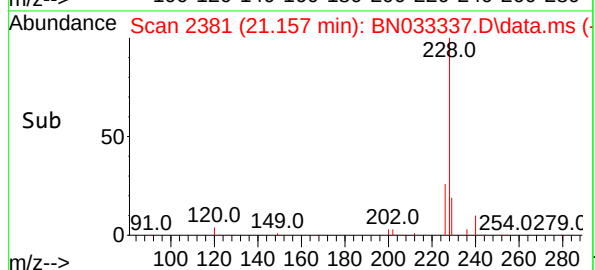
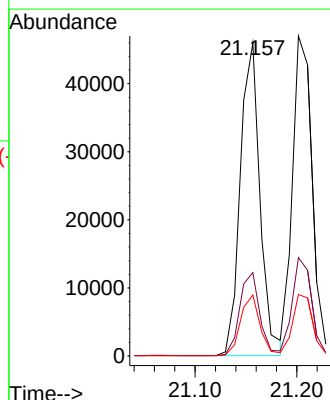
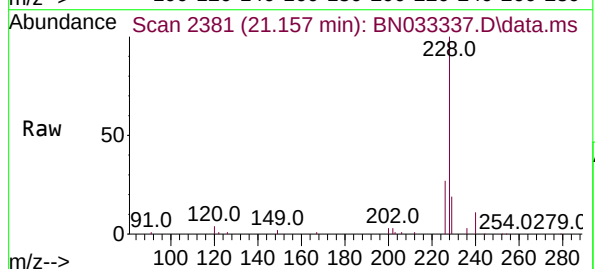
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

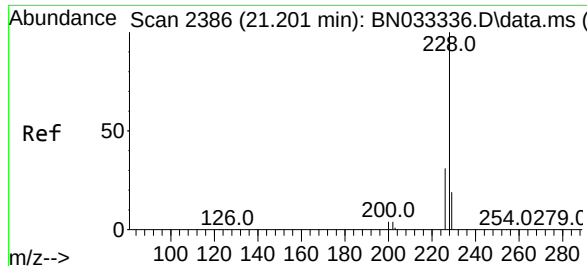
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.7	11.5
122	17.5	14.0	21.0



#32
Benzo(a)anthracene
Concen: 0.798 ng
RT: 21.157 min Scan# 2381
Delta R.T. 0.000 min
Lab File: BN033337.D
Acq: 10 Aug 2024 15:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.6	32.4
229	19.5	15.9	23.9





#33

Chrysene

Concen: 0.837 ng

RT: 21.201 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

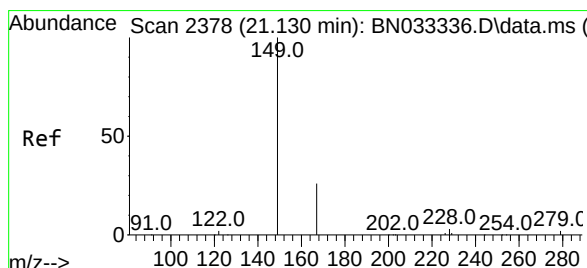
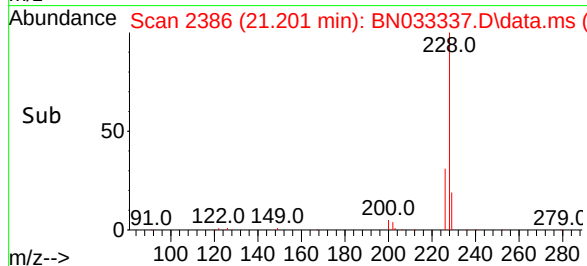
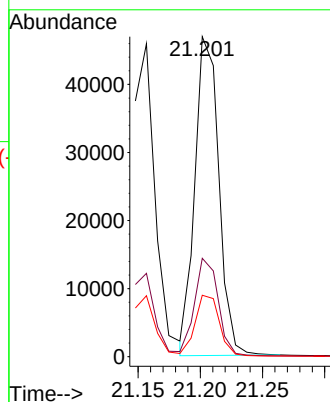
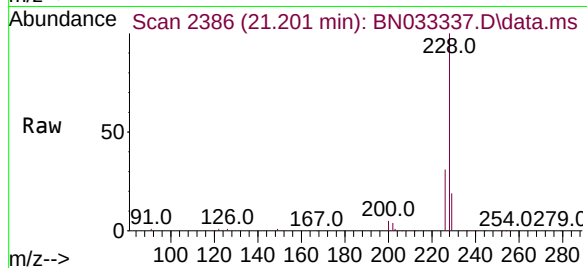
Tgt Ion:228 Resp: 62851

Ion Ratio Lower Upper

228 100

226 30.7 24.7 37.1

229 19.2 15.4 23.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.630 ng

RT: 21.130 min Scan# 2378

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

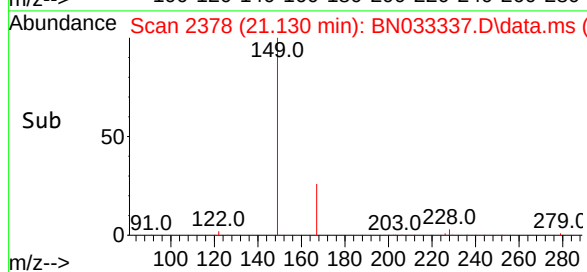
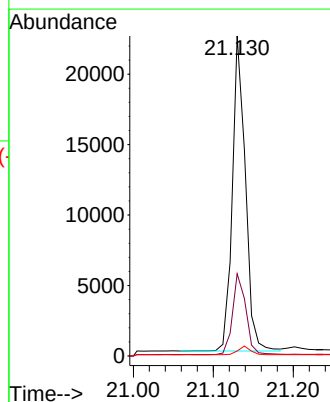
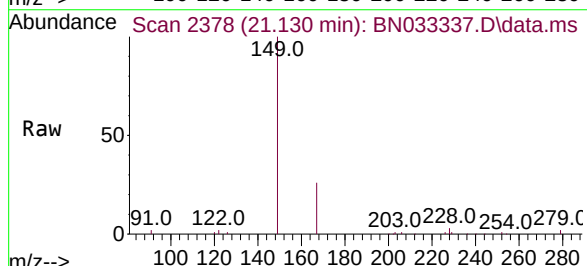
Tgt Ion:149 Resp: 25330

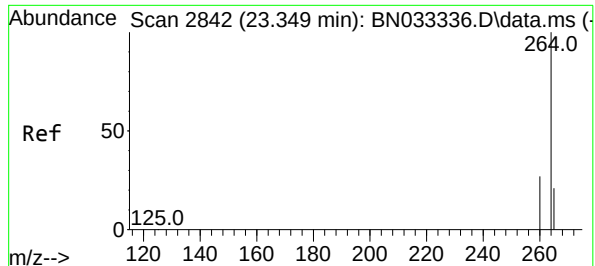
Ion Ratio Lower Upper

149 100

167 26.1 20.9 31.3

279 2.7 2.2 3.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.355 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

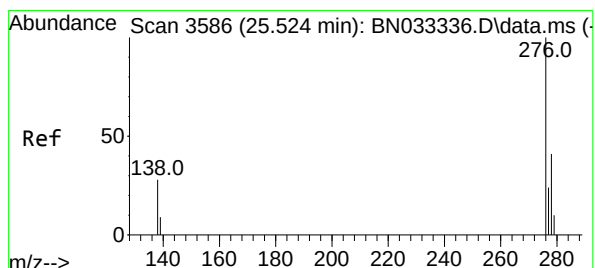
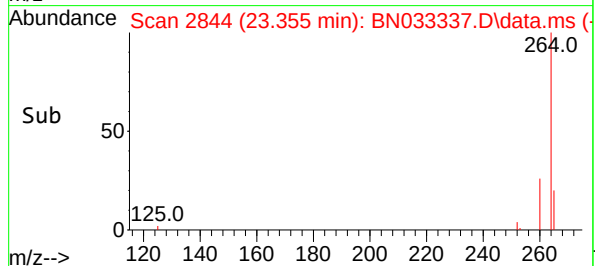
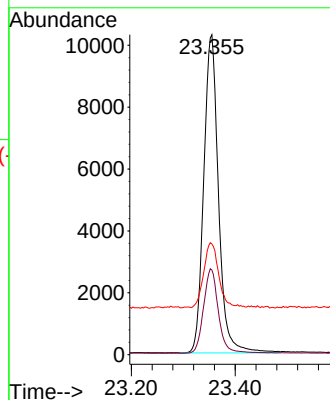
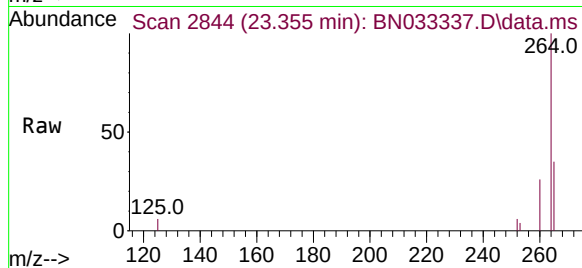
Tgt Ion:264 Resp: 20307

Ion Ratio Lower Upper

264 100

260 26.5 21.6 32.4

265 34.6 29.3 43.9



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.781 ng

RT: 25.533 min Scan# 3589

Delta R.T. 0.009 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

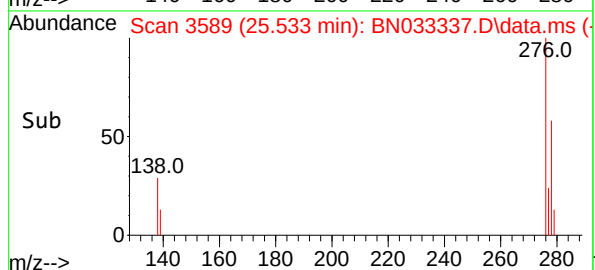
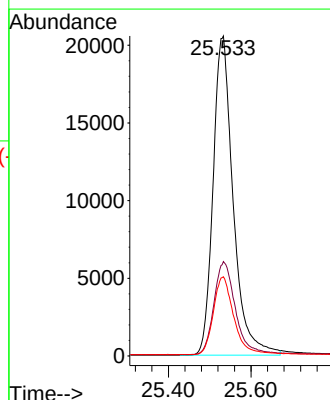
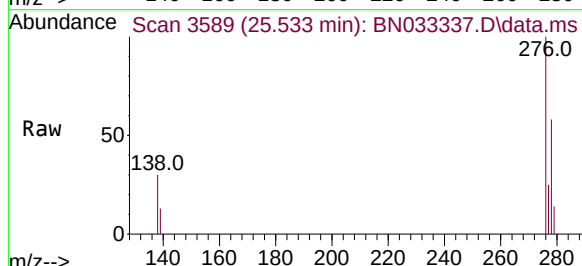
Tgt Ion:276 Resp: 69404

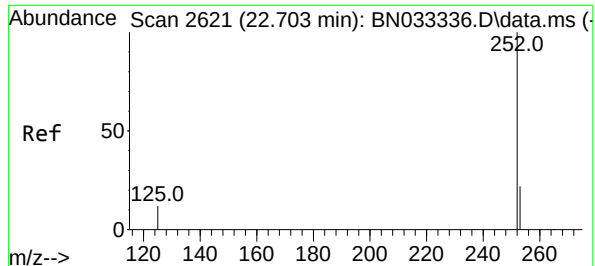
Ion Ratio Lower Upper

276 100

138 31.1 24.9 37.3

277 25.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.856 ng

RT: 22.703 min Scan# 2621

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

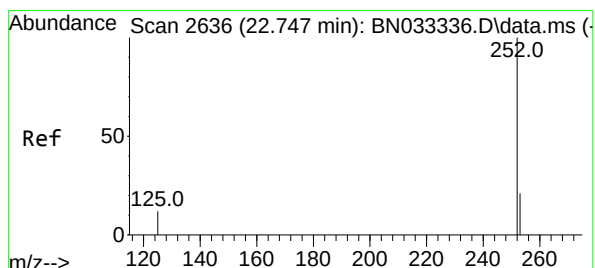
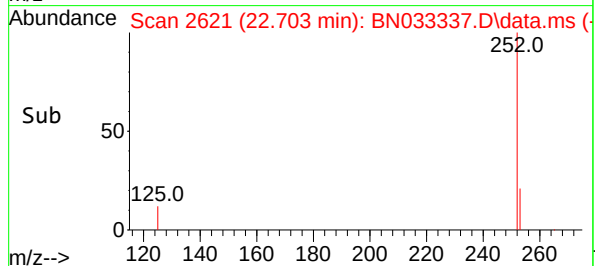
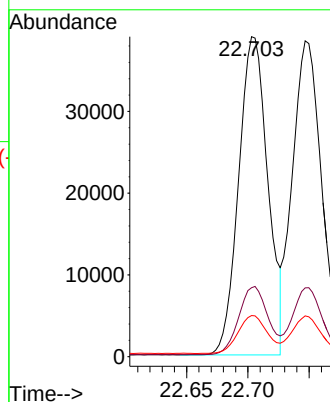
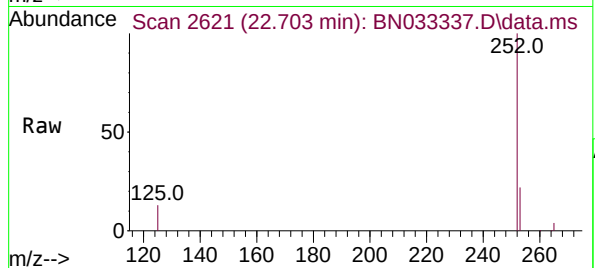
Tgt Ion:252 Resp: 64613

Ion Ratio Lower Upper

252 100

253 21.5 18.2 27.2

125 12.9 11.3 16.9



#38

Benzo(k)fluoranthene

Concen: 0.907 ng

RT: 22.747 min Scan# 2636

Delta R.T. 0.000 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

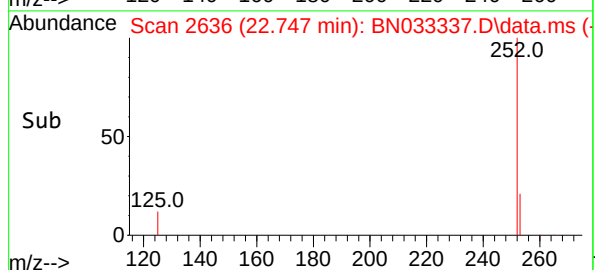
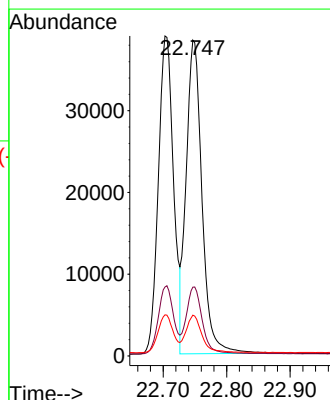
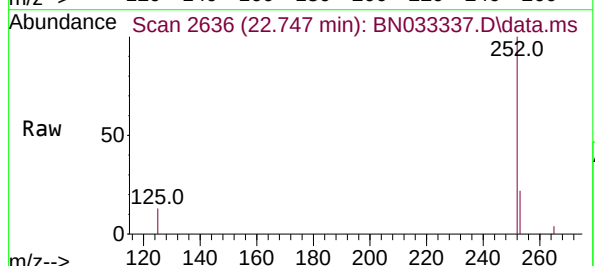
Tgt Ion:252 Resp: 66465

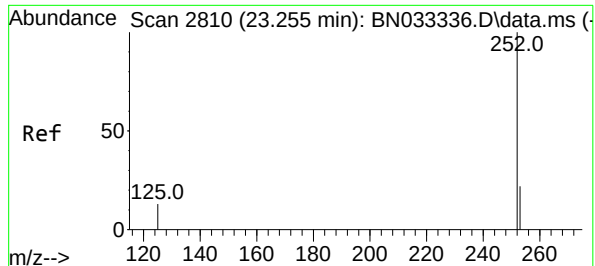
Ion Ratio Lower Upper

252 100

253 21.8 17.9 26.9

125 12.9 11.3 16.9





#39

Benzo(a)pyrene

Concen: 0.798 ng

RT: 23.258 min Scan# 2

Delta R.T. 0.003 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

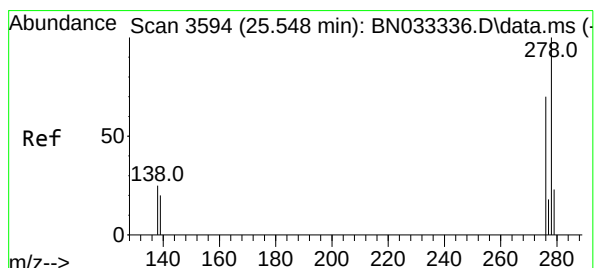
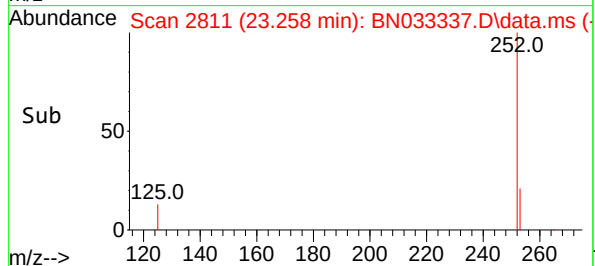
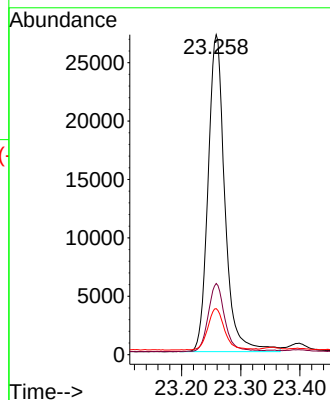
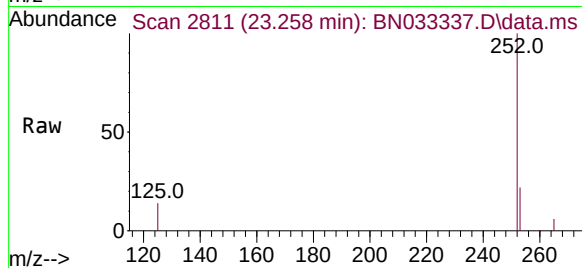
Tgt Ion:252 Resp: 53519

Ion Ratio Lower Upper

252 100

253 22.2 18.6 28.0

125 14.4 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.791 ng

RT: 25.551 min Scan# 3595

Delta R.T. 0.003 min

Lab File: BN033337.D

Acq: 10 Aug 2024 15:29

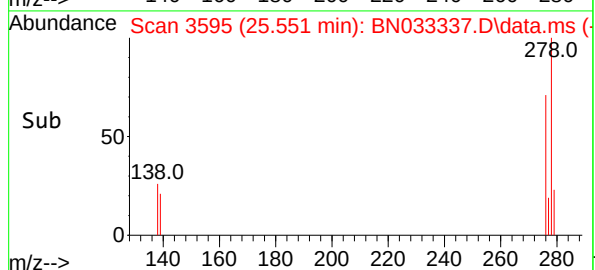
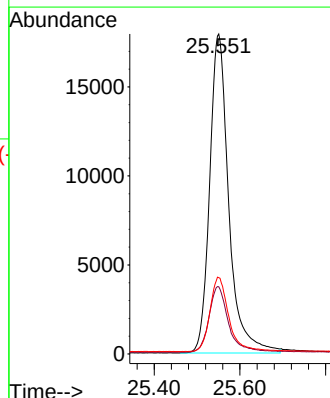
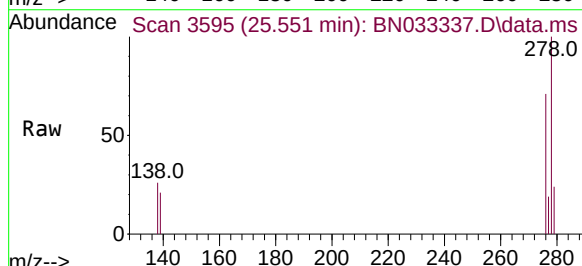
Tgt Ion:278 Resp: 55489

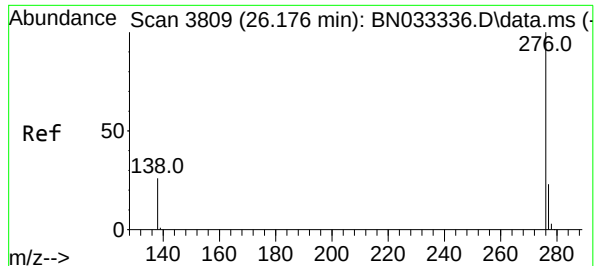
Ion Ratio Lower Upper

278 100

139 21.0 17.0 25.6

279 23.8 20.0 30.0





#41

Benzo(g,h,i)perylene

Concen: 0.798 ng

RT: 26.185 min Scan# 3812

Delta R.T. 0.009 min

Lab File: BN033337.D

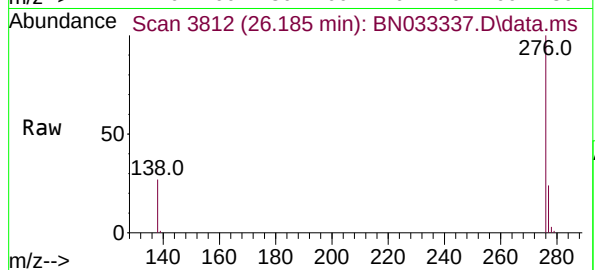
Acq: 10 Aug 2024 15:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



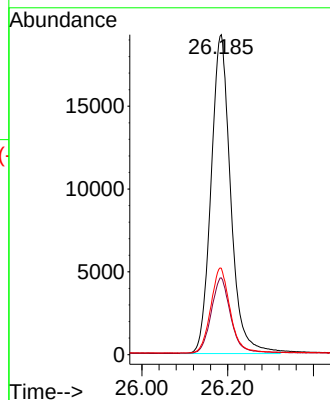
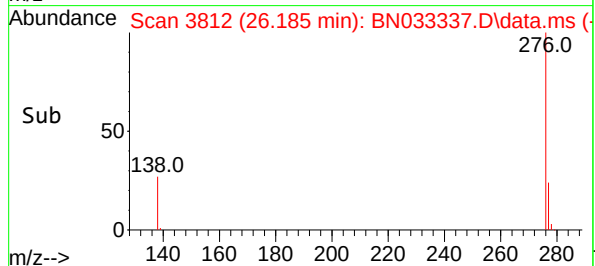
Tgt Ion:276 Resp: 60937

Ion Ratio Lower Upper

276 100

277 24.0 19.4 29.2

138 27.0 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
 Data File : BN033338.D
 Acq On : 10 Aug 2024 16:05
 Operator : MA/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Aug 12 01:02:04 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 12 00:59:25 2024
 Response via : Initial Calibration

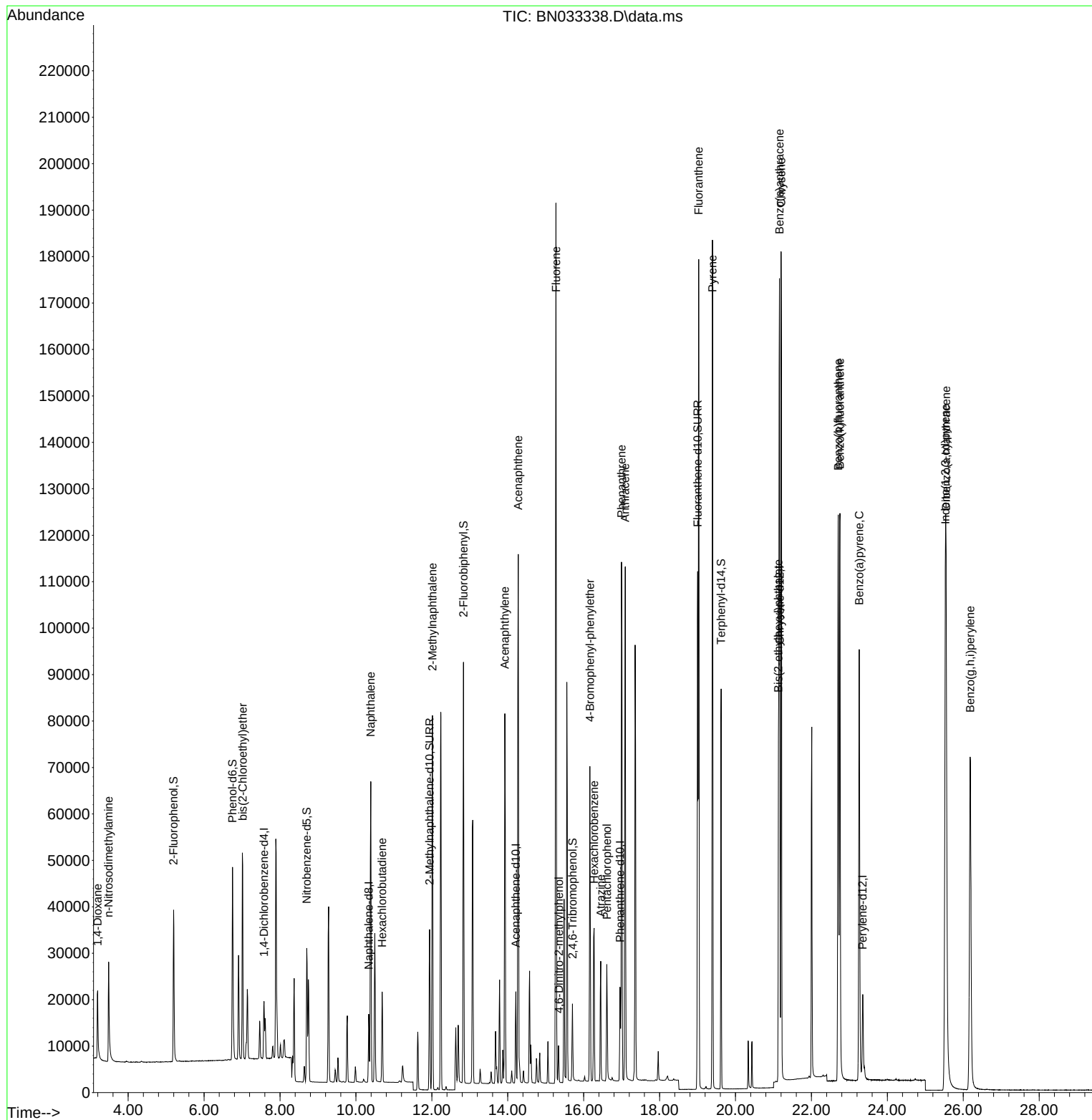
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.580	152	6045	0.400	ng	0.00
7) Naphthalene-d8	10.338	136	17724	0.400	ng	0.00
13) Acenaphthene-d10	14.212	164	10581	0.400	ng	0.00
19) Phenanthrene-d10	16.958	188	25035	0.400	ng	0.00
29) Chrysene-d12	21.166	240	23096	0.400	ng	0.00
35) Perylene-d12	23.352	264	22978	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.197	112	26657	1.675	ng	0.00
5) Phenol-d6	6.750	99	36519	1.679	ng	0.00
8) Nitrobenzene-d5	8.705	82	21957	2.030	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	45445	1.646	ng	0.00
14) 2,4,6-Tribromophenol	15.705	330	8819	2.060	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	71948	1.805	ng	0.00
27) Fluoranthene-d10	19.002	212	111916	1.625	ng	0.00
31) Terphenyl-d14	19.620	244	72394	1.818	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.196	88	10271	1.535	ng	96
3) n-Nitrosodimethylamine	3.485	42	14307	1.681	ng	# 97
6) bis(2-Chloroethyl)ether	7.017	93	30266	1.627	ng	100
9) Naphthalene	10.392	128	81071	1.629	ng	99
10) Hexachlorobutadiene	10.690	225	15382	1.682	ng	# 100
12) 2-Methylnaphthalene	12.015	142	55528	1.619	ng	99
16) Acenaphthylene	13.924	152	83890	1.624	ng	100
17) Acenaphthene	14.277	154	57001	1.739	ng	98
18) Fluorene	15.271	166	76480	1.746	ng	100
20) 4,6-Dinitro-2-methylph...	15.346	198	5244	2.929	ng	# 57
21) 4-Bromophenyl-phenylether	16.164	248	24892	1.638	ng	98
22) Hexachlorobenzene	16.276	284	27991	1.754	ng	100
23) Atrazine	16.449	200	20055	1.598	ng	98
24) Pentachlorophenol	16.611	266	11045	1.974	ng	99
25) Phenanthrene	16.996	178	122295	1.688	ng	100
26) Anthracene	17.095	178	109337	1.552	ng	100
28) Fluoranthene	19.030	202	151193	1.655	ng	100
30) Pyrene	19.393	202	155213	1.708	ng	100
32) Benzo(a)anthracene	21.157	228	144817	1.615	ng	100
33) Chrysene	21.202	228	143765	1.655	ng	100
34) Bis(2-ethylhexyl)phtha...	21.130	149	63394	1.365	ng	100
36) Indeno(1,2,3-cd)pyrene	25.527	276	163370	1.625	ng	100
37) Benzo(b)fluoranthene	22.706	252	147905	1.732	ng	97
38) Benzo(k)fluoranthene	22.750	252	153299	1.848	ng	97
39) Benzo(a)pyrene	23.259	252	125288	1.651	ng	96
40) Dibenzo(a,h)anthracene	25.548	278	129914	1.636	ng	98
41) Benzo(g,h,i)perylene	26.182	276	140930	1.632	ng	99

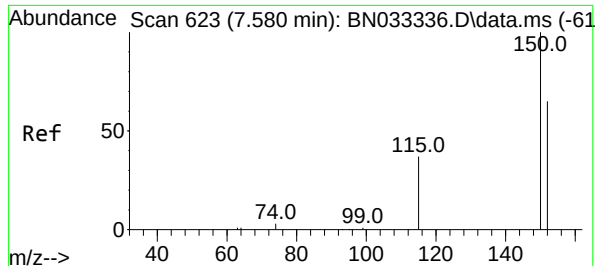
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033338.D
Acq On : 10 Aug 2024 16:05
Operator : MA/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Aug 12 01:02:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 00:59:25 2024
Response via : Initial Calibration

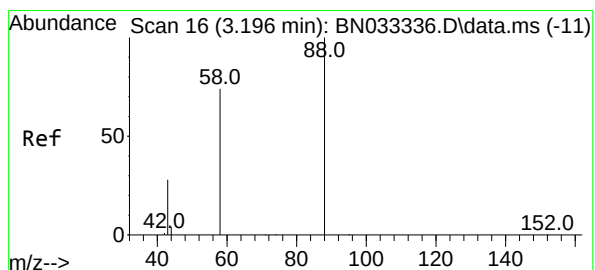
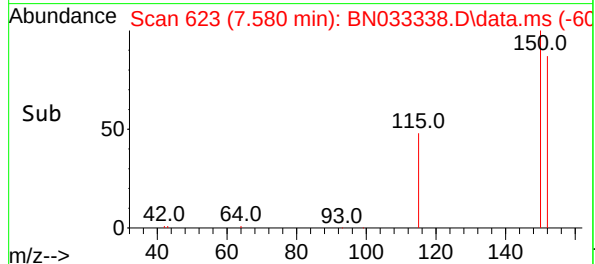
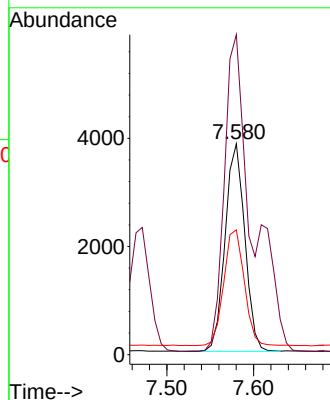
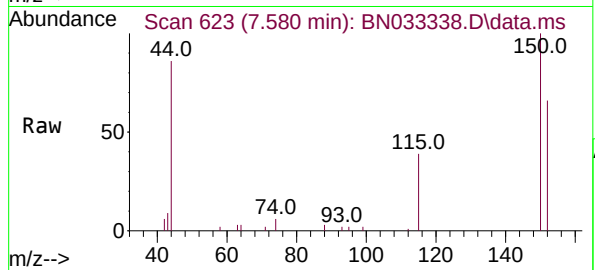




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.580 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

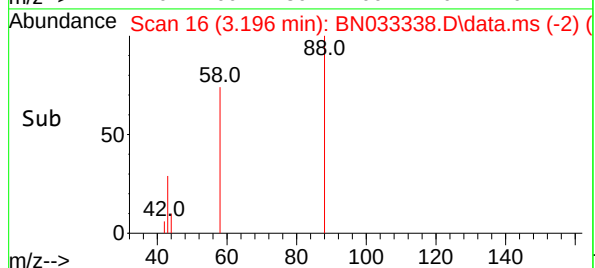
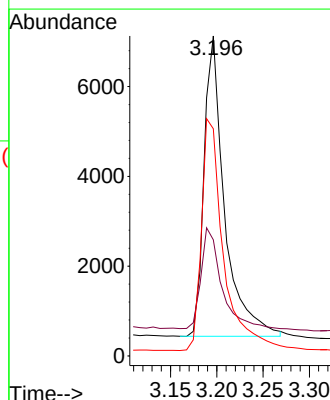
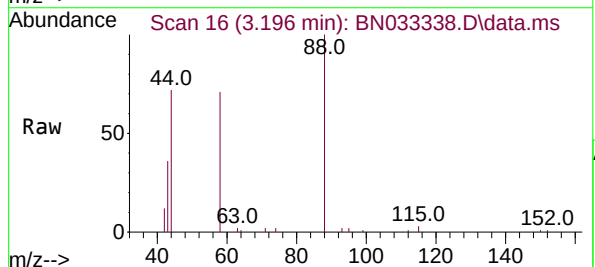
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

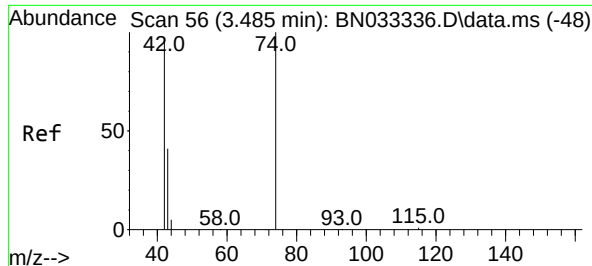
Tgt Ion:152 Resp: 6045
Ion Ratio Lower Upper
152 100
150 151.7 122.3 183.5
115 59.2 48.8 73.2



#2
1,4-Dioxane
Concen: 1.535 ng
RT: 3.196 min Scan# 16
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

Tgt Ion: 88 Resp: 10271
Ion Ratio Lower Upper
88 100
43 33.5 30.6 46.0
58 83.1 64.5 96.7

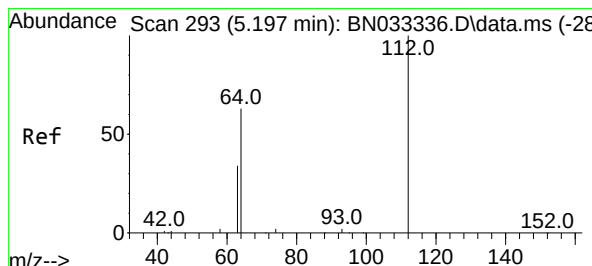
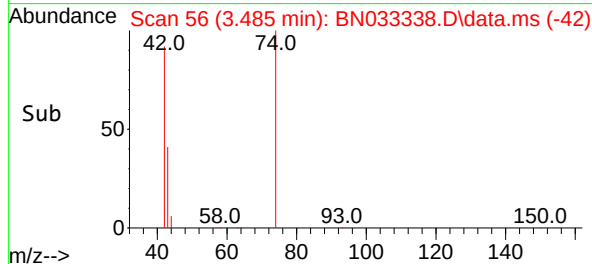
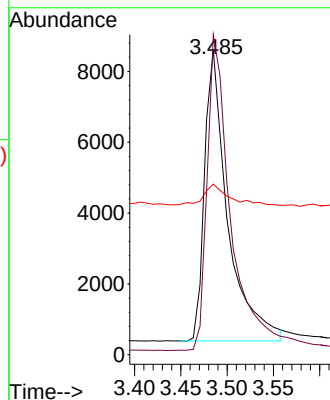
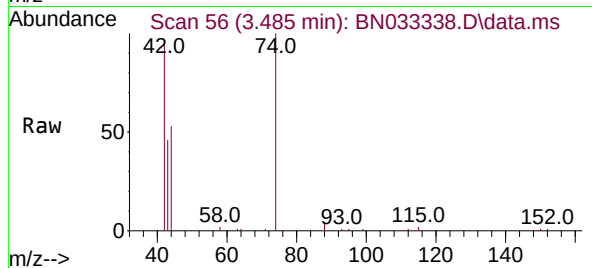




#3
n-Nitrosodimethylamine
Concen: 1.681 ng
RT: 3.485 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

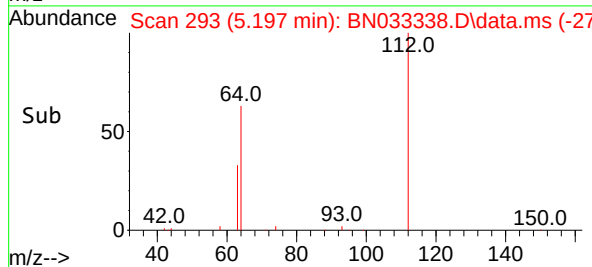
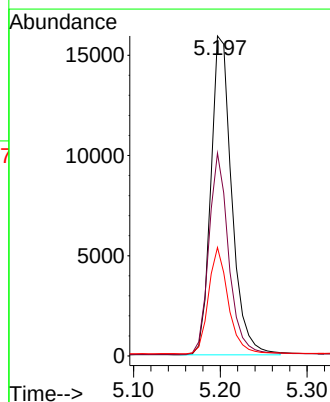
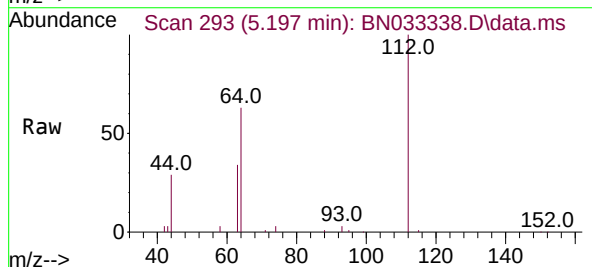
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

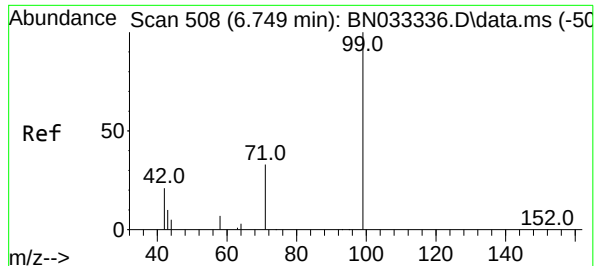
Tgt Ion: 42 Resp: 14307
Ion Ratio Lower Upper
42 100
74 109.8 89.0 133.6
44 7.9 11.0 16.4#



#4
2-Fluorophenol
Concen: 1.675 ng
RT: 5.197 min Scan# 293
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

Tgt Ion: 112 Resp: 26657
Ion Ratio Lower Upper
112 100
64 59.9 48.1 72.1
63 31.4 25.4 38.2

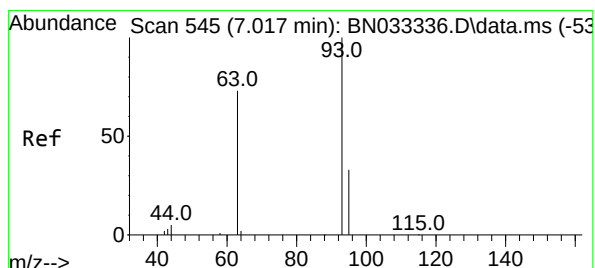
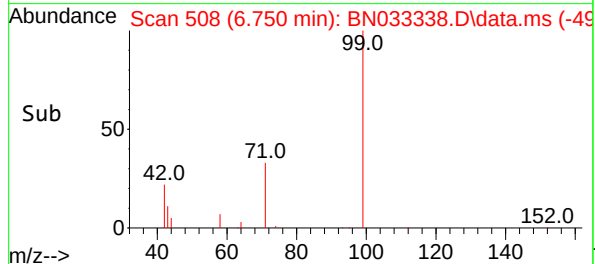
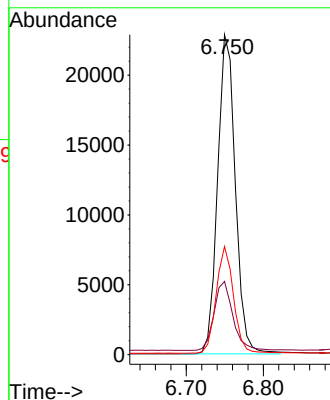
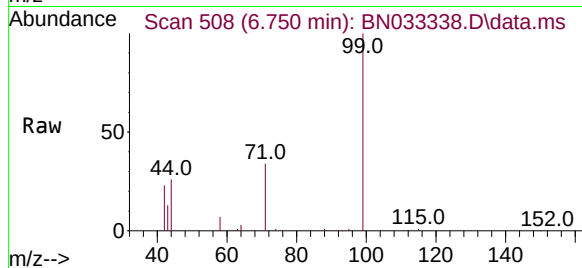




#5
Phenol-d6
Concen: 1.679 ng
RT: 6.750 min Scan# 508
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

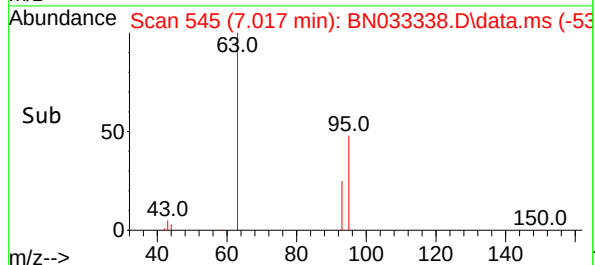
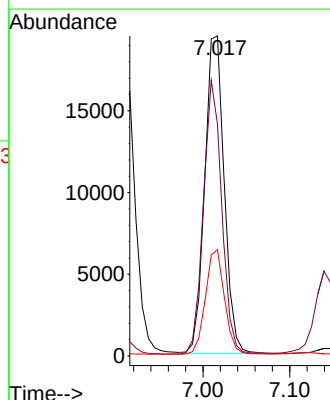
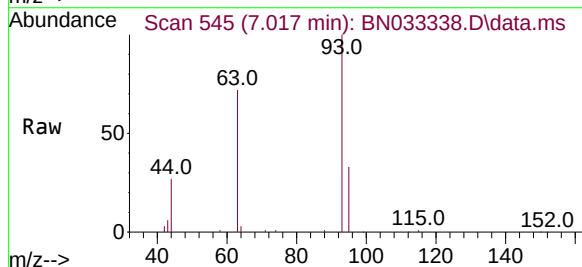
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

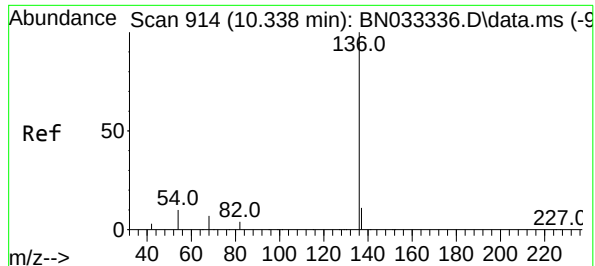
Tgt Ion: 99 Resp: 36519
Ion Ratio Lower Upper
99 100
42 22.9 18.5 27.7
71 32.6 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 1.627 ng
RT: 7.017 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

Tgt Ion: 93 Resp: 30266
Ion Ratio Lower Upper
93 100
63 81.6 65.2 97.8
95 32.3 26.2 39.4

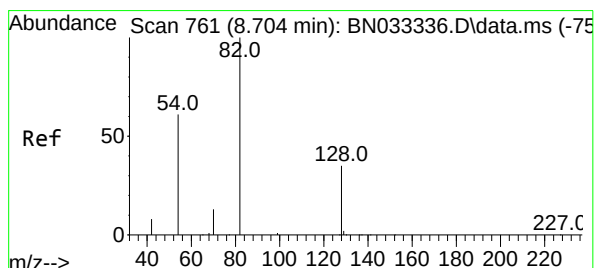
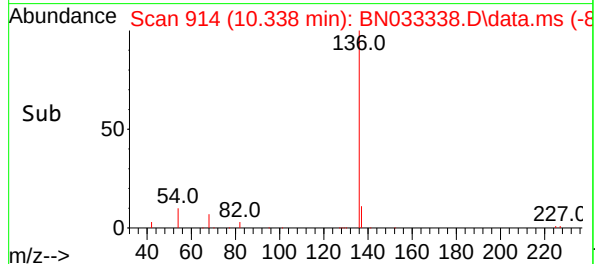
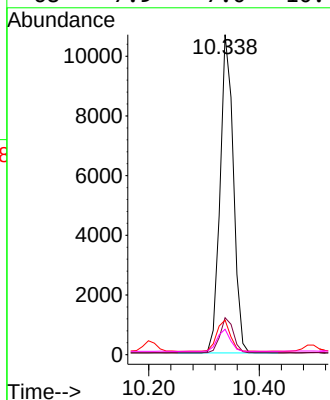
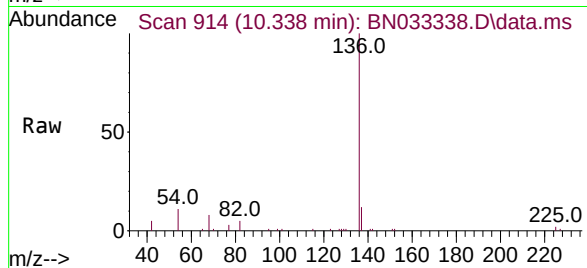




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.338 min Scan# 914
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

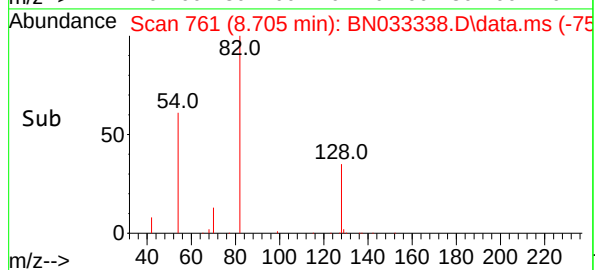
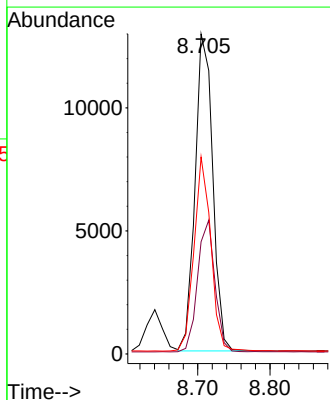
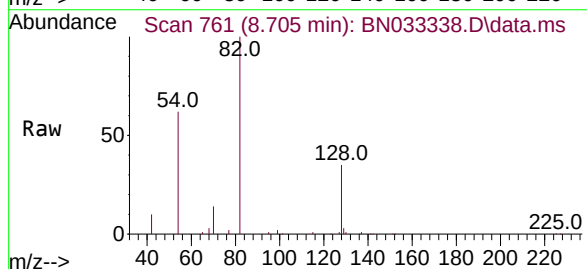
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

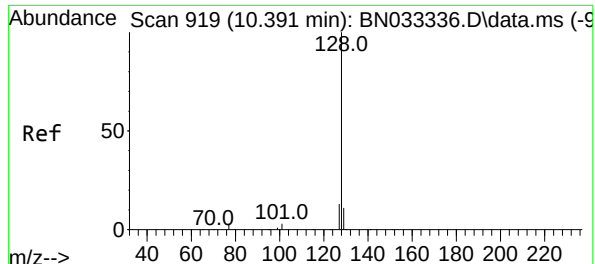
Tgt Ion:	136	Resp:	17724
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	10.8	9.4	14.0
68	7.9	7.0	10.4



#8
Nitrobenzene-d5
Concen: 2.030 ng
RT: 8.705 min Scan# 761
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

Tgt Ion:	82	Resp:	21957
Ion	Ratio	Lower	Upper
82	100		
128	35.0	29.0	43.4
54	61.5	50.2	75.4

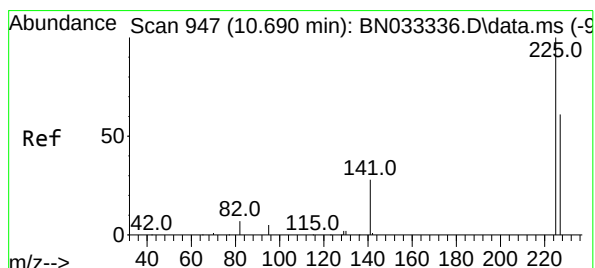
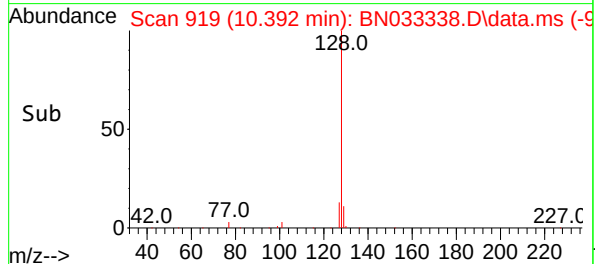
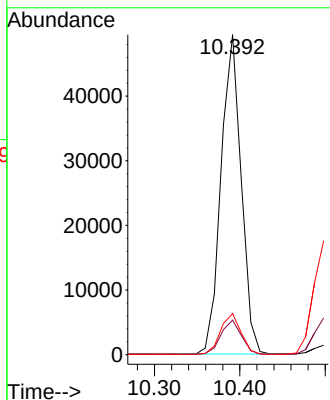
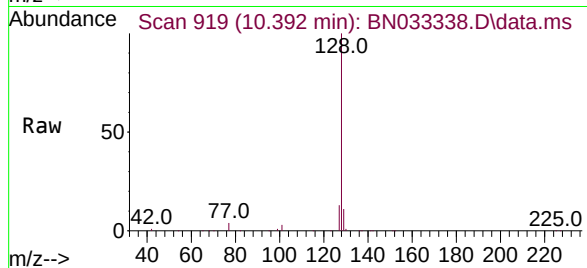




#9
Naphthalene
Concen: 1.629 ng
RT: 10.392 min Scan# 919
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

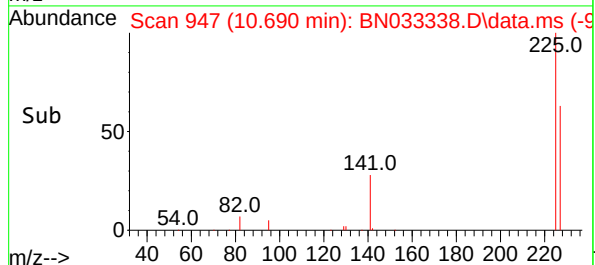
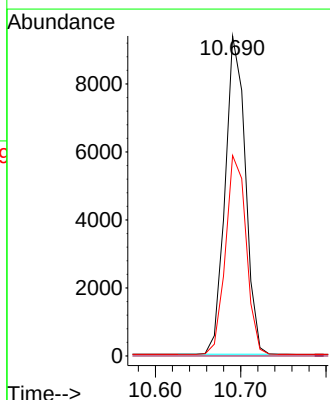
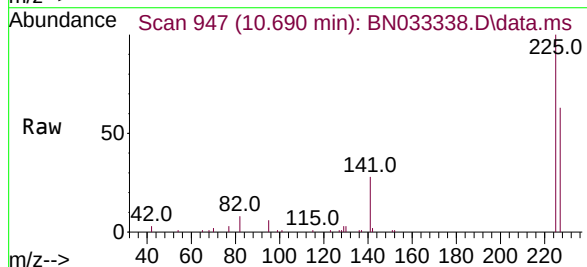
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

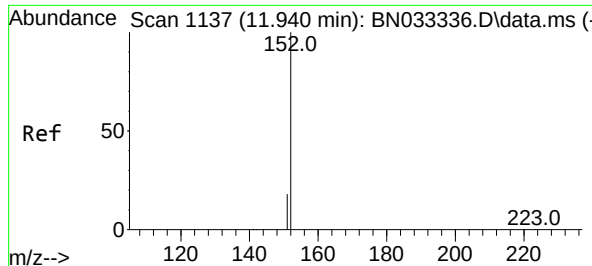
Tgt Ion:128 Resp: 81071
Ion Ratio Lower Upper
128 100
129 10.8 9.2 13.8
127 12.8 10.6 15.8



#10
Hexachlorobutadiene
Concen: 1.682 ng
RT: 10.690 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

Tgt Ion:225 Resp: 15382
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 50.8 76.2

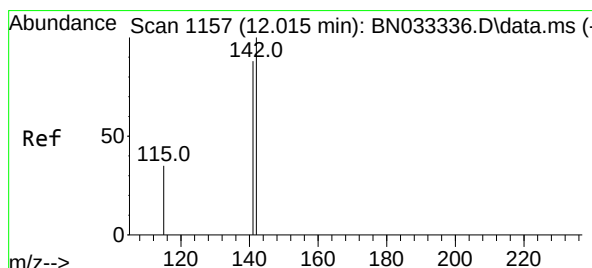
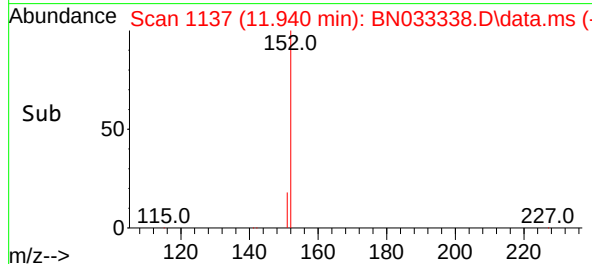
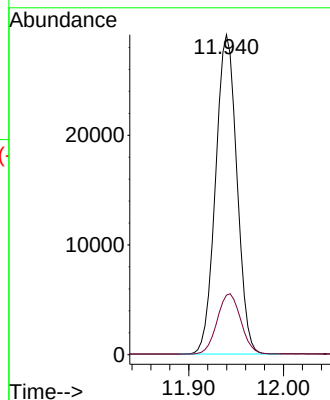
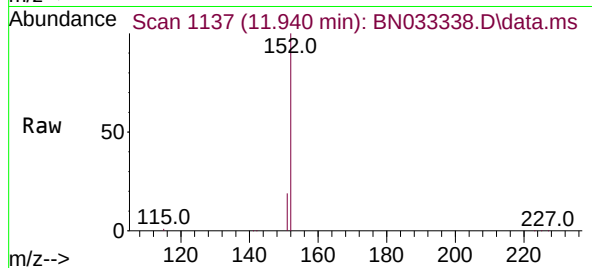




#11
2-Methylnaphthalene-d10
Concen: 1.646 ng
RT: 11.940 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

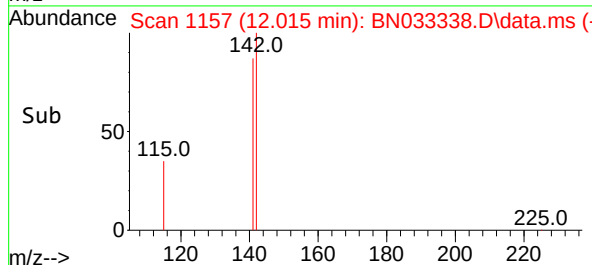
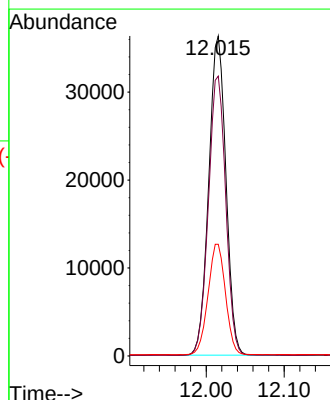
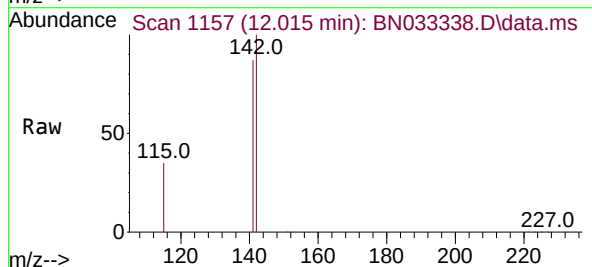
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

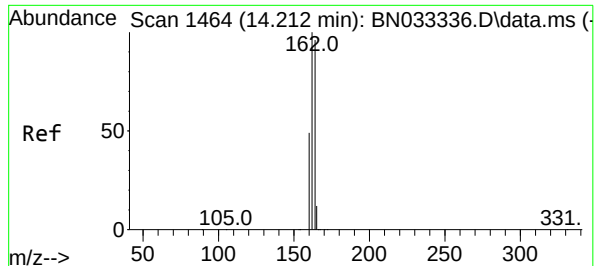
Tgt Ion:152 Resp: 45445
Ion Ratio Lower Upper
152 100
151 21.0 16.7 25.1



#12
2-Methylnaphthalene
Concen: 1.619 ng
RT: 12.015 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

Tgt Ion:142 Resp: 55528
Ion Ratio Lower Upper
142 100
141 87.5 70.2 105.4
115 34.9 29.3 43.9

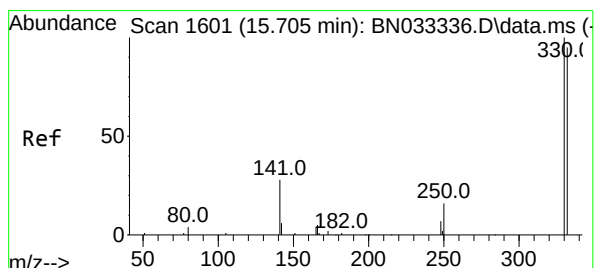
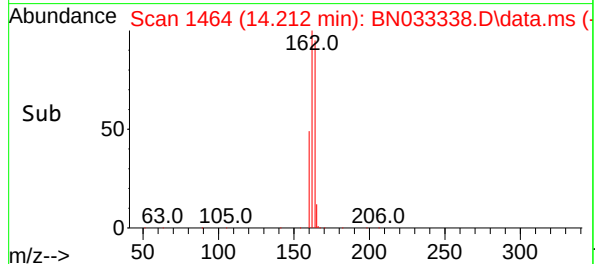
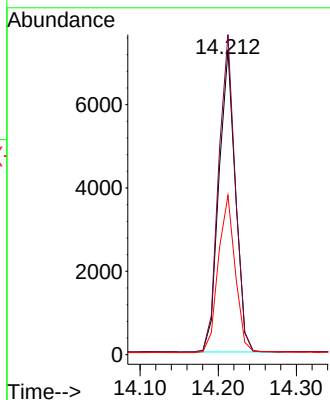
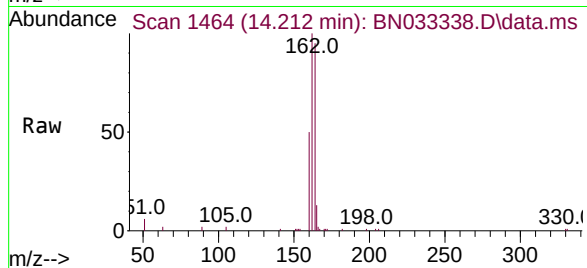




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.212 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

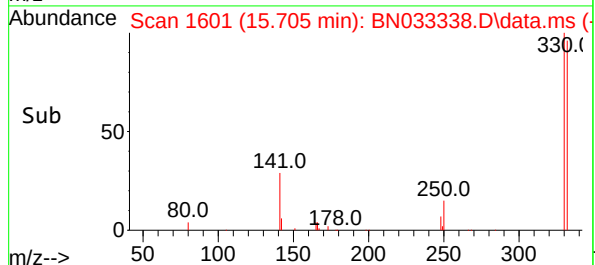
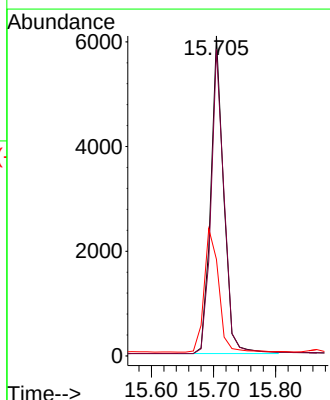
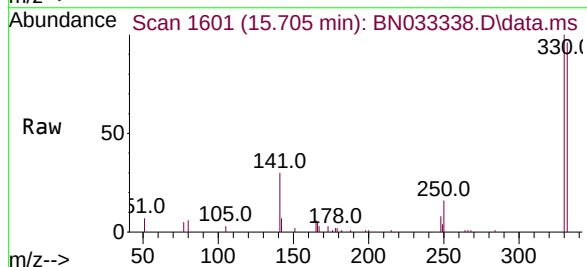
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

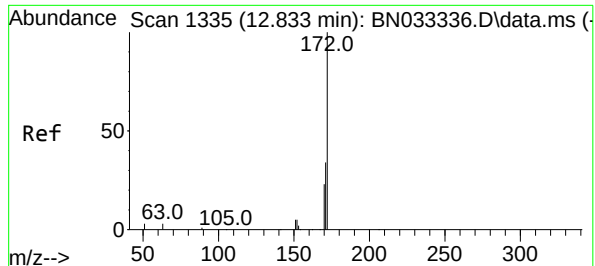
Tgt Ion:164 Resp: 10581
Ion Ratio Lower Upper
164 100
162 105.1 83.1 124.7
160 52.3 41.1 61.7



#14
2,4,6-Tribromophenol
Concen: 2.060 ng
RT: 15.705 min Scan# 1601
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

Tgt Ion:330 Resp: 8819
Ion Ratio Lower Upper
330 100
332 96.4 77.1 115.7
141 43.4 33.4 50.0

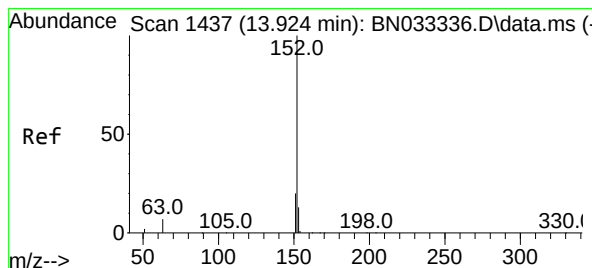
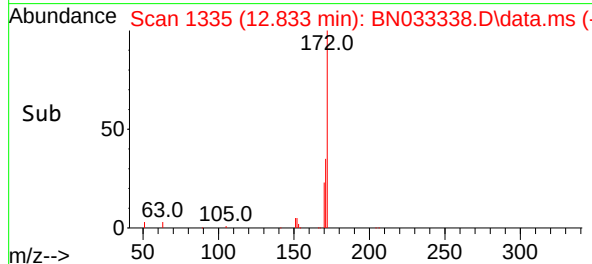
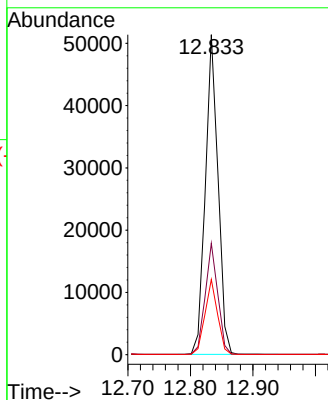
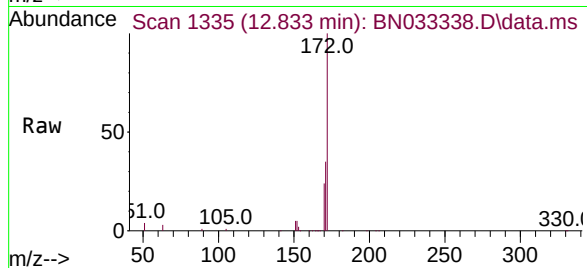




#15
2-Fluorobiphenyl
Concen: 1.805 ng
RT: 12.833 min Scan# 1335
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

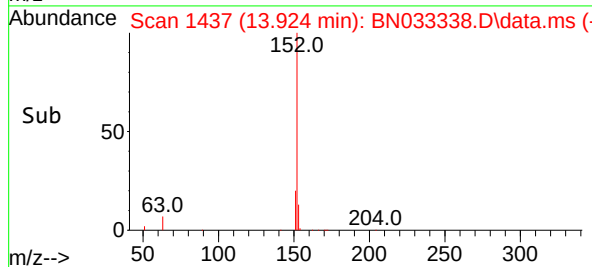
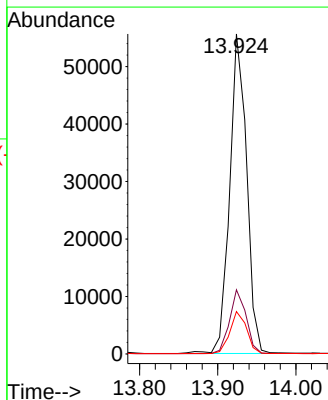
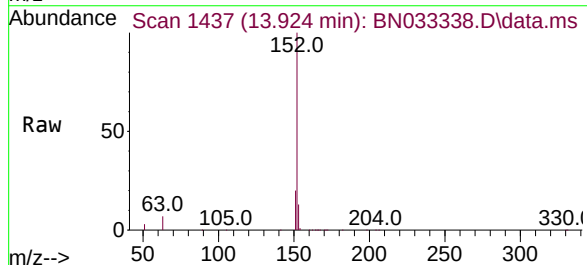
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

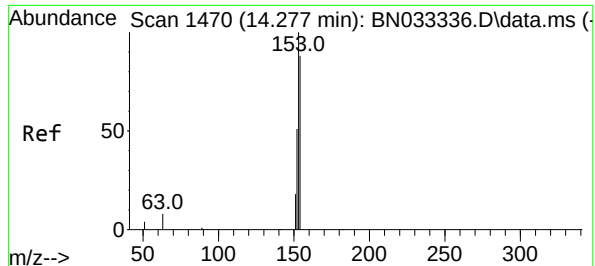
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	27.8	41.8
170	23.5	18.7	28.1



#16
Acenaphthylene
Concen: 1.624 ng
RT: 13.924 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.7	23.5
153	13.1	10.4	15.6





#17

Acenaphthene

Concen: 1.739 ng

RT: 14.277 min Scan# 1470

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

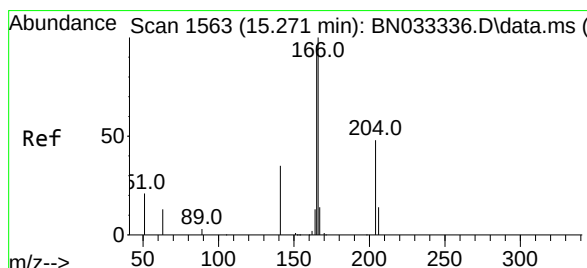
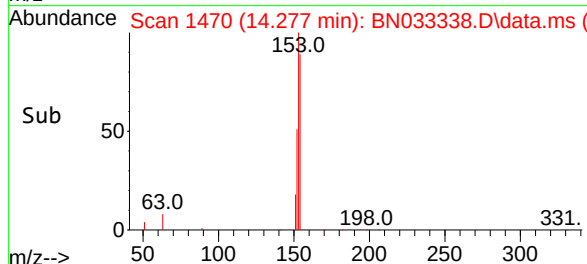
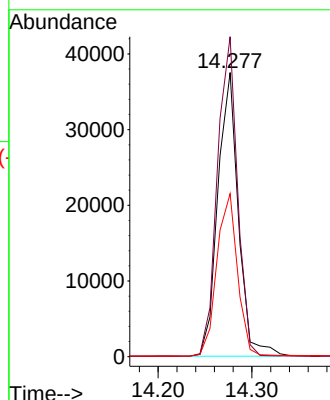
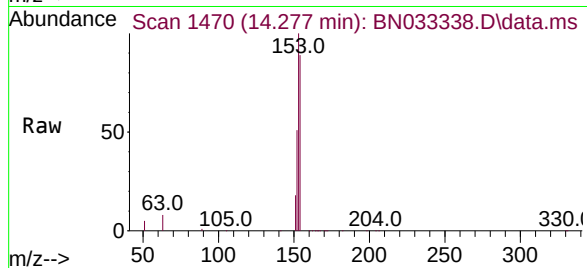
Tgt Ion:154 Resp: 57001

Ion Ratio Lower Upper

154 100

153 110.0 89.7 134.5

152 57.3 47.2 70.8



#18

Fluorene

Concen: 1.746 ng

RT: 15.271 min Scan# 1563

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

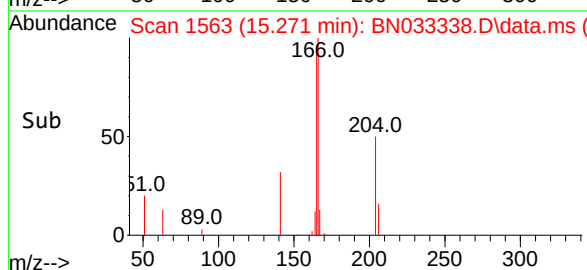
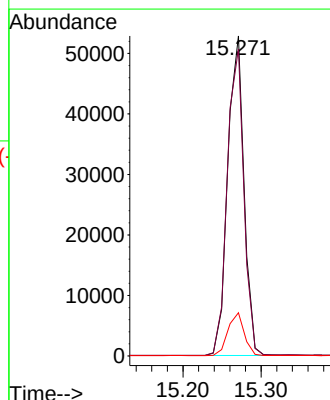
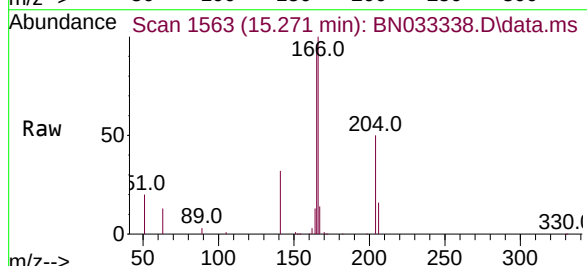
Tgt Ion:166 Resp: 76480

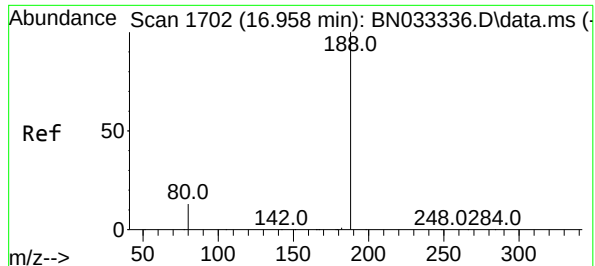
Ion Ratio Lower Upper

166 100

165 97.7 78.0 117.0

167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.958 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

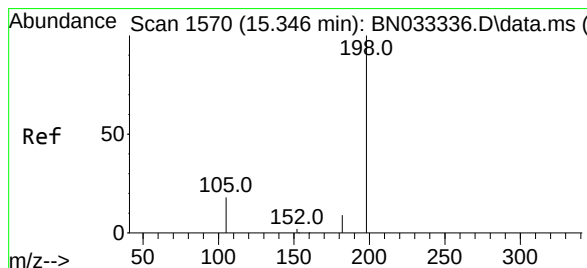
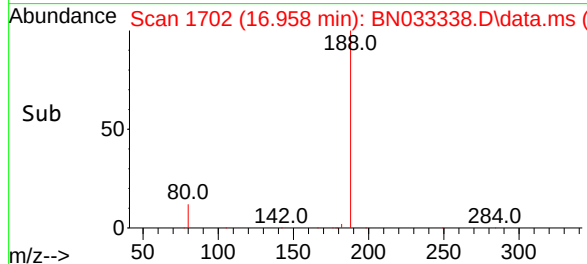
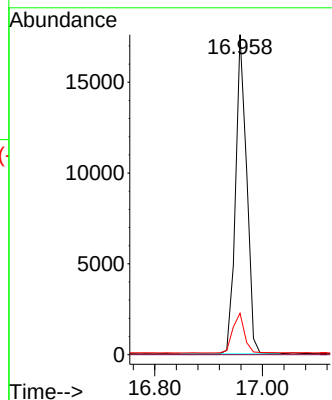
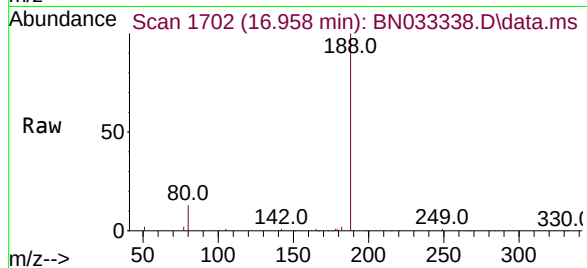
Tgt Ion:188 Resp: 25035

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.9 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 2.929 ng

RT: 15.346 min Scan# 1570

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

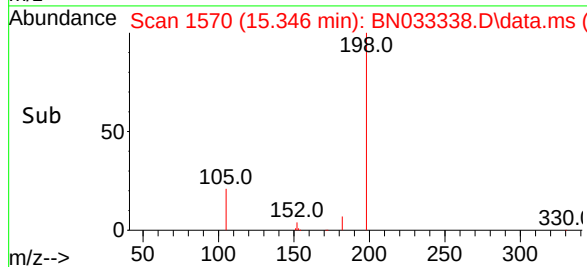
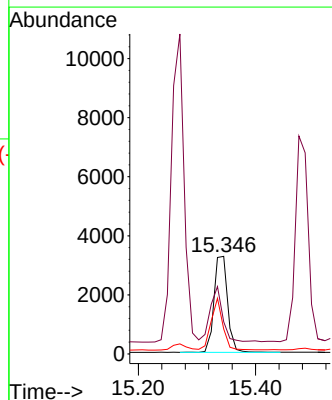
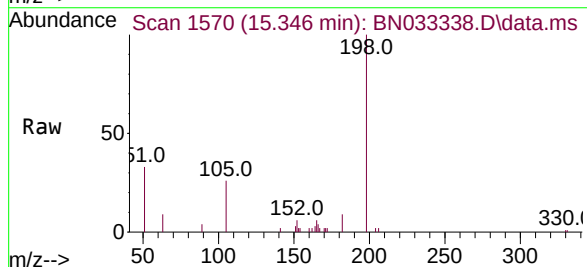
Tgt Ion:198 Resp: 5244

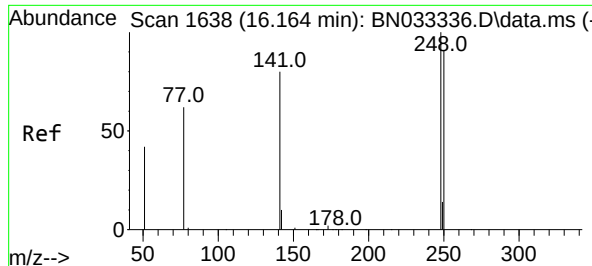
Ion Ratio Lower Upper

198 100

51 33.0 62.8 94.2#

105 25.6 34.1 51.1#

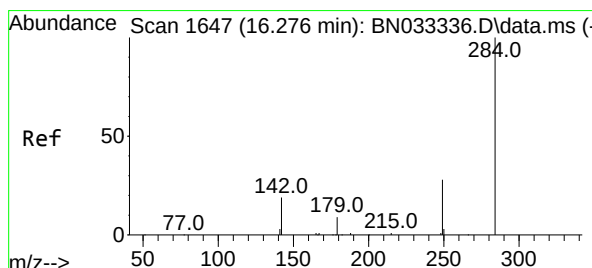
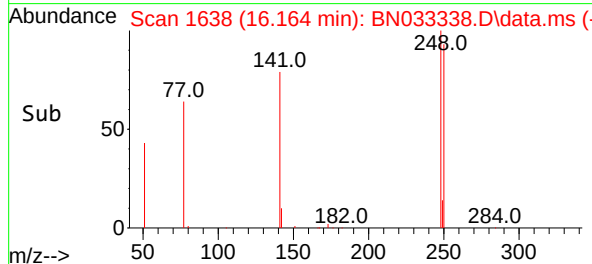
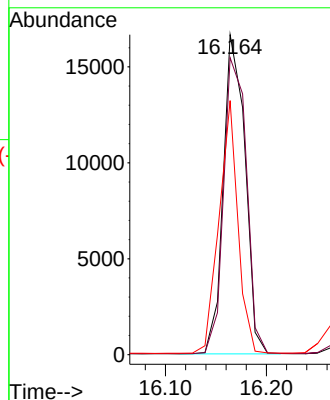
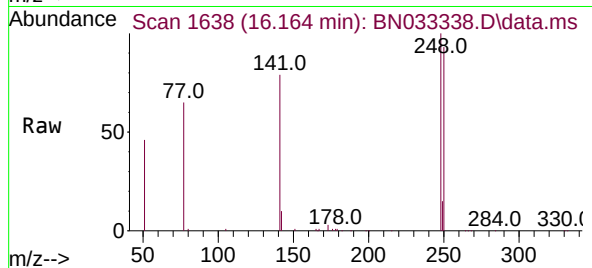




#21
4-Bromophenyl-phenylether
Concen: 1.638 ng
RT: 16.164 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

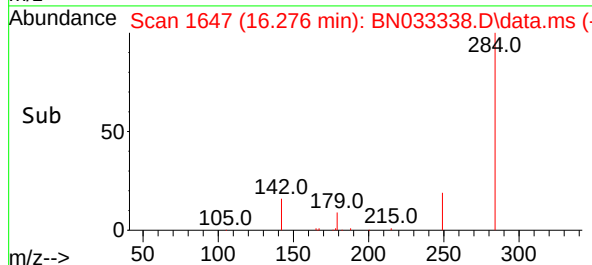
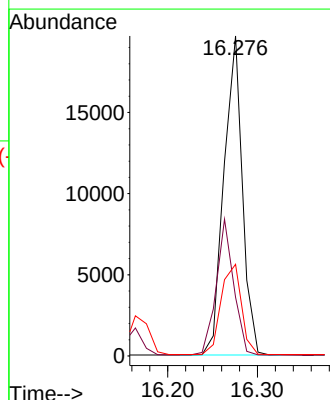
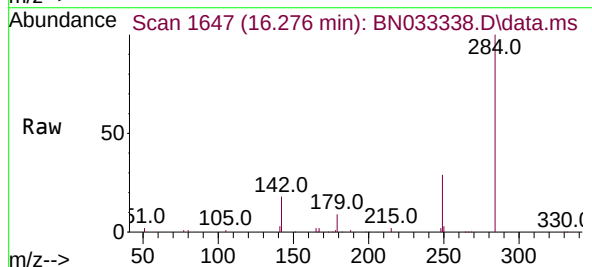
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

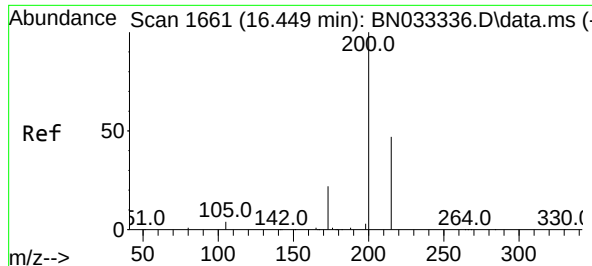
Tgt Ion:248 Resp: 24892
Ion Ratio Lower Upper
248 100
250 92.8 73.0 109.4
141 79.4 64.6 96.8



#22
Hexachlorobenzene
Concen: 1.754 ng
RT: 16.276 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

Tgt Ion:284 Resp: 27991
Ion Ratio Lower Upper
284 100
142 40.2 32.2 48.4
249 31.3 25.3 37.9

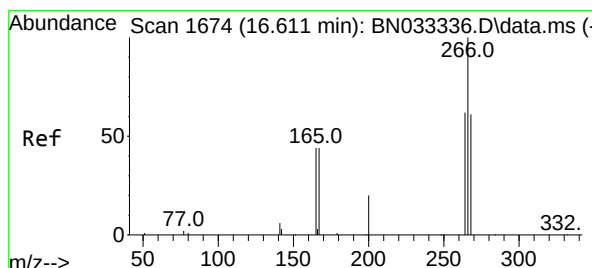
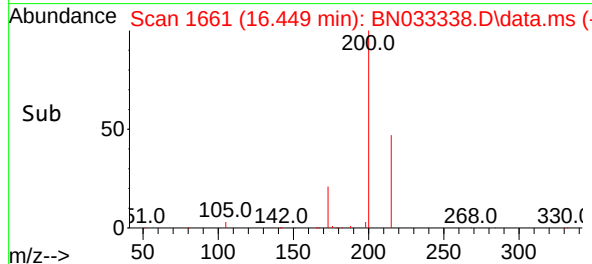
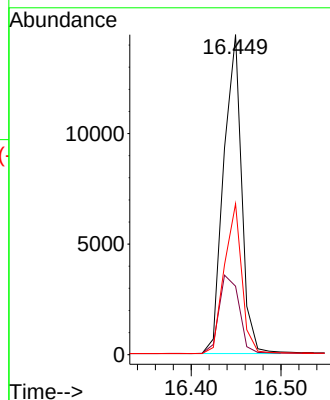
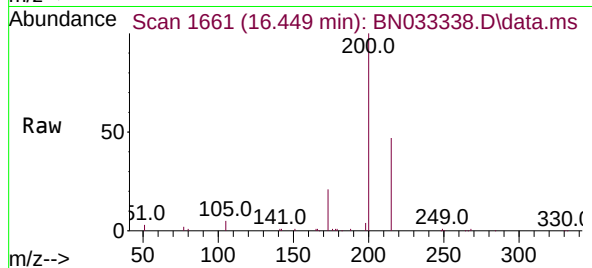




#23
Atrazine
Concen: 1.598 ng
RT: 16.449 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

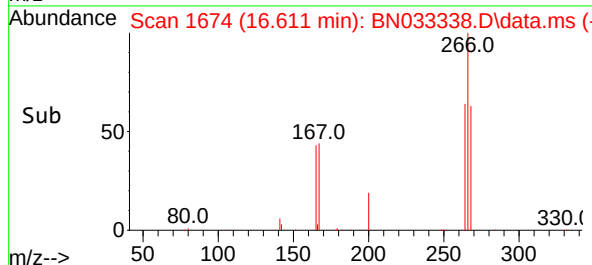
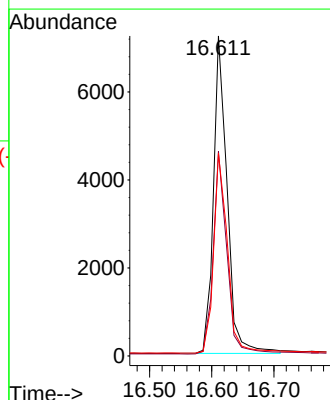
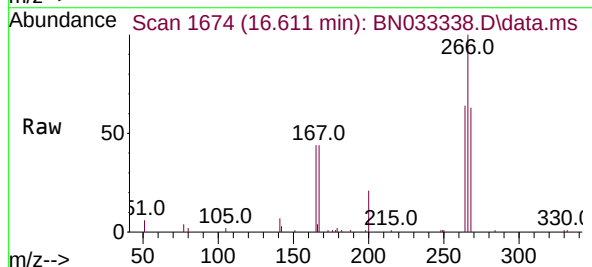
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

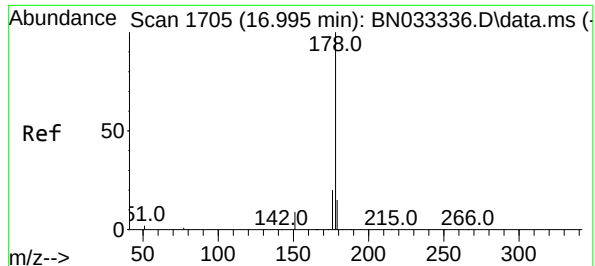
Tgt Ion	Ratio	Lower	Upper
200	100		
173	21.4	18.7	28.1
215	47.1	38.6	58.0



#24
Pentachlorophenol
Concen: 1.974 ng
RT: 16.611 min Scan# 1674
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.3	49.2	73.8
268	64.1	51.2	76.8





#25

Phenanthrene

Concen: 1.688 ng

RT: 16.996 min Scan# 1705

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

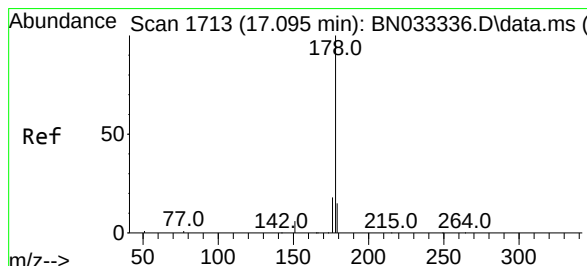
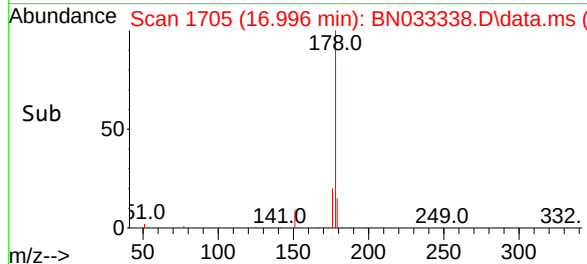
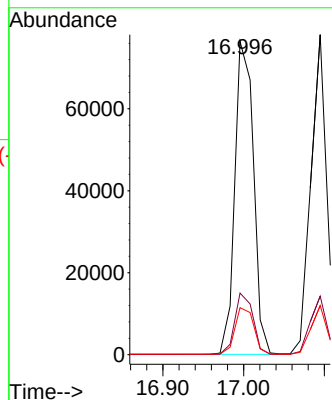
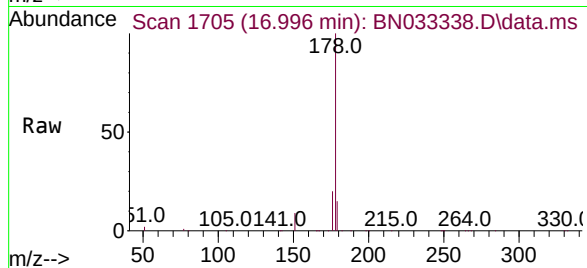
Tgt Ion:178 Resp: 122295

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.0

179 15.1 12.2 18.2



#26

Anthracene

Concen: 1.552 ng

RT: 17.095 min Scan# 1713

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

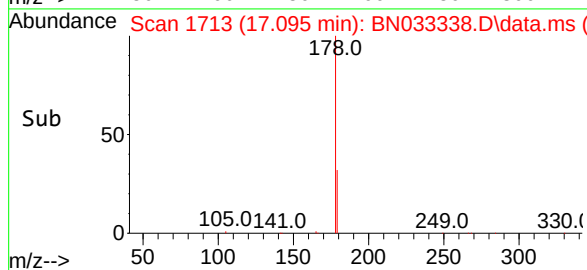
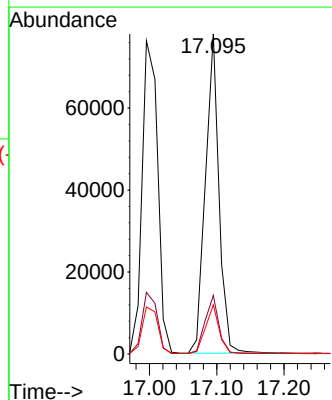
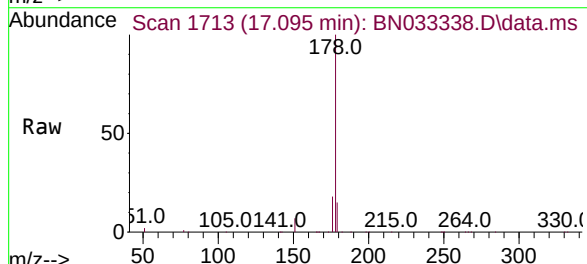
Tgt Ion:178 Resp: 109337

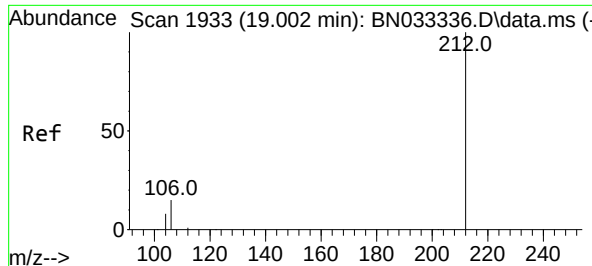
Ion Ratio Lower Upper

178 100

176 18.5 14.7 22.1

179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 1.625 ng

RT: 19.002 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

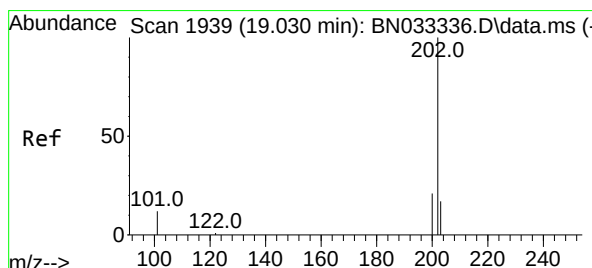
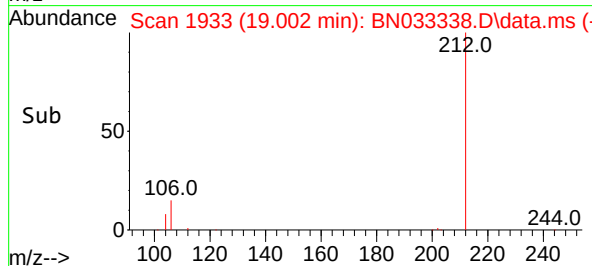
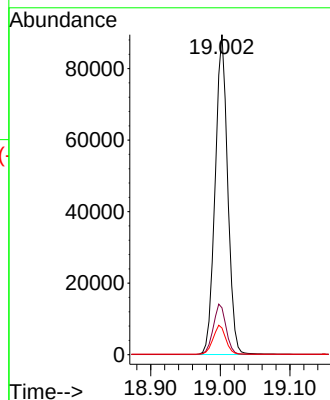
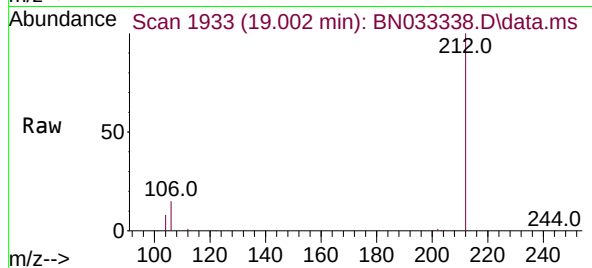
Tgt Ion:212 Resp: 111916

Ion Ratio Lower Upper

212 100

106 16.0 12.8 19.2

104 9.2 7.1 10.7



#28

Fluoranthene

Concen: 1.655 ng

RT: 19.030 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

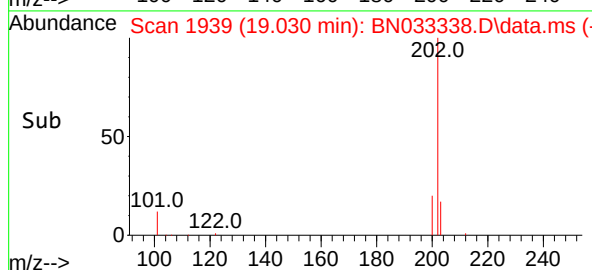
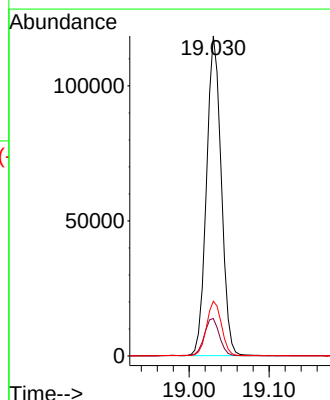
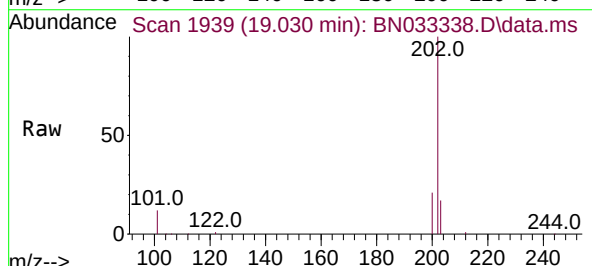
Tgt Ion:202 Resp: 151193

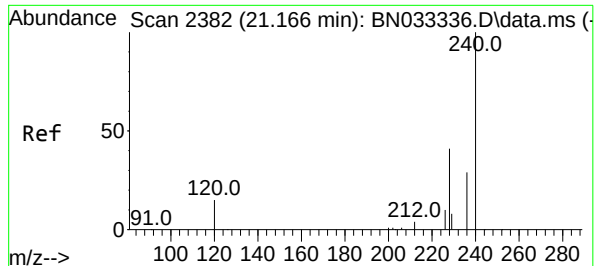
Ion Ratio Lower Upper

202 100

101 12.2 9.8 14.6

203 17.3 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.166 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

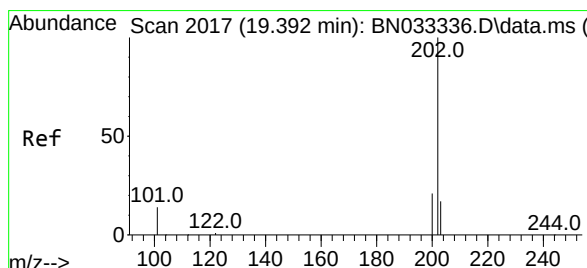
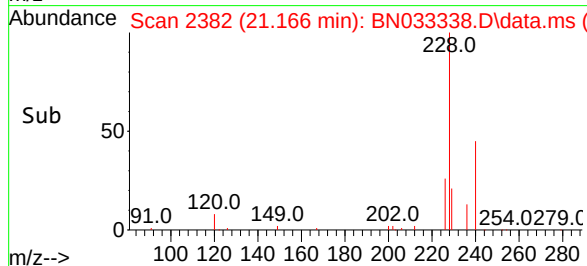
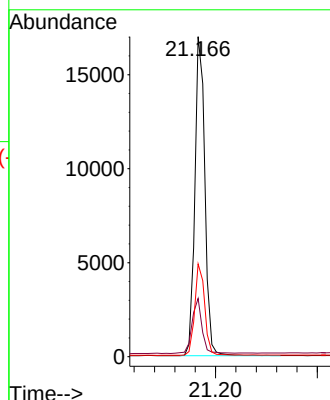
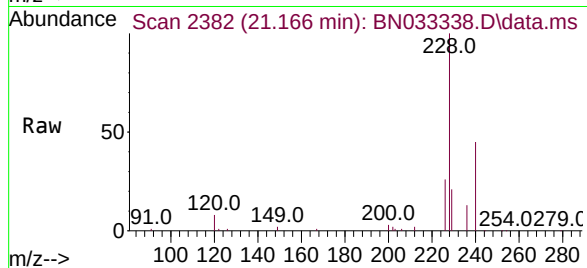
Tgt Ion:240 Resp: 23096

Ion Ratio Lower Upper

240 100

120 18.2 13.0 19.6

236 29.0 23.2 34.8



#30

Pyrene

Concen: 1.708 ng

RT: 19.393 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

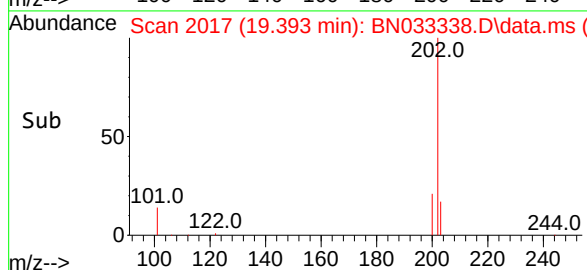
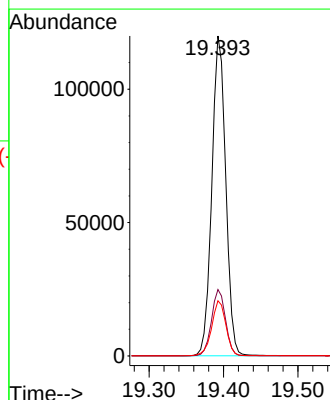
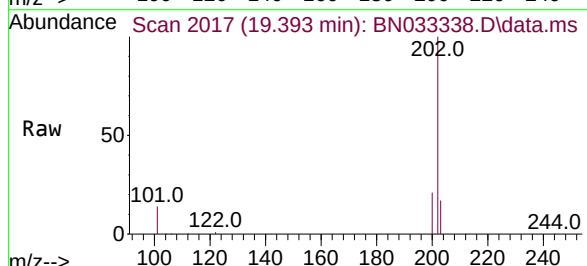
Tgt Ion:202 Resp: 155213

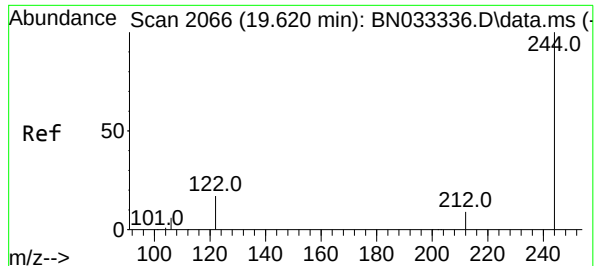
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 17.7 14.2 21.4

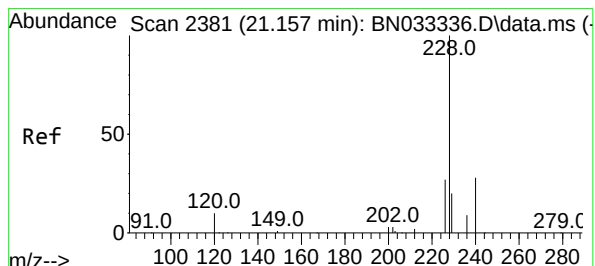
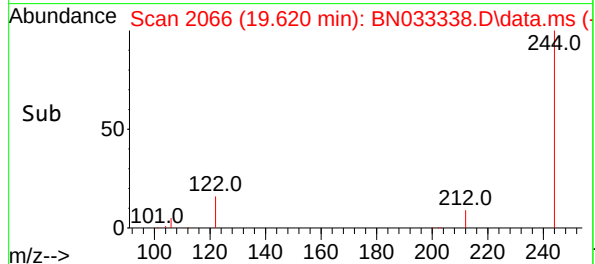
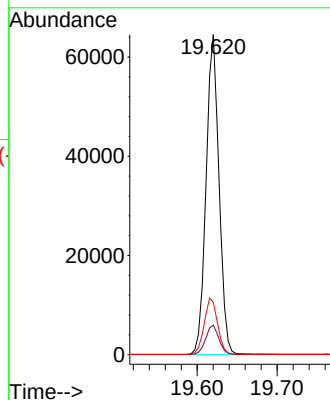
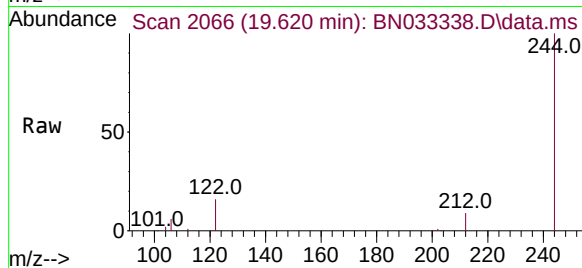




#31
Terphenyl-d14
Concen: 1.818 ng
RT: 19.620 min Scan# 2066
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

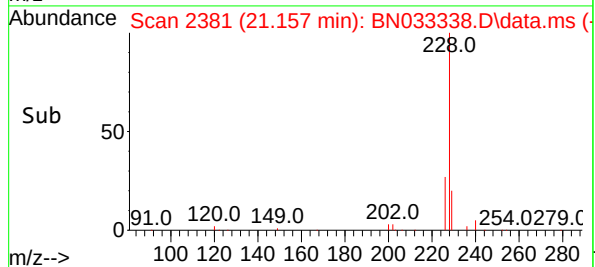
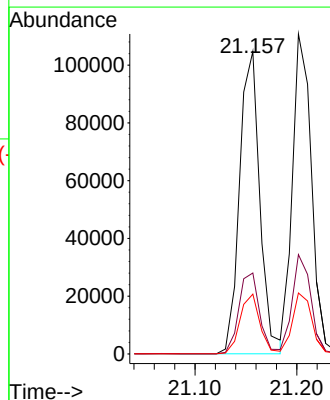
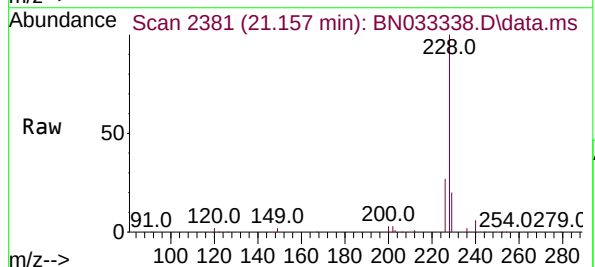
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

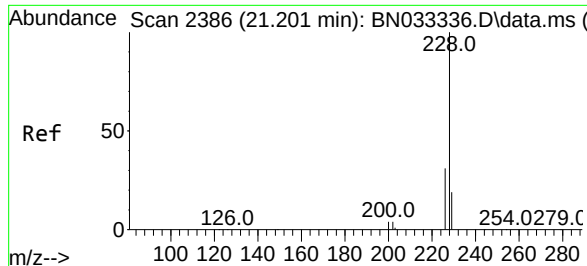
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.7	11.5
122	16.4	14.0	21.0



#32
Benzo(a)anthracene
Concen: 1.615 ng
RT: 21.157 min Scan# 2381
Delta R.T. 0.000 min
Lab File: BN033338.D
Acq: 10 Aug 2024 16:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.6	32.4
229	19.8	15.9	23.9





#33

Chrysene

Concen: 1.655 ng

RT: 21.202 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

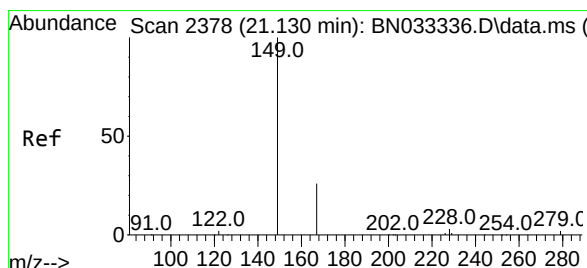
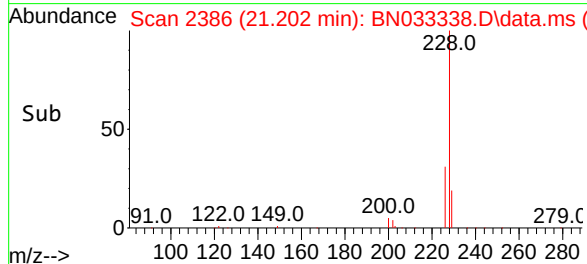
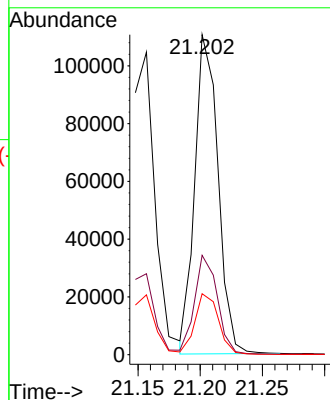
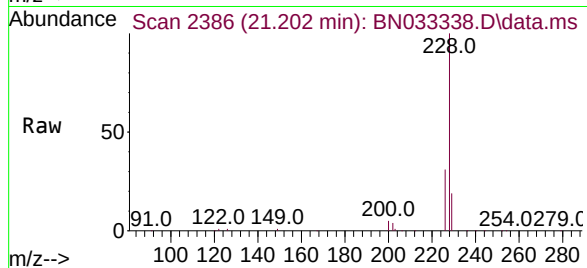
Tgt Ion:228 Resp: 143765

Ion Ratio Lower Upper

228 100

226 31.0 24.7 37.1

229 19.1 15.4 23.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.365 ng

RT: 21.130 min Scan# 2378

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

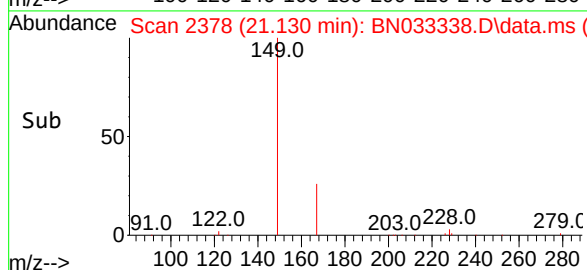
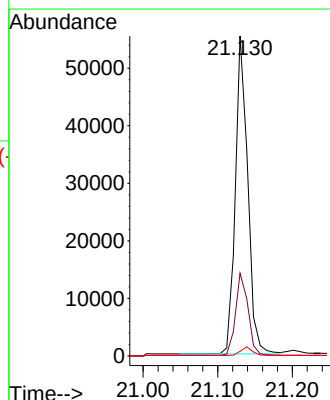
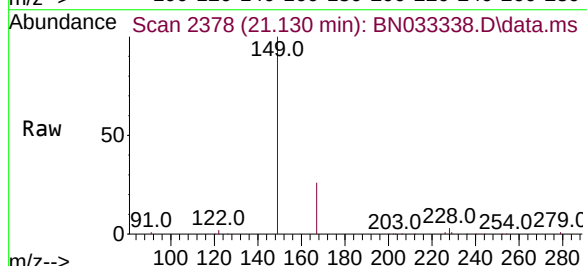
Tgt Ion:149 Resp: 63394

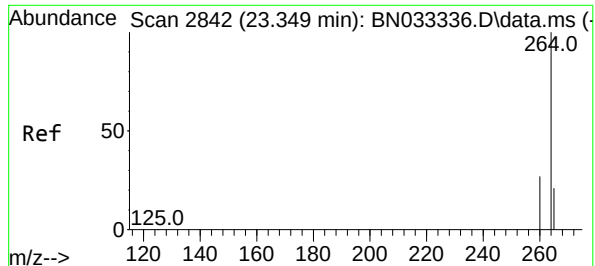
Ion Ratio Lower Upper

149 100

167 26.1 20.9 31.3

279 2.6 2.2 3.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.352 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

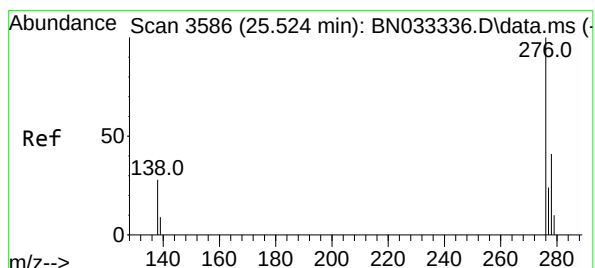
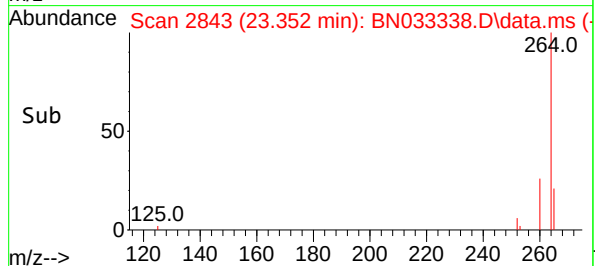
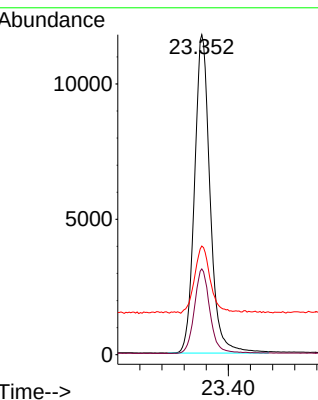
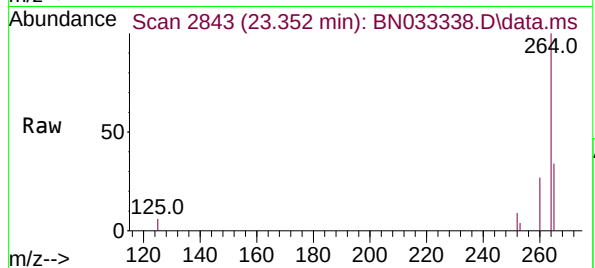
Tgt Ion:264 Resp: 22978

Ion Ratio Lower Upper

264 100

260 26.8 21.6 32.4

265 33.9 29.3 43.9



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.625 ng

RT: 25.527 min Scan# 3587

Delta R.T. 0.003 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

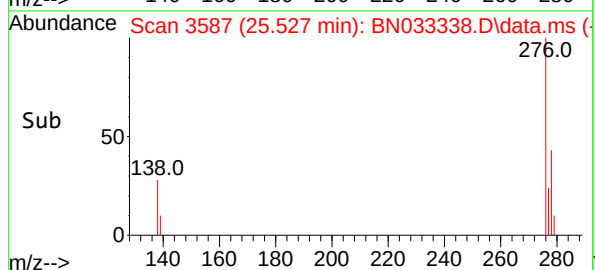
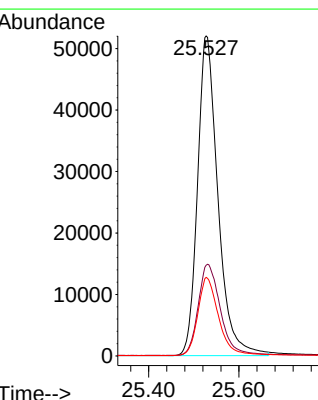
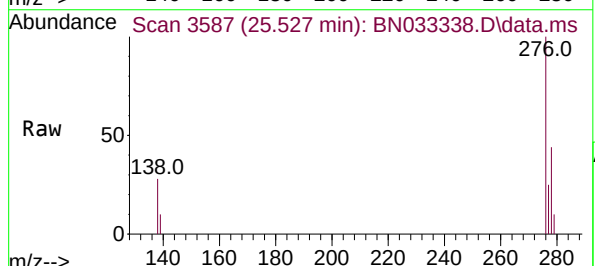
Tgt Ion:276 Resp: 163370

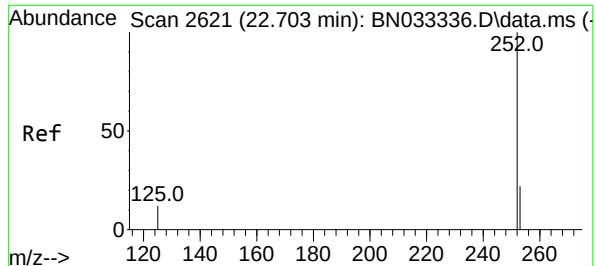
Ion Ratio Lower Upper

276 100

138 31.0 24.9 37.3

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 1.732 ng

RT: 22.706 min Scan# 2622

Delta R.T. 0.003 min

Lab File: BN033338.D

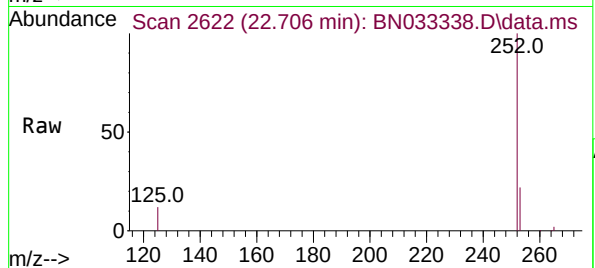
Acq: 10 Aug 2024 16:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



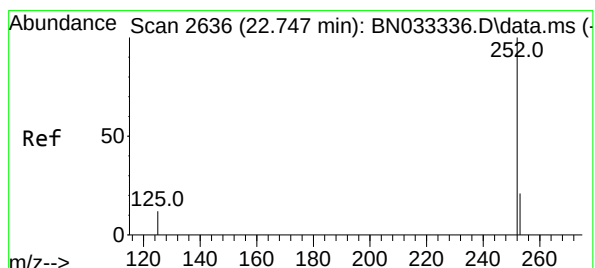
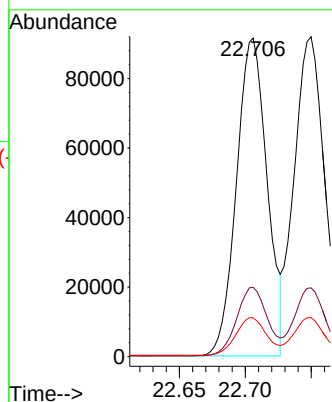
Tgt Ion:252 Resp: 147905

Ion Ratio Lower Upper

252 100

253 21.8 18.2 27.2

125 12.2 11.3 16.9



#38

Benzo(k)fluoranthene

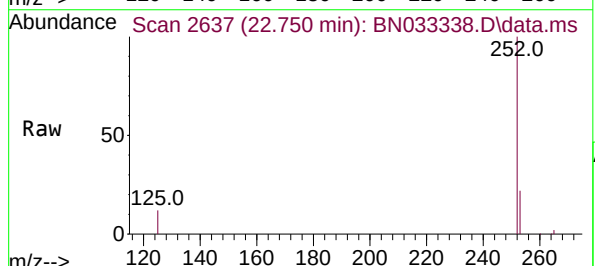
Concen: 1.848 ng

RT: 22.750 min Scan# 2637

Delta R.T. 0.003 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05



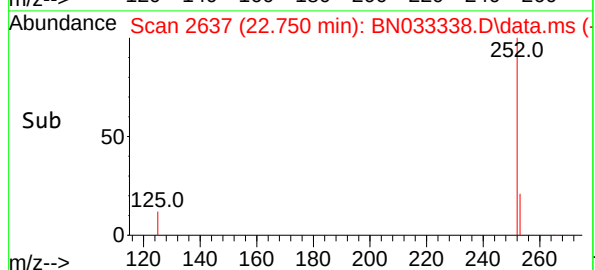
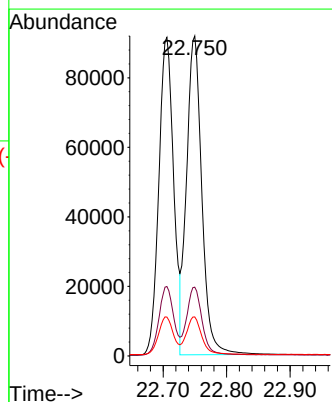
Tgt Ion:252 Resp: 153299

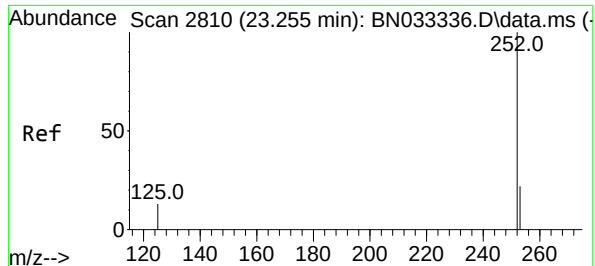
Ion Ratio Lower Upper

252 100

253 21.5 17.9 26.9

125 12.2 11.3 16.9





#39

Benzo(a)pyrene

Concen: 1.651 ng

RT: 23.259 min Scan# 2

Delta R.T. 0.003 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

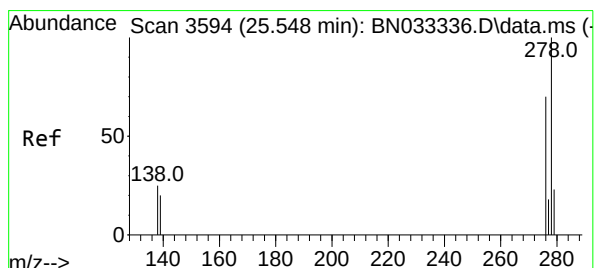
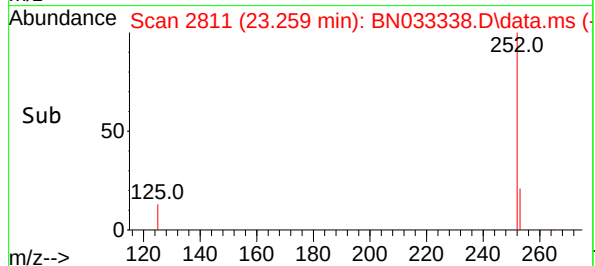
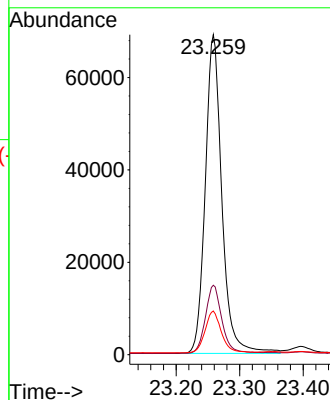
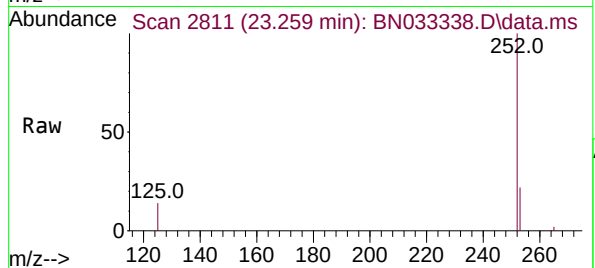
Tgt Ion:252 Resp: 125288

Ion Ratio Lower Upper

252 100

253 21.7 18.6 28.0

125 13.6 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 1.636 ng

RT: 25.548 min Scan# 3594

Delta R.T. 0.000 min

Lab File: BN033338.D

Acq: 10 Aug 2024 16:05

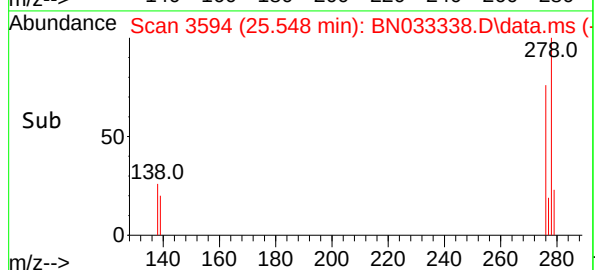
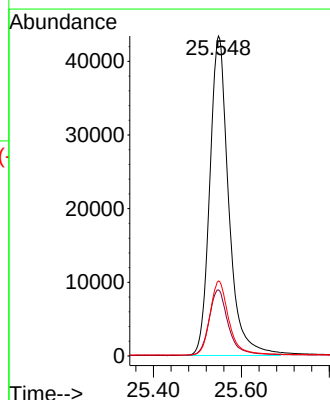
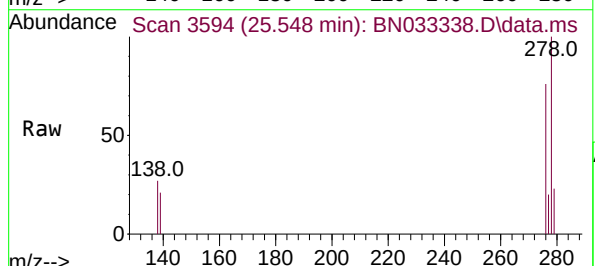
Tgt Ion:278 Resp: 129914

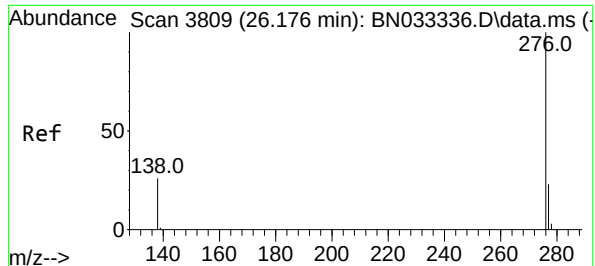
Ion Ratio Lower Upper

278 100

139 20.7 17.0 25.6

279 23.5 20.0 30.0





#41

Benzo(g,h,i)perylene

Concen: 1.632 ng

RT: 26.182 min Scan# 3811

Delta R.T. 0.006 min

Lab File: BN033338.D

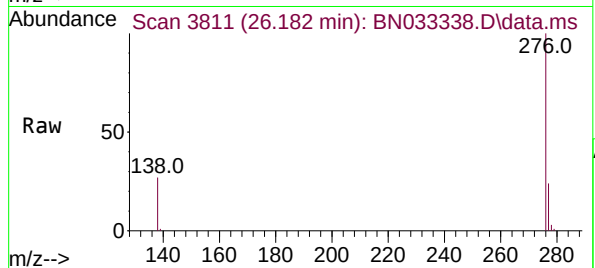
Acq: 10 Aug 2024 16:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



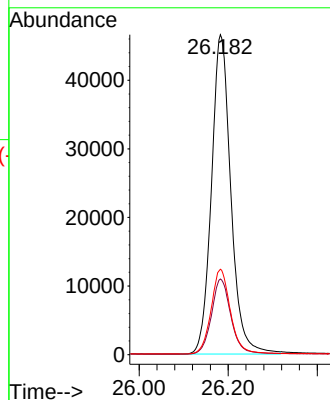
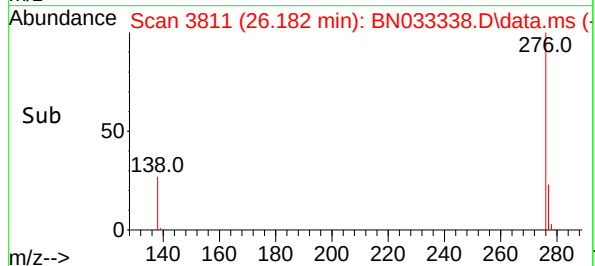
Tgt Ion:276 Resp: 140930

Ion Ratio Lower Upper

276 100

277 23.7 19.4 29.2

138 26.7 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
 Data File : BN033339.D
 Acq On : 10 Aug 2024 16:41
 Operator : MA/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Aug 12 01:02:23 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 12 00:59:25 2024
 Response via : Initial Calibration

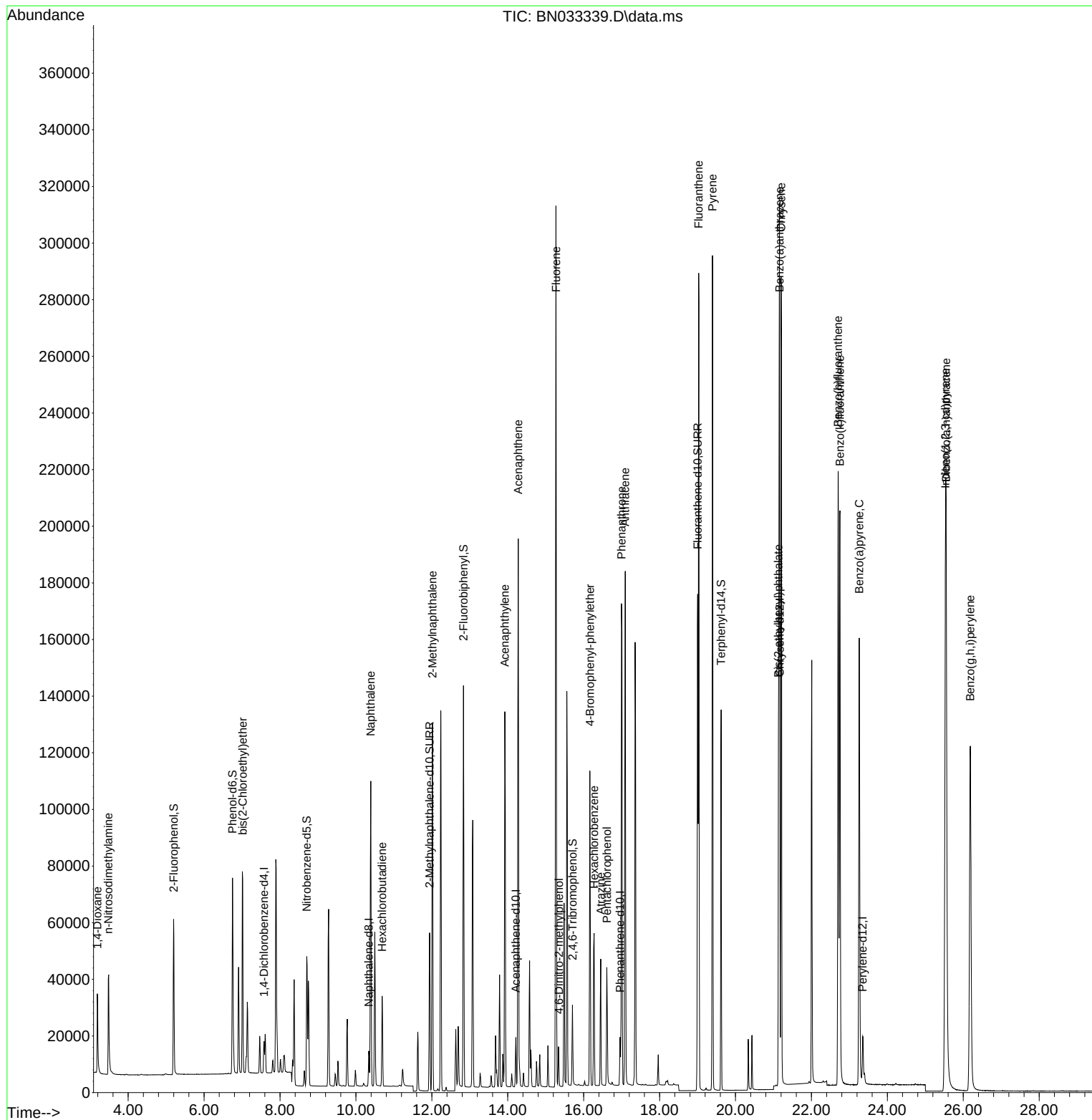
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.580	152	5252	0.400	ng	0.00
7) Naphthalene-d8	10.338	136	15260	0.400	ng	0.00
13) Acenaphthene-d10	14.212	164	9131	0.400	ng	0.00
19) Phenanthrene-d10	16.958	188	21111	0.400	ng	0.00
29) Chrysene-d12	21.166	240	20597	0.400	ng	0.00
35) Perylene-d12	23.352	264	20443	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.204	112	42702	3.089	ng	0.00
5) Phenol-d6	6.749	99	58960	3.120	ng	0.00
8) Nitrobenzene-d5	8.704	82	35417	3.804	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	73579	3.095	ng	0.00
14) 2,4,6-Tribromophenol	15.704	330	14824	4.012	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	115599	3.360	ng	0.00
27) Fluoranthene-d10	19.002	212	182286	3.138	ng	0.00
31) Terphenyl-d14	19.620	244	119744	3.371	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.189	88	17475	3.005	ng	97
3) n-Nitrosodimethylamine	3.478	42	23490	3.177	ng	# 96
6) bis(2-Chloroethyl)ether	7.017	93	48333	2.990	ng	100
9) Naphthalene	10.391	128	130871	3.055	ng	99
10) Hexachlorobutadiene	10.690	225	24642	3.131	ng	# 100
12) 2-Methylnaphthalene	12.015	142	89784	3.041	ng	99
16) Acenaphthylene	13.924	152	140151	3.144	ng	100
17) Acenaphthene	14.276	154	93685	3.312	ng	97
18) Fluorene	15.271	166	123400	3.265	ng	99
20) 4,6-Dinitro-2-methylph...	15.346	198	9224	6.111	ng	# 49
21) 4-Bromophenyl-phenylether	16.164	248	41278	3.221	ng	97
22) Hexachlorobenzene	16.275	284	44412	3.300	ng	100
23) Atrazine	16.449	200	33584	3.173	ng	97
24) Pentachlorophenol	16.611	266	18657	3.955	ng	98
25) Phenanthrene	16.995	178	194936	3.191	ng	100
26) Anthracene	17.095	178	179685	3.024	ng	100
28) Fluoranthene	19.030	202	247568	3.213	ng	100
30) Pyrene	19.392	202	254355	3.139	ng	100
32) Benzo(a)anthracene	21.157	228	246978	3.088	ng	99
33) Chrysene	21.201	228	240847	3.110	ng	100
34) Bis(2-ethylhexyl)phtha...	21.130	149	116961	2.823	ng	100
36) Indeno(1,2,3-cd)pyrene	25.530	276	279128	3.121	ng	100
37) Benzo(b)fluoranthene	22.703	252	250658	3.299	ng	97
38) Benzo(k)fluoranthene	22.750	252	257833	3.494	ng	97
39) Benzo(a)pyrene	23.258	252	215290	3.189	ng	96
40) Dibenzo(a,h)anthracene	25.551	278	222884	3.155	ng	98
41) Benzo(g,h,i)perylene	26.185	276	238617	3.106	ng	99

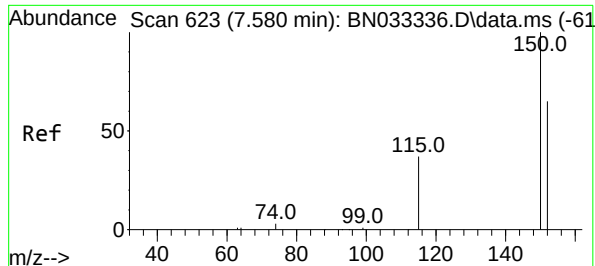
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033339.D
Acq On : 10 Aug 2024 16:41
Operator : MA/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Aug 12 01:02:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 00:59:25 2024
Response via : Initial Calibration

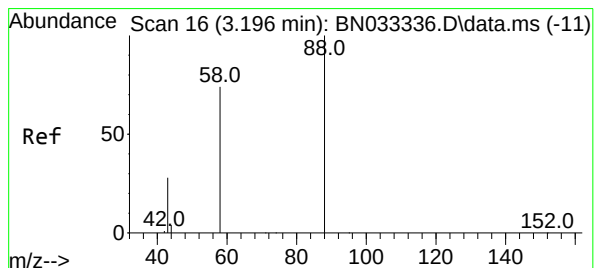
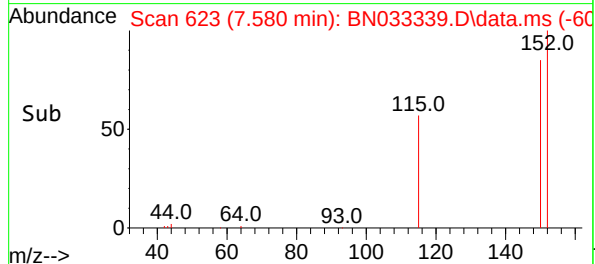
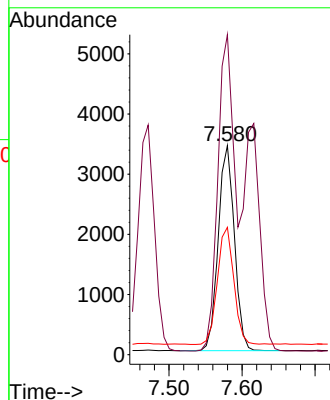
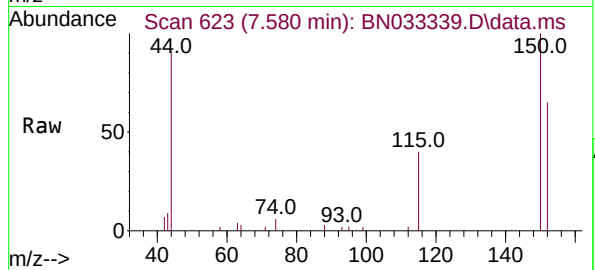




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.580 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

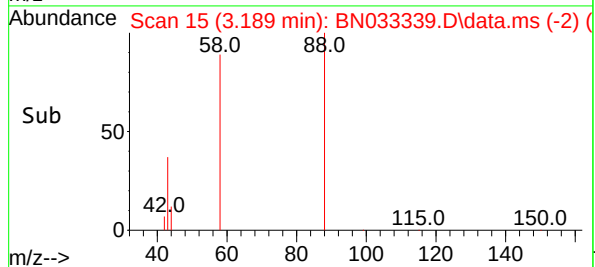
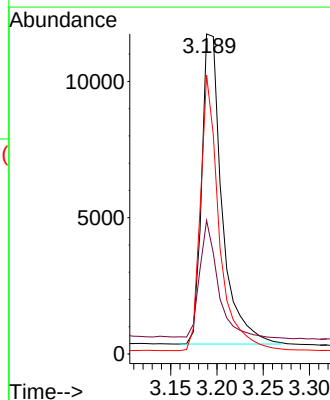
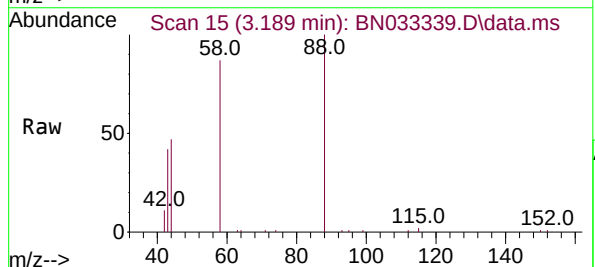
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

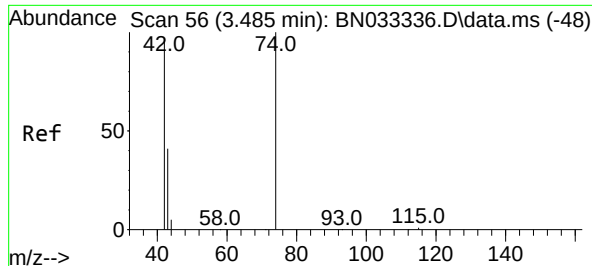
Tgt Ion:152 Resp: 5252
Ion Ratio Lower Upper
152 100
150 153.1 122.3 183.5
115 60.9 48.8 73.2



#2
1,4-Dioxane
Concen: 3.005 ng
RT: 3.189 min Scan# 15
Delta R.T. -0.007 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

Tgt Ion: 88 Resp: 17475
Ion Ratio Lower Upper
88 100
43 34.0 30.6 46.0
58 81.7 64.5 96.7

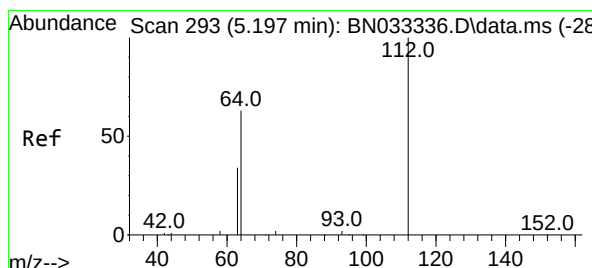
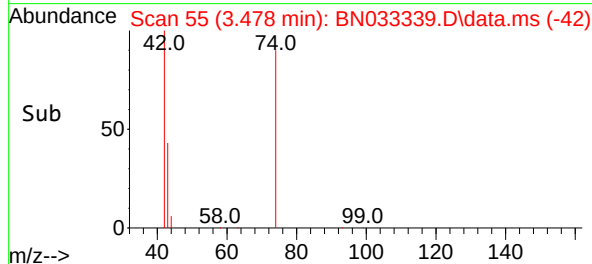
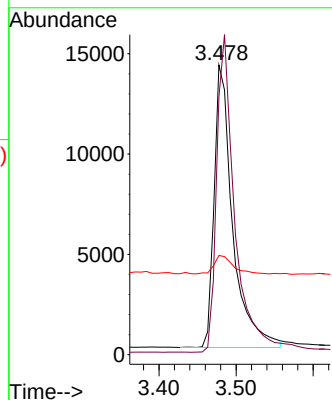
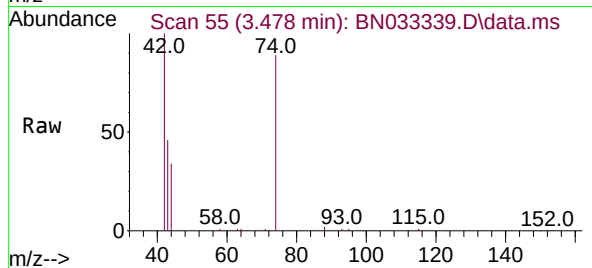




#3
n-Nitrosodimethylamine
Concen: 3.177 ng
RT: 3.478 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

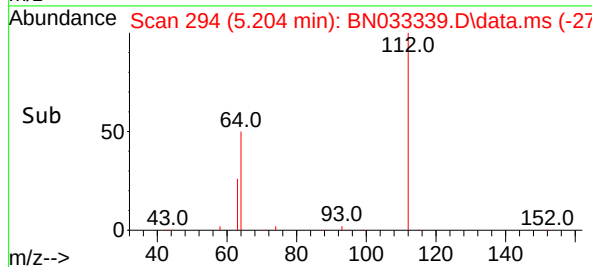
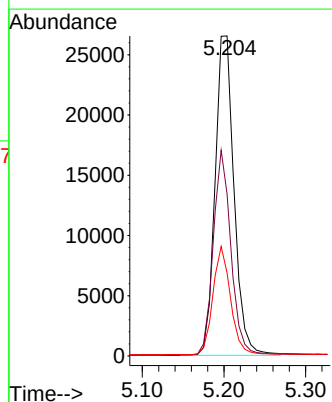
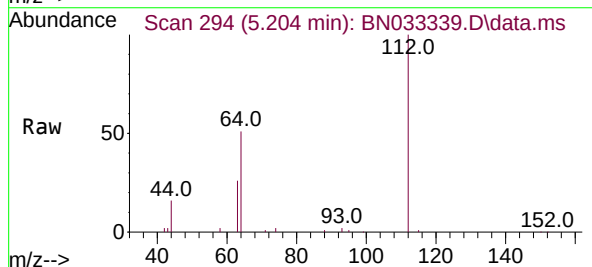
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

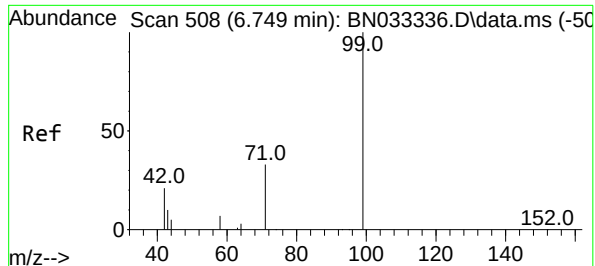
Tgt Ion: 42 Resp: 23490
Ion Ratio Lower Upper
42 100
74 109.4 89.0 133.6
44 6.6 11.0 16.4#



#4
2-Fluorophenol
Concen: 3.089 ng
RT: 5.204 min Scan# 294
Delta R.T. 0.007 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

Tgt Ion: 112 Resp: 42702
Ion Ratio Lower Upper
112 100
64 59.7 48.1 72.1
63 31.5 25.4 38.2

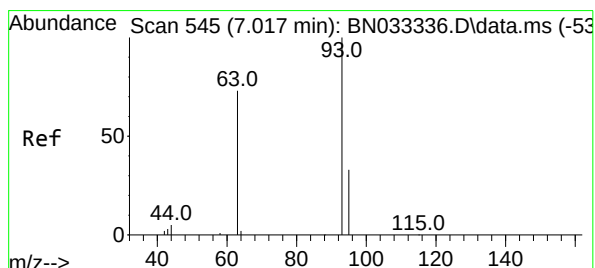
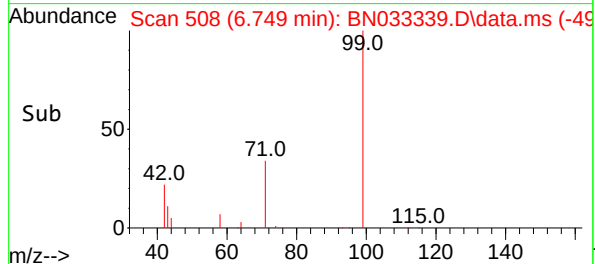
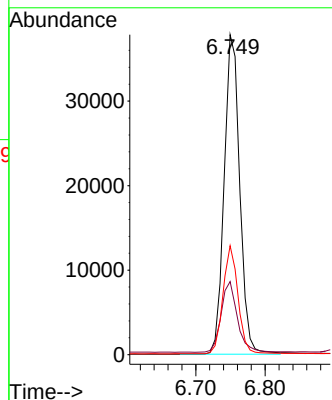
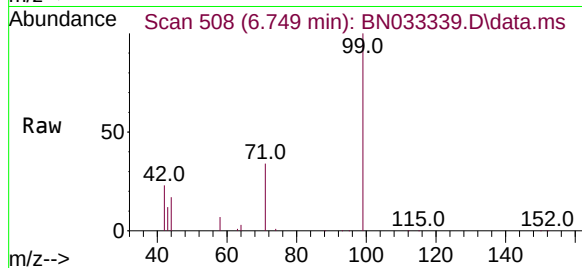




#5
Phenol-d6
Concen: 3.120 ng
RT: 6.749 min Scan# 508
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

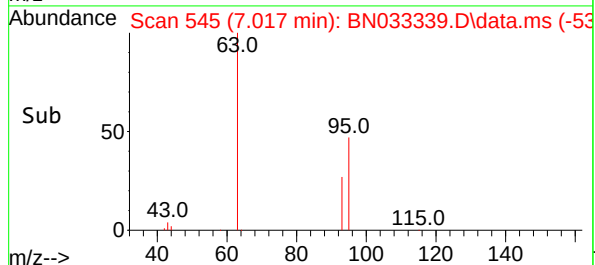
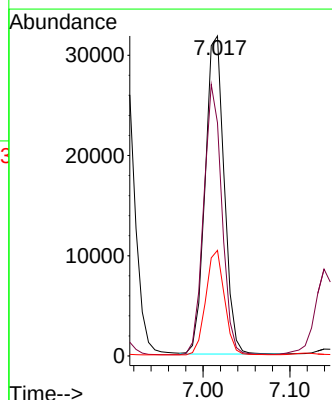
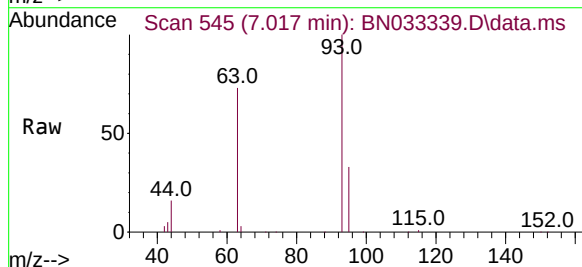
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

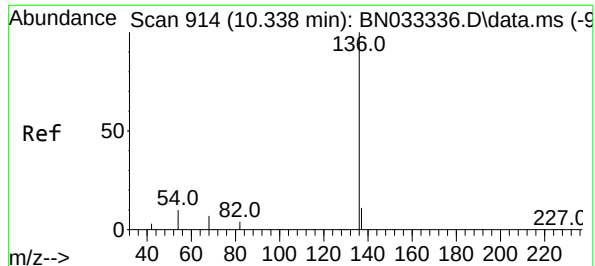
Tgt Ion: 99 Resp: 58960
Ion Ratio Lower Upper
99 100
42 23.0 18.5 27.7
71 32.6 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 2.990 ng
RT: 7.017 min Scan# 545
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

Tgt Ion: 93 Resp: 48333
Ion Ratio Lower Upper
93 100
63 81.7 65.2 97.8
95 32.4 26.2 39.4

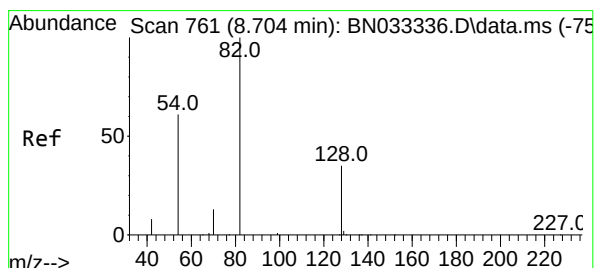
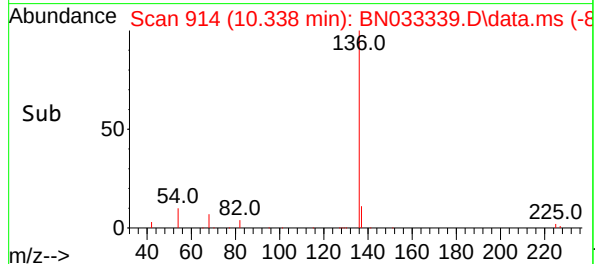
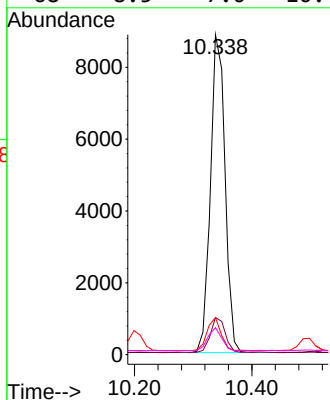
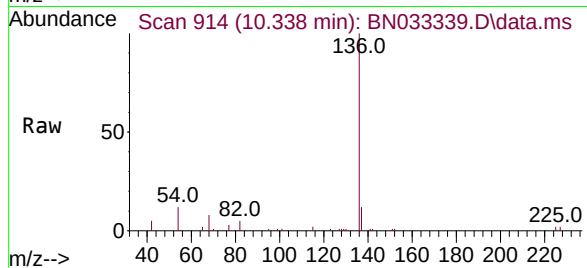




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.338 min Scan# 914
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

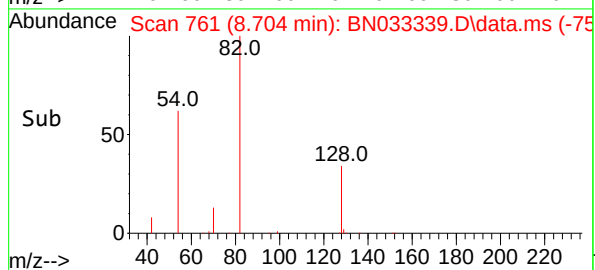
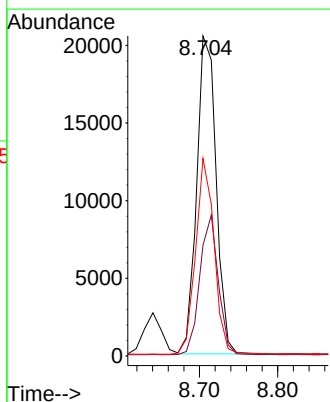
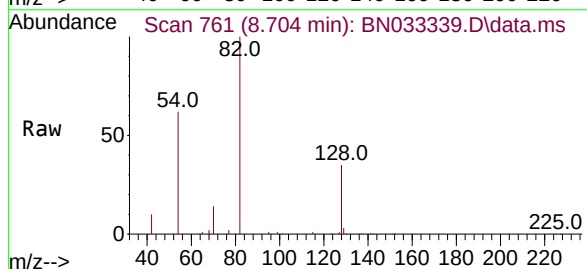
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

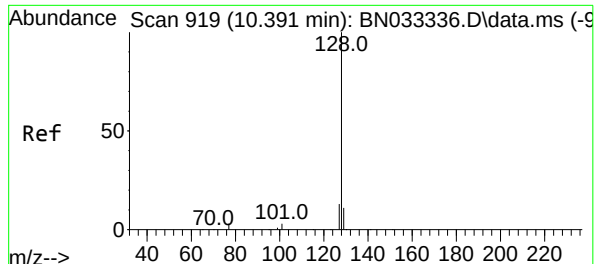
Tgt Ion:	136	Resp:	15260
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	11.6	9.4	14.0
68	8.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 3.804 ng
RT: 8.704 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

Tgt Ion:	82	Resp:	35417
Ion	Ratio	Lower	Upper
82	100		
128	34.6	29.0	43.4
54	61.7	50.2	75.4





#9

Naphthalene

Concen: 3.055 ng

RT: 10.391 min Scan# 919

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

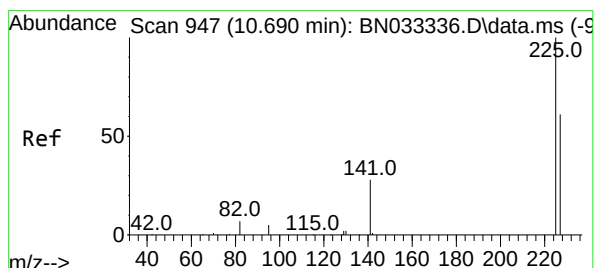
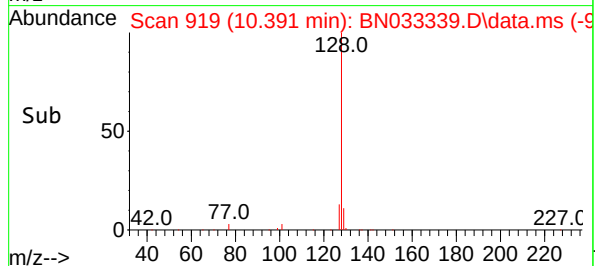
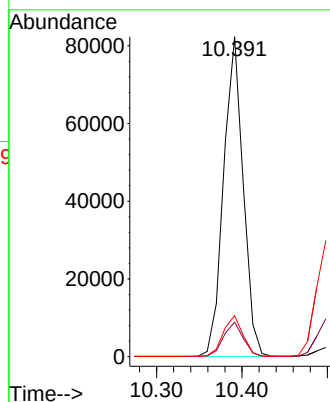
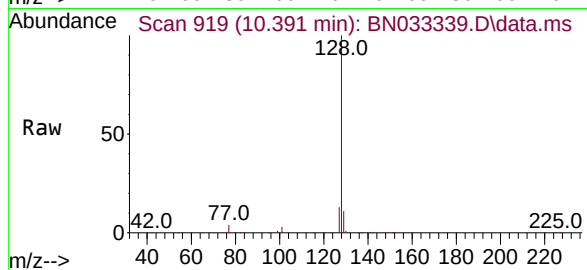
Tgt Ion:128 Resp: 130871

Ion Ratio Lower Upper

128 100

129 10.8 9.2 13.8

127 12.8 10.6 15.8



#10

Hexachlorobutadiene

Concen: 3.131 ng

RT: 10.690 min Scan# 947

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

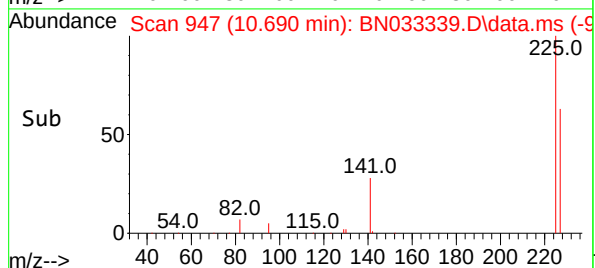
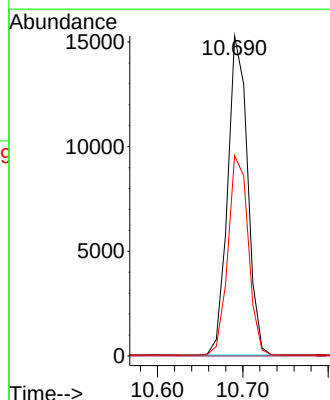
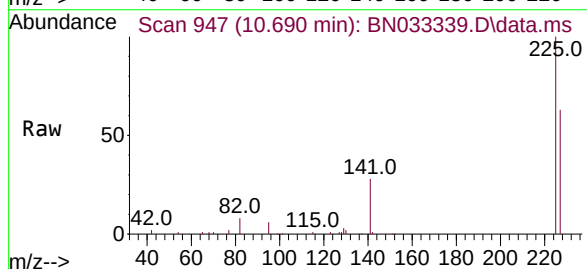
Tgt Ion:225 Resp: 24642

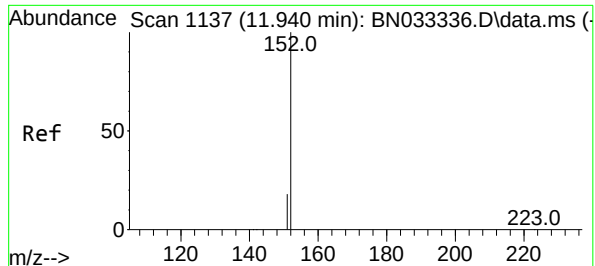
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 50.8 76.2

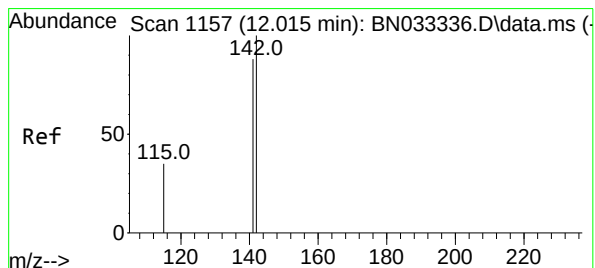
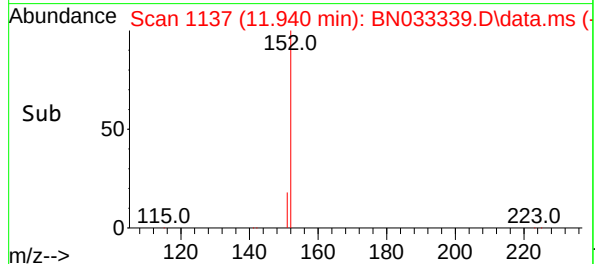
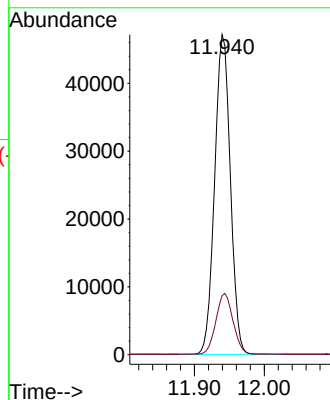
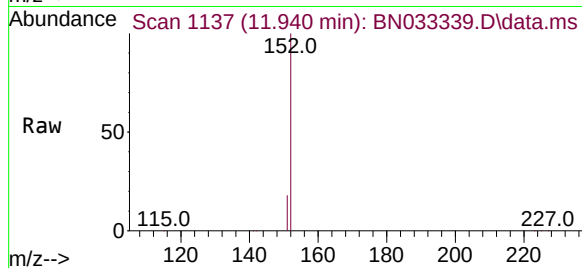




#11
2-Methylnaphthalene-d10
Concen: 3.095 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

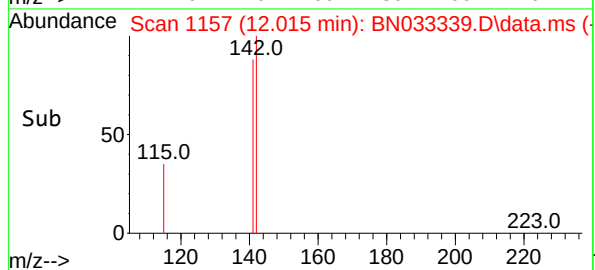
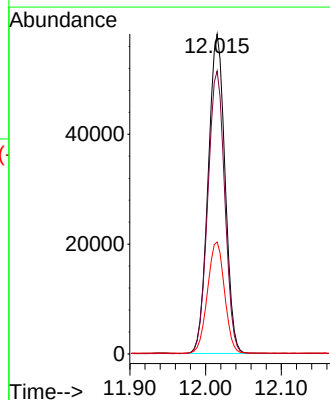
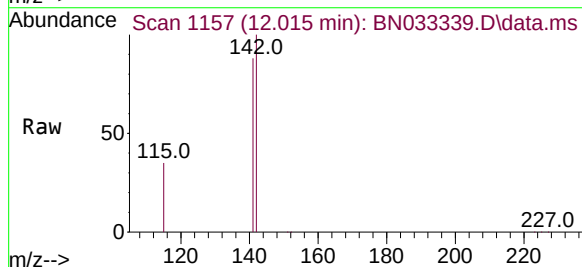
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

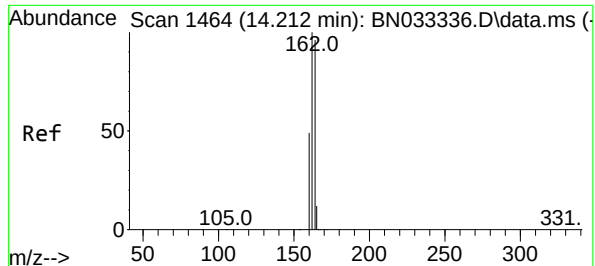
Tgt Ion:152 Resp: 73579
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#12
2-Methylnaphthalene
Concen: 3.041 ng
RT: 12.015 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

Tgt Ion:142 Resp: 89784
Ion Ratio Lower Upper
142 100
141 88.4 70.2 105.4
115 35.0 29.3 43.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.212 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

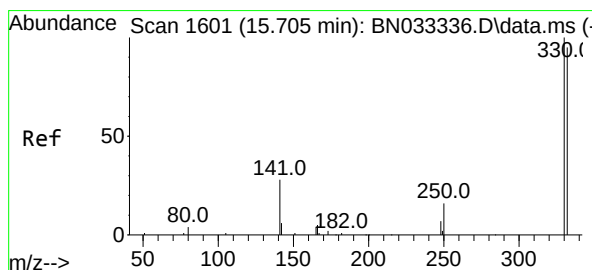
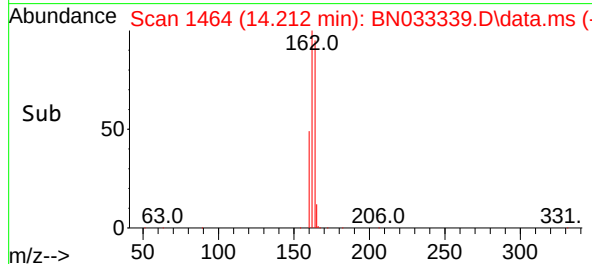
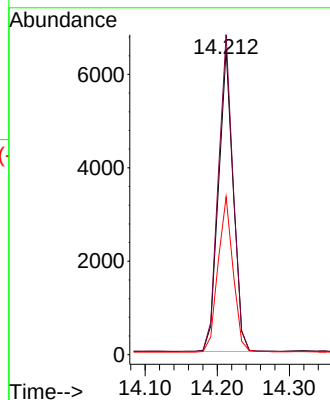
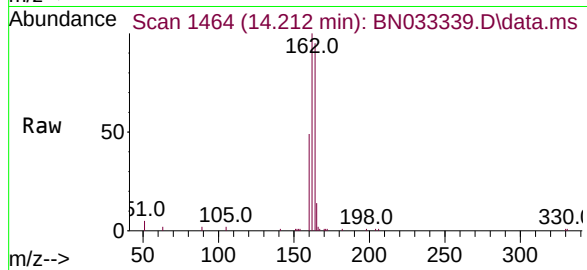
Tgt Ion:164 Resp: 9131

Ion Ratio Lower Upper

164 100

162 104.7 83.1 124.7

160 51.7 41.1 61.7



#14

2,4,6-Tribromophenol

Concen: 4.012 ng

RT: 15.704 min Scan# 1601

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

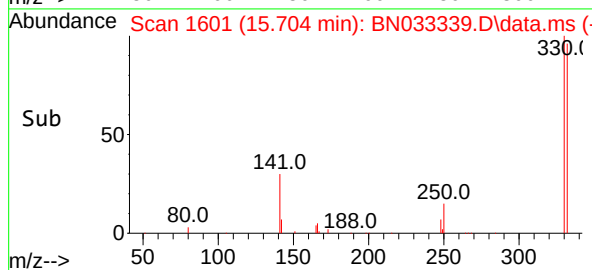
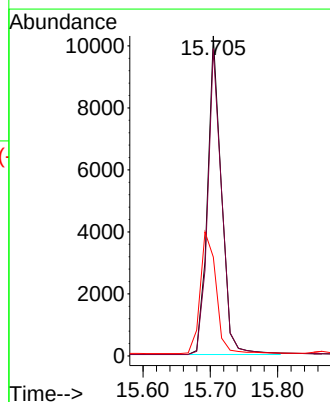
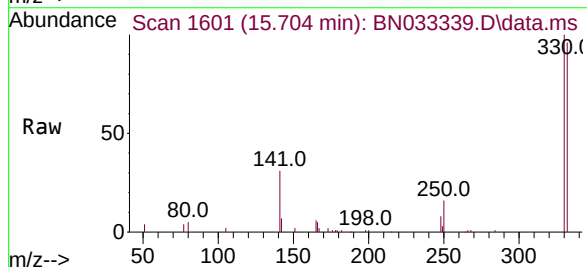
Tgt Ion:330 Resp: 14824

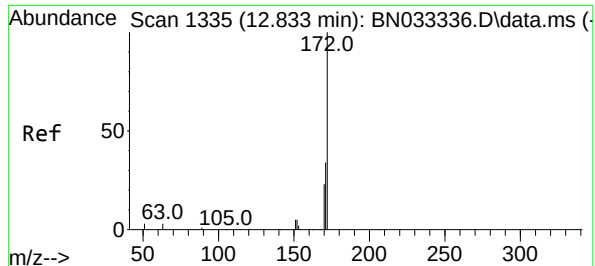
Ion Ratio Lower Upper

330 100

332 96.5 77.1 115.7

141 43.4 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 3.360 ng

RT: 12.833 min Scan# 1335

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

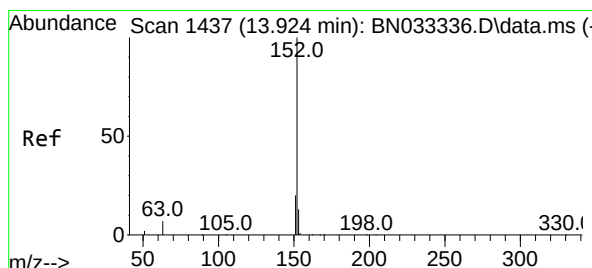
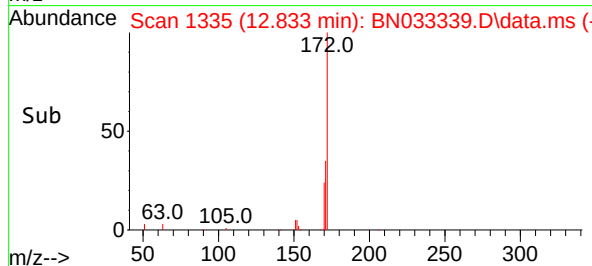
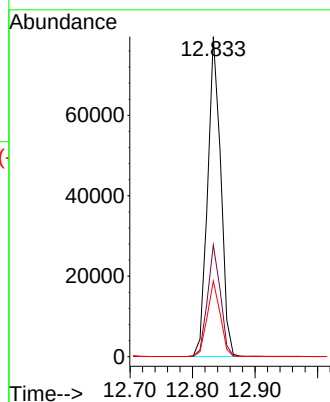
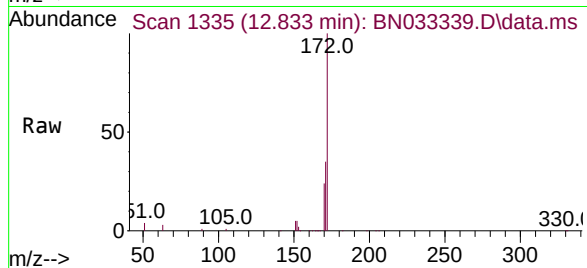
Tgt Ion:172 Resp: 115599

Ion Ratio Lower Upper

172 100

171 34.9 27.8 41.8

170 23.6 18.7 28.1



#16

Acenaphthylene

Concen: 3.144 ng

RT: 13.924 min Scan# 1437

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

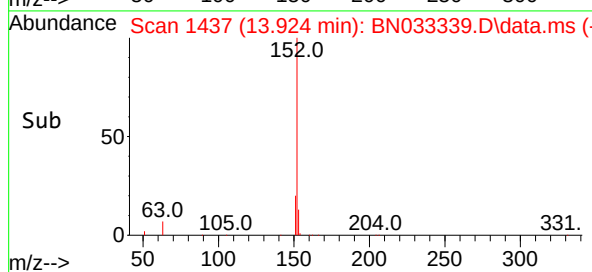
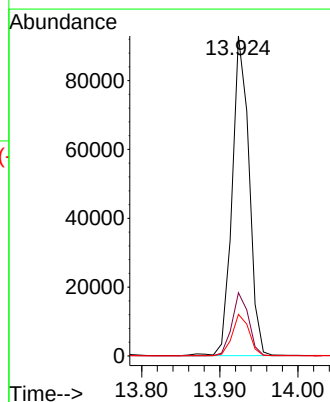
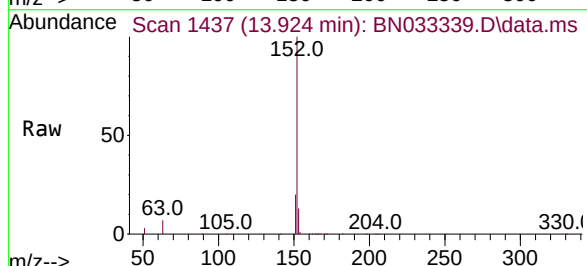
Tgt Ion:152 Resp: 140151

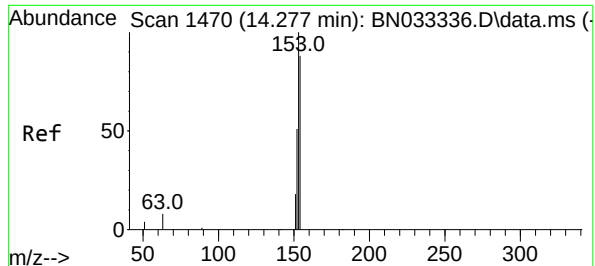
Ion Ratio Lower Upper

152 100

151 19.4 15.7 23.5

153 12.9 10.4 15.6





#17

Acenaphthene

Concen: 3.312 ng

RT: 14.276 min Scan# 1470

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

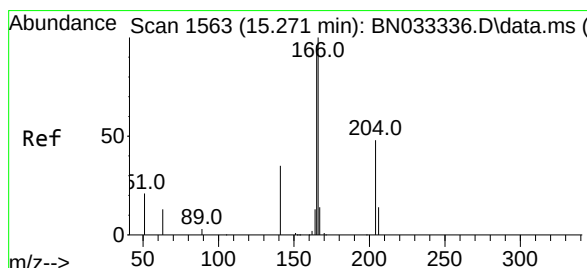
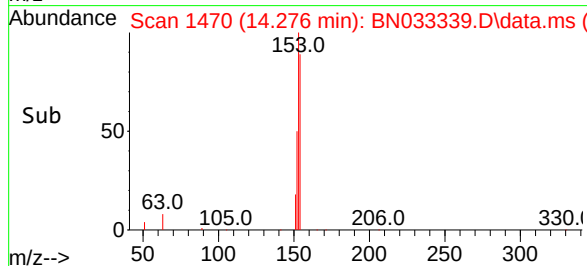
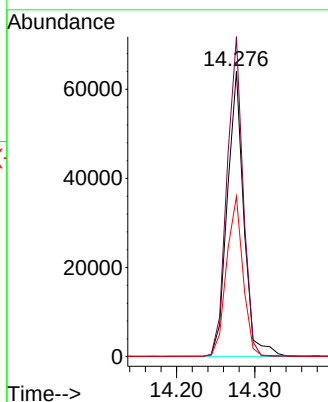
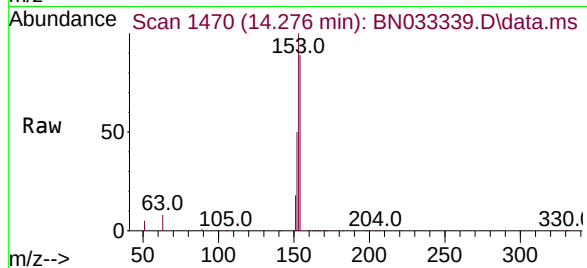
Tgt Ion:154 Resp: 93685

Ion Ratio Lower Upper

154 100

153 109.3 89.7 134.5

152 56.1 47.2 70.8



#18

Fluorene

Concen: 3.265 ng

RT: 15.271 min Scan# 1563

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

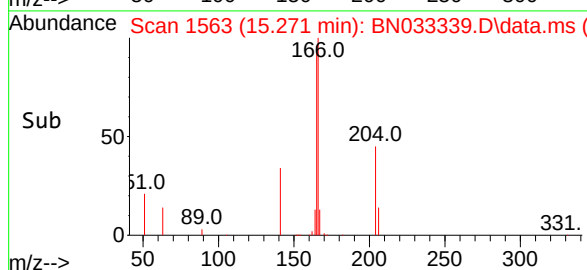
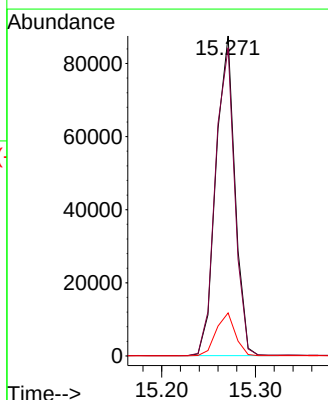
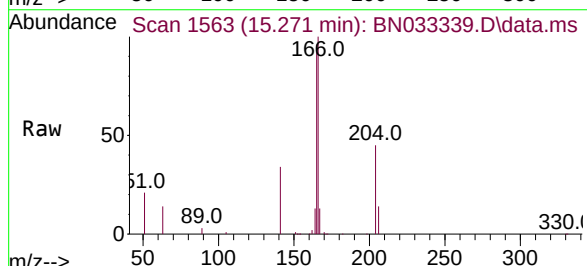
Tgt Ion:166 Resp: 123400

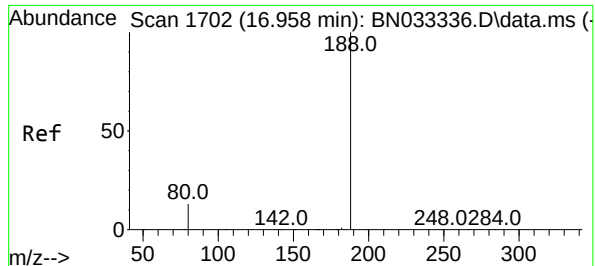
Ion Ratio Lower Upper

166 100

165 98.3 78.0 117.0

167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.958 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

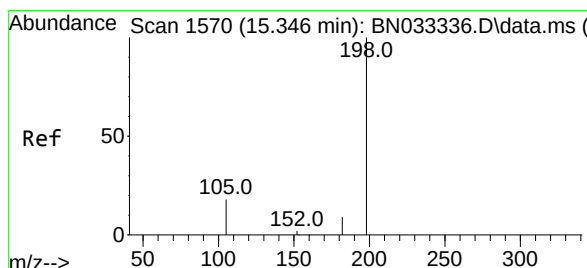
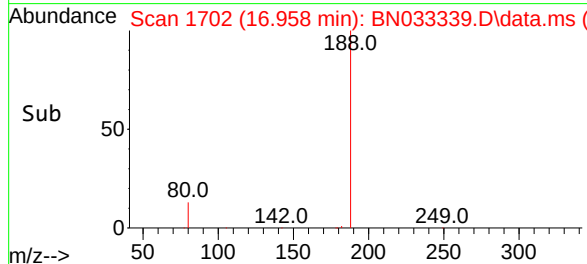
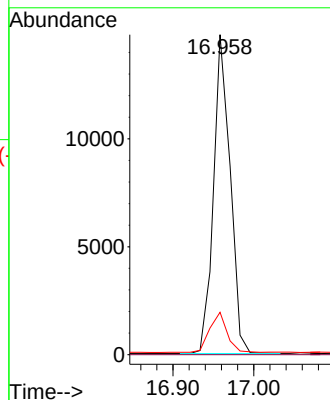
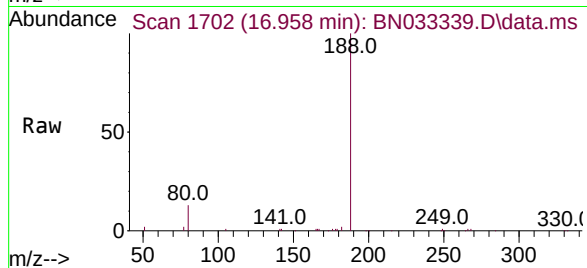
Tgt Ion:188 Resp: 21111

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.3 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 6.111 ng

RT: 15.346 min Scan# 1570

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

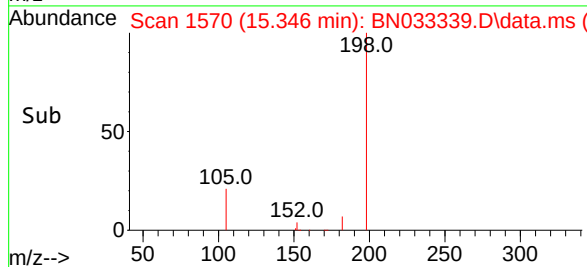
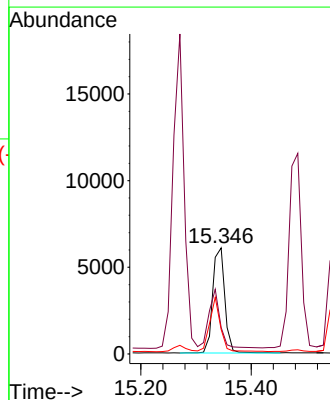
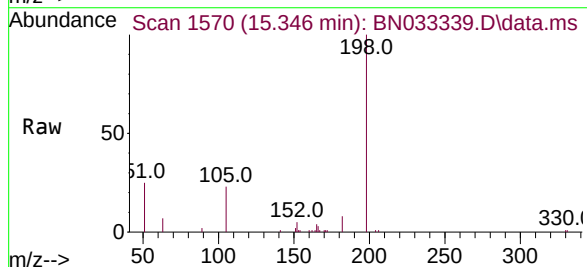
Tgt Ion:198 Resp: 9224

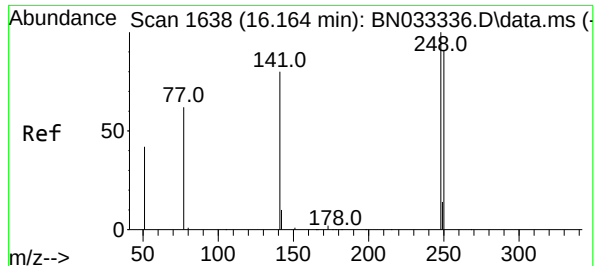
Ion Ratio Lower Upper

198 100

51 24.9 62.8 94.2#

105 23.1 34.1 51.1#

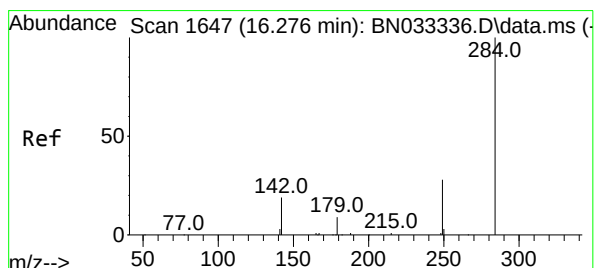
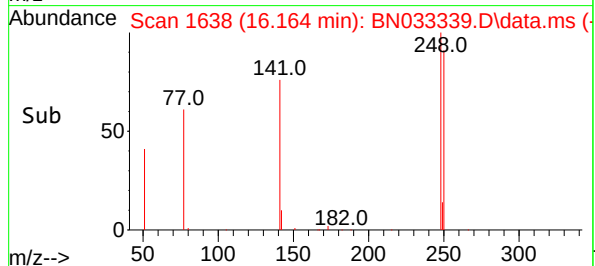
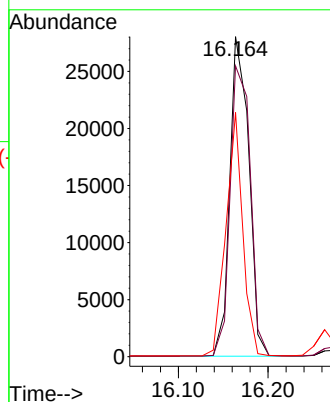
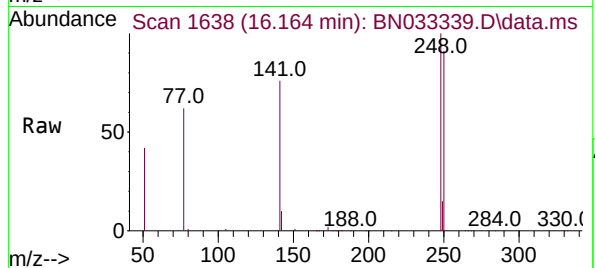




#21
4-Bromophenyl-phenylether
Concen: 3.221 ng
RT: 16.164 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

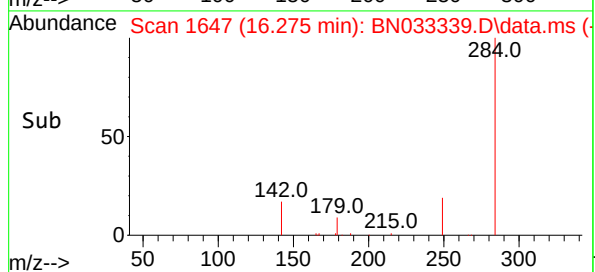
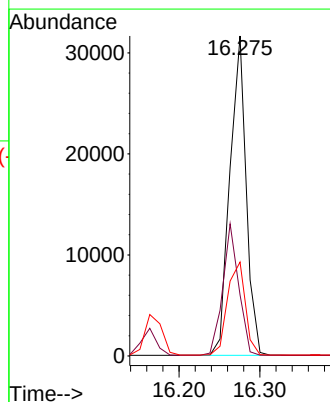
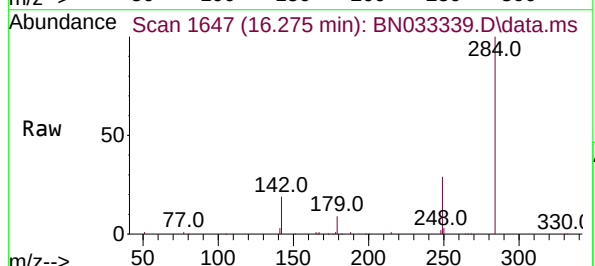
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

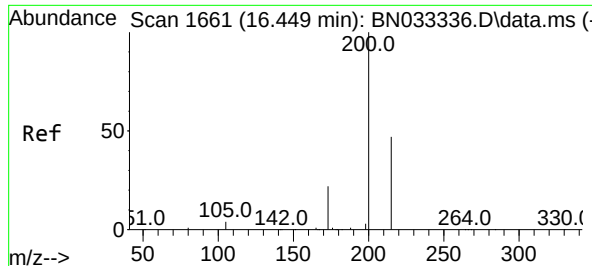
Tgt Ion:248 Resp: 41278
Ion Ratio Lower Upper
248 100
250 90.8 73.0 109.4
141 76.3 64.6 96.8



#22
Hexachlorobenzene
Concen: 3.300 ng
RT: 16.275 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

Tgt Ion:284 Resp: 44412
Ion Ratio Lower Upper
284 100
142 40.3 32.2 48.4
249 31.9 25.3 37.9

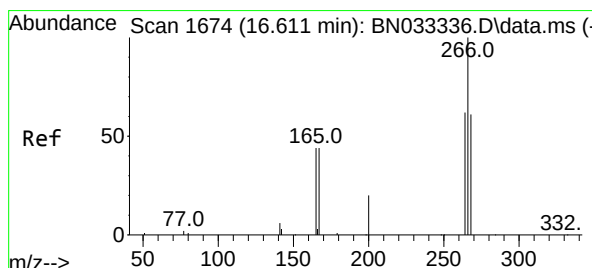
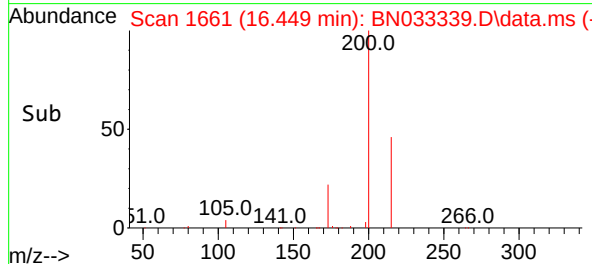
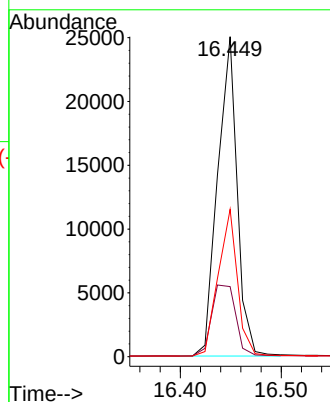
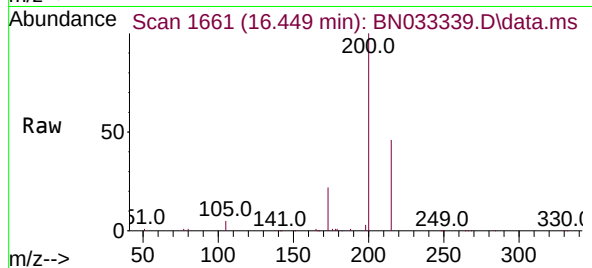




#23
Atrazine
Concen: 3.173 ng
RT: 16.449 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

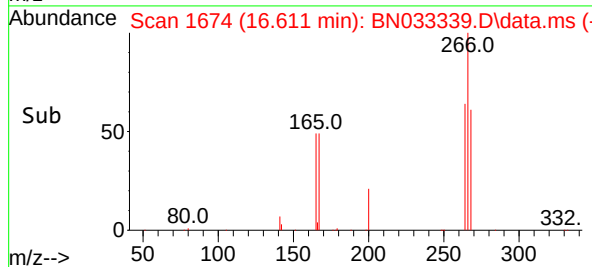
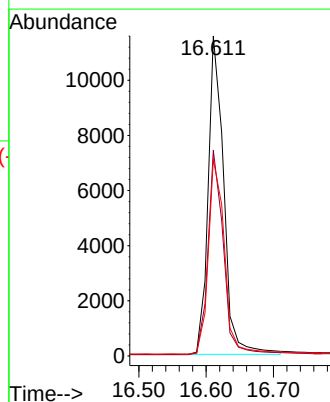
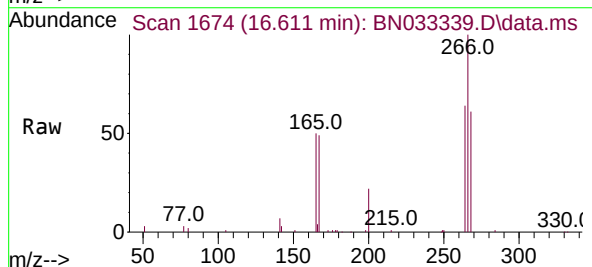
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

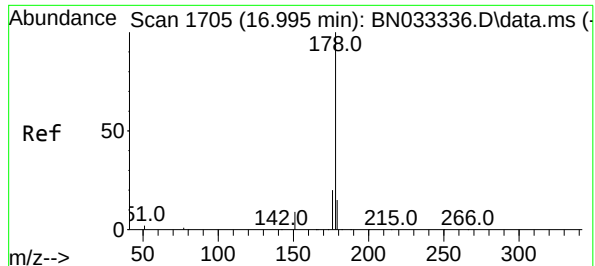
Tgt Ion:200 Resp: 33584
Ion Ratio Lower Upper
200 100
173 21.9 18.7 28.1
215 46.0 38.6 58.0



#24
Pentachlorophenol
Concen: 3.955 ng
RT: 16.611 min Scan# 1674
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

Tgt Ion:266 Resp: 18657
Ion Ratio Lower Upper
266 100
264 63.1 49.2 73.8
268 63.0 51.2 76.8





#25

Phenanthrene

Concen: 3.191 ng

RT: 16.995 min Scan# 1705

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

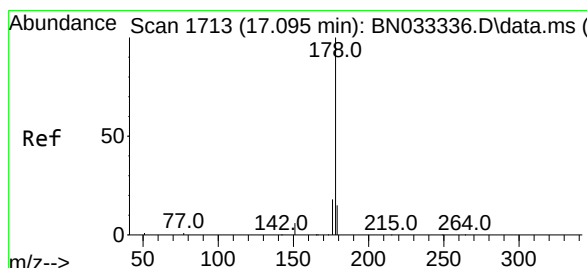
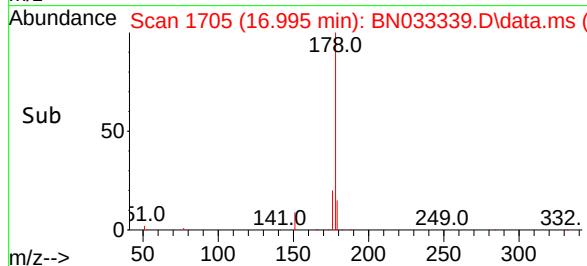
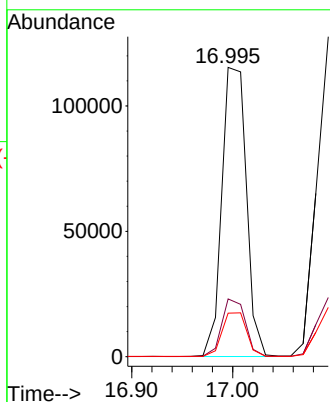
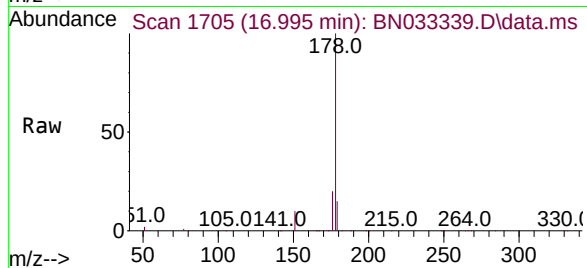
Tgt Ion:178 Resp: 194936

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.0

179 15.2 12.2 18.2



#26

Anthracene

Concen: 3.024 ng

RT: 17.095 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

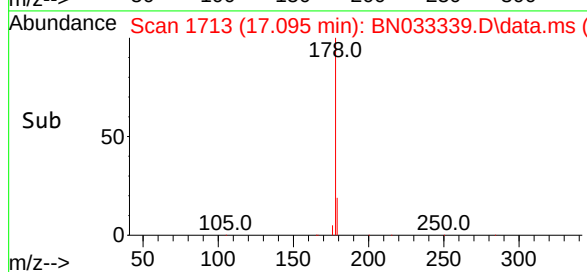
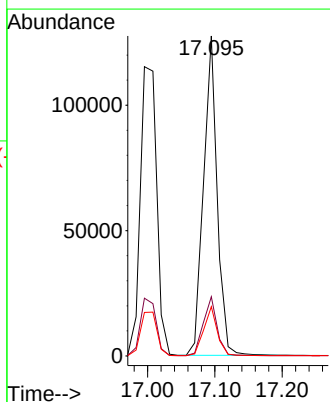
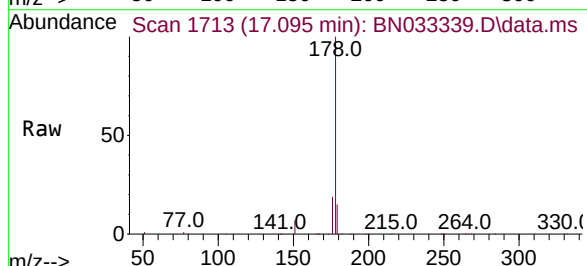
Tgt Ion:178 Resp: 179685

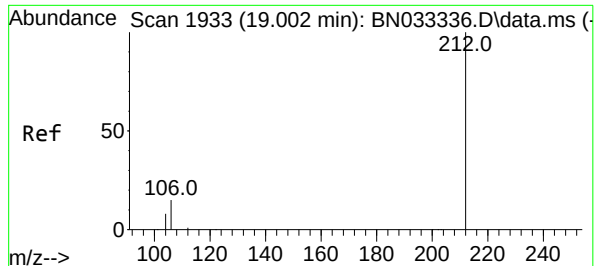
Ion Ratio Lower Upper

178 100

176 18.6 14.7 22.1

179 15.3 12.2 18.2





#27

Fluoranthene-d10

Concen: 3.138 ng

RT: 19.002 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

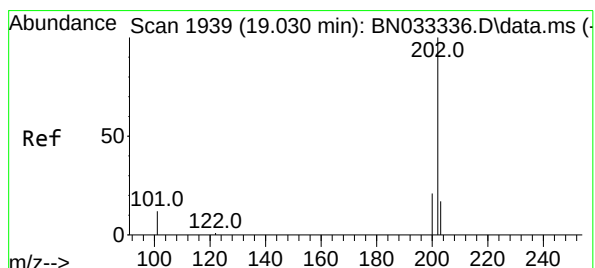
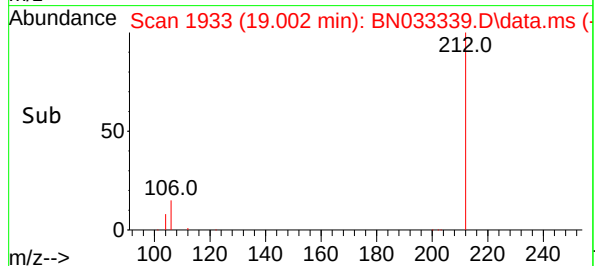
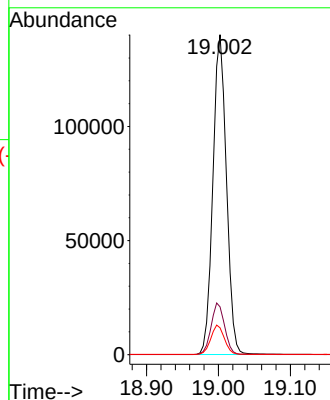
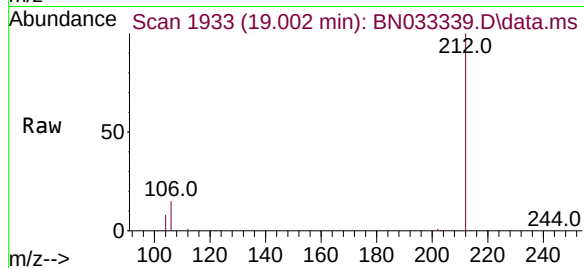
Tgt Ion:212 Resp: 182286

Ion Ratio Lower Upper

212 100

106 16.1 12.8 19.2

104 9.1 7.1 10.7



#28

Fluoranthene

Concen: 3.213 ng

RT: 19.030 min Scan# 1939

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

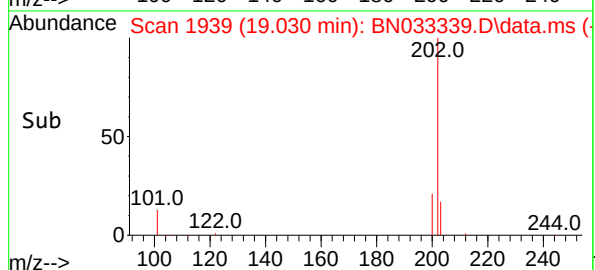
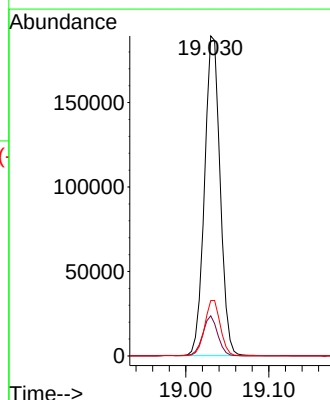
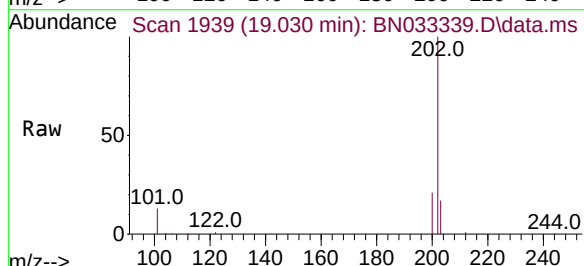
Tgt Ion:202 Resp: 247568

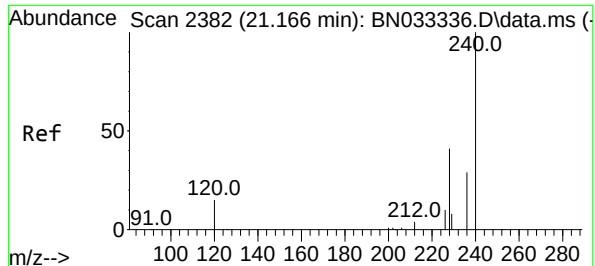
Ion Ratio Lower Upper

202 100

101 12.2 9.8 14.6

203 17.4 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.166 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

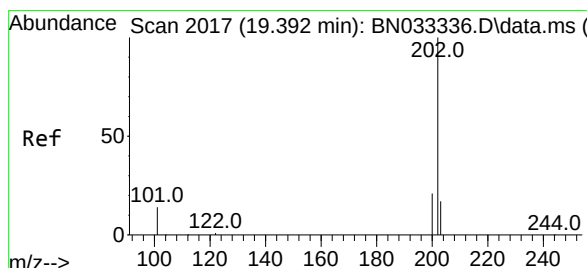
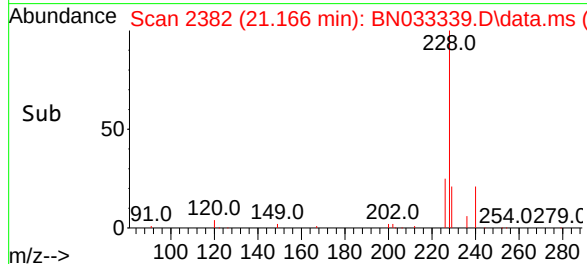
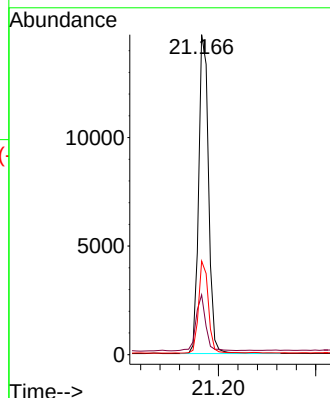
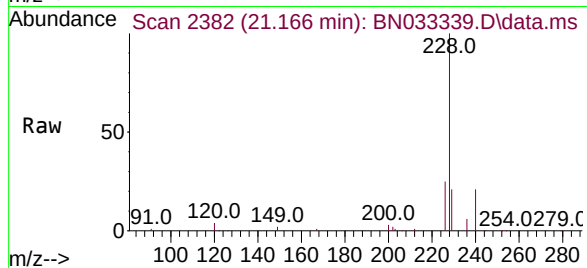
Tgt Ion:240 Resp: 20597

Ion Ratio Lower Upper

240 100

120 18.7 13.0 19.6

236 29.2 23.2 34.8



#30

Pyrene

Concen: 3.139 ng

RT: 19.392 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

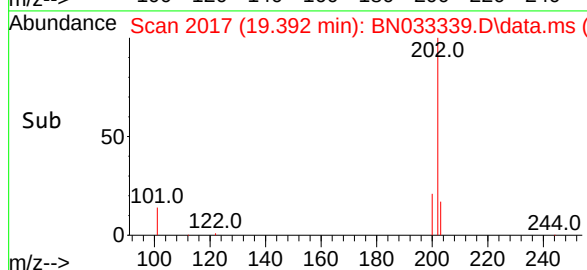
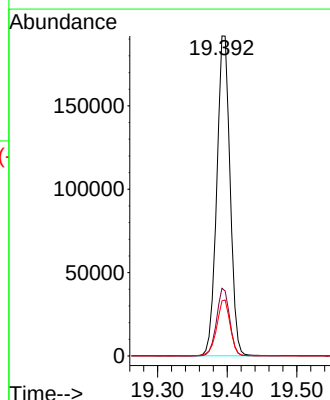
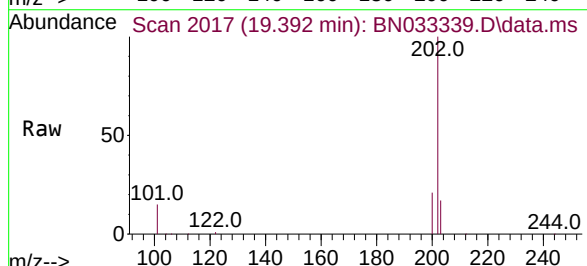
Tgt Ion:202 Resp: 254355

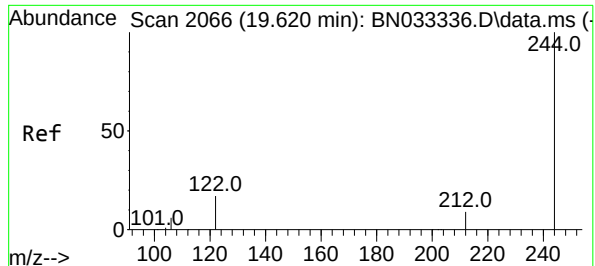
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 17.7 14.2 21.4

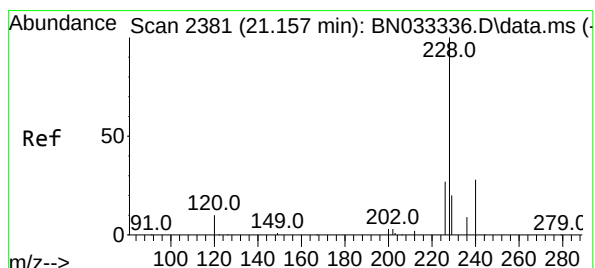
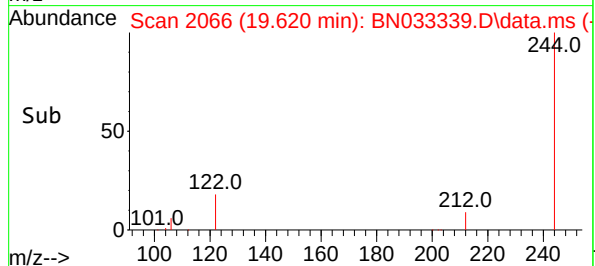
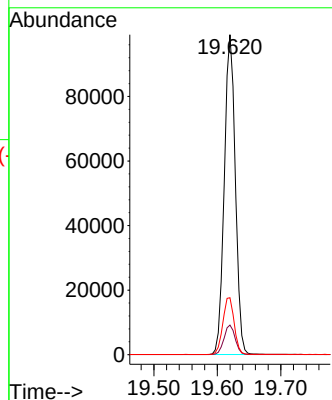
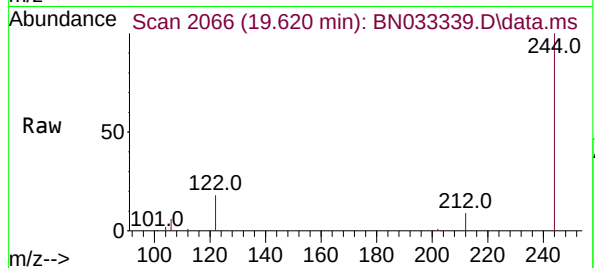




#31
Terphenyl-d14
Concen: 3.371 ng
RT: 19.620 min Scan# 2066
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

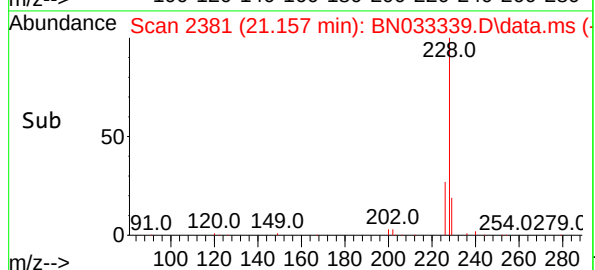
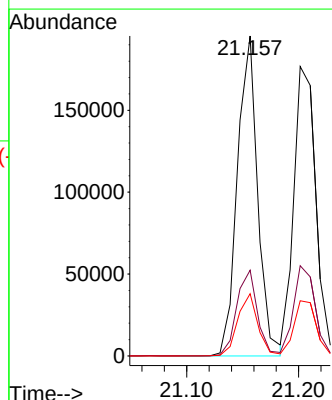
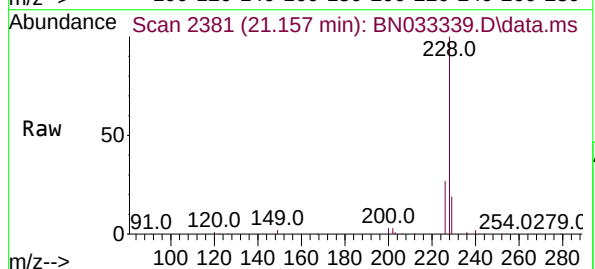
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

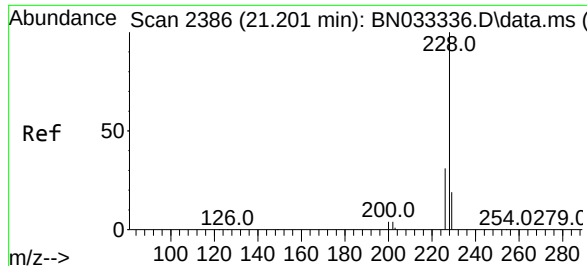
Tgt Ion:244 Resp: 119744
Ion Ratio Lower Upper
244 100
212 9.2 7.7 11.5
122 17.8 14.0 21.0



#32
Benzo(a)anthracene
Concen: 3.088 ng
RT: 21.157 min Scan# 2381
Delta R.T. -0.000 min
Lab File: BN033339.D
Acq: 10 Aug 2024 16:41

Tgt Ion:228 Resp: 246978
Ion Ratio Lower Upper
228 100
226 26.8 21.6 32.4
229 19.4 15.9 23.9





#33

Chrysene

Concen: 3.110 ng

RT: 21.201 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

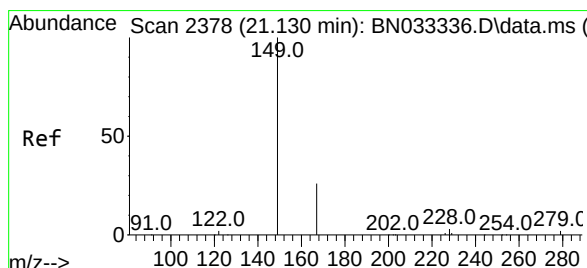
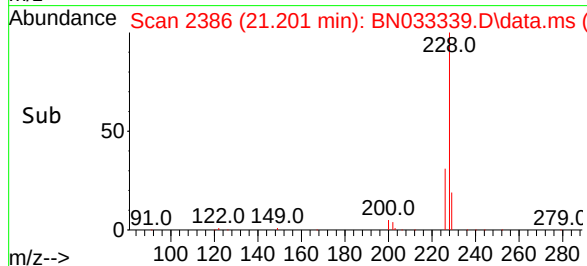
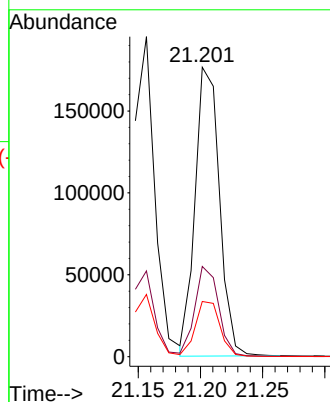
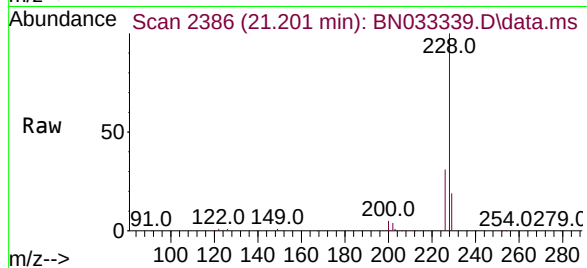
Tgt Ion:228 Resp: 240847

Ion Ratio Lower Upper

228 100

226 31.2 24.7 37.1

229 19.1 15.4 23.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.823 ng

RT: 21.130 min Scan# 2378

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

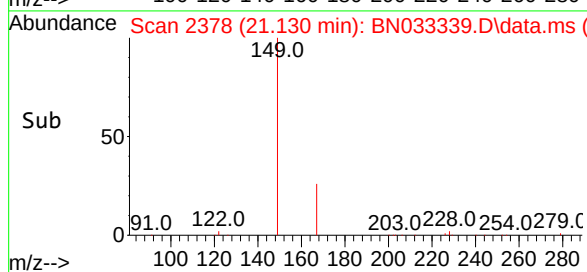
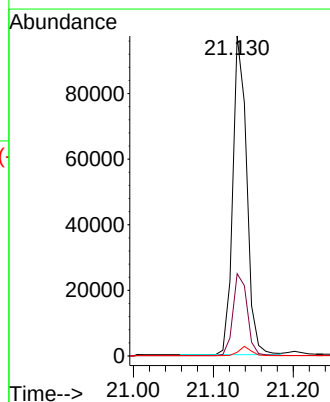
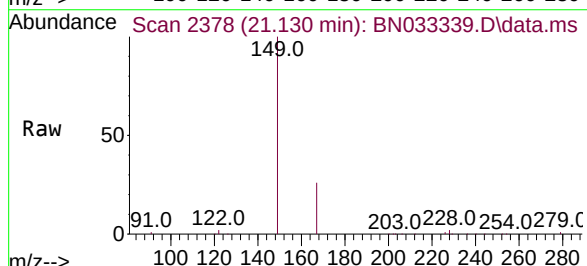
Tgt Ion:149 Resp: 116961

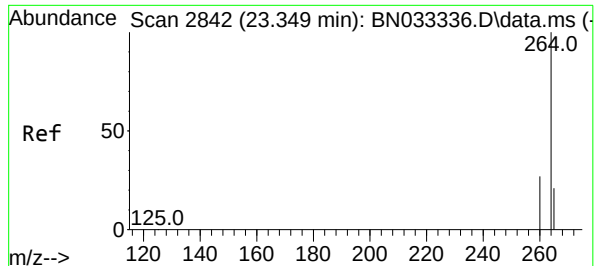
Ion Ratio Lower Upper

149 100

167 26.3 20.9 31.3

279 2.6 2.2 3.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.352 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

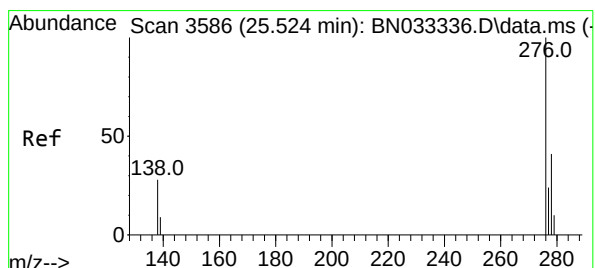
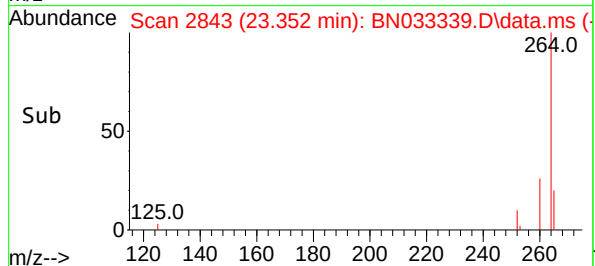
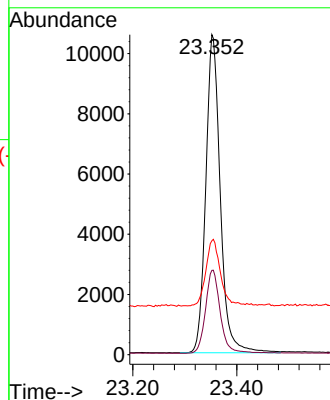
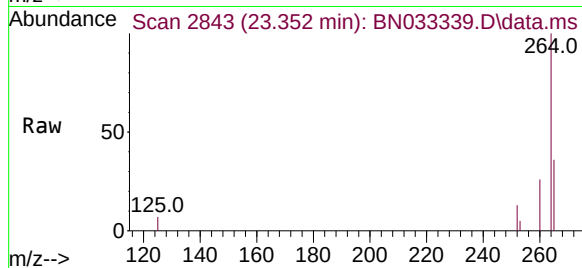
Tgt Ion:264 Resp: 20443

Ion Ratio Lower Upper

264 100

260 26.4 21.6 32.4

265 35.6 29.3 43.9



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.121 ng

RT: 25.530 min Scan# 3588

Delta R.T. 0.006 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

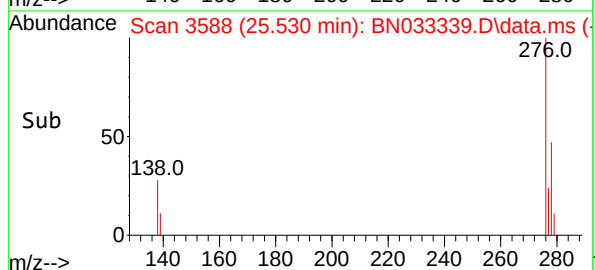
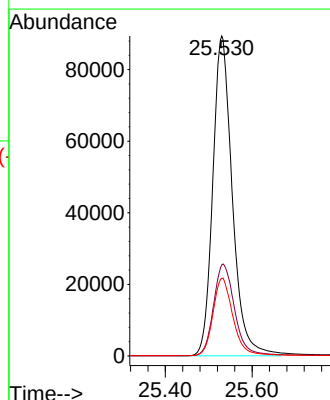
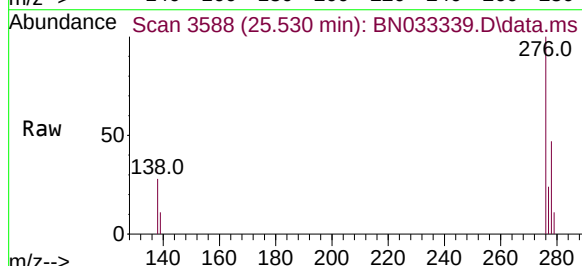
Tgt Ion:276 Resp: 279128

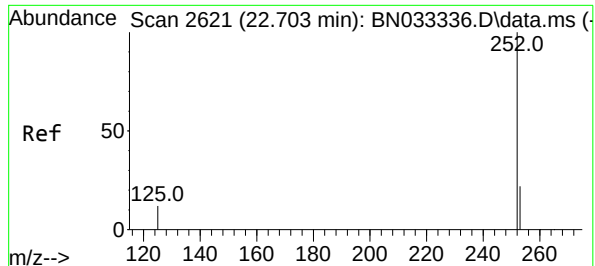
Ion Ratio Lower Upper

276 100

138 30.7 24.9 37.3

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 3.299 ng

RT: 22.703 min Scan# 2621

Delta R.T. -0.000 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

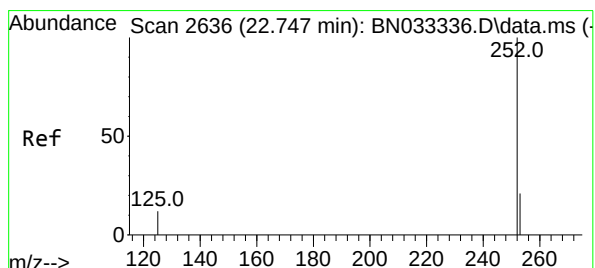
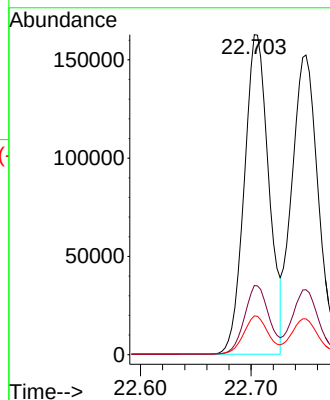
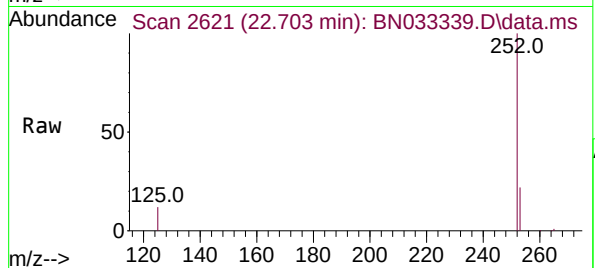
Tgt Ion:252 Resp: 250658

Ion Ratio Lower Upper

252 100

253 21.6 18.2 27.2

125 12.1 11.3 16.9



#38

Benzo(k)fluoranthene

Concen: 3.494 ng

RT: 22.750 min Scan# 2637

Delta R.T. 0.003 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

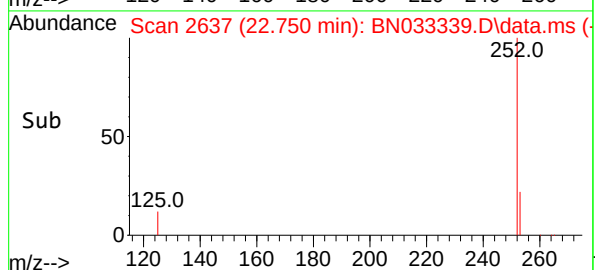
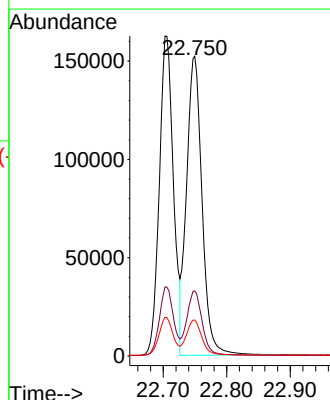
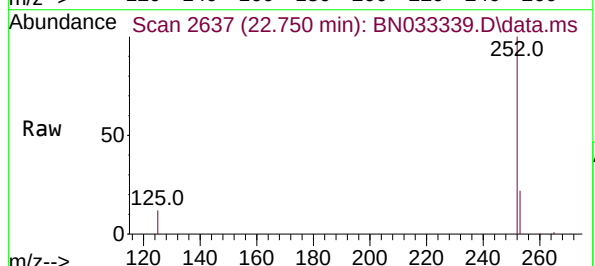
Tgt Ion:252 Resp: 257833

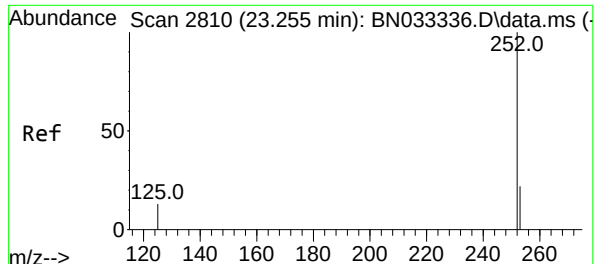
Ion Ratio Lower Upper

252 100

253 21.7 17.9 26.9

125 12.0 11.3 16.9





#39

Benzo(a)pyrene

Concen: 3.189 ng

RT: 23.258 min Scan# 215290

Delta R.T. 0.003 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

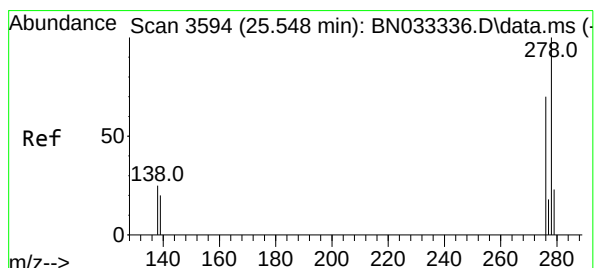
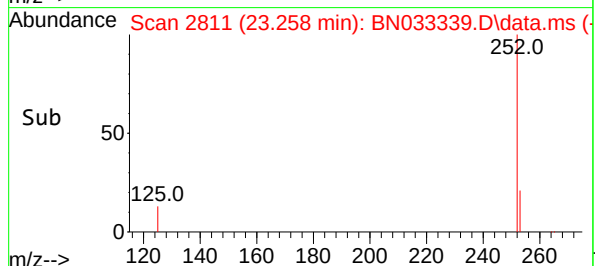
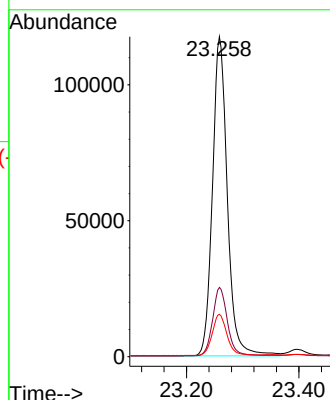
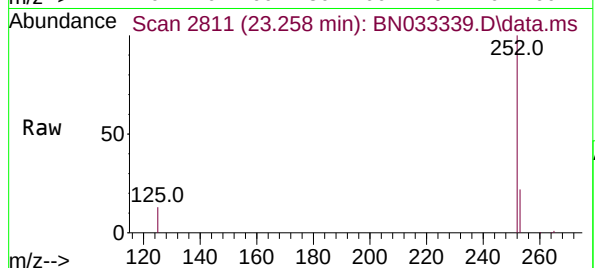
Tgt Ion:252 Resp: 215290

Ion Ratio Lower Upper

252 100

253 21.7 18.6 28.0

125 13.2 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 3.155 ng

RT: 25.551 min Scan# 3595

Delta R.T. 0.003 min

Lab File: BN033339.D

Acq: 10 Aug 2024 16:41

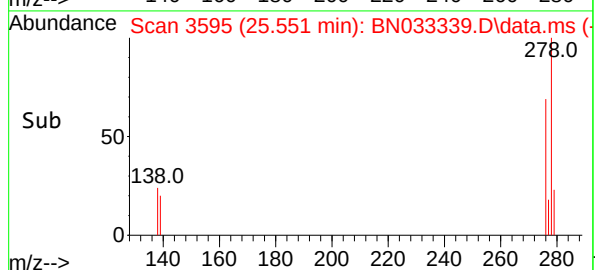
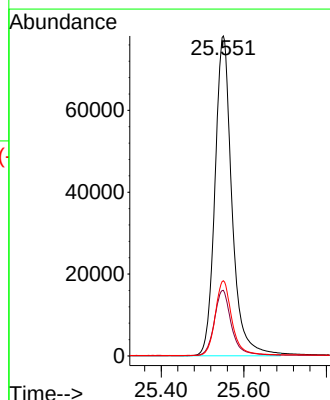
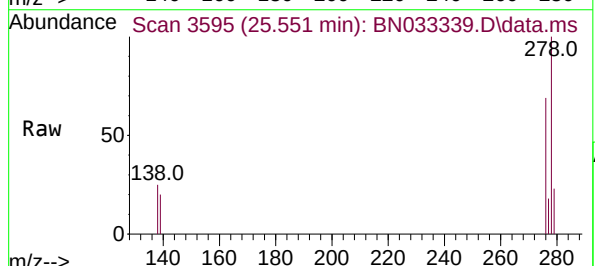
Tgt Ion:278 Resp: 222884

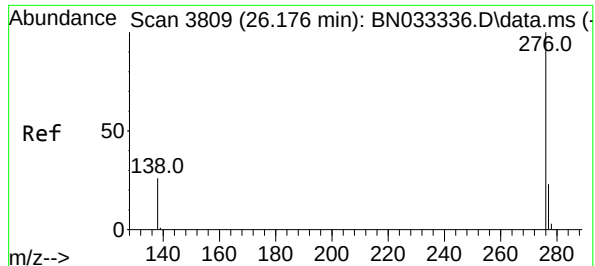
Ion Ratio Lower Upper

278 100

139 20.5 17.0 25.6

279 23.5 20.0 30.0





#41

Benzo(g,h,i)perylene

Concen: 3.106 ng

RT: 26.185 min Scan# 3812

Delta R.T. 0.009 min

Lab File: BN033339.D

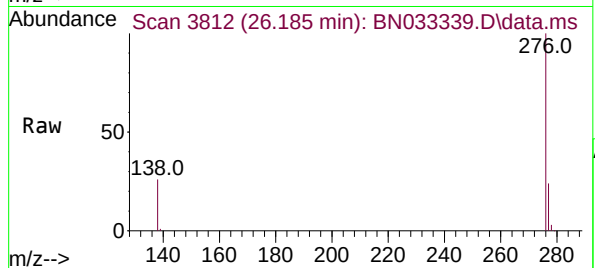
Acq: 10 Aug 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



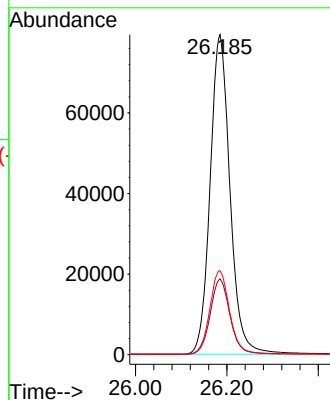
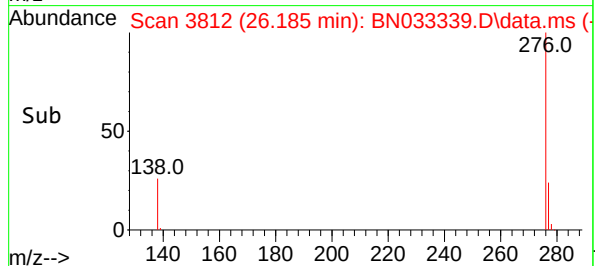
Tgt Ion:276 Resp: 238617

Ion Ratio Lower Upper

276 100

277 23.7 19.4 29.2

138 26.2 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
 Data File : BN033340.D
 Acq On : 10 Aug 2024 17:17
 Operator : MA/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Aug 12 01:02:42 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 12 00:59:25 2024
 Response via : Initial Calibration

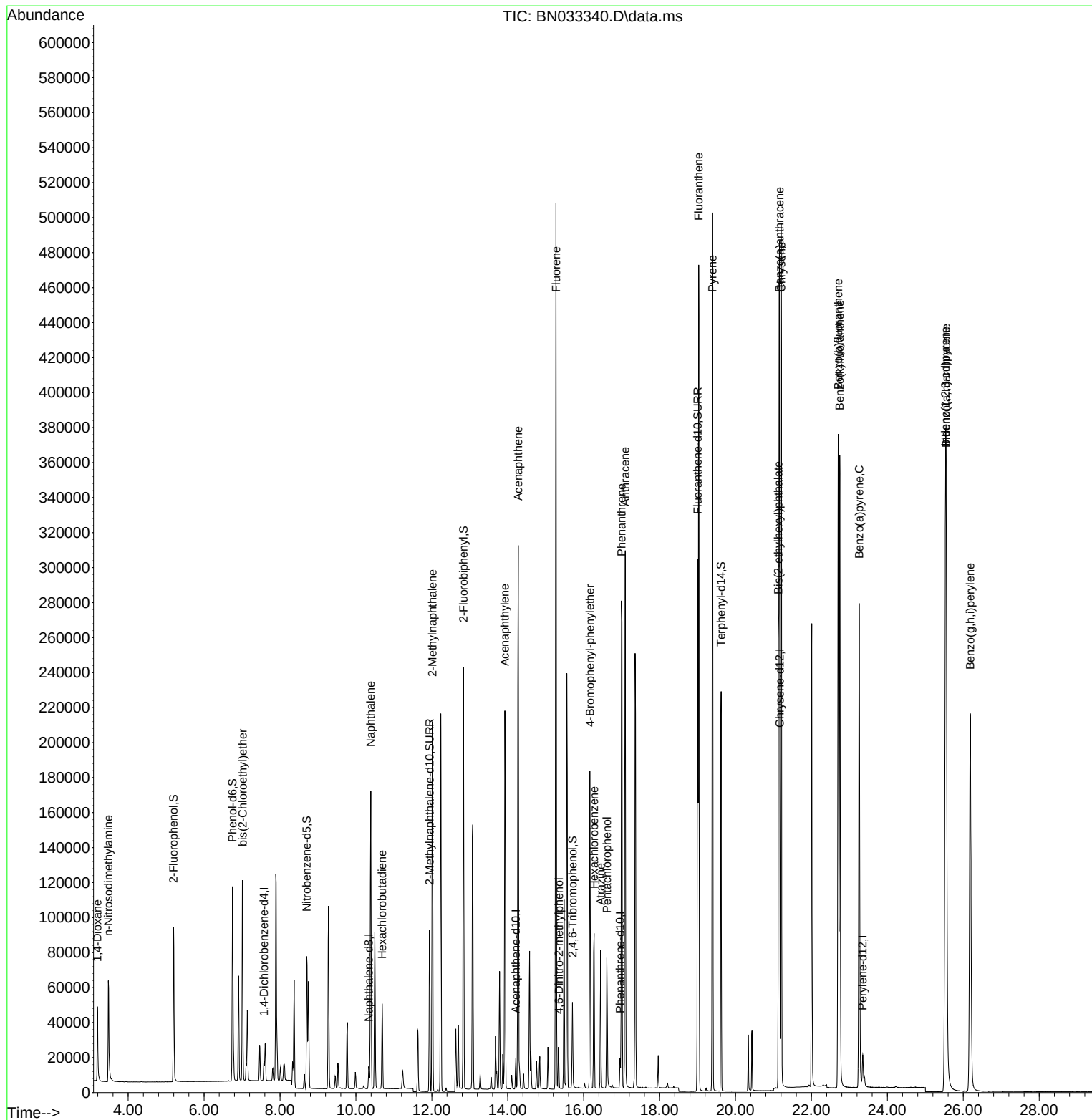
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.580	152	5294	0.400	ng	0.00
7) Naphthalene-d8	10.338	136	15482	0.400	ng	0.00
13) Acenaphthene-d10	14.212	164	9410	0.400	ng	0.00
19) Phenanthrene-d10	16.958	188	21883	0.400	ng	0.00
29) Chrysene-d12	21.166	240	21930	0.400	ng	0.00
35) Perylene-d12	23.352	264	21624	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.197	112	67536	4.846	ng	0.00
5) Phenol-d6	6.749	99	95521	5.014	ng	0.00
8) Nitrobenzene-d5	8.704	82	58299	6.172	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	120490	4.995	ng	0.00
14) 2,4,6-Tribromophenol	15.704	330	25439	6.681	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	188343	5.313	ng	0.00
27) Fluoranthene-d10	19.002	212	306352	5.088	ng	0.00
31) Terphenyl-d14	19.620	244	201464	5.327	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.189	88	26458	4.514	ng	97
3) n-Nitrosodimethylamine	3.478	42	36608	4.913	ng	# 98
6) bis(2-Chloroethyl)ether	7.017	93	76831	4.716	ng	99
9) Naphthalene	10.391	128	210130	4.834	ng	99
10) Hexachlorobutadiene	10.690	225	38983	4.881	ng	# 100
12) 2-Methylnaphthalene	12.015	142	146021	4.875	ng	99
16) Acenaphthylene	13.924	152	230808	5.024	ng	100
17) Acenaphthene	14.276	154	153102	5.253	ng	97
18) Fluorene	15.271	166	202967	5.211	ng	100
20) 4,6-Dinitro-2-methylph...	15.346	198	16129	10.308	ng	# 48
21) 4-Bromophenyl-phenylether	16.164	248	66556	5.011	ng	100
22) Hexachlorobenzene	16.275	284	72539	5.200	ng	100
23) Atrazine	16.449	200	57382	5.230	ng	97
24) Pentachlorophenol	16.611	266	32803	6.708	ng	99
25) Phenanthrene	16.995	178	323082	5.101	ng	100
26) Anthracene	17.095	178	301302	4.892	ng	100
28) Fluoranthene	19.030	202	408882	5.120	ng	100
30) Pyrene	19.392	202	423934	4.914	ng	100
32) Benzo(a)anthracene	21.157	228	418605	4.916	ng	100
33) Chrysene	21.201	228	400877	4.861	ng	100
34) Bis(2-ethylhexyl)phtha...	21.130	149	212477	4.817	ng	99
36) Indeno(1,2,3-cd)pyrene	25.530	276	483330	5.110	ng	99
37) Benzo(b)fluoranthene	22.706	252	430535	5.358	ng	96
38) Benzo(k)fluoranthene	22.747	252	433718	5.556	ng	97
39) Benzo(a)pyrene	23.258	252	370069	5.182	ng	95
40) Dibenzo(a,h)anthracene	25.551	278	384486	5.146	ng	97
41) Benzo(g,h,i)perylene	26.185	276	411316	5.061	ng	98

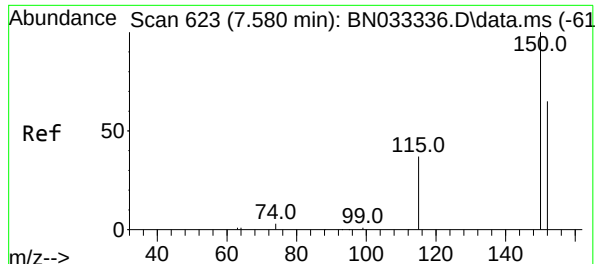
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033340.D
Acq On : 10 Aug 2024 17:17
Operator : MA/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Aug 12 01:02:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 00:59:25 2024
Response via : Initial Calibration

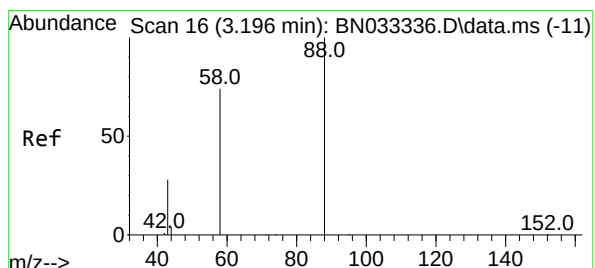
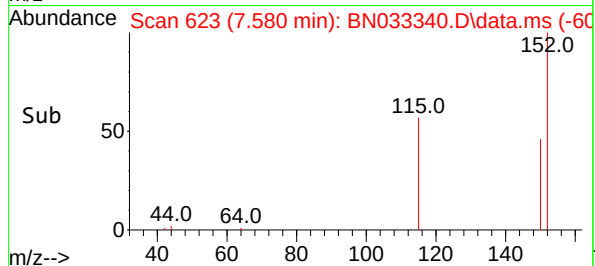
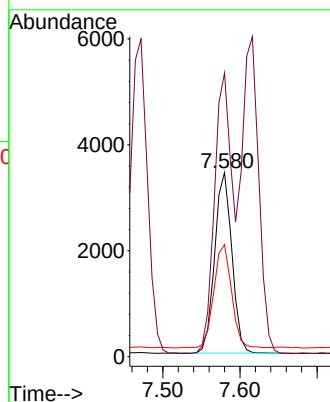
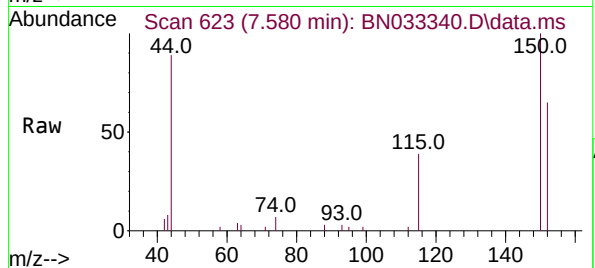




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.580 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

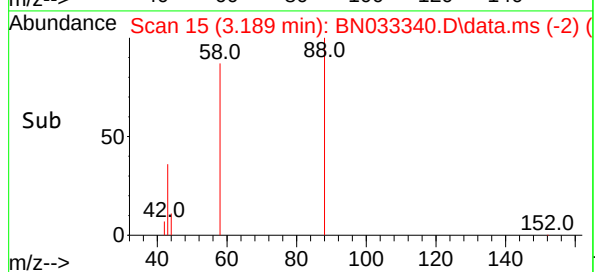
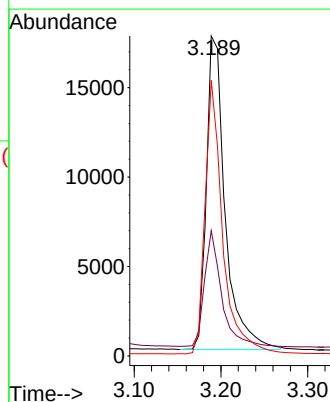
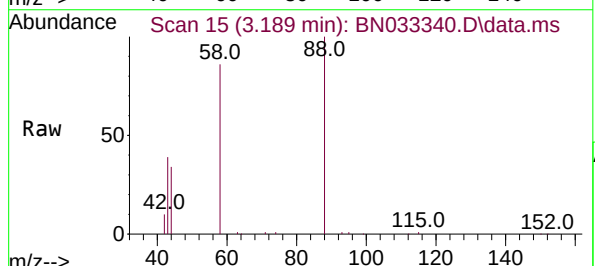
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

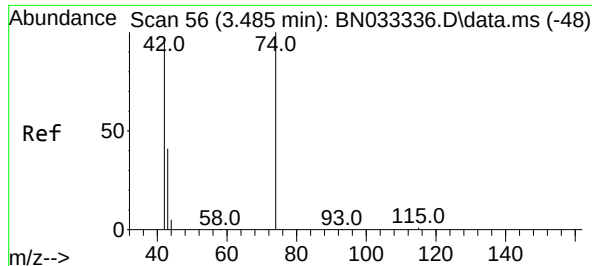
Tgt Ion:152 Resp: 5294
Ion Ratio Lower Upper
152 100
150 154.1 122.3 183.5
115 60.8 48.8 73.2



#2
1,4-Dioxane
Concen: 4.514 ng
RT: 3.189 min Scan# 15
Delta R.T. -0.007 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion: 88 Resp: 26458
Ion Ratio Lower Upper
88 100
43 33.4 30.6 46.0
58 81.4 64.5 96.7

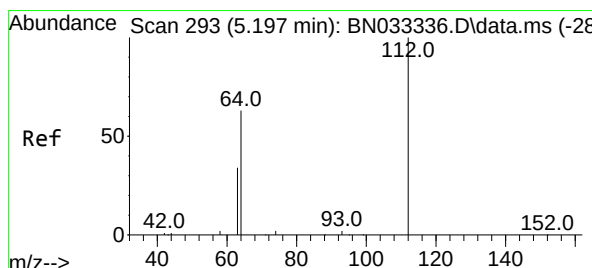
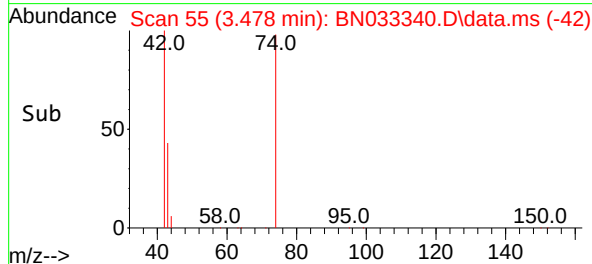
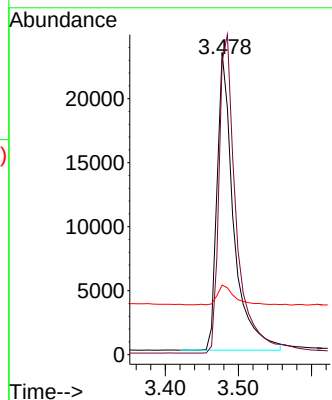
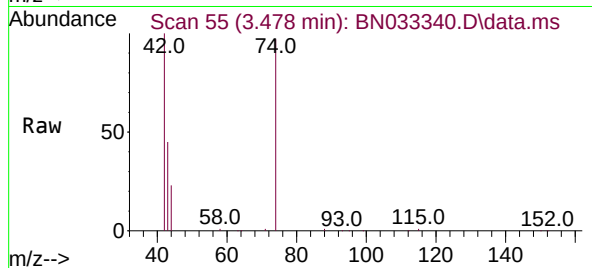




#3
n-Nitrosodimethylamine
Concen: 4.913 ng
RT: 3.478 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

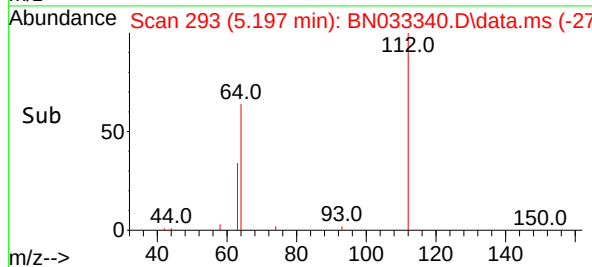
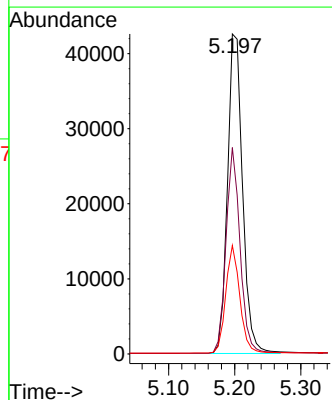
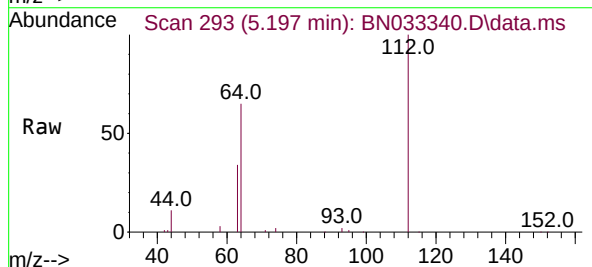
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

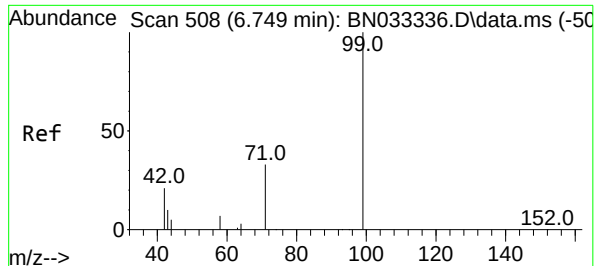
Tgt Ion: 42 Resp: 36608
Ion Ratio Lower Upper
42 100
74 111.3 89.0 133.6
44 6.6 11.0 16.4#



#4
2-Fluorophenol
Concen: 4.846 ng
RT: 5.197 min Scan# 293
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion: 112 Resp: 67536
Ion Ratio Lower Upper
112 100
64 60.0 48.1 72.1
63 31.6 25.4 38.2

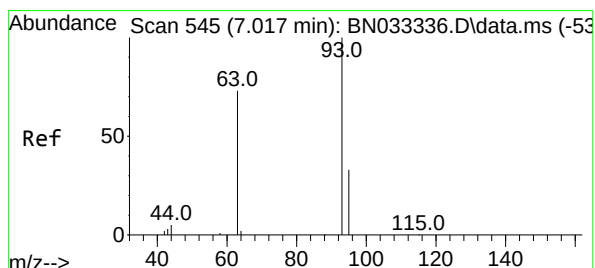
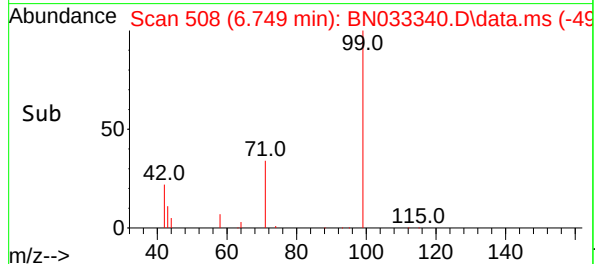
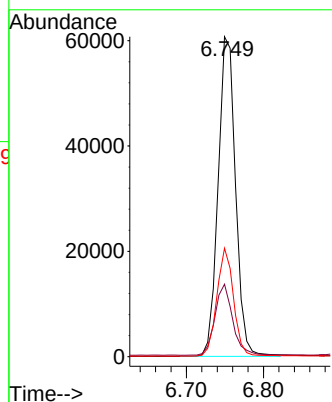
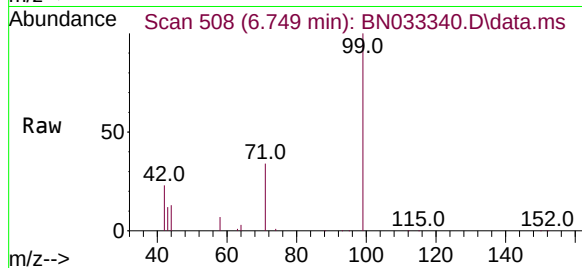




#5
Phenol-d6
Concen: 5.014 ng
RT: 6.749 min Scan# 508
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

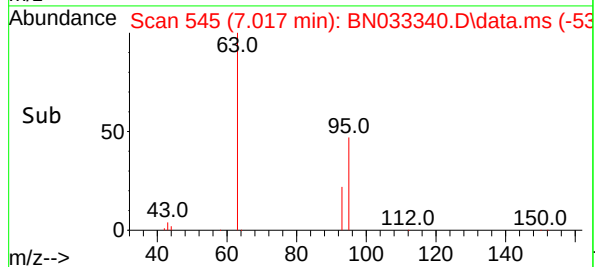
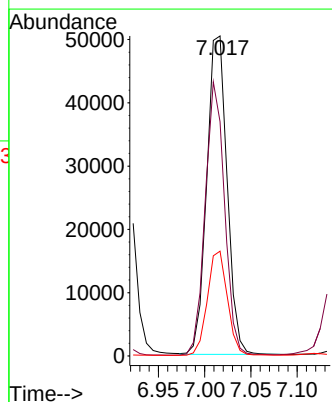
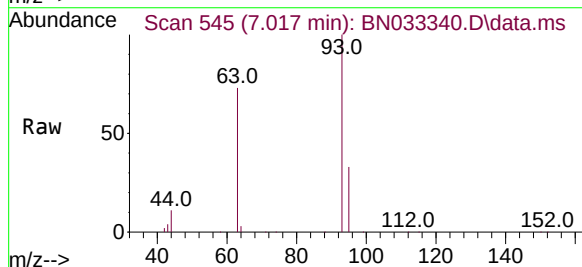
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

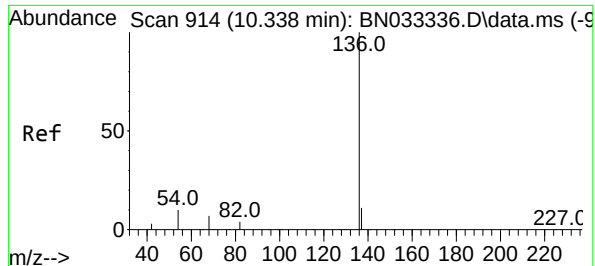
Tgt Ion: 99 Resp: 95521
Ion Ratio Lower Upper
99 100
42 22.6 18.5 27.7
71 32.2 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 4.716 ng
RT: 7.017 min Scan# 545
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion: 93 Resp: 76831
Ion Ratio Lower Upper
93 100
63 81.8 65.2 97.8
95 32.3 26.2 39.4

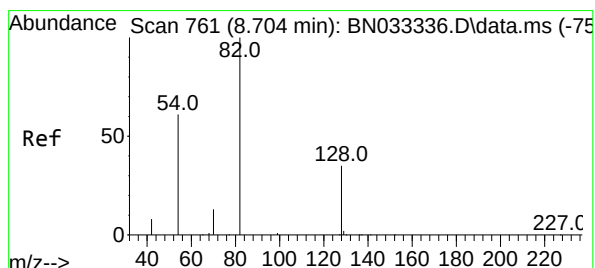
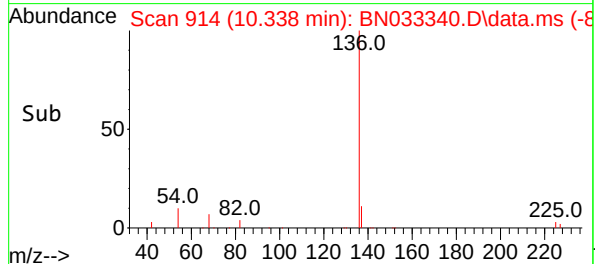
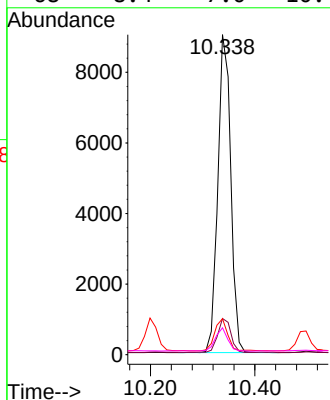
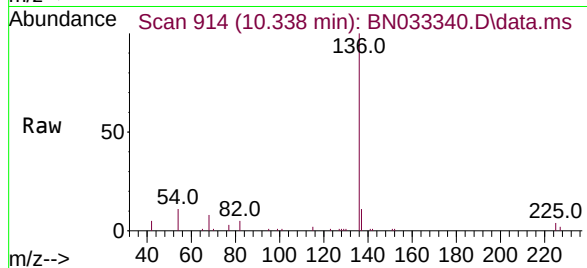




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.338 min Scan# 914
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

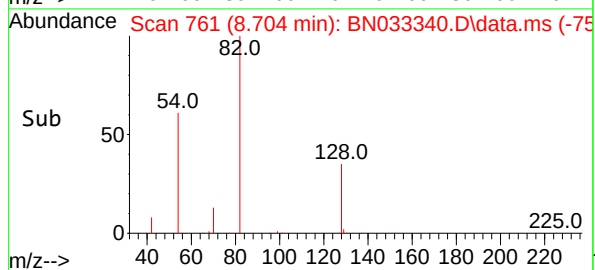
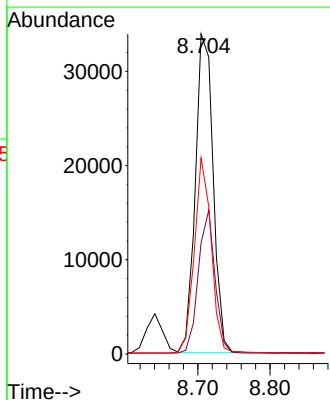
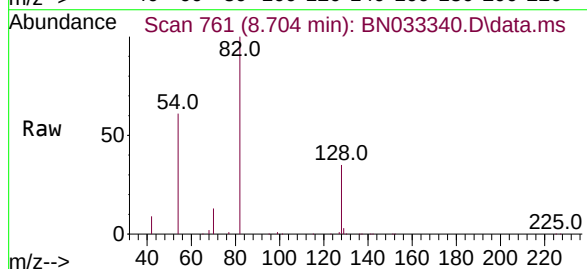
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

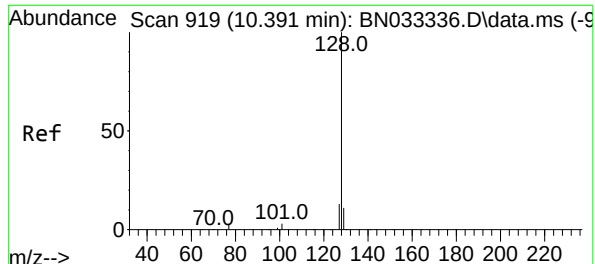
Tgt Ion:	136	Resp:	15482
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	11.2	9.4	14.0
68	8.4	7.0	10.4



#8
Nitrobenzene-d5
Concen: 6.172 ng
RT: 8.704 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:	82	Resp:	58299
Ion	Ratio	Lower	Upper
82	100		
128	34.7	29.0	43.4
54	61.3	50.2	75.4





#9

Naphthalene

Concen: 4.834 ng

RT: 10.391 min Scan# 919

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

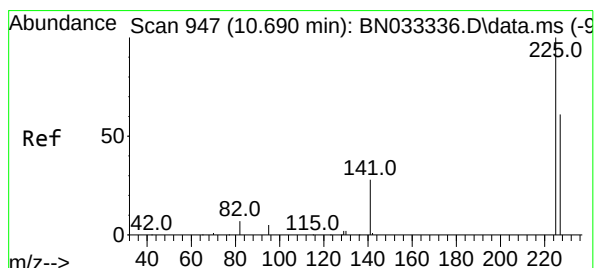
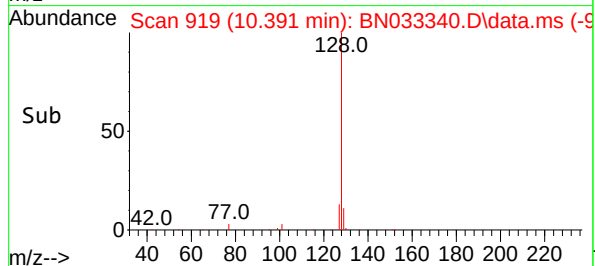
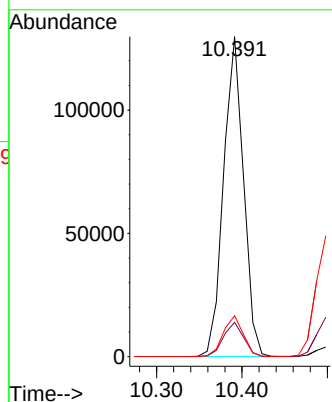
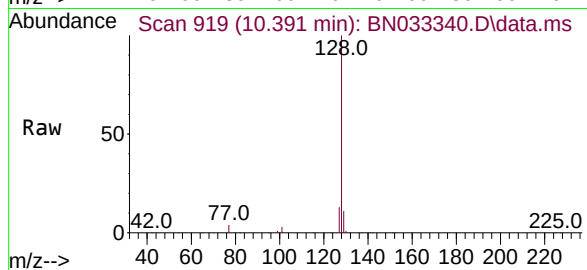
Tgt Ion:128 Resp: 210130

Ion Ratio Lower Upper

128 100

129 10.8 9.2 13.8

127 12.8 10.6 15.8



#10

Hexachlorobutadiene

Concen: 4.881 ng

RT: 10.690 min Scan# 947

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

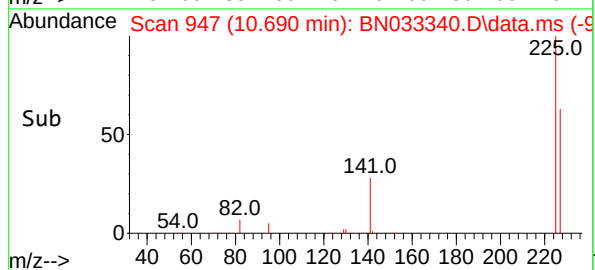
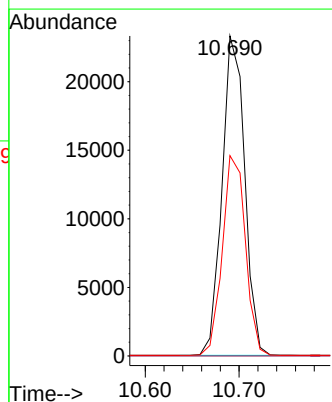
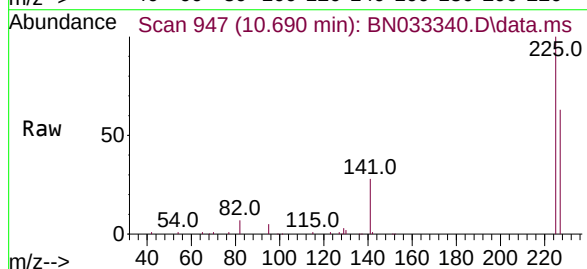
Tgt Ion:225 Resp: 38983

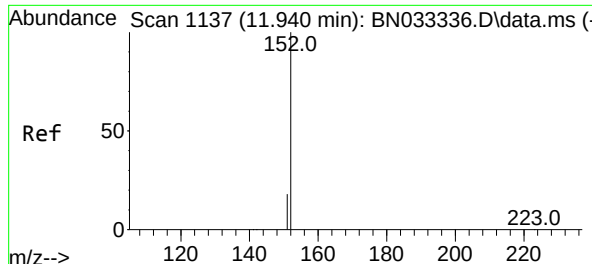
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 50.8 76.2

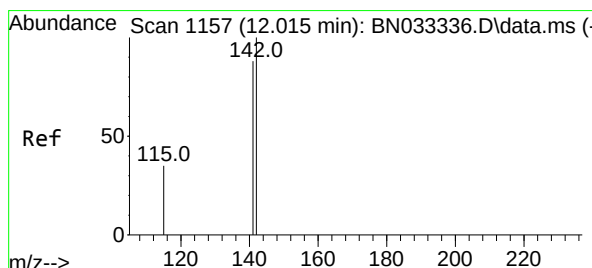
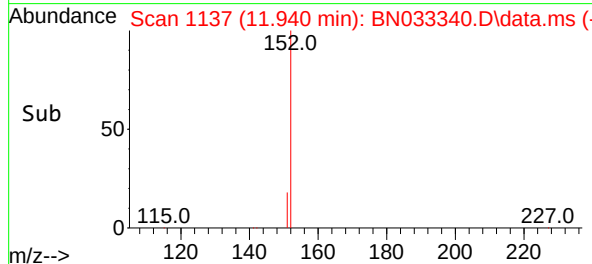
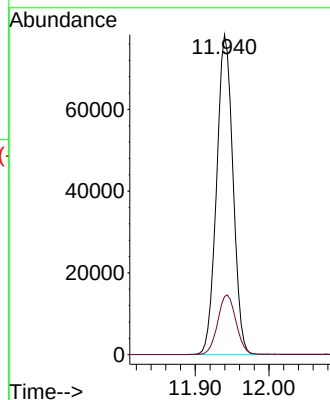
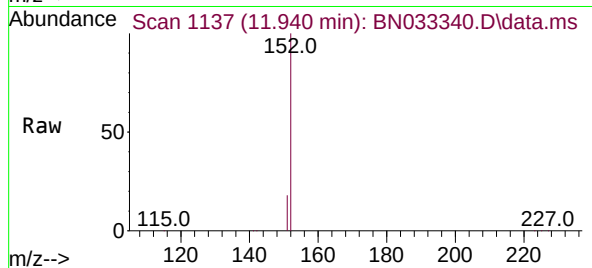




#11
2-Methylnaphthalene-d10
Concen: 4.995 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

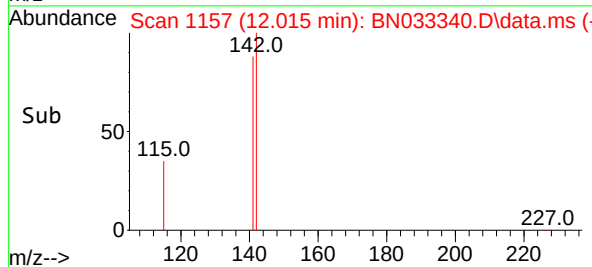
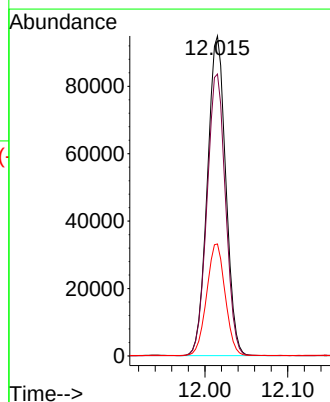
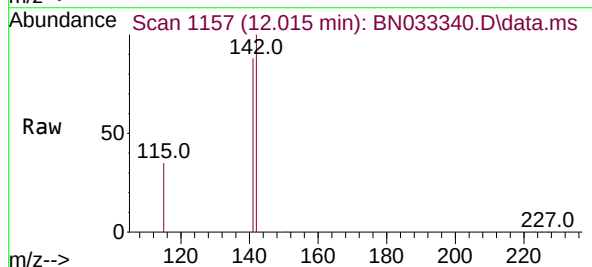
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

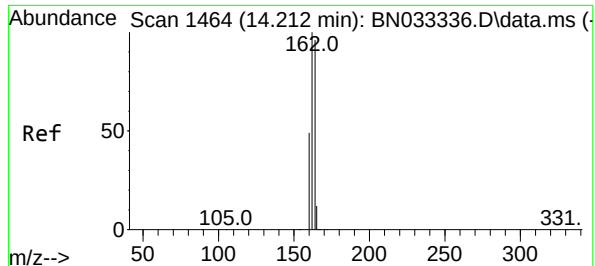
Tgt Ion:152 Resp: 120490
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#12
2-Methylnaphthalene
Concen: 4.875 ng
RT: 12.015 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:142 Resp: 146021
Ion Ratio Lower Upper
142 100
141 88.1 70.2 105.4
115 35.0 29.3 43.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.212 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

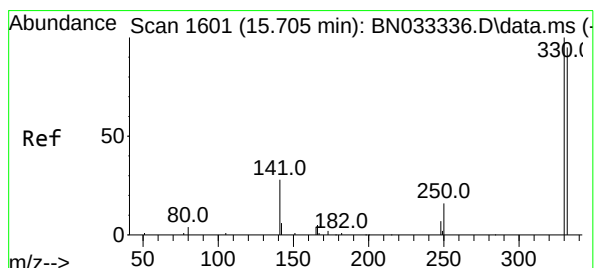
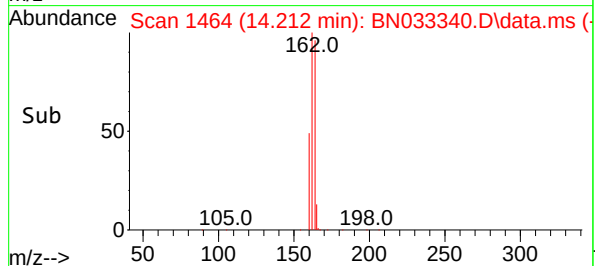
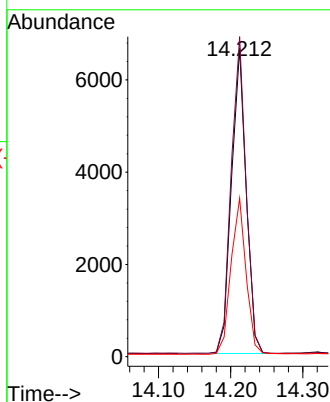
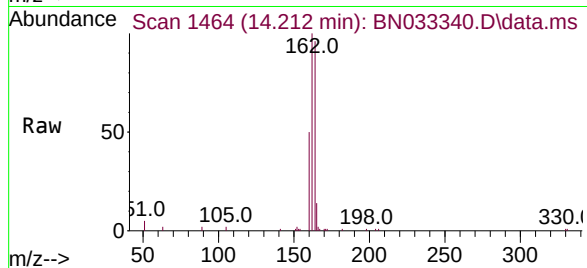
Tgt Ion:164 Resp: 9410

Ion Ratio Lower Upper

164 100

162 103.7 83.1 124.7

160 51.4 41.1 61.7



#14

2,4,6-Tribromophenol

Concen: 6.681 ng

RT: 15.704 min Scan# 1601

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

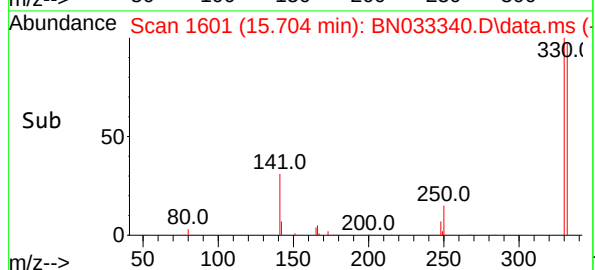
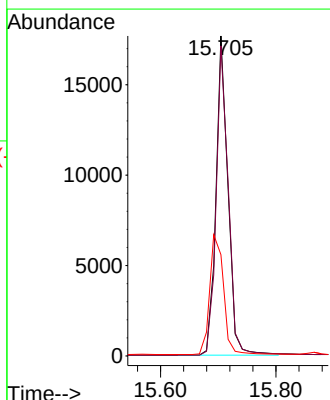
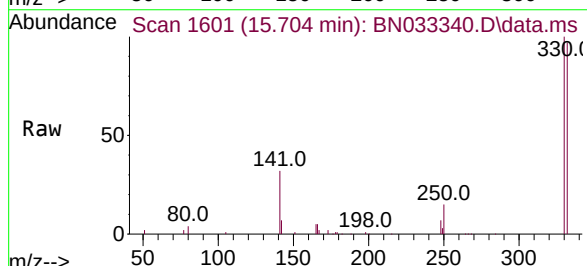
Tgt Ion:330 Resp: 25439

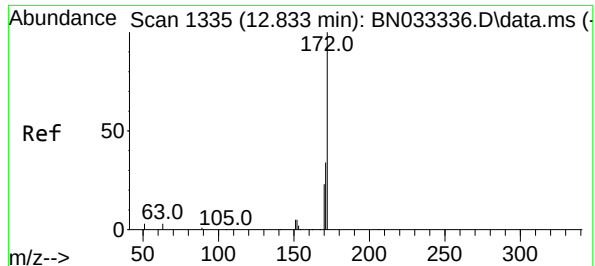
Ion Ratio Lower Upper

330 100

332 97.9 77.1 115.7

141 43.3 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 5.313 ng

RT: 12.833 min Scan# 1335

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

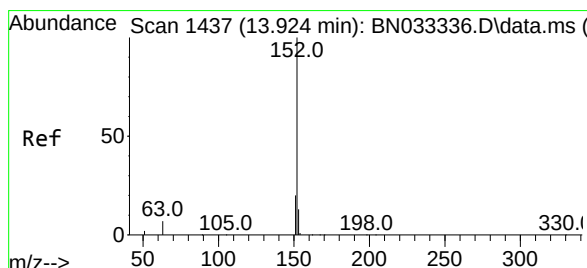
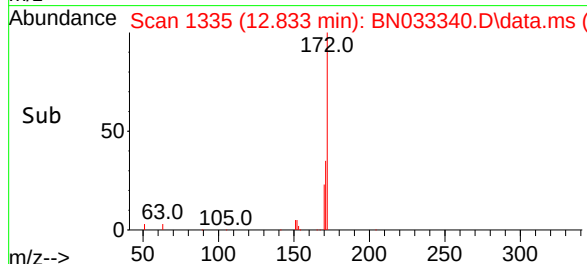
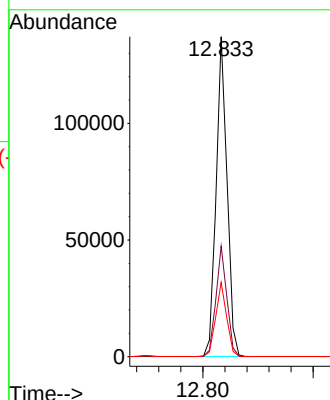
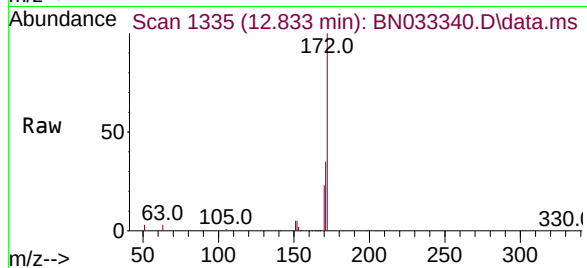
Tgt Ion:172 Resp: 188343

Ion Ratio Lower Upper

172 100

171 34.5 27.8 41.8

170 23.2 18.7 28.1



#16

Acenaphthylene

Concen: 5.024 ng

RT: 13.924 min Scan# 1437

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

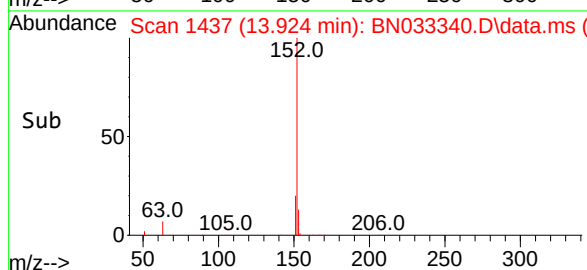
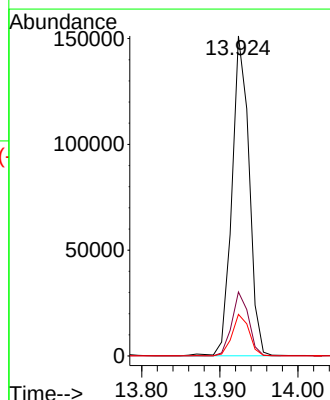
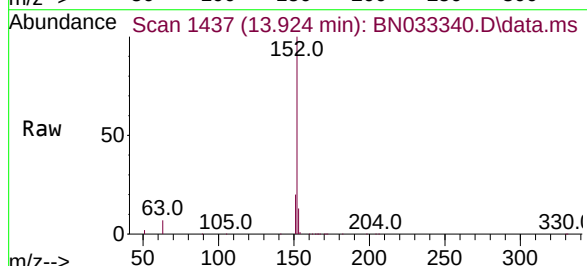
Tgt Ion:152 Resp: 230808

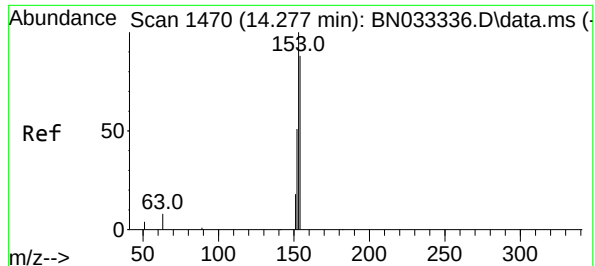
Ion Ratio Lower Upper

152 100

151 19.5 15.7 23.5

153 12.9 10.4 15.6





#17

Acenaphthene

Concen: 5.253 ng

RT: 14.276 min Scan# 1470

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

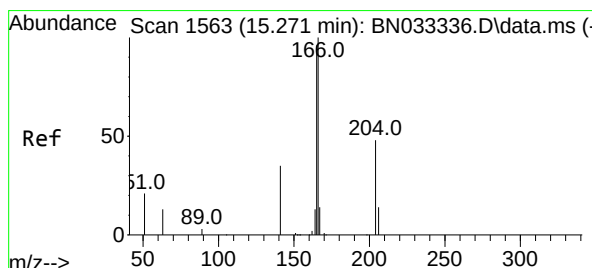
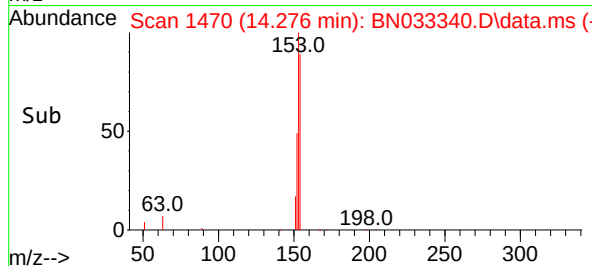
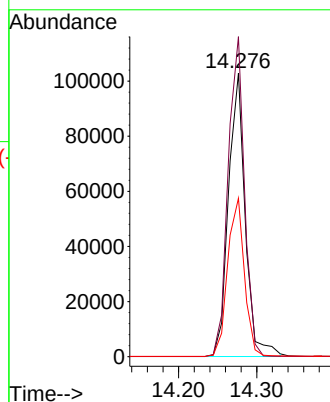
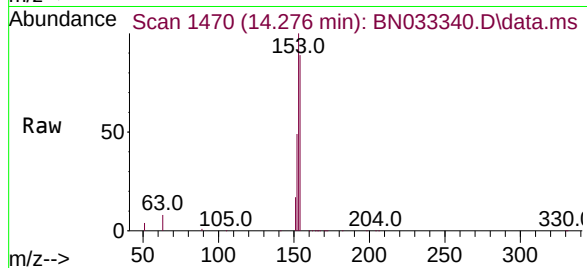
Tgt Ion:154 Resp: 153102

Ion Ratio Lower Upper

154 100

153 109.7 89.7 134.5

152 55.7 47.2 70.8



#18

Fluorene

Concen: 5.211 ng

RT: 15.271 min Scan# 1563

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

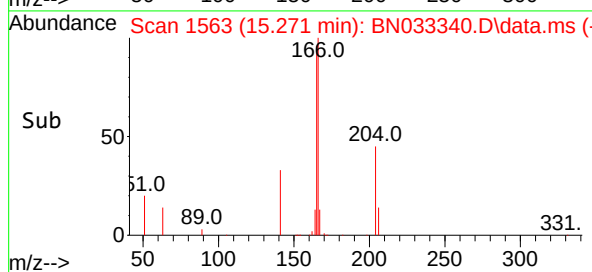
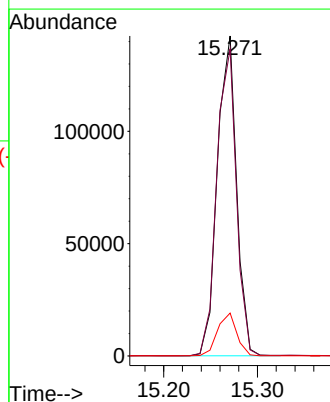
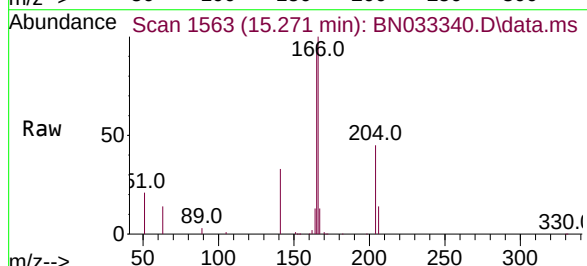
Tgt Ion:166 Resp: 202967

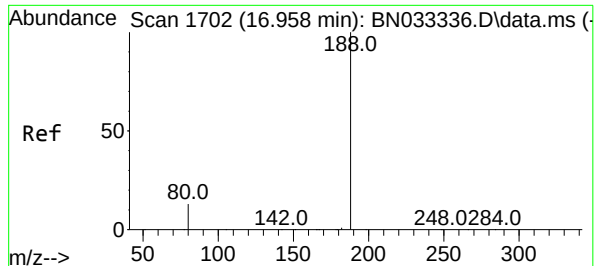
Ion Ratio Lower Upper

166 100

165 97.7 78.0 117.0

167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.958 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

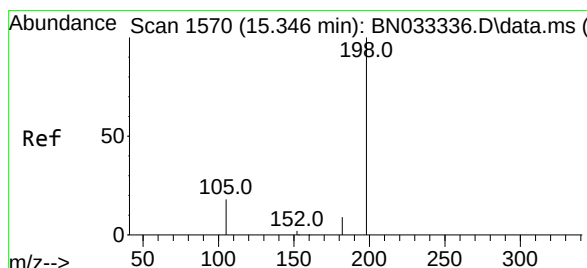
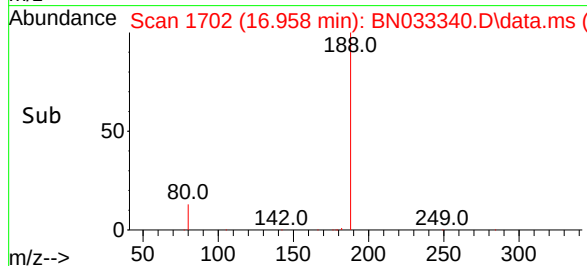
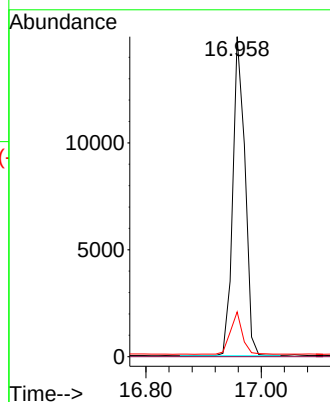
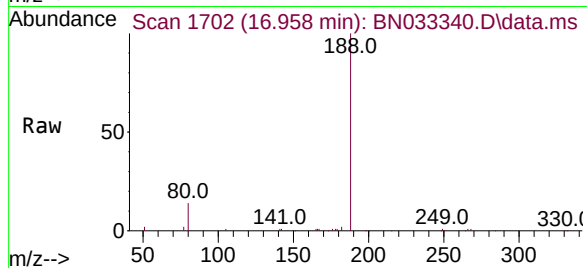
Tgt Ion:188 Resp: 21883

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.0 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 10.308 ng

RT: 15.346 min Scan# 1570

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

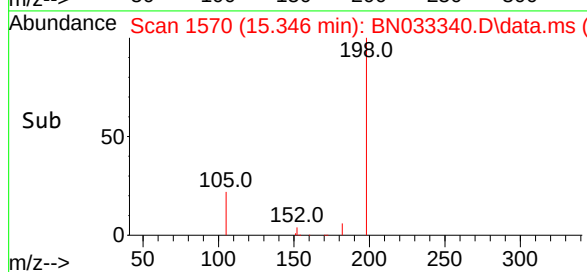
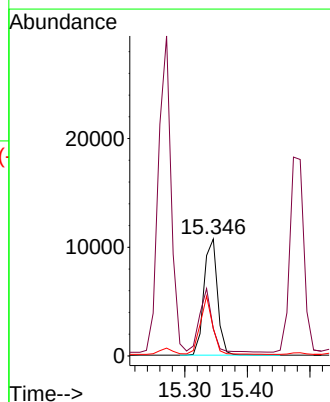
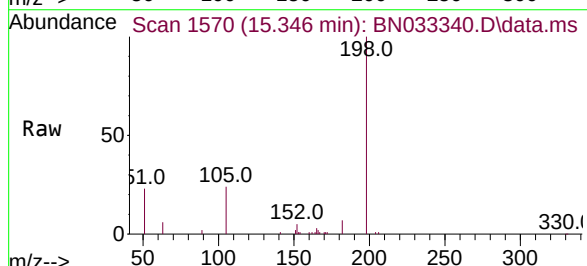
Tgt Ion:198 Resp: 16129

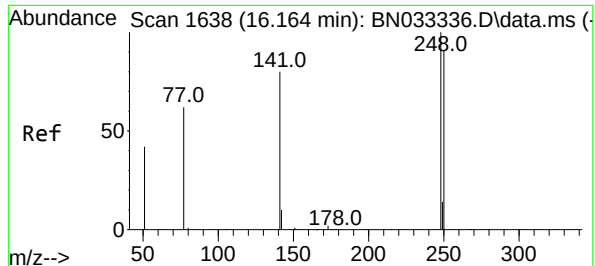
Ion Ratio Lower Upper

198 100

51 23.2 62.8 94.2#

105 23.6 34.1 51.1#

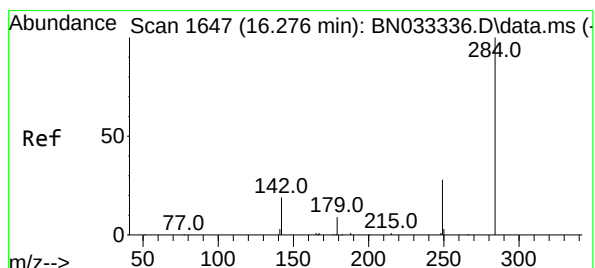
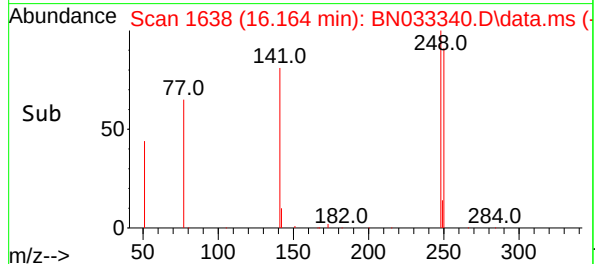
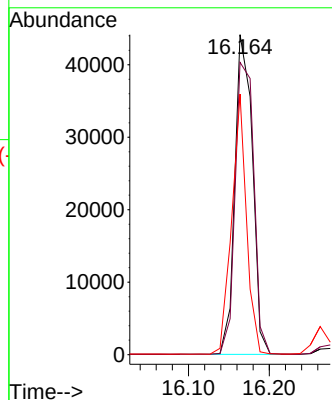
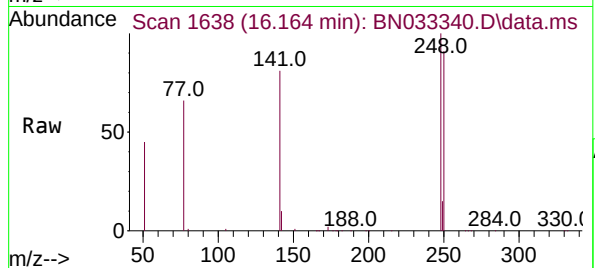




#21
4-Bromophenyl-phenylether
Concen: 5.011 ng
RT: 16.164 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

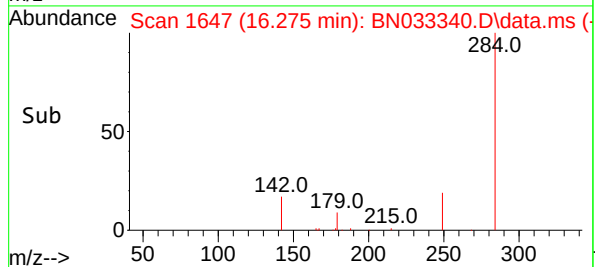
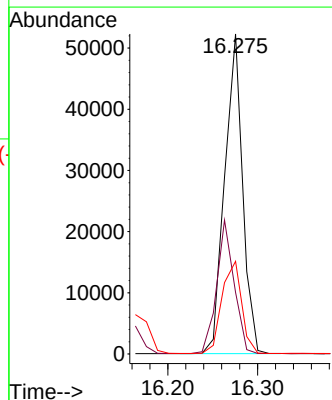
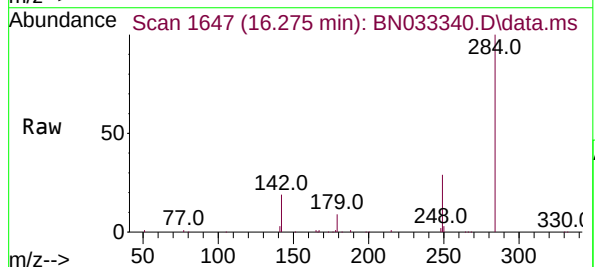
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

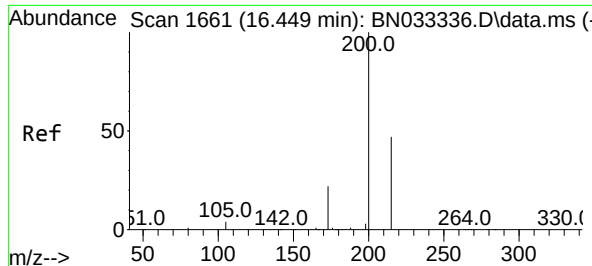
Tgt Ion:248 Resp: 66556
Ion Ratio Lower Upper
248 100
250 91.4 73.0 109.4
141 81.4 64.6 96.8



#22
Hexachlorobenzene
Concen: 5.200 ng
RT: 16.275 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:284 Resp: 72539
Ion Ratio Lower Upper
284 100
142 40.4 32.2 48.4
249 31.6 25.3 37.9

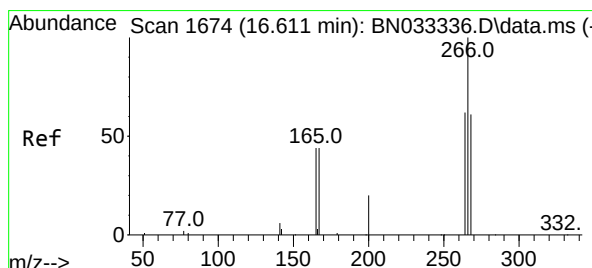
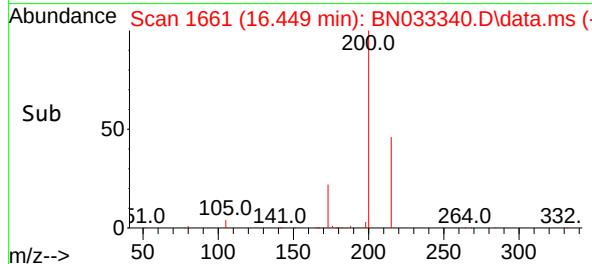
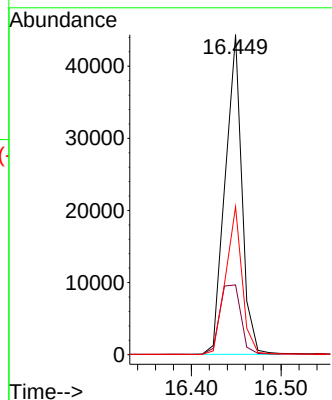
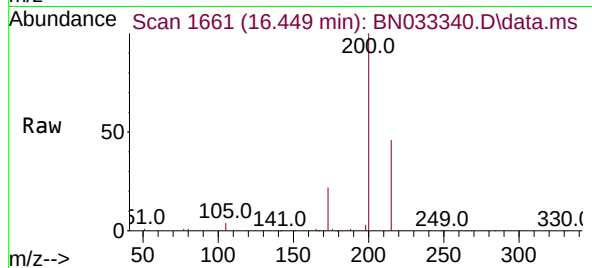




#23
Atrazine
Concen: 5.230 ng
RT: 16.449 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

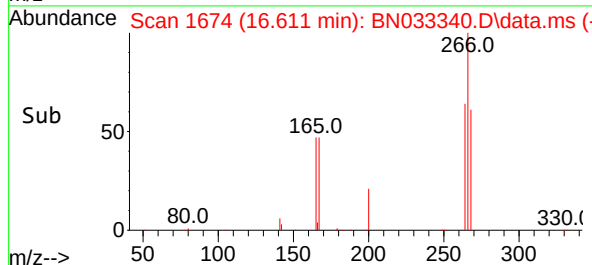
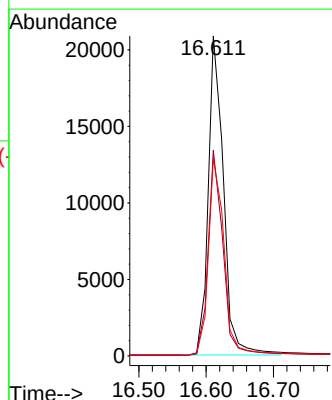
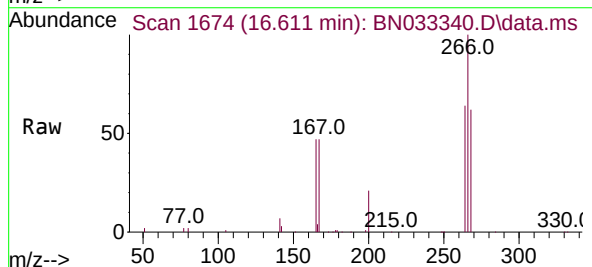
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

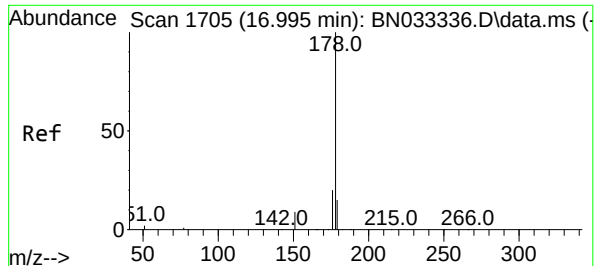
Tgt Ion:200 Resp: 57382
Ion Ratio Lower Upper
200 100
173 21.8 18.7 28.1
215 46.2 38.6 58.0



#24
Pentachlorophenol
Concen: 6.708 ng
RT: 16.611 min Scan# 1674
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:266 Resp: 32803
Ion Ratio Lower Upper
266 100
264 62.8 49.2 73.8
268 63.3 51.2 76.8

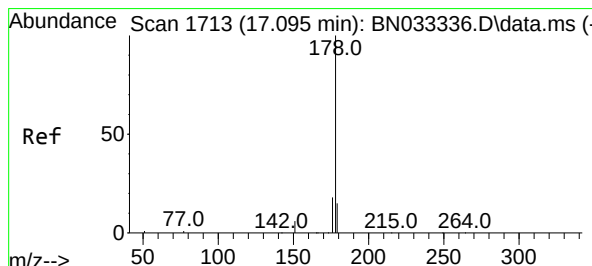
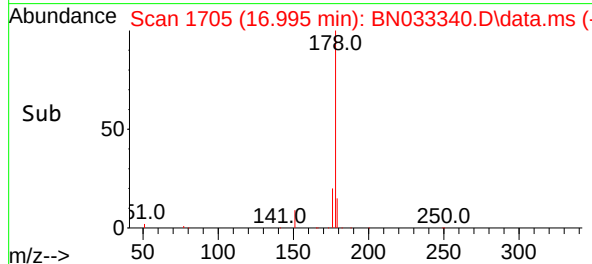
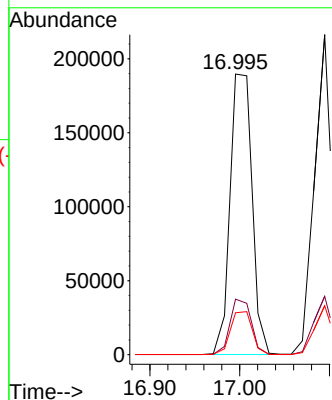
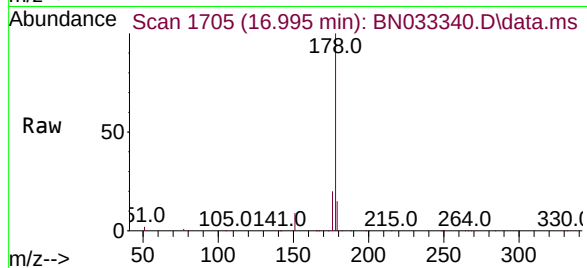




#25
Phenanthrene
Concen: 5.101 ng
RT: 16.995 min Scan# 1705
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

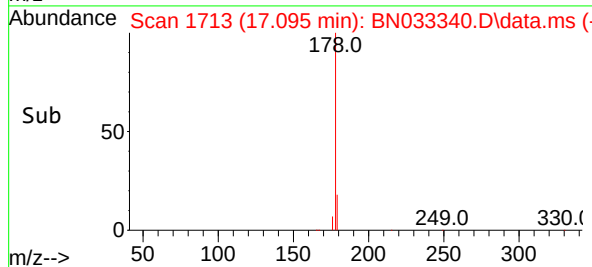
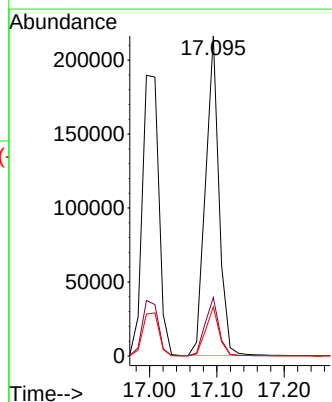
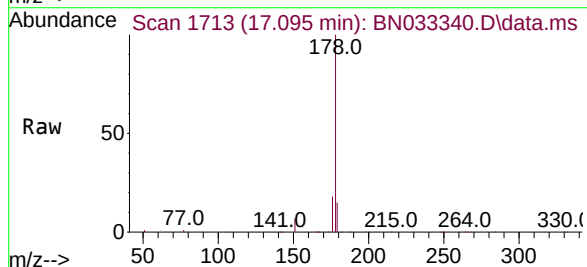
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

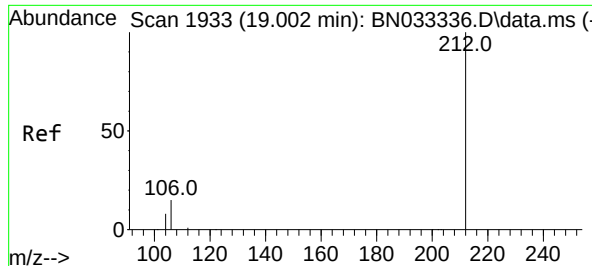
Tgt Ion:178 Resp: 323082
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.2 12.2 18.2



#26
Anthracene
Concen: 4.892 ng
RT: 17.095 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:178 Resp: 301302
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 5.088 ng

RT: 19.002 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

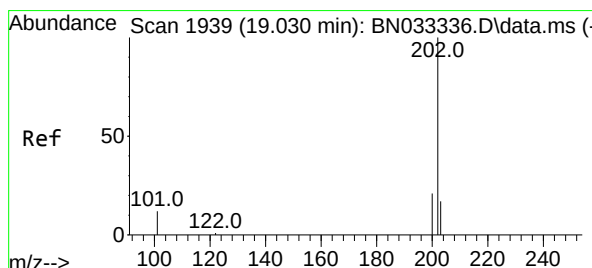
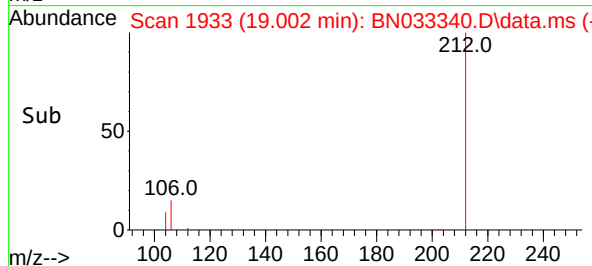
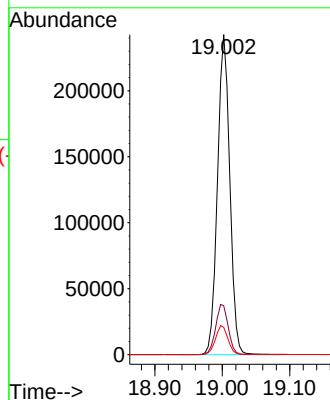
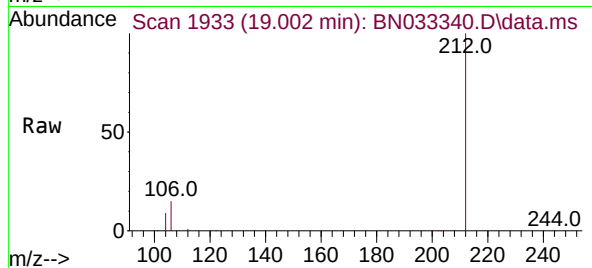
Tgt Ion:212 Resp: 306352

Ion Ratio Lower Upper

212 100

106 16.1 12.8 19.2

104 9.1 7.1 10.7



#28

Fluoranthene

Concen: 5.120 ng

RT: 19.030 min Scan# 1939

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

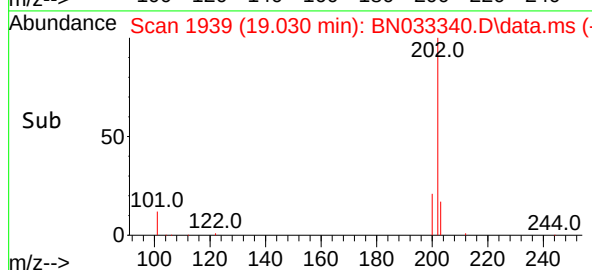
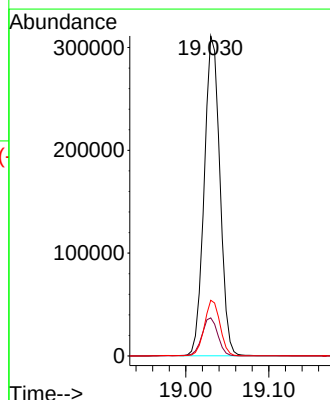
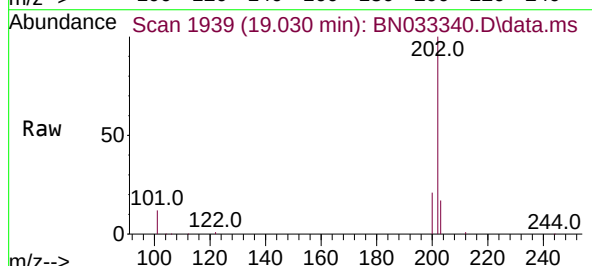
Tgt Ion:202 Resp: 408882

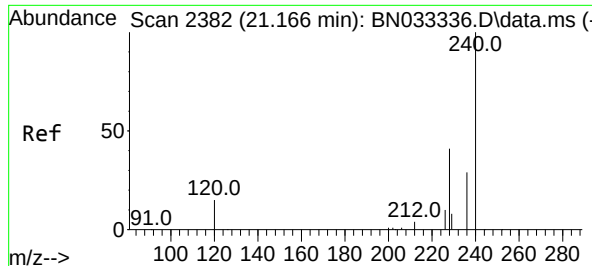
Ion Ratio Lower Upper

202 100

101 12.2 9.8 14.6

203 17.3 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.166 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

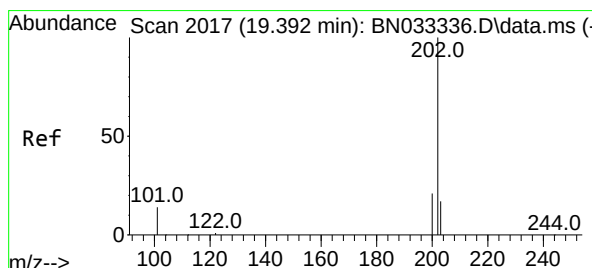
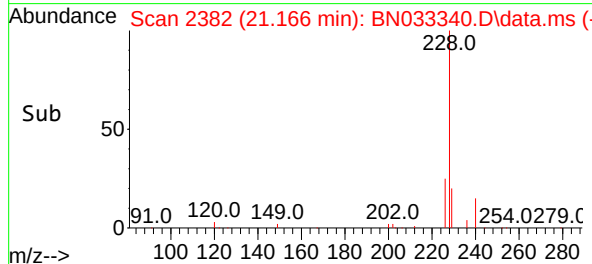
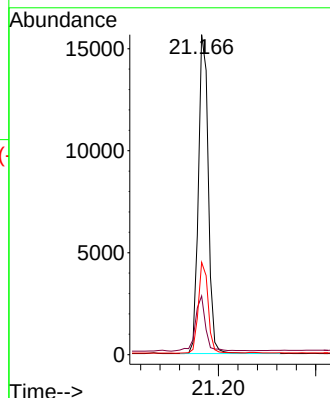
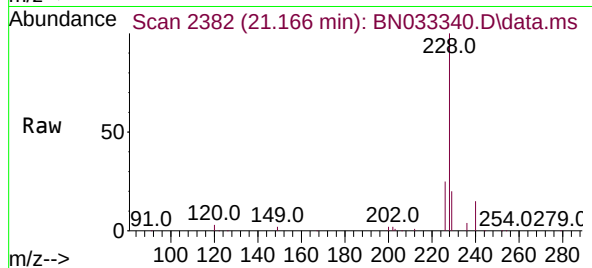
Tgt Ion:240 Resp: 21930

Ion Ratio Lower Upper

240 100

120 18.3 13.0 19.6

236 28.9 23.2 34.8



#30

Pyrene

Concen: 4.914 ng

RT: 19.392 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

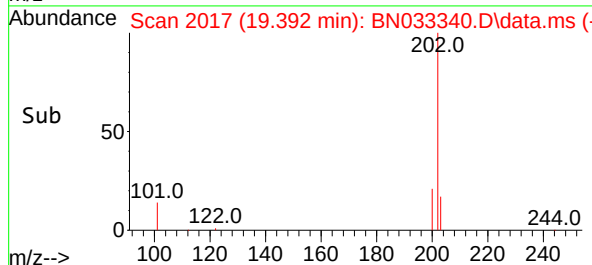
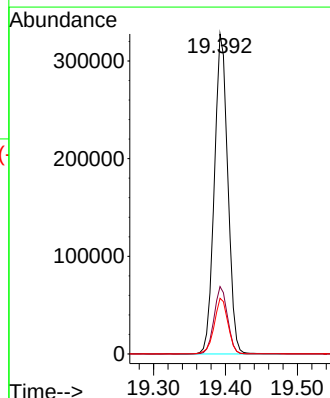
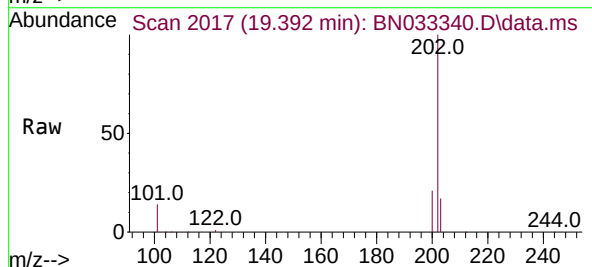
Tgt Ion:202 Resp: 423934

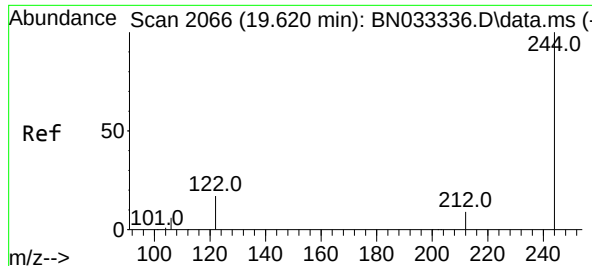
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.8 14.2 21.4

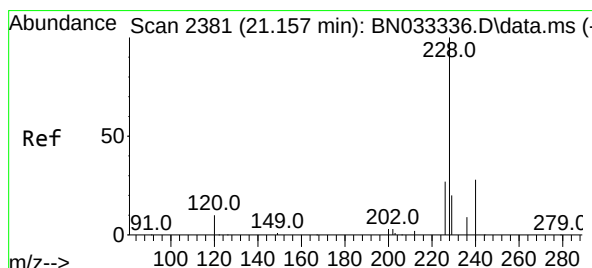
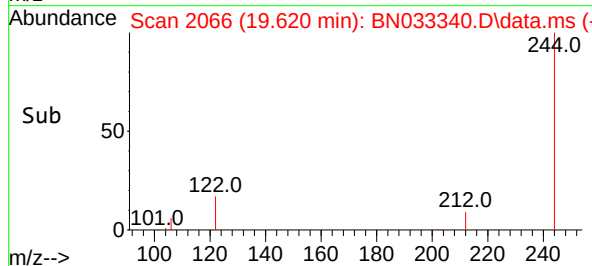
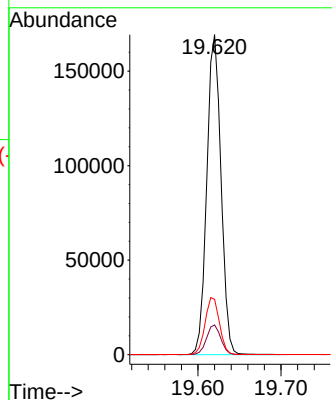
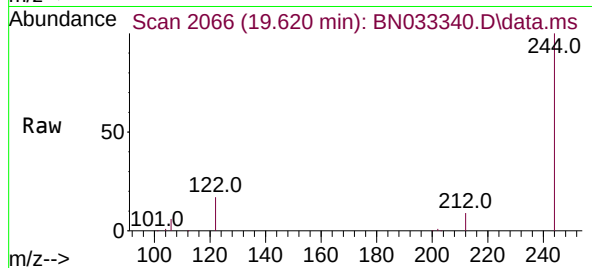




#31
Terphenyl-d14
Concen: 5.327 ng
RT: 19.620 min Scan# 2066
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

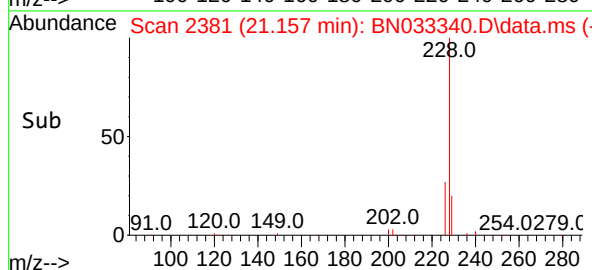
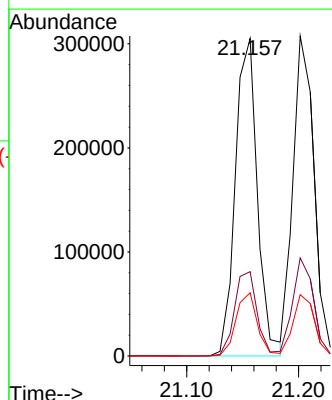
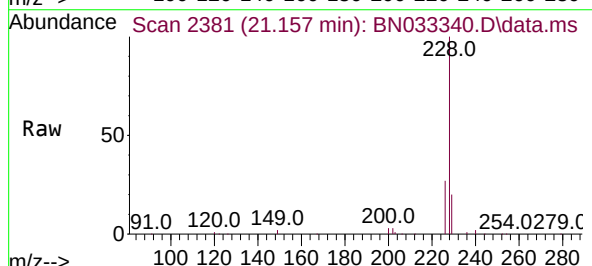
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

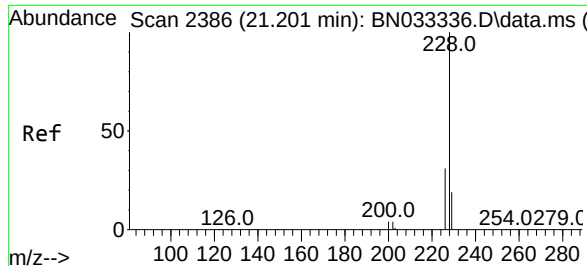
Tgt Ion:244 Resp: 201464
Ion Ratio Lower Upper
244 100
212 9.3 7.7 11.5
122 17.3 14.0 21.0



#32
Benzo(a)anthracene
Concen: 4.916 ng
RT: 21.157 min Scan# 2381
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:228 Resp: 418605
Ion Ratio Lower Upper
228 100
226 26.6 21.6 32.4
229 19.9 15.9 23.9





#33

Chrysene

Concen: 4.861 ng

RT: 21.201 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

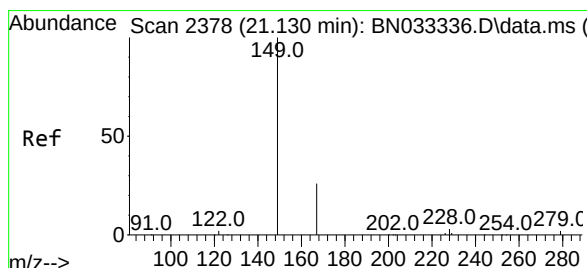
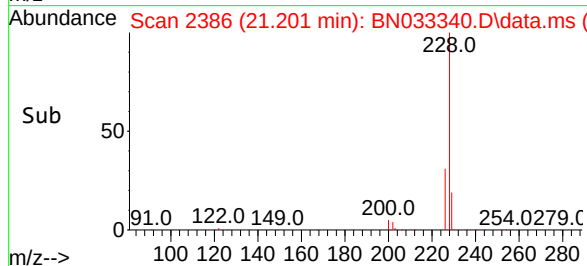
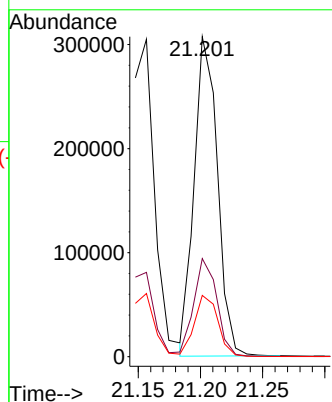
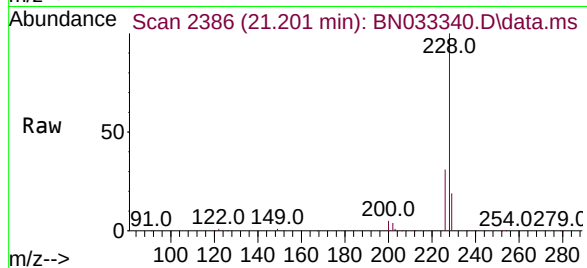
Tgt Ion:228 Resp: 400877

Ion Ratio Lower Upper

228 100

226 30.6 24.7 37.1

229 19.2 15.4 23.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.817 ng

RT: 21.130 min Scan# 2378

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

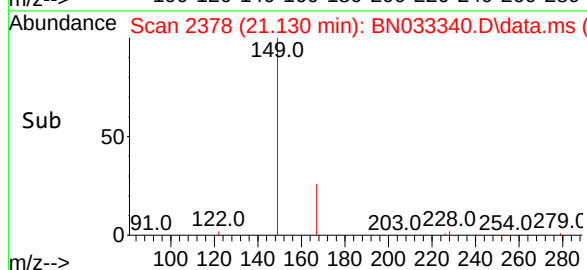
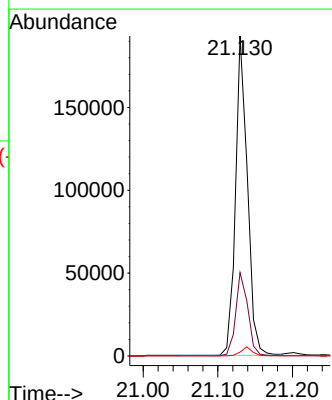
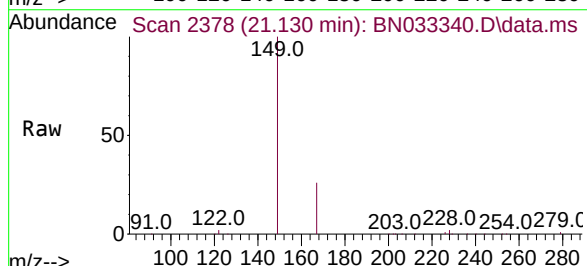
Tgt Ion:149 Resp: 212477

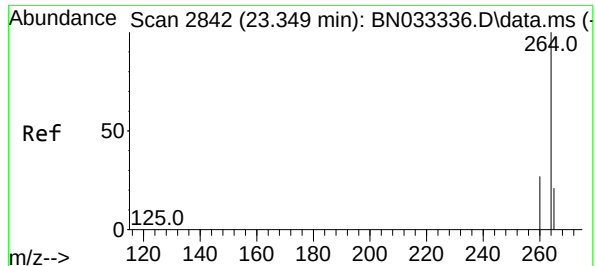
Ion Ratio Lower Upper

149 100

167 26.5 20.9 31.3

279 2.7 2.2 3.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.352 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

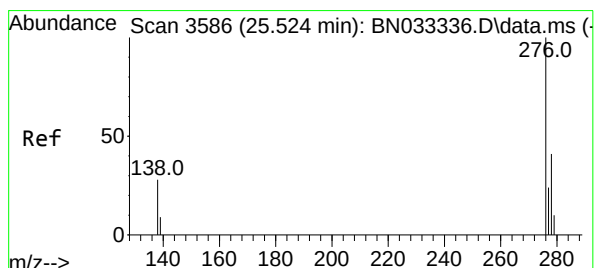
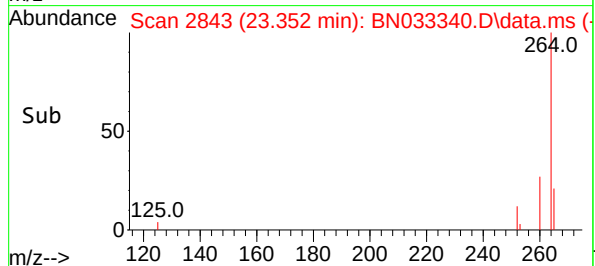
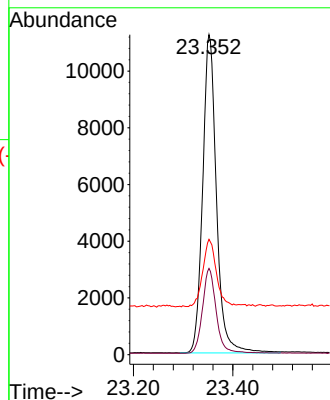
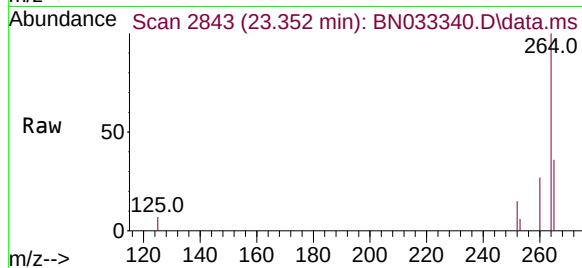
Tgt Ion:264 Resp: 21624

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 36.0 29.3 43.9



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.110 ng

RT: 25.530 min Scan# 3588

Delta R.T. 0.006 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

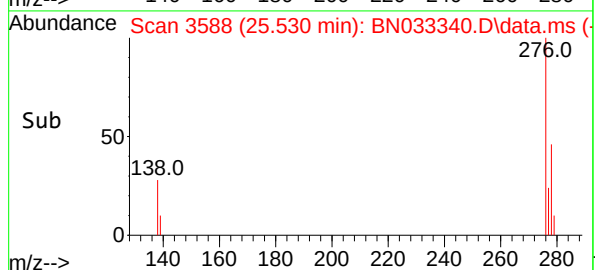
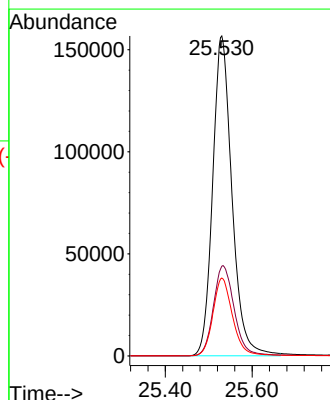
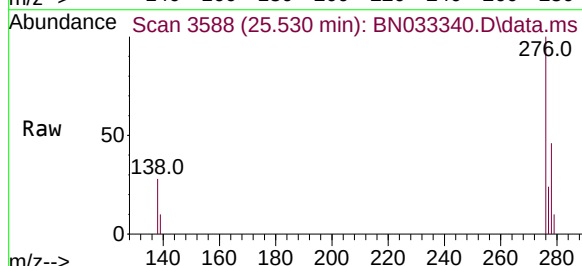
Tgt Ion:276 Resp: 483330

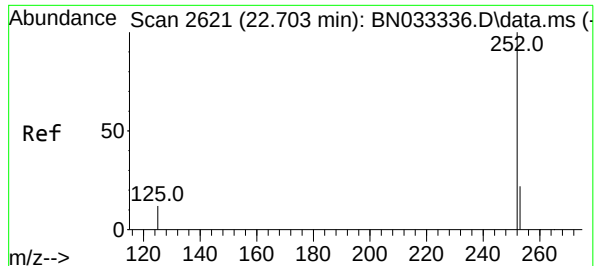
Ion Ratio Lower Upper

276 100

138 30.4 24.9 37.3

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 5.358 ng

RT: 22.706 min Scan# 2622

Delta R.T. 0.003 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

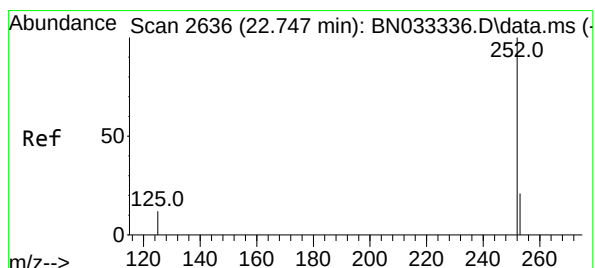
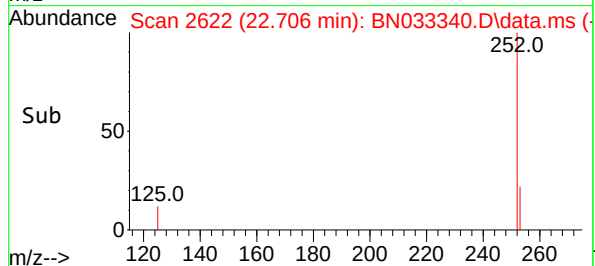
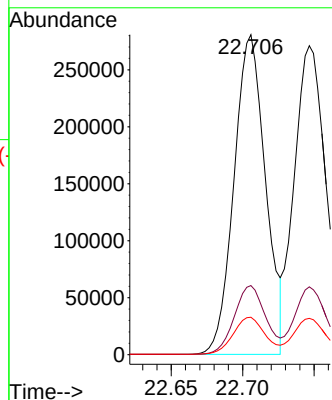
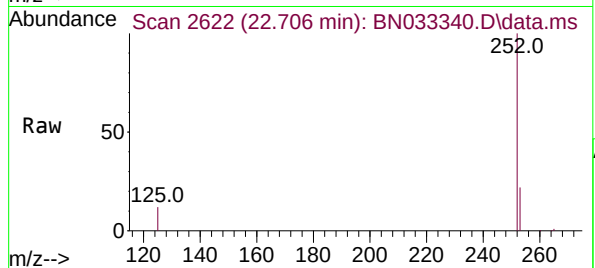
Tgt Ion:252 Resp: 430535

Ion Ratio Lower Upper

252 100

253 21.6 18.2 27.2

125 11.7 11.3 16.9



#38

Benzo(k)fluoranthene

Concen: 5.556 ng

RT: 22.747 min Scan# 2636

Delta R.T. -0.000 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

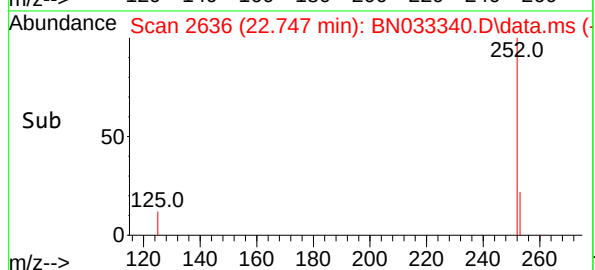
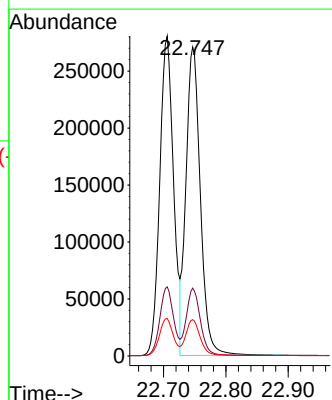
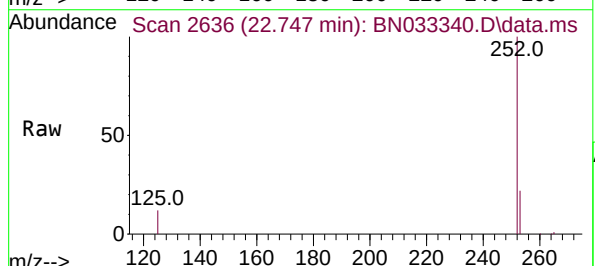
Tgt Ion:252 Resp: 433718

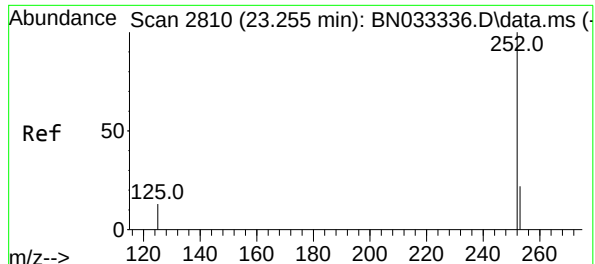
Ion Ratio Lower Upper

252 100

253 21.9 17.9 26.9

125 11.8 11.3 16.9





#39

Benzo(a)pyrene

Concen: 5.182 ng

RT: 23.258 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

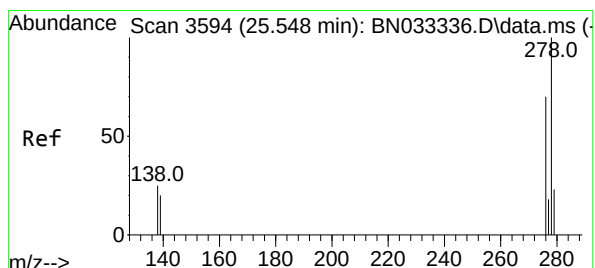
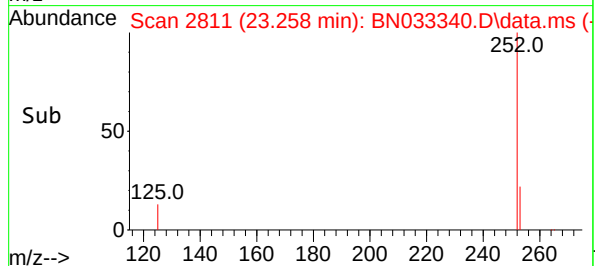
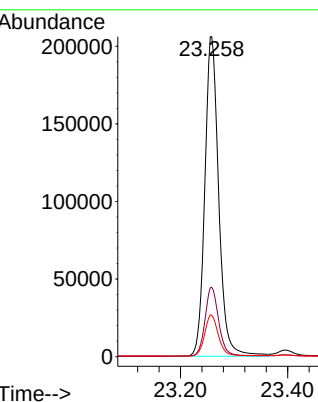
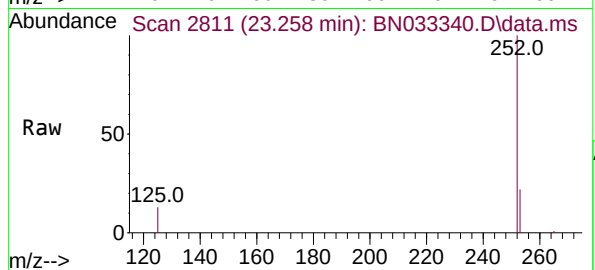
Tgt Ion:252 Resp: 370069

Ion Ratio Lower Upper

252 100

253 21.7 18.6 28.0

125 13.0 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 5.146 ng

RT: 25.551 min Scan# 3595

Delta R.T. 0.003 min

Lab File: BN033340.D

Acq: 10 Aug 2024 17:17

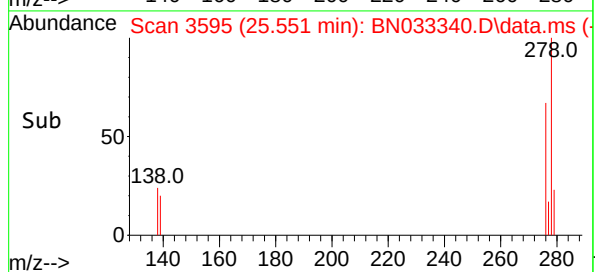
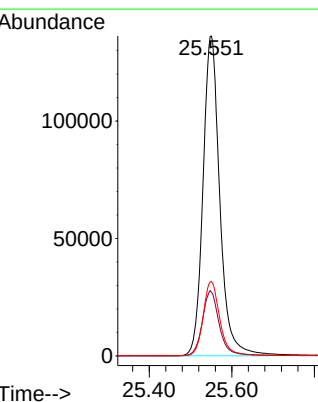
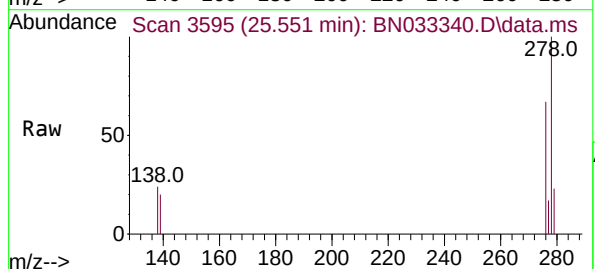
Tgt Ion:278 Resp: 384486

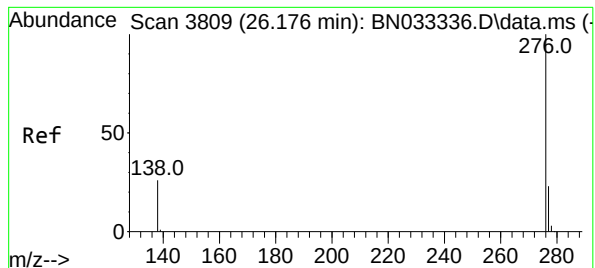
Ion Ratio Lower Upper

278 100

139 19.9 17.0 25.6

279 23.3 20.0 30.0





#41

Benzo(g,h,i)perylene

Concen: 5.061 ng

RT: 26.185 min Scan# 3812

Delta R.T. 0.009 min

Lab File: BN033340.D

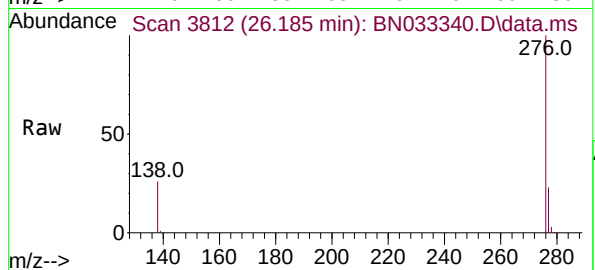
Acq: 10 Aug 2024 17:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



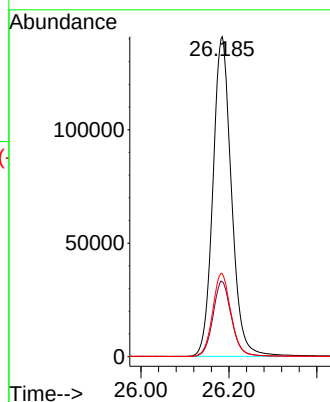
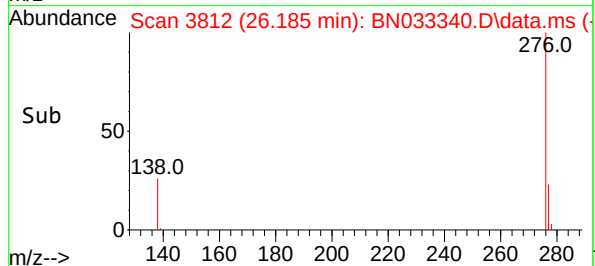
Tgt Ion:276 Resp: 411316

Ion Ratio Lower Upper

276 100

277 23.4 19.4 29.2

138 25.9 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
 Data File : BN033341.D
 Acq On : 10 Aug 2024 17:54
 Operator : MA/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN081024

Quant Time: Aug 12 01:13:35 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 12 01:09:50 2024
 Response via : Initial Calibration

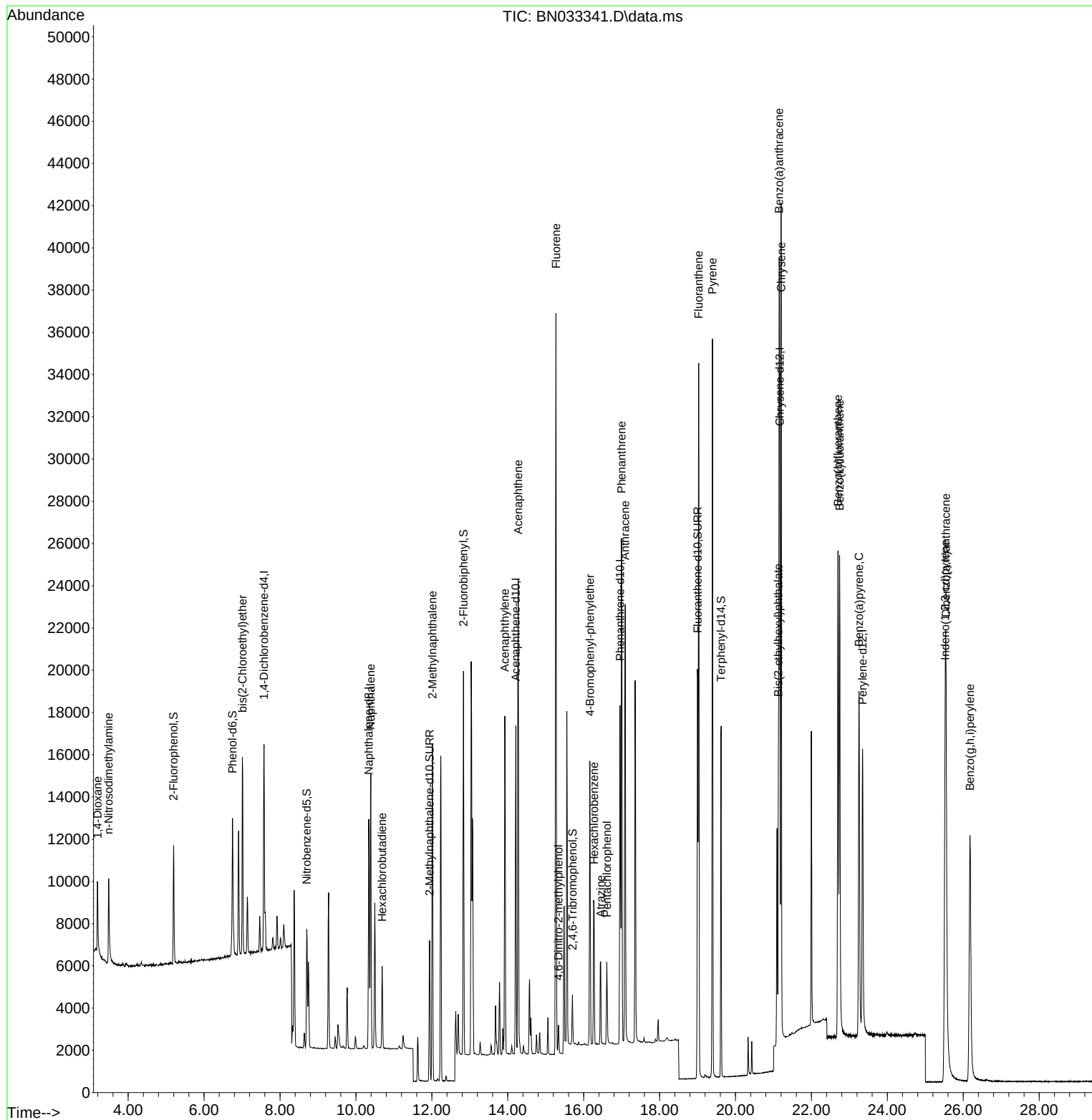
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.580	152	4684	0.400	ng	0.00
7) Naphthalene-d8	10.338	136	13757	0.400	ng	0.00
13) Acenaphthene-d10	14.212	164	8186	0.400	ng	0.00
19) Phenanthrene-d10	16.958	188	19726	0.400	ng	0.00
29) Chrysene-d12	21.166	240	17644	0.400	ng	0.00
35) Perylene-d12	23.346	264	17318	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.197	112	4365	0.337	ng	0.00
5) Phenol-d6	6.749	99	5751	0.329	ng	0.00
8) Nitrobenzene-d5	8.704	82	4361	0.420	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	8733	0.413	ng	0.00
14) 2,4,6-Tribromophenol	15.705	330	1359m	0.324	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	14880	0.443	ng	0.00
27) Fluoranthene-d10	19.002	212	21080	0.400	ng	0.00
31) Terphenyl-d14	19.620	244	15386	0.462	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.196	88	2385	0.458	ng	97
3) n-Nitrosodimethylamine	3.485	42	2860	0.427	ng	97
6) bis(2-Chloroethyl)ether	7.009	93	6313	0.446	ng	99
9) Naphthalene	10.391	128	16220	0.427	ng	100
10) Hexachlorobutadiene	10.690	225	3034	0.419	ng	# 99
12) 2-Methylnaphthalene	12.015	142	11132	0.435	ng	99
16) Acenaphthylene	13.924	152	16710	0.437	ng	100
17) Acenaphthene	14.277	154	11300	0.431	ng	99
18) Fluorene	15.271	166	14597	0.422	ng	99
20) 4,6-Dinitro-2-methylph...	15.335	198	907	0.379	ng	# 73
21) 4-Bromophenyl-phenylether	16.164	248	5012	0.424	ng	95
22) Hexachlorobenzene	16.276	284	5774	0.436	ng	100
23) Atrazine	16.449	200	3538	0.378	ng	99
24) Pentachlorophenol	16.611	266	1786	0.334	ng	99
25) Phenanthrene	16.995	178	25500	0.448	ng	100
26) Anthracene	17.095	178	22281	0.442	ng	100
28) Fluoranthene	19.030	202	29381	0.419	ng	100
30) Pyrene	19.392	202	30142	0.429	ng	100
32) Benzo(a)anthracene	21.148	228	28168	0.427	ng	98
33) Chrysene	21.201	228	30328	0.457	ng	99
34) Bis(2-ethylhexyl)phtha...	21.130	149	10851	0.362	ng	100
36) Indeno(1,2,3-cd)pyrene	25.521	276	30617	0.428	ng	99
37) Benzo(b)fluoranthene	22.700	252	27989	0.429	ng	100
38) Benzo(k)fluoranthene	22.744	252	30478	0.458	ng	99
39) Benzo(a)pyrene	23.253	252	24565	0.447	ng	99
40) Dibenzo(a,h)anthracene	25.545	278	24163	0.428	ng	99
41) Benzo(g,h,i)perylene	26.176	276	24708	0.394	ng	100

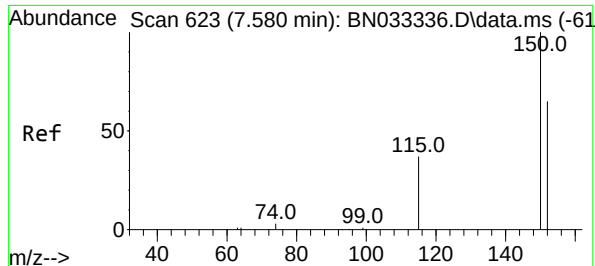
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033341.D
Acq On : 10 Aug 2024 17:54
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081024

Quant Time: Aug 12 01:13:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 01:09:50 2024
Response via : Initial Calibration

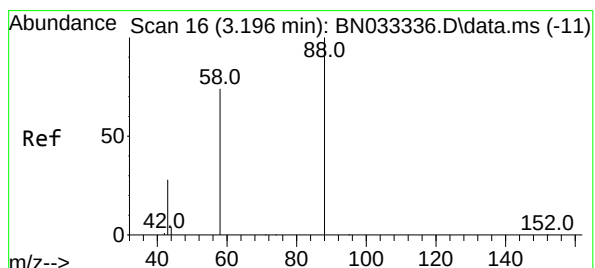
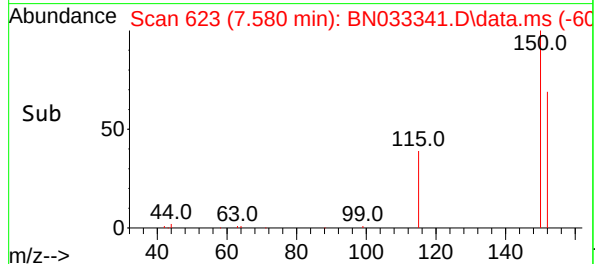
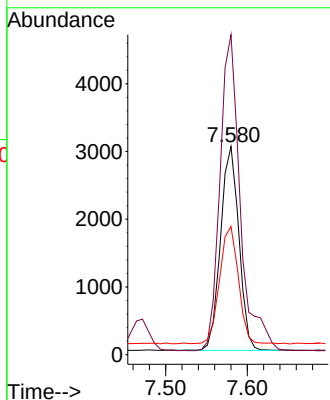
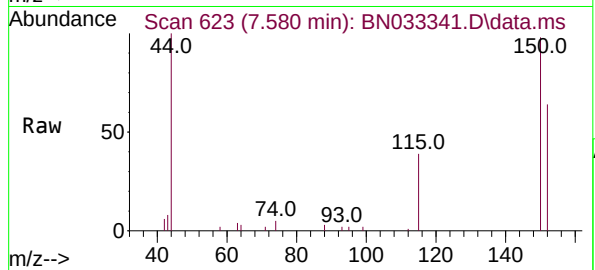




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.580 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

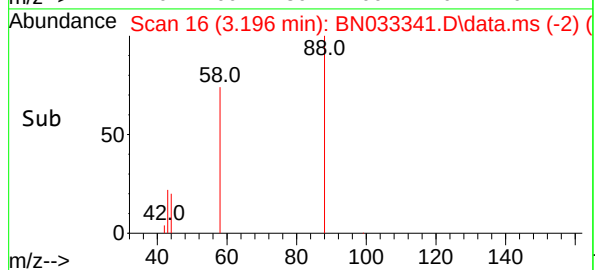
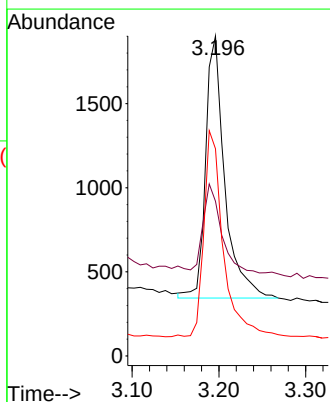
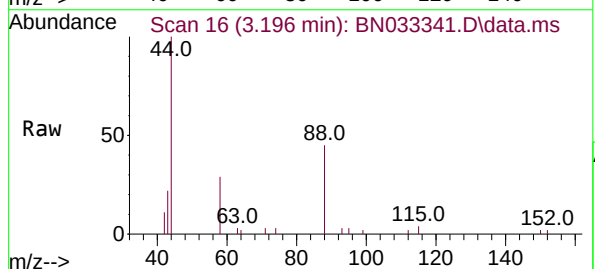
Instrument :
BNA_N
ClientSampleId :
ICVBN081024

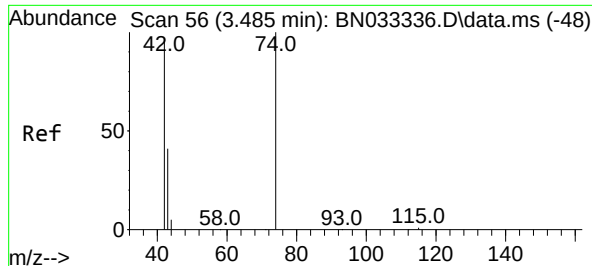
Tgt Ion:152 Resp: 4684
Ion Ratio Lower Upper
152 100
150 153.7 122.3 183.5
115 61.6 48.8 73.2



#2
1,4-Dioxane
Concen: 0.458 ng
RT: 3.196 min Scan# 16
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

Tgt Ion: 88 Resp: 2385
Ion Ratio Lower Upper
88 100
43 33.5 30.6 46.0
58 79.6 64.5 96.7

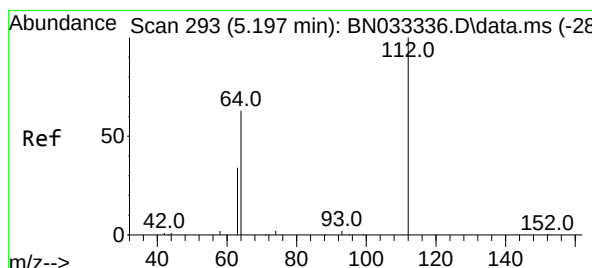
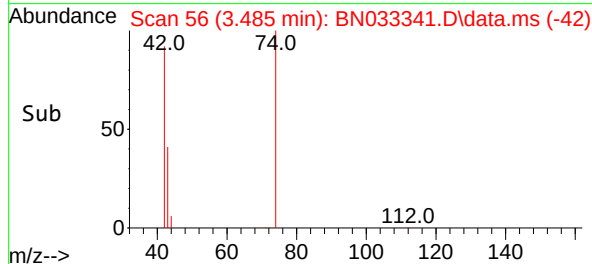
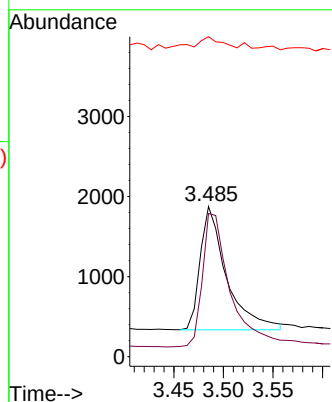
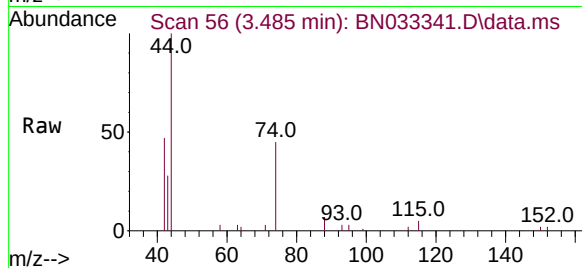




#3
n-Nitrosodimethylamine
Concen: 0.427 ng
RT: 3.485 min Scan# 56
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

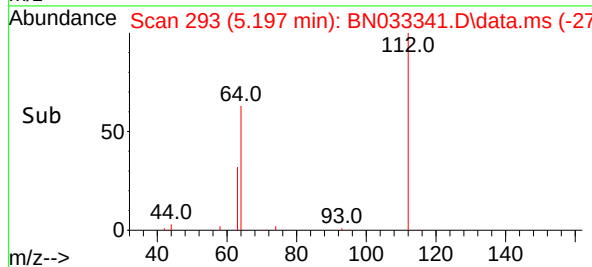
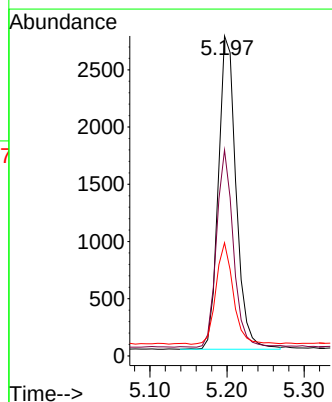
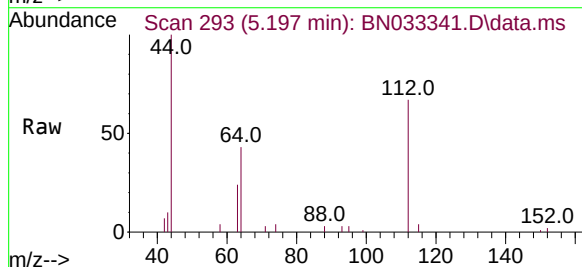
Instrument :
BNA_N
ClientSampleId :
ICVBN081024

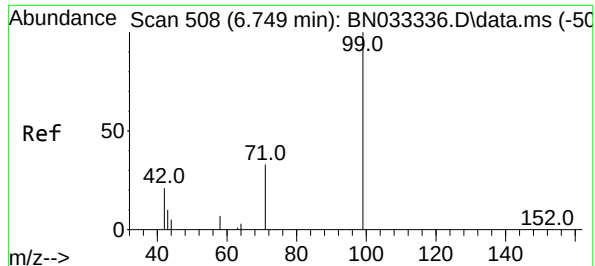
Tgt Ion: 42 Resp: 2860
Ion Ratio Lower Upper
42 100
74 113.7 89.0 133.6
44 11.5 11.0 16.4



#4
2-Fluorophenol
Concen: 0.337 ng
RT: 5.197 min Scan# 293
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

Tgt Ion: 112 Resp: 4365
Ion Ratio Lower Upper
112 100
64 59.6 48.1 72.1
63 31.8 25.4 38.2

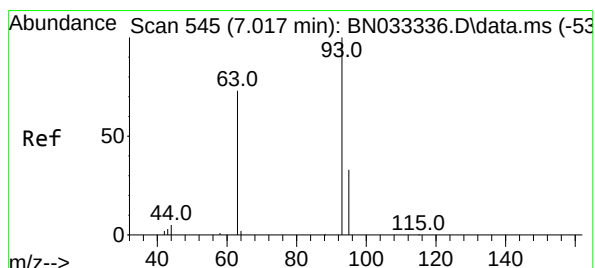
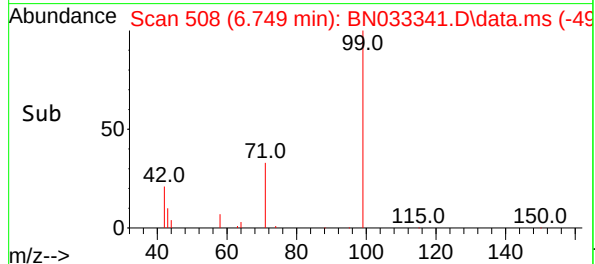
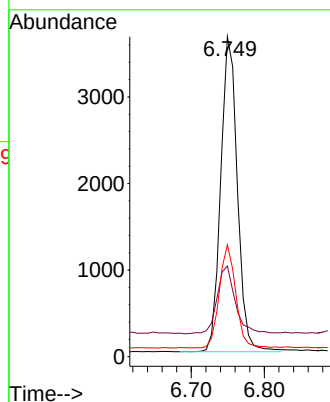
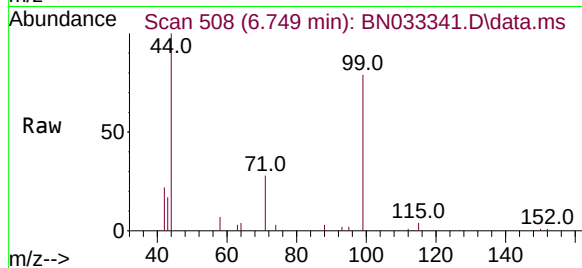




#5
Phenol-d6
Concen: 0.329 ng
RT: 6.749 min Scan# 508
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

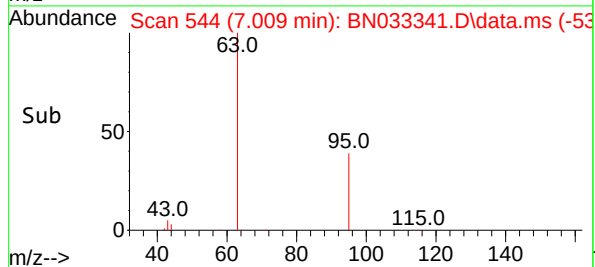
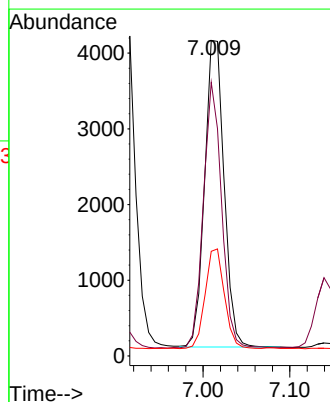
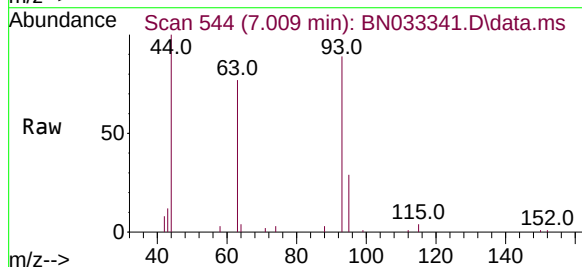
Instrument :
BNA_N
ClientSampleId :
ICVBN081024

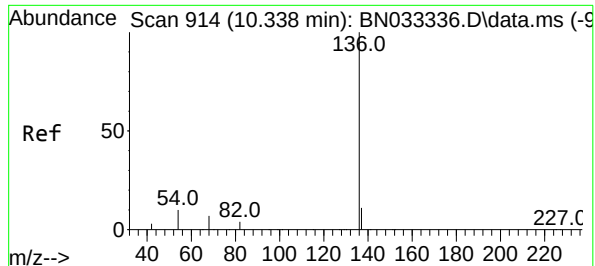
Tgt Ion: 99 Resp: 5751
Ion Ratio Lower Upper
99 100
42 23.6 18.5 27.7
71 32.4 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.446 ng
RT: 7.009 min Scan# 544
Delta R.T. -0.007 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

Tgt Ion: 93 Resp: 6313
Ion Ratio Lower Upper
93 100
63 81.7 65.2 97.8
95 32.1 26.2 39.4

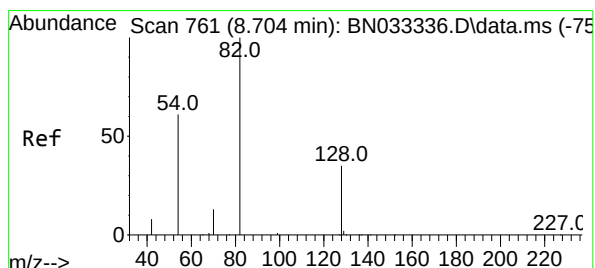
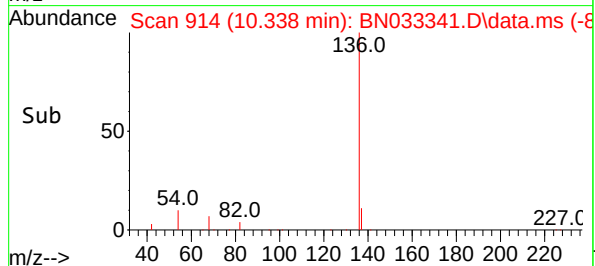
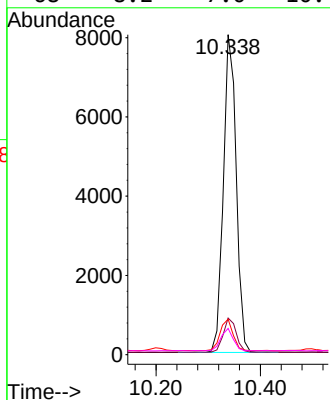
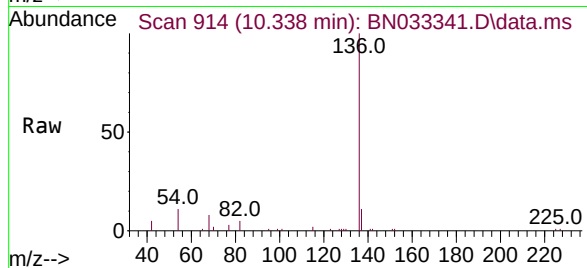




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.338 min Scan# 914
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

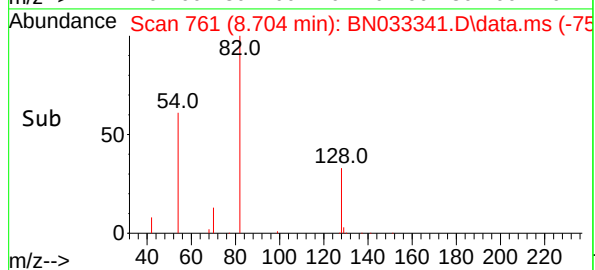
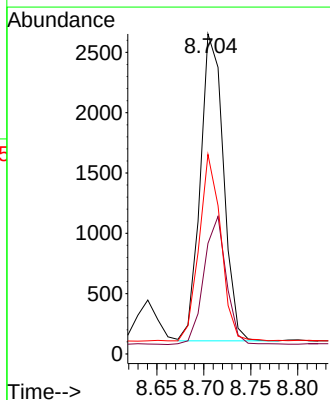
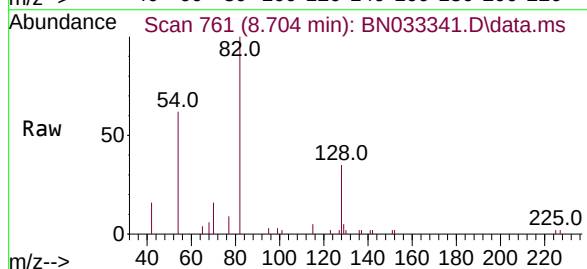
Instrument :
BNA_N
ClientSampleId :
ICVBN081024

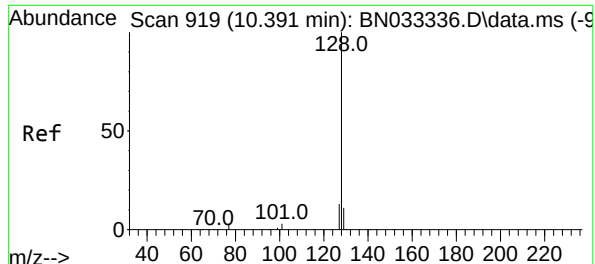
Tgt Ion:	136	Resp:	13757
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	11.1	9.4	14.0
68	8.2	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.420 ng
RT: 8.704 min Scan# 761
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

Tgt Ion:	82	Resp:	4361
Ion	Ratio	Lower	Upper
82	100		
128	34.5	29.0	43.4
54	62.3	50.2	75.4

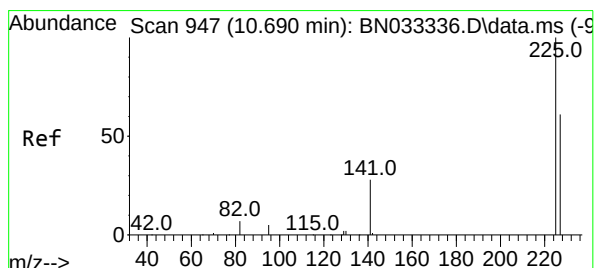
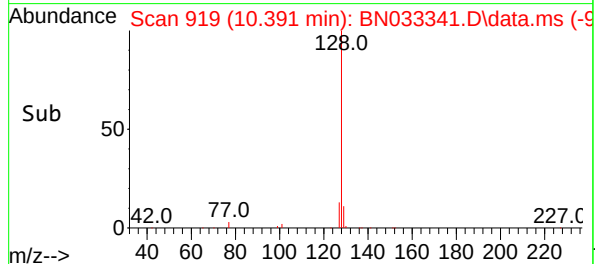
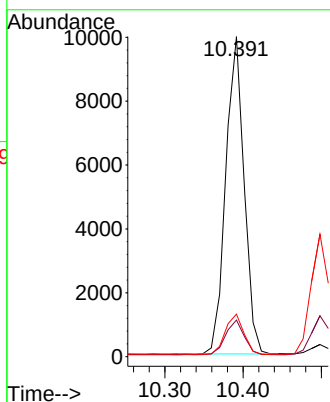
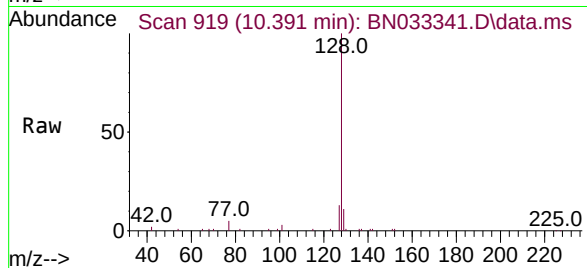




#9
Naphthalene
Concen: 0.427 ng
RT: 10.391 min Scan# 919
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

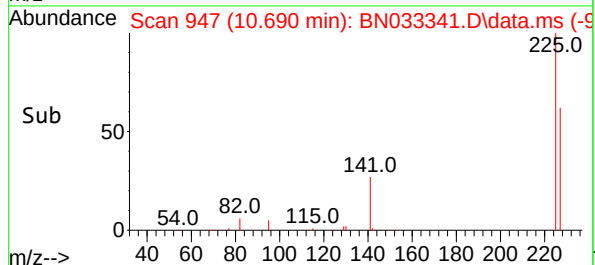
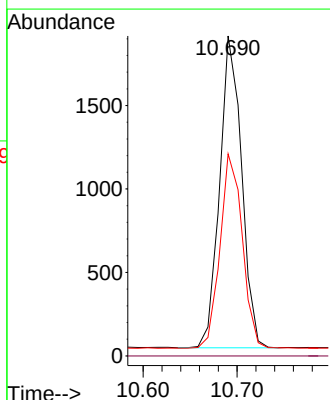
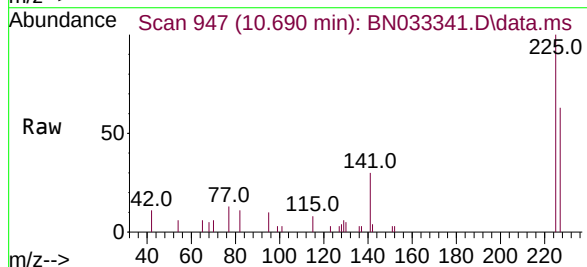
Instrument :
BNA_N
ClientSampleId :
ICVBN081024

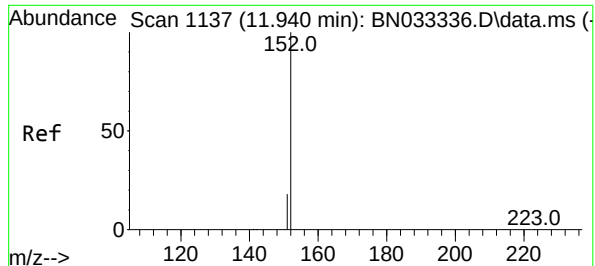
Tgt Ion	128	129	127
Resp:	16220		
Ion Ratio	100	11.4	13.3
Lower		9.2	10.6
Upper		13.8	15.8



#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.690 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

Tgt Ion	225	223	227
Resp:	3034		
Ion Ratio	100	0.0	62.8
Lower		0.0	50.8
Upper		0.0	76.2

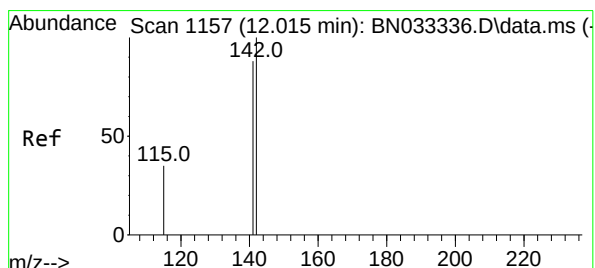
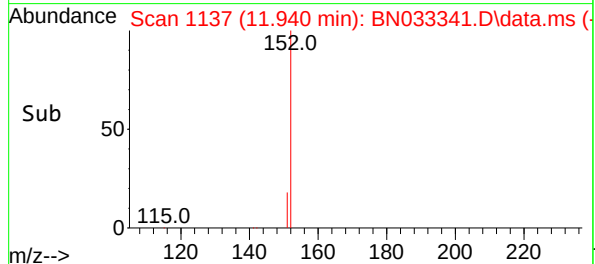
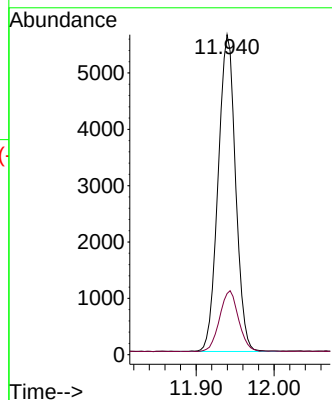
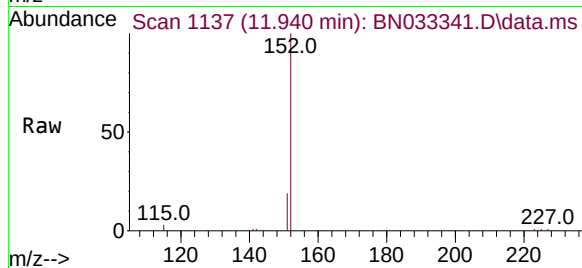




#11
2-Methylnaphthalene-d10
Concen: 0.413 ng
RT: 11.940 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

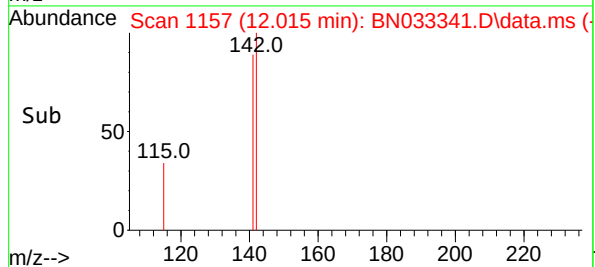
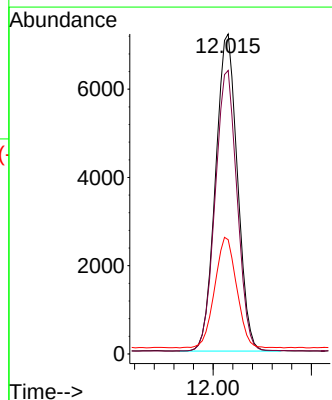
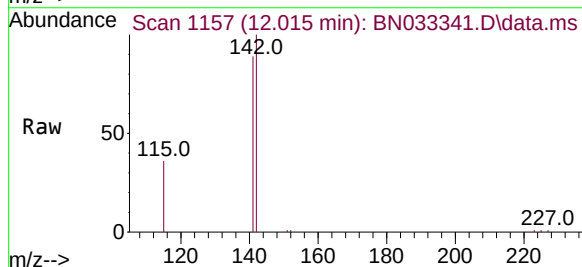
Instrument :
BNA_N
ClientSampleId :
ICVBN081024

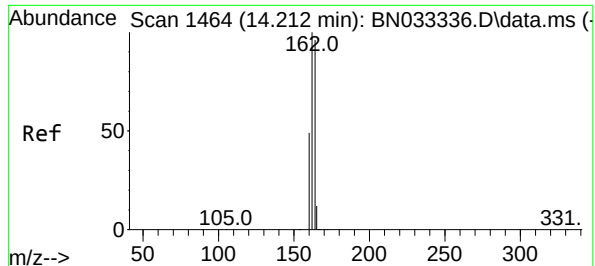
Tgt Ion:152 Resp: 8733
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.435 ng
RT: 12.015 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

Tgt Ion:142 Resp: 11132
Ion Ratio Lower Upper
142 100
141 88.6 70.2 105.4
115 35.7 29.3 43.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.212 min Scan# 1464

Delta R.T. 0.000 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

Instrument :

BNA_N

ClientSampleId :

ICVBN081024

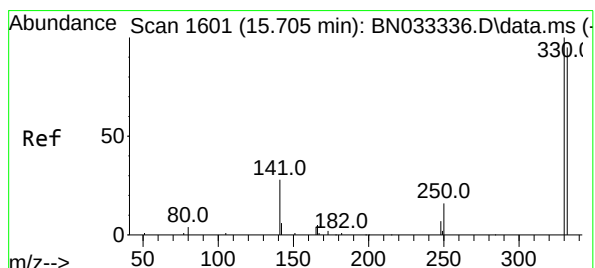
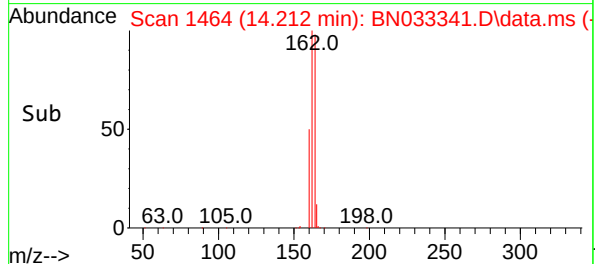
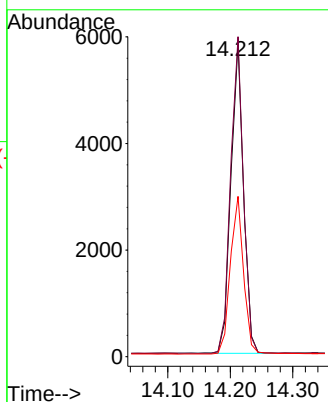
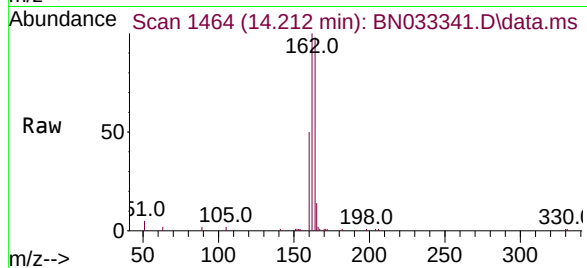
Tgt Ion:164 Resp: 8186

Ion Ratio Lower Upper

164 100

162 102.0 83.1 124.7

160 51.1 41.1 61.7



#14

2,4,6-Tribromophenol

Concen: 0.324 ng m

RT: 15.705 min Scan# 1601

Delta R.T. 0.000 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

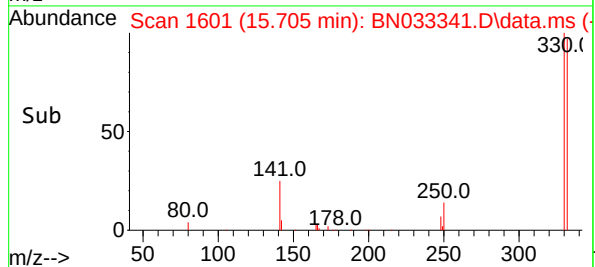
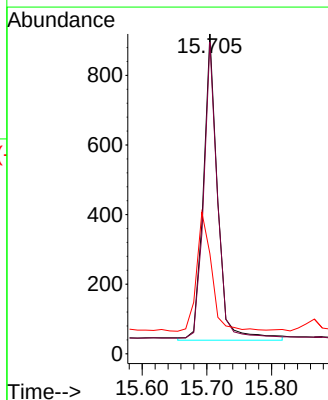
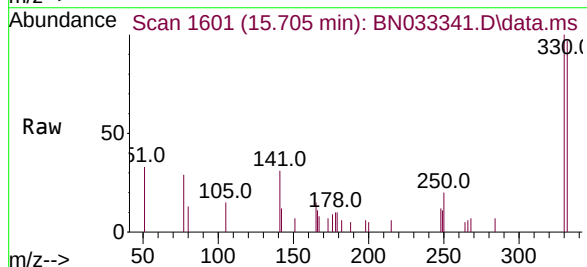
Tgt Ion:330 Resp: 1359

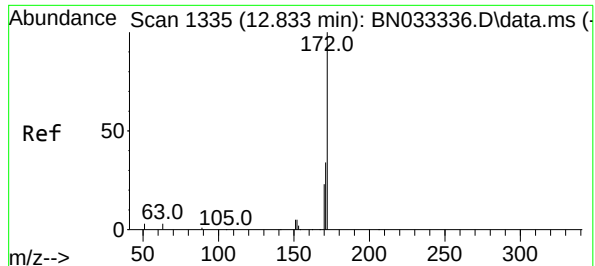
Ion Ratio Lower Upper

330 100

332 91.3 77.1 115.7

141 40.5 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.443 ng

RT: 12.833 min Scan# 1335

Delta R.T. 0.000 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

Instrument :

BNA_N

ClientSampleId :

ICVBN081024

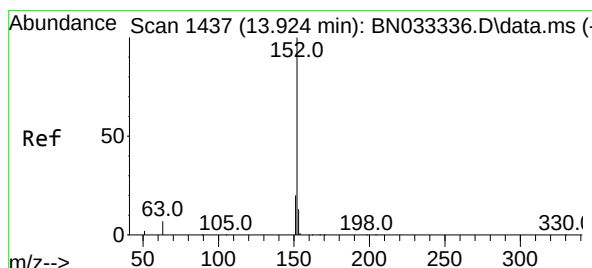
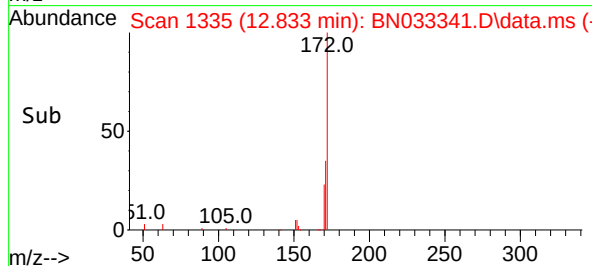
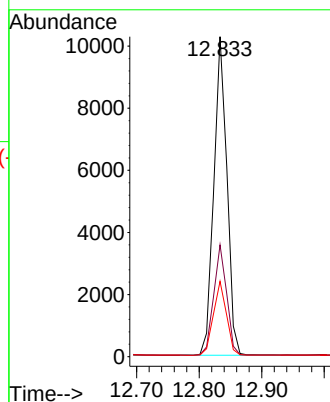
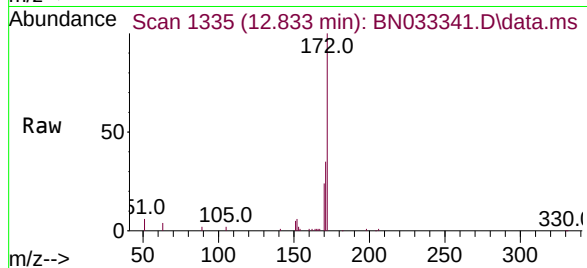
Tgt Ion:172 Resp: 14880

Ion Ratio Lower Upper

172 100

171 34.9 27.8 41.8

170 23.6 18.7 28.1



#16

Acenaphthylene

Concen: 0.437 ng

RT: 13.924 min Scan# 1437

Delta R.T. 0.000 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

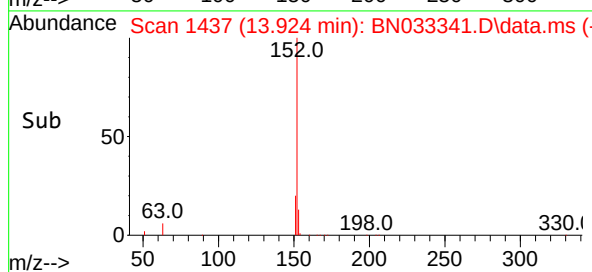
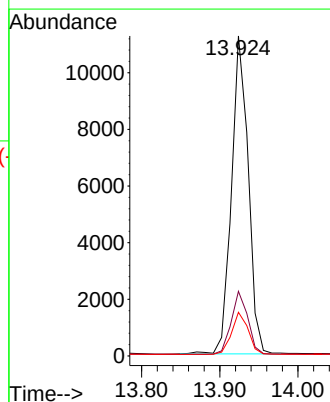
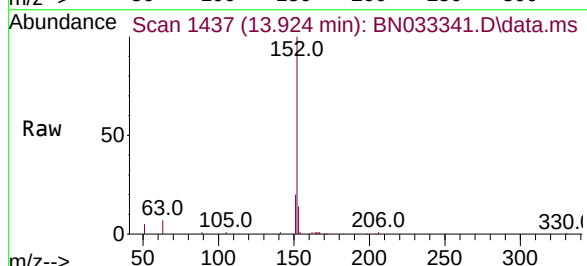
Tgt Ion:152 Resp: 16710

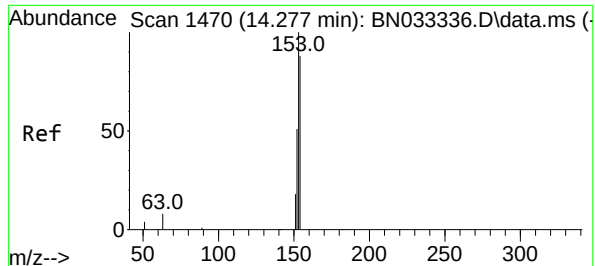
Ion Ratio Lower Upper

152 100

151 19.5 15.7 23.5

153 13.1 10.4 15.6

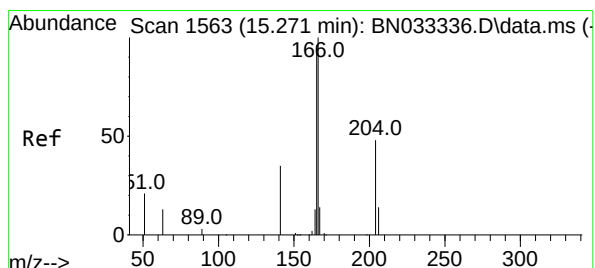
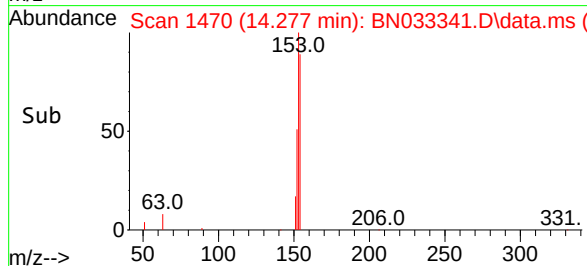
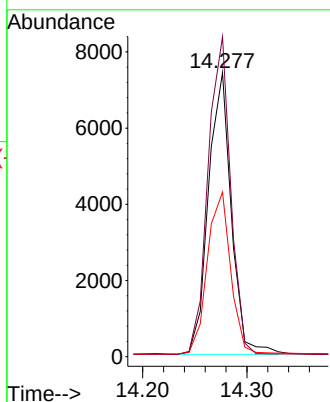
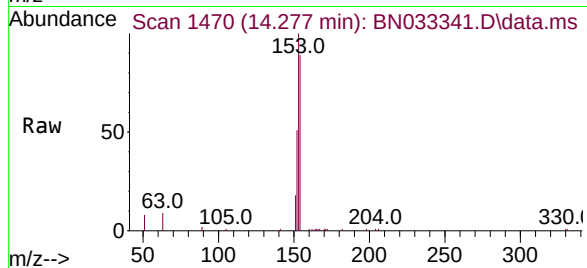




#17
Acenaphthene
Concen: 0.431 ng
RT: 14.277 min Scan# 1470
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

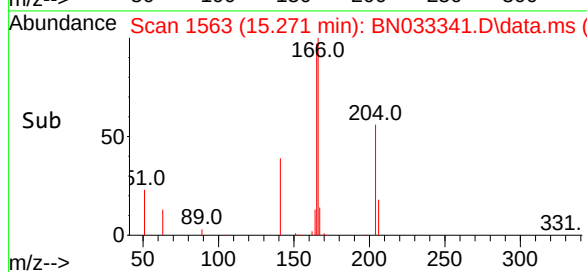
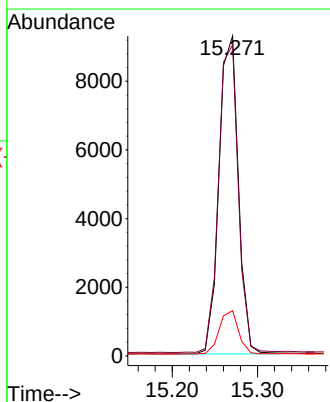
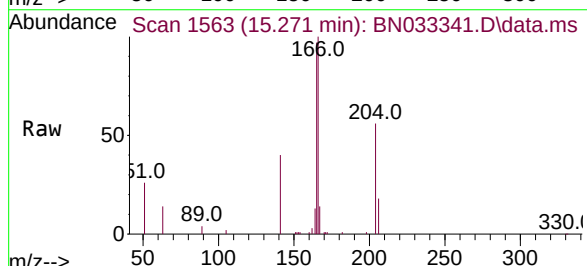
Instrument :
BNA_N
ClientSampleId :
ICVBN081024

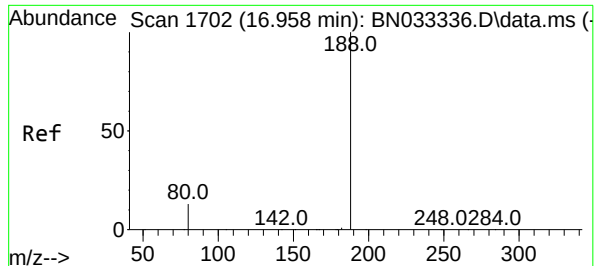
Tgt Ion	Ratio	Lower	Upper
154	100		
153	111.0	89.7	134.5
152	58.4	47.2	70.8



#18
Fluorene
Concen: 0.422 ng
RT: 15.271 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.6	78.0	117.0
167	13.5	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.958 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

Instrument :

BNA_N

ClientSampleId :

ICVBN081024

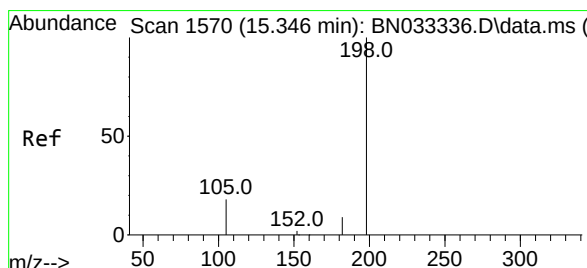
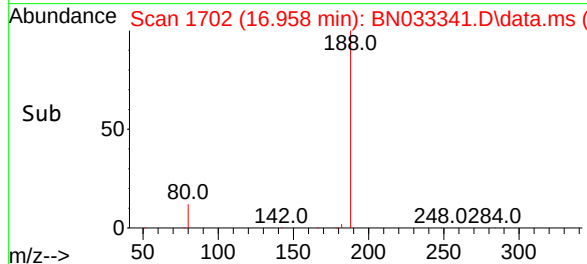
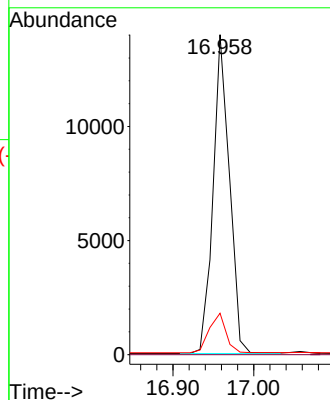
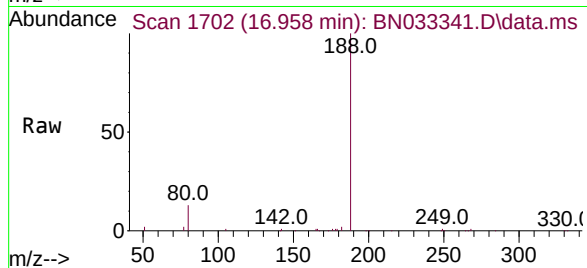
Tgt Ion:188 Resp: 19726

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.0 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.379 ng

RT: 15.335 min Scan# 1569

Delta R.T. -0.011 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

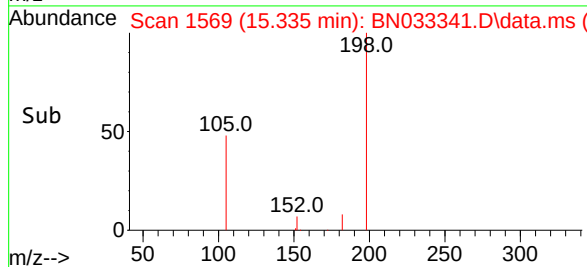
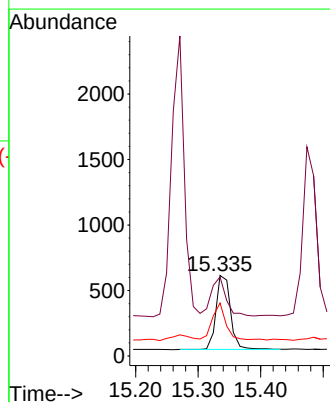
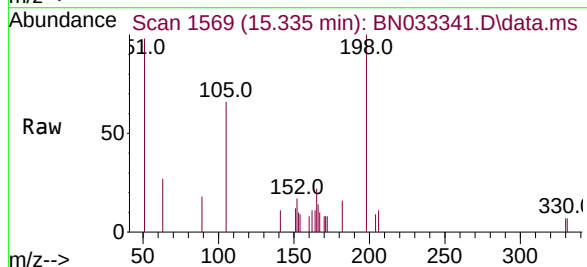
Tgt Ion:198 Resp: 907

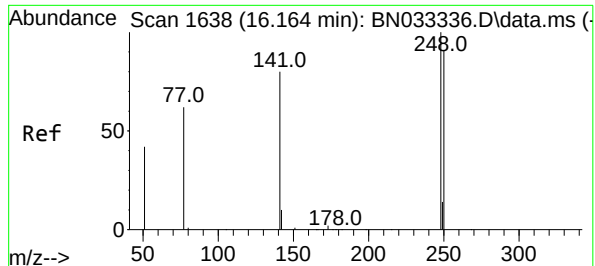
Ion Ratio Lower Upper

198 100

51 98.2 62.8 94.2#

105 65.7 34.1 51.1#

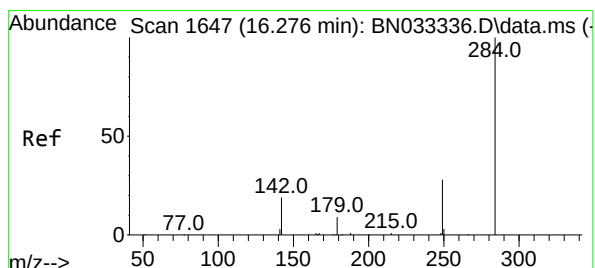
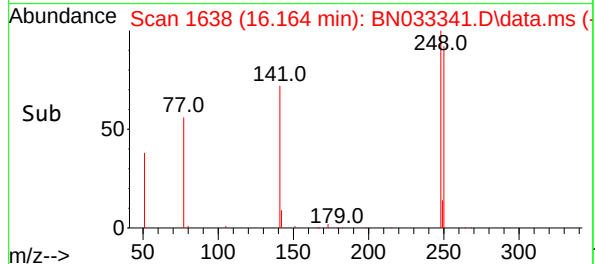
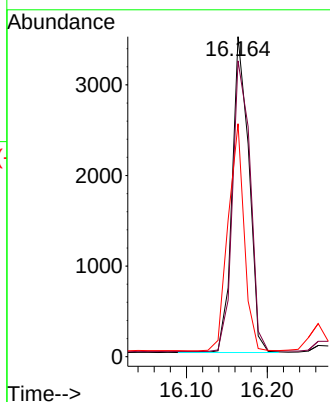
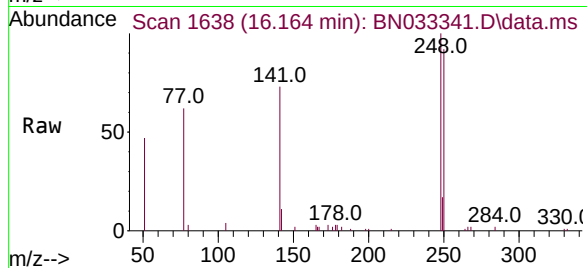




#21
4-Bromophenyl-phenylether
Concen: 0.424 ng
RT: 16.164 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

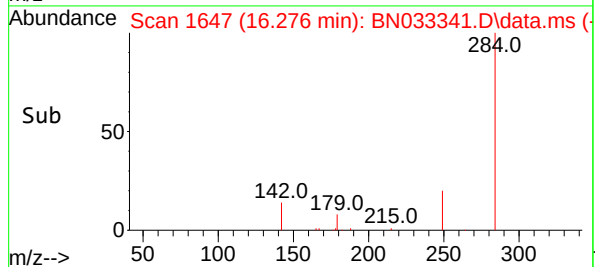
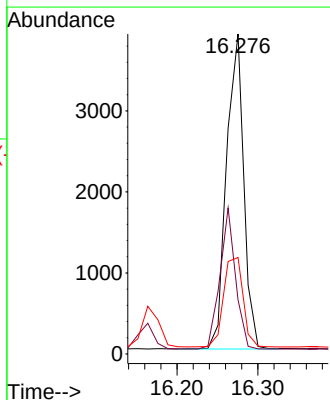
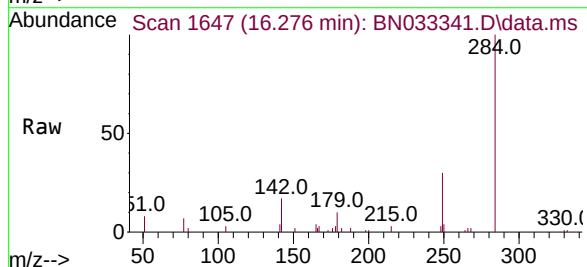
Instrument :
BNA_N
ClientSampleId :
ICVBN081024

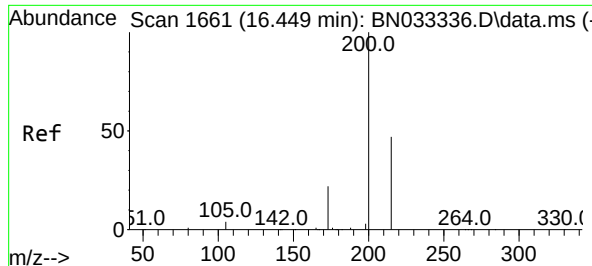
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.5	73.0	109.4
141	72.8	64.6	96.8



#22
Hexachlorobenzene
Concen: 0.436 ng
RT: 16.276 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.4	32.2	48.4
249	32.1	25.3	37.9

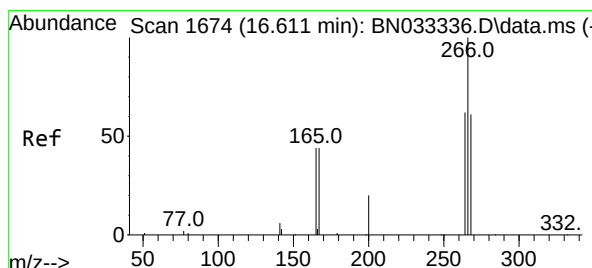
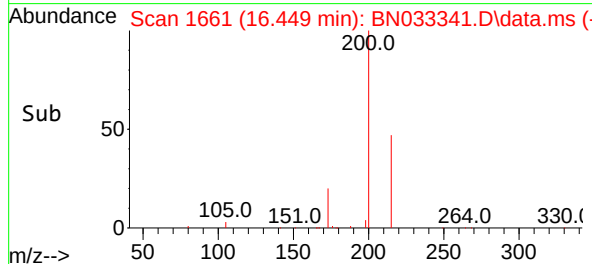
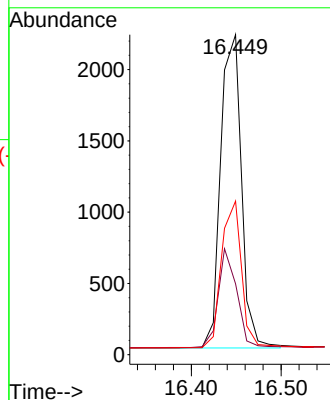
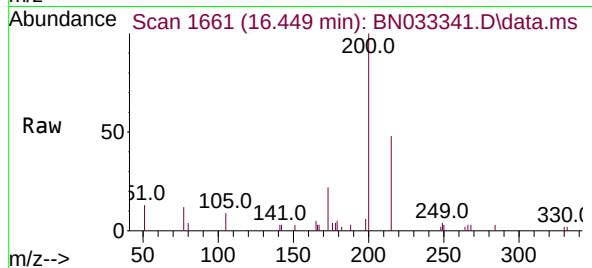




#23
Atrazine
Concen: 0.378 ng
RT: 16.449 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

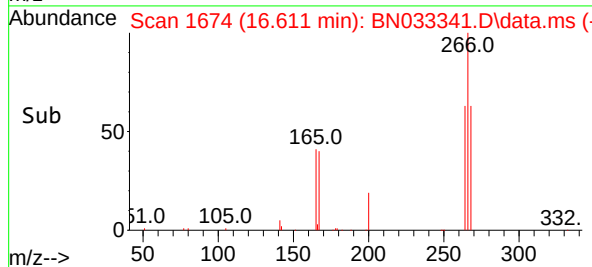
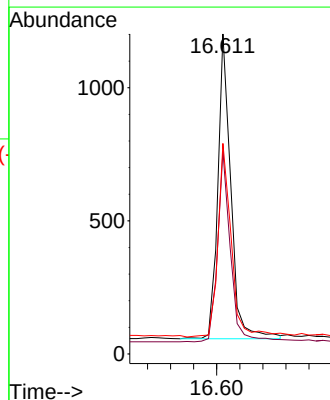
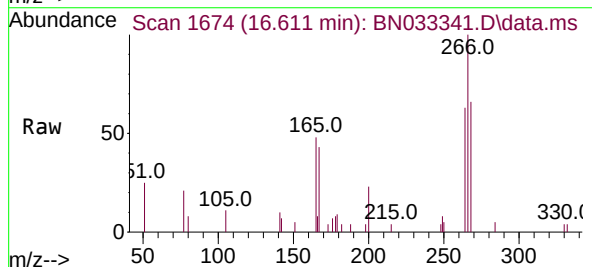
Instrument :
BNA_N
ClientSampleId :
ICVBN081024

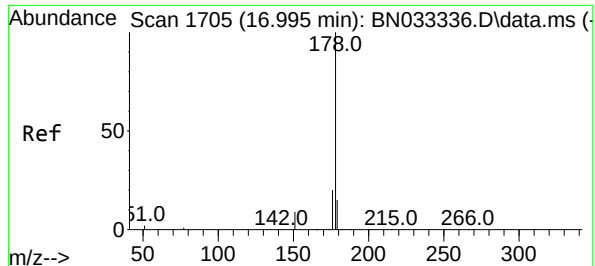
Tgt Ion	Ratio	Lower	Upper
200	100		
173	22.2	18.7	28.1
215	48.0	38.6	58.0



#24
Pentachlorophenol
Concen: 0.334 ng
RT: 16.611 min Scan# 1674
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.4	49.2	73.8
268	64.7	51.2	76.8

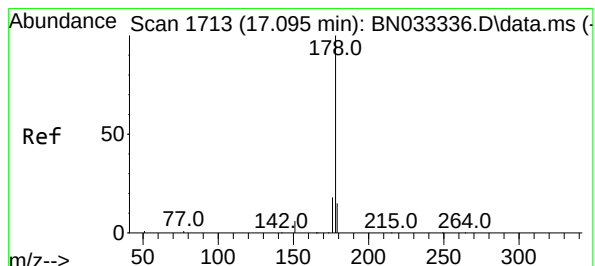
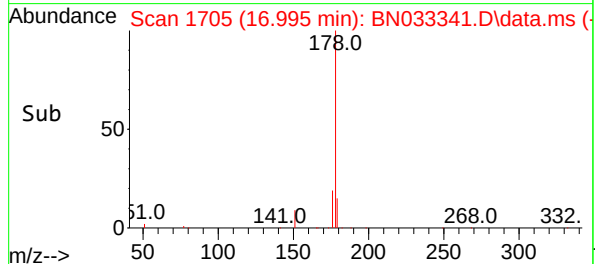
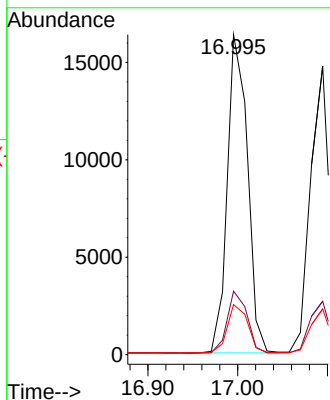
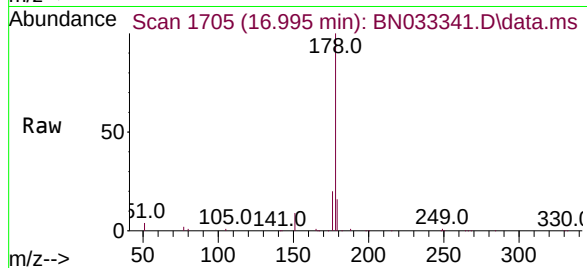




#25
Phenanthrene
Concen: 0.448 ng
RT: 16.995 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

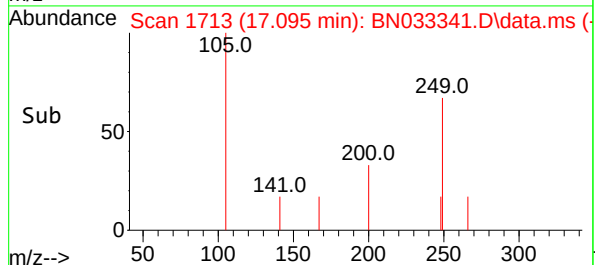
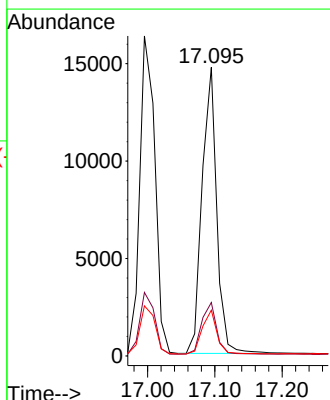
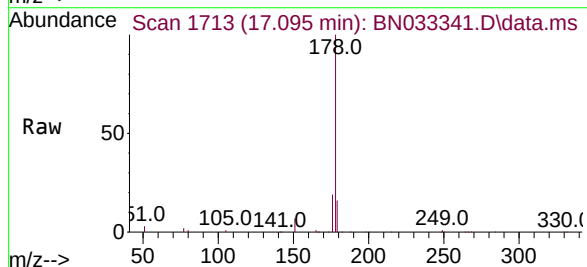
Instrument :
BNA_N
ClientSampleId :
ICVBN081024

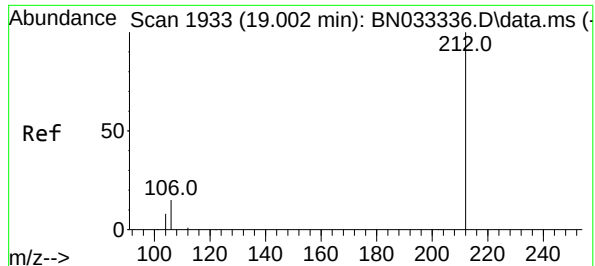
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.4	12.2	18.2



#26
Anthracene
Concen: 0.442 ng
RT: 17.095 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.7	22.1
179	15.2	12.2	18.2





#27

Fluoranthene-d10

Concen: 0.400 ng

RT: 19.002 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

Instrument :

BNA_N

ClientSampleId :

ICVBN081024

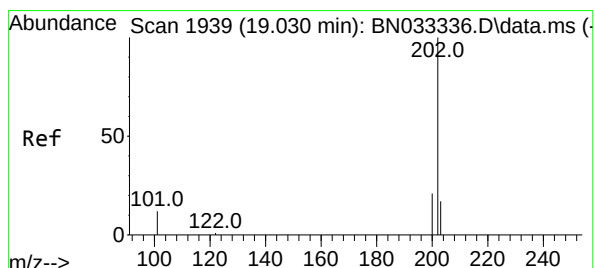
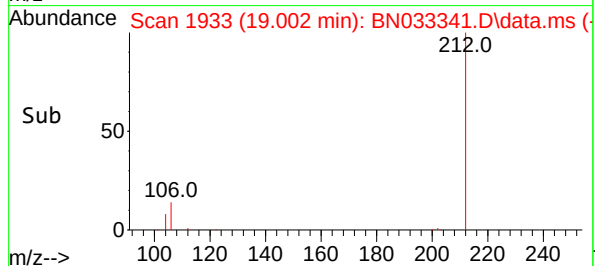
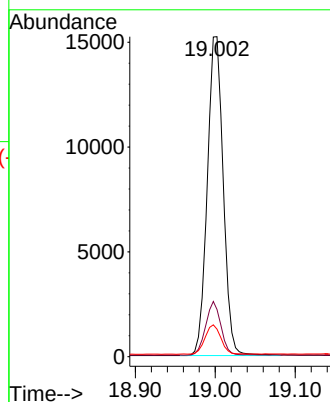
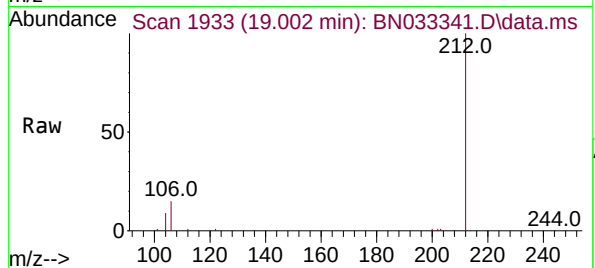
Tgt Ion:212 Resp: 21080

Ion Ratio Lower Upper

212 100

106 16.1 12.8 19.2

104 9.2 7.1 10.7



#28

Fluoranthene

Concen: 0.419 ng

RT: 19.030 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

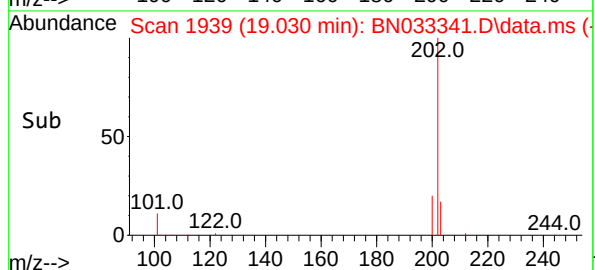
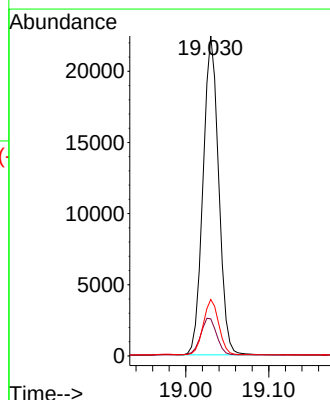
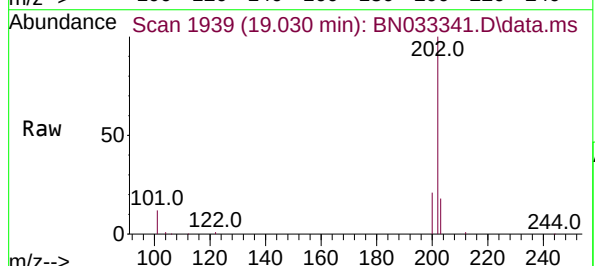
Tgt Ion:202 Resp: 29381

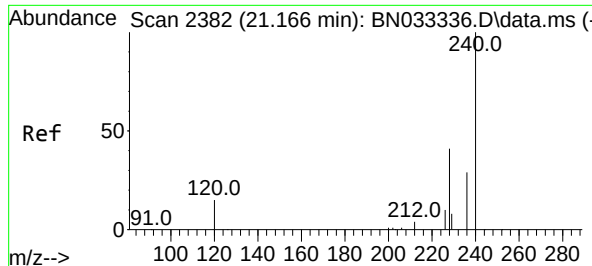
Ion Ratio Lower Upper

202 100

101 12.3 9.8 14.6

203 17.3 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.166 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

Instrument :

BNA_N

ClientSampleId :

ICVBN081024

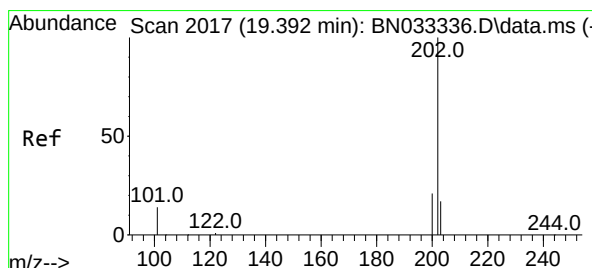
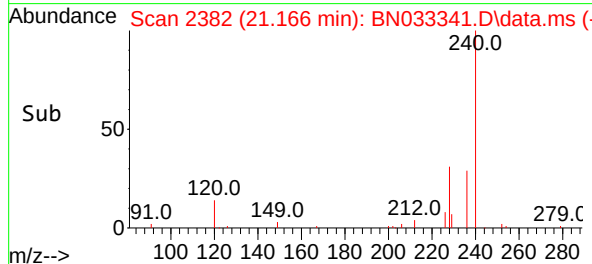
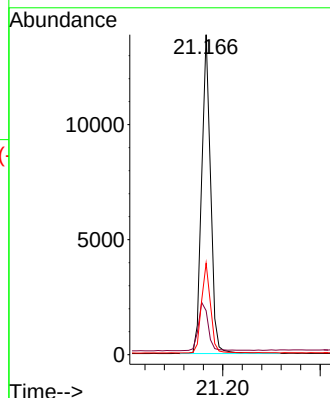
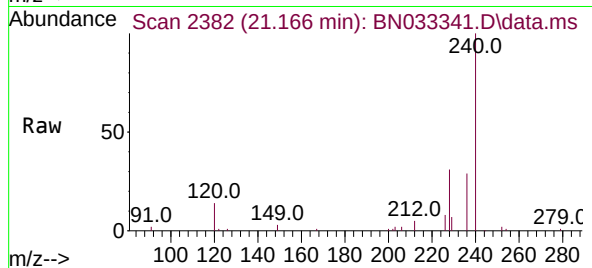
Tgt Ion:240 Resp: 17644

Ion Ratio Lower Upper

240 100

120 13.8 13.0 19.6

236 28.6 23.2 34.8



#30

Pyrene

Concen: 0.429 ng

RT: 19.392 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

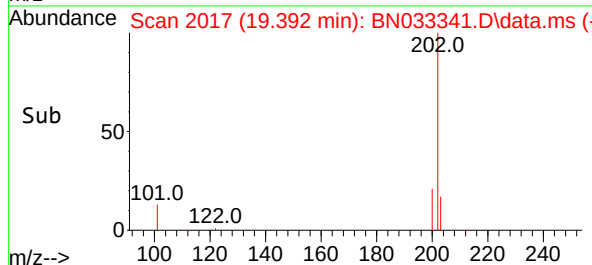
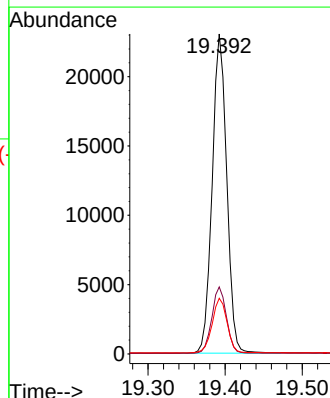
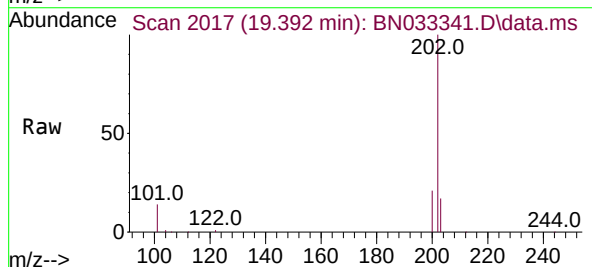
Tgt Ion:202 Resp: 30142

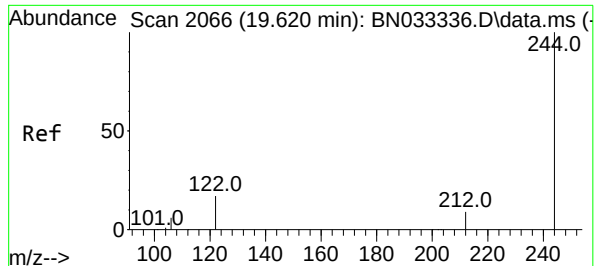
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 17.7 14.2 21.4

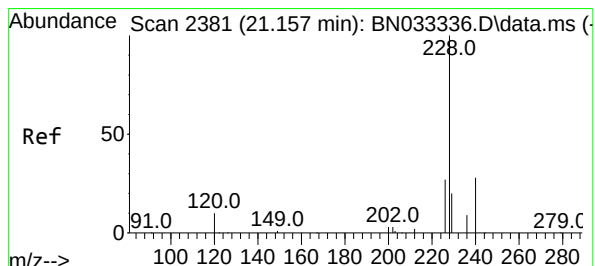
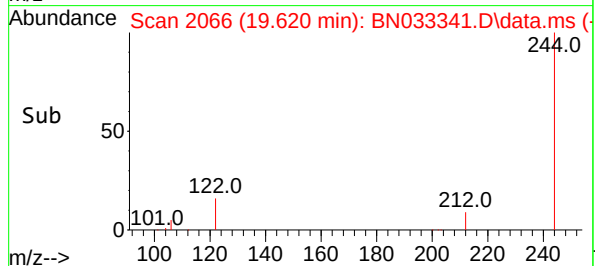
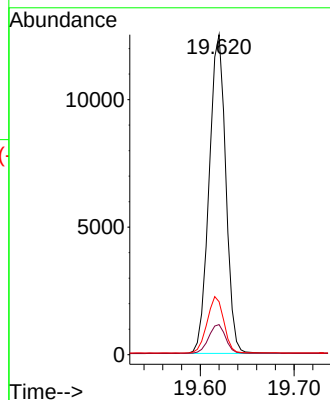
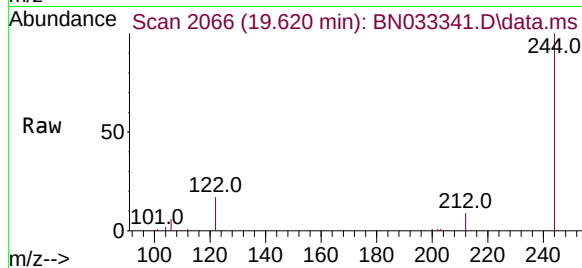




#31
Terphenyl-d14
Concen: 0.462 ng
RT: 19.620 min Scan# 2066
Delta R.T. 0.000 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

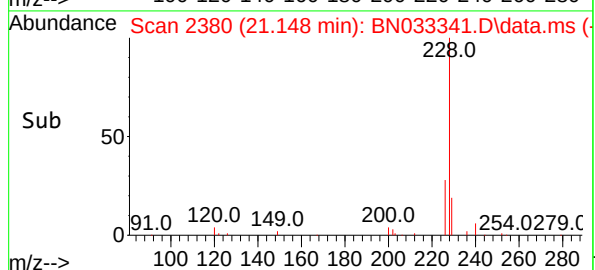
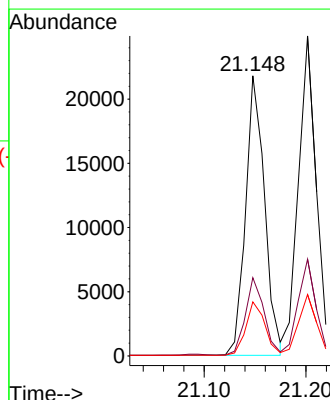
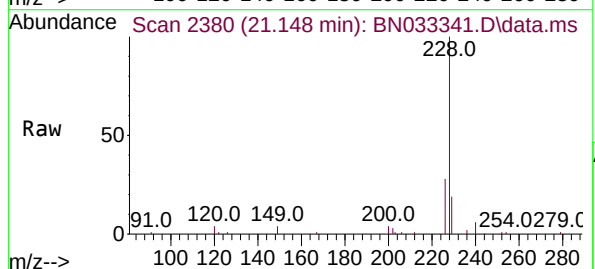
Instrument :
BNA_N
ClientSampleId :
ICVBN081024

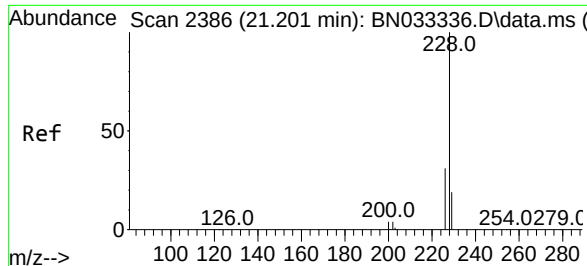
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.7	11.5
122	16.6	14.0	21.0



#32
Benzo(a)anthracene
Concen: 0.427 ng
RT: 21.148 min Scan# 2380
Delta R.T. -0.009 min
Lab File: BN033341.D
Acq: 10 Aug 2024 17:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	21.6	32.4
229	19.3	15.9	23.9





#33

Chrysene

Concen: 0.457 ng

RT: 21.201 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

Instrument :

BNA_N

ClientSampleId :

ICVBN081024

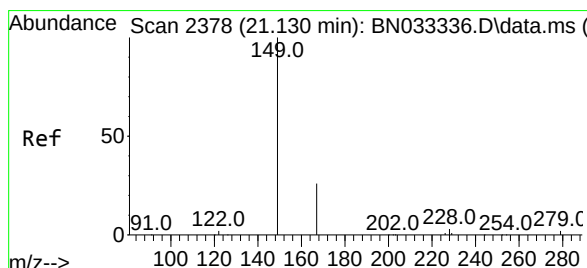
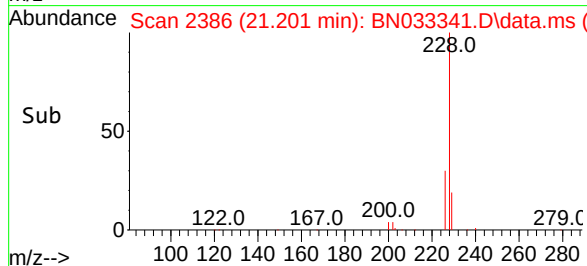
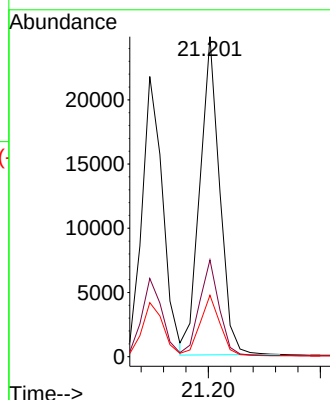
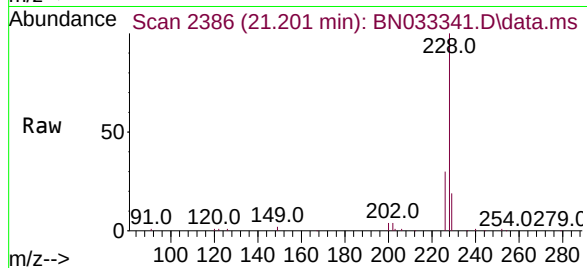
Tgt Ion:228 Resp: 30328

Ion Ratio Lower Upper

228 100

226 30.3 24.7 37.1

229 19.2 15.4 23.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.362 ng

RT: 21.130 min Scan# 2378

Delta R.T. 0.000 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

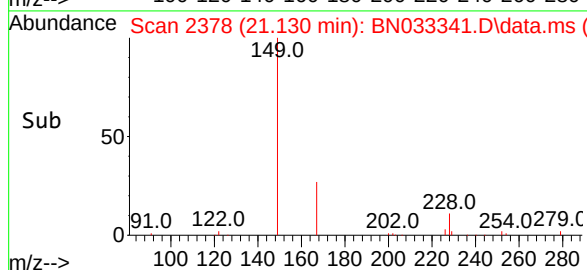
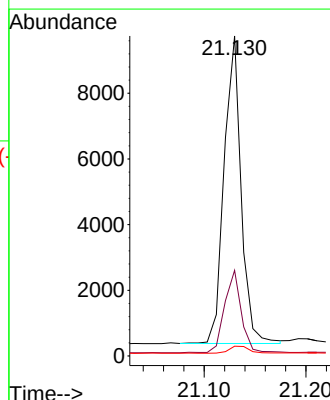
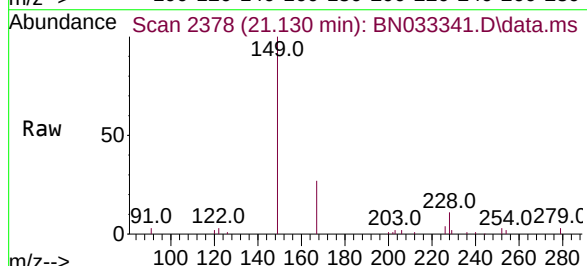
Tgt Ion:149 Resp: 10851

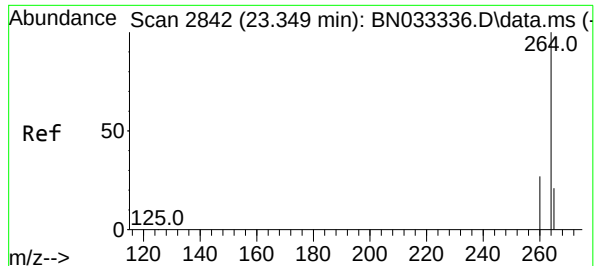
Ion Ratio Lower Upper

149 100

167 26.4 20.9 31.3

279 2.9 2.2 3.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.346 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

Instrument :

BNA_N

ClientSampleId :

ICVBN081024

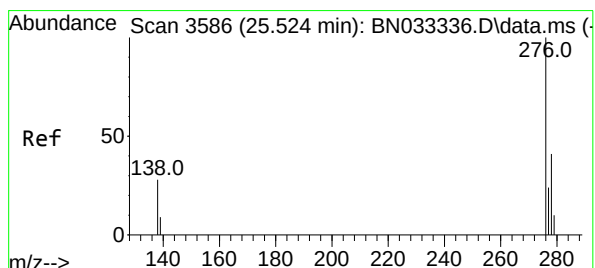
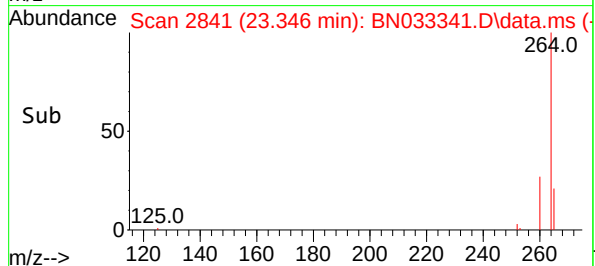
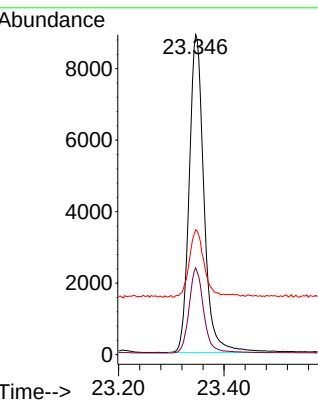
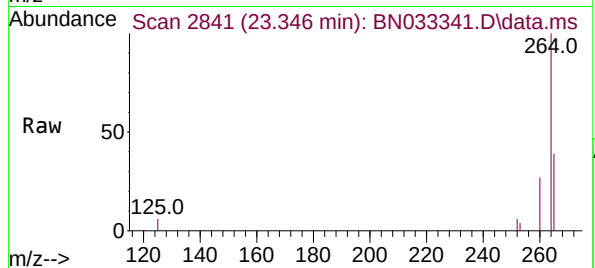
Tgt Ion:264 Resp: 17318

Ion Ratio Lower Upper

264 100

260 27.2 21.6 32.4

265 39.0 29.3 43.9



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.428 ng

RT: 25.521 min Scan# 3585

Delta R.T. -0.003 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

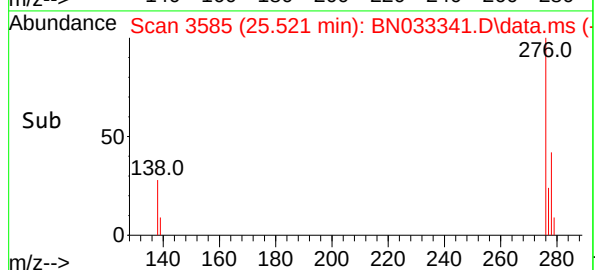
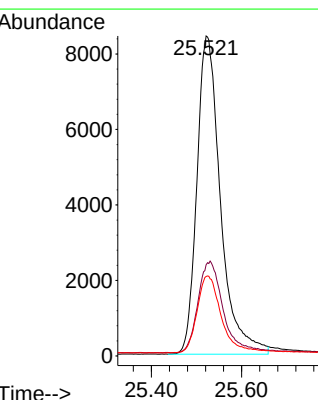
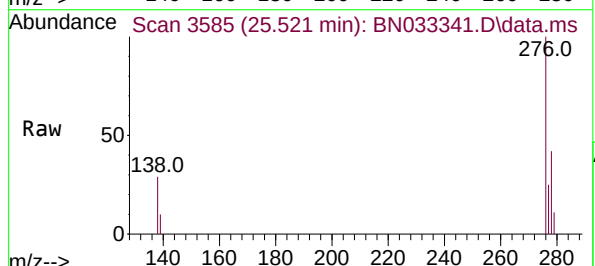
Tgt Ion:276 Resp: 30617

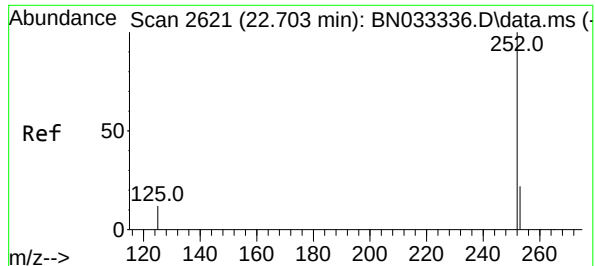
Ion Ratio Lower Upper

276 100

138 30.5 24.9 37.3

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.429 ng

RT: 22.700 min Scan# 2620

Delta R.T. -0.003 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

Instrument :

BNA_N

ClientSampleId :

ICVBN081024

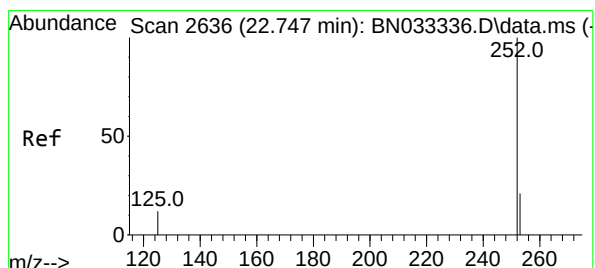
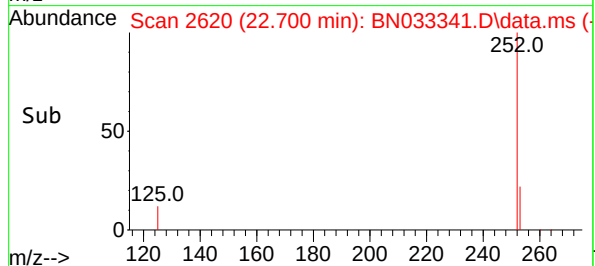
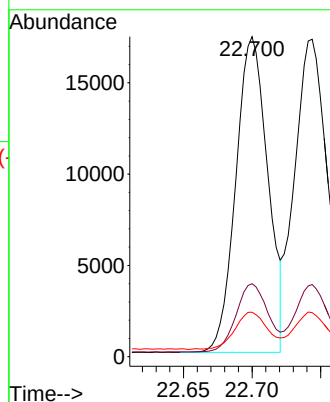
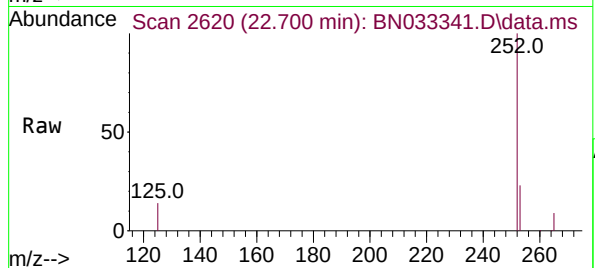
Tgt Ion:252 Resp: 27989

Ion Ratio Lower Upper

252 100

253 22.8 18.2 27.2

125 13.9 11.3 16.9



#38

Benzo(k)fluoranthene

Concen: 0.458 ng

RT: 22.744 min Scan# 2635

Delta R.T. -0.003 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

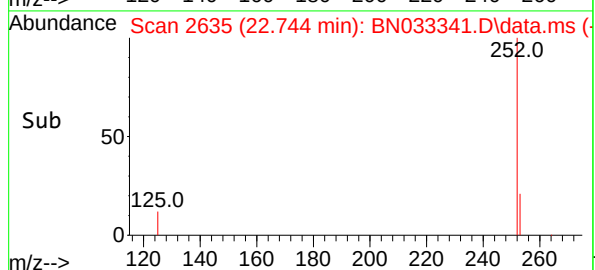
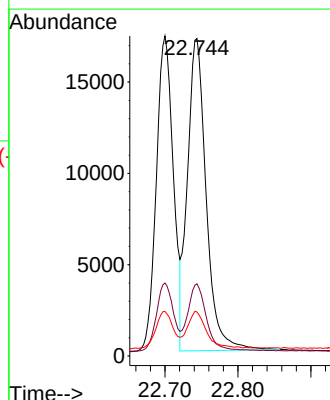
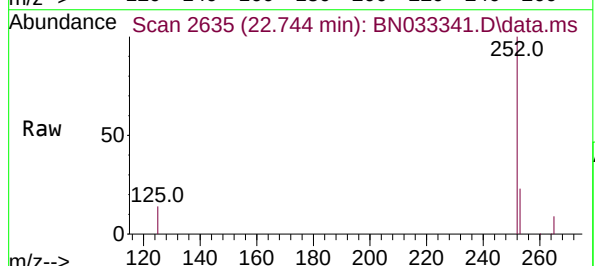
Tgt Ion:252 Resp: 30478

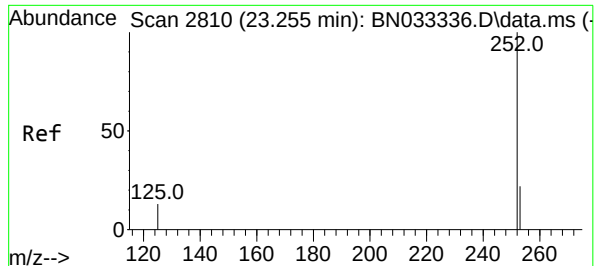
Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

125 13.9 11.3 16.9





#39

Benzo(a)pyrene

Concen: 0.447 ng

RT: 23.253 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

Instrument :

BNA_N

ClientSampleId :

ICVBN081024

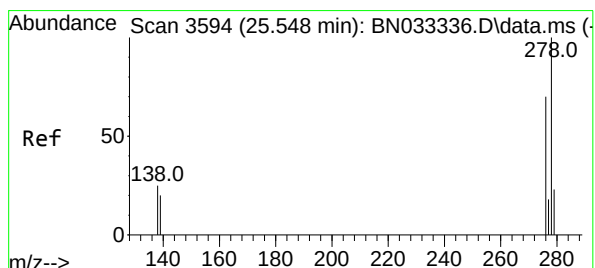
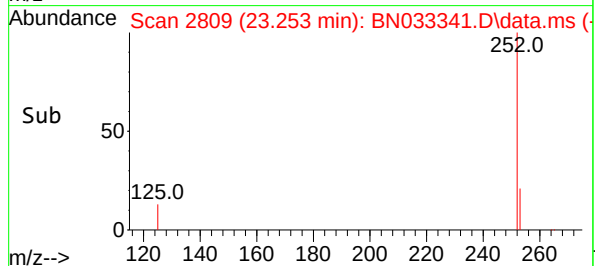
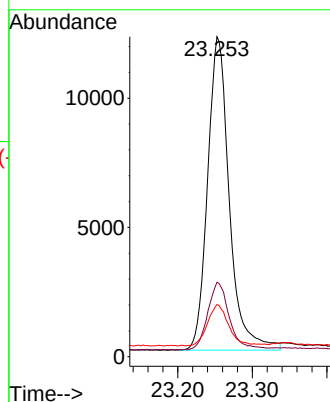
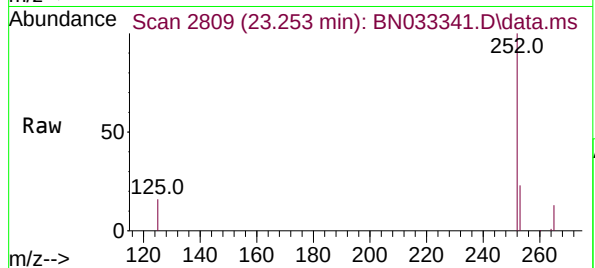
Tgt Ion:252 Resp: 24565

Ion Ratio Lower Upper

252 100

253 23.2 18.6 28.0

125 16.3 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.428 ng

RT: 25.545 min Scan# 3593

Delta R.T. -0.003 min

Lab File: BN033341.D

Acq: 10 Aug 2024 17:54

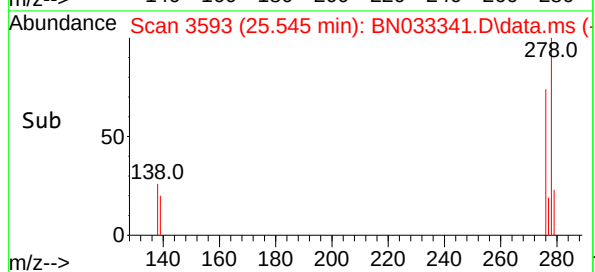
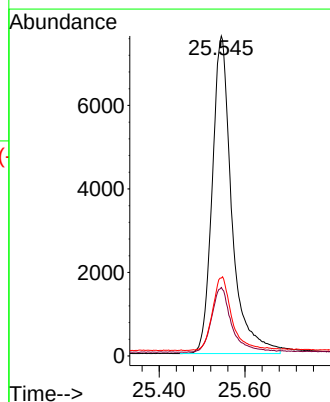
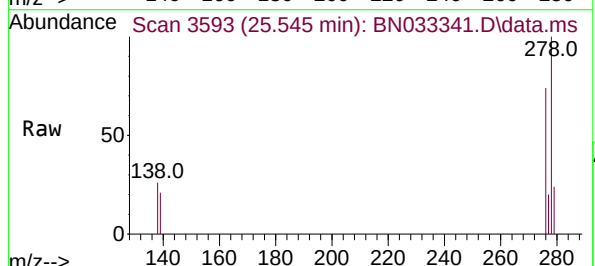
Tgt Ion:278 Resp: 24163

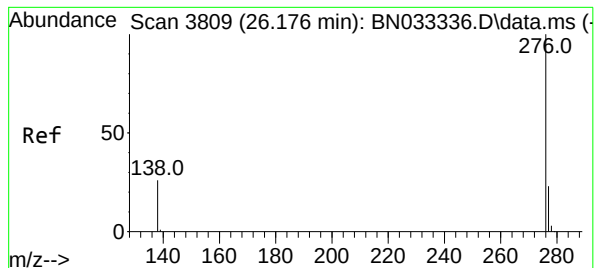
Ion Ratio Lower Upper

278 100

139 21.4 17.0 25.6

279 24.3 20.0 30.0





#41

Benzo(g,h,i)perylene

Concen: 0.394 ng

RT: 26.176 min Scan# 3809

Delta R.T. 0.000 min

Lab File: BN033341.D

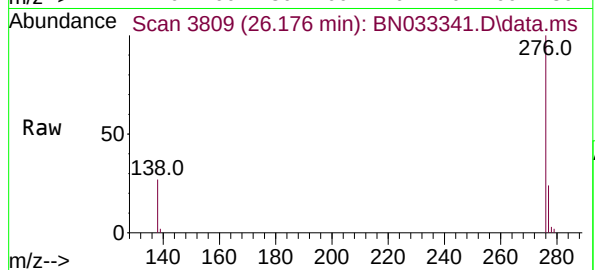
Acq: 10 Aug 2024 17:54

Instrument :

BNA_N

ClientSampleId :

ICVBN081024



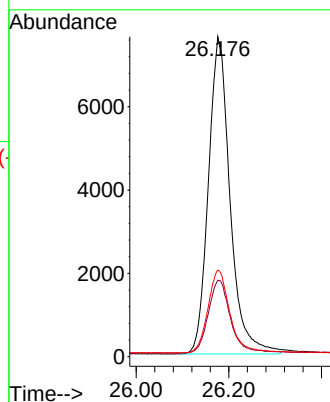
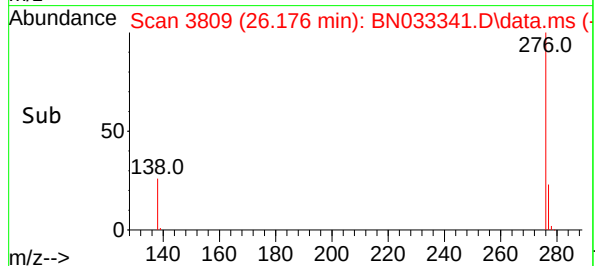
Tgt Ion:276 Resp: 24708

Ion Ratio Lower Upper

276 100

277 23.9 19.4 29.2

138 27.1 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033341.D
Acq On : 10 Aug 2024 17:54
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081024

Quant Time: Aug 12 01:13:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 01:09:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
2	1,4-Dioxane	0.444	0.509	-14.6	105	0.00
3	n-Nitrosodimethylamine	0.572	0.611	-6.8	96	0.00
4 S	2-Fluorophenol	1.105	0.932	15.7	73	0.00
5 S	Phenol-d6	1.492	1.228	17.7	72	0.00
6	bis(2-Chloroethyl)ether	1.209	1.348	-11.5	100	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	89	0.00
8 S	Nitrobenzene-d5	0.302	0.317	-5.0	96	0.00
9	Naphthalene	1.103	1.179	-6.9	98	0.00
10	Hexachlorobutadiene	0.210	0.221	-5.2	94	0.00
11 SURR	2-Methylnaphthalene-d10	0.616	0.635	-3.1	95	0.00
12	2-Methylnaphthalene	0.745	0.809	-8.6	101	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	89	0.00
14 S	2,4,6-Tribromophenol	0.205	0.166	19.0	77	0.00
15 S	2-Fluorobiphenyl	1.640	1.818	-10.9	99	0.00
16	Acenaphthylene	1.867	2.041	-9.3	105	0.00
17	Acenaphthene	1.281	1.380	-7.7	101	0.00
18	Fluorene	1.689	1.783	-5.6	99	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	89	0.00
20	4,6-Dinitro-2-methylphenol	0.049	0.046	6.1	98	-0.01
21	4-Bromophenyl-phenylether	0.239	0.254	-6.3	100	0.00
22	Hexachlorobenzene	0.268	0.293	-9.3	100	0.00
23	Atrazine	0.190	0.179	5.8	93	0.00
24	Pentachlorophenol	0.108	0.091	15.7	88	0.00
25	Phenanthrene	1.155	1.293	-11.9	104	0.00
26	Anthracene	1.023	1.130	-10.5	105	0.00
27 SURR	Fluoranthene-d10	1.069	1.069	0.0	94	0.00
28	Fluoranthene	1.422	1.489	-4.7	99	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	92	0.00
30	Pyrene	1.592	1.708	-7.3	99	0.00
31 S	Terphenyl-d14	0.756	0.872	-15.3	106	0.00
32	Benzo(a)anthracene	1.494	1.596	-6.8	105	0.00
33	Chrysene	1.504	1.719	-14.3	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.679	0.615	9.4	96	0.00
35 I	Perylene-d12	1.000	1.000	0.0	87	0.00
36	Indeno(1,2,3-cd)pyrene	1.653	1.768	-7.0	103	0.00
37	Benzo(b)fluoranthene	1.505	1.616	-7.4	99	0.00
38	Benzo(k)fluoranthene	1.537	1.760	-14.5	103	0.00
39 C	Benzo(a)pyrene	1.268	1.418	-11.8	107	0.00
40	Dibenzo(a,h)anthracene	1.305	1.395	-6.9	103	0.00
41	Benzo(g,h,i)perylene	1.448	1.427	1.5	93	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033341.D
Acq On : 10 Aug 2024 17:54
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081024

Quant Time: Aug 12 01:13:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 01:09:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	88	0.00
2	1,4-Dioxane	0.400	0.458	-14.5	105	0.00
3	n-Nitrosodimethylamine	0.400	0.427	-6.7	96	0.00
4 S	2-Fluorophenol	0.400	0.337	15.8	73	0.00
5 S	Phenol-d6	0.400	0.329	17.8	72	0.00
6	bis(2-Chloroethyl)ether	0.400	0.446	-11.5	100	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	89	0.00
8 S	Nitrobenzene-d5	0.400	0.420	-5.0	96	0.00
9	Naphthalene	0.400	0.427	-6.7	98	0.00
10	Hexachlorobutadiene	0.400	0.419	-4.7	94	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.413	-3.2	95	0.00
12	2-Methylnaphthalene	0.400	0.435	-8.7	101	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	89	0.00
14 S	2,4,6-Tribromophenol	0.400	0.324	19.0	77	0.00
15 S	2-Fluorobiphenyl	0.400	0.443	-10.7	99	0.00
16	Acenaphthylene	0.400	0.437	-9.2	105	0.00
17	Acenaphthene	0.400	0.431	-7.7	101	0.00
18	Fluorene	0.400	0.422	-5.5	99	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	89	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.379	5.3	98	-0.01
21	4-Bromophenyl-phenylether	0.400	0.424	-6.0	100	0.00
22	Hexachlorobenzene	0.400	0.436	-9.0	100	0.00
23	Atrazine	0.400	0.378	5.5	93	0.00
24	Pentachlorophenol	0.400	0.334	16.5	88	0.00
25	Phenanthrene	0.400	0.448	-12.0	104	0.00
26	Anthracene	0.400	0.442	-10.5	105	0.00
27 SURR	Fluoranthene-d10	0.400	0.400	0.0	94	0.00
28	Fluoranthene	0.400	0.419	-4.7	99	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	92	0.00
30	Pyrene	0.400	0.429	-7.2	99	0.00
31 S	Terphenyl-d14	0.400	0.462	-15.5	106	0.00
32	Benzo(a)anthracene	0.400	0.427	-6.7	105	0.00
33	Chrysene	0.400	0.457	-14.2	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.362	9.5	96	0.00
35 I	Perylene-d12	0.400	0.400	0.0	87	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.428	-7.0	103	0.00
37	Benzo(b)fluoranthene	0.400	0.429	-7.2	99	0.00
38	Benzo(k)fluoranthene	0.400	0.458	-14.5	103	0.00
39 C	Benzo(a)pyrene	0.400	0.447	-11.7	107	0.00
40	Dibenzo(a,h)anthracene	0.400	0.428	-7.0	103	0.00
41	Benzo(g,h,i)perylene	0.400	0.394	1.5	93	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: P3609 SAS No.: P3609 SDG No.: P3609

Instrument ID: BNA_N Calibration Date/Time: 08/17/2024 01:48

Lab File ID: BN033447.D Init. Calib. Date(s): 08/10/2024 08/10/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:40 17:17

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.616	0.549		-10.9	20.0
Fluoranthene-d10	1.069	0.978		-8.5	20.0
2-Fluorophenol	1.105	1.084		-1.9	20.0
Phenol-d6	1.492	1.333		-10.7	20.0
Nitrobenzene-d5	0.302	0.325		7.6	20.0
Naphthalene	1.103	1.078		-2.3	20.0
2-Methylnaphthalene	0.745	0.674		-9.5	20.0
2-Fluorobiphenyl	1.640	1.623		-1.0	20.0
Acenaphthylene	1.867	1.706		-8.6	20.0
Acenaphthene	1.281	1.212		-5.4	20.0
Fluorene	1.689	1.541		-8.8	20.0
2,4,6-Tribromophenol	0.205	0.195		-4.9	20.0
Phenanthrene	1.155	1.124		-2.7	20.0
Anthracene	1.023	0.966		-5.6	20.0
Fluoranthene	1.422	1.304		-8.3	20.0
Pyrene	1.592	1.608		1.0	20.0
Terphenyl-d14	0.756	0.793		4.9	20.0
Benzo (a) anthracene	1.494	1.430		-4.3	20.0
Chrysene	1.504	1.459		-3.0	20.0
Benzo (b) fluoranthene	1.505	1.394		-7.4	20.0
Benzo (k) fluoranthene	1.537	1.388		-9.7	20.0
Benzo (a) pyrene	1.268	1.191		-6.1	20.0
Indeno (1,2,3-cd) pyrene	1.653	1.637		-1.0	20.0
Dibenzo (a,h) anthracene	1.305	1.320		1.1	20.0
Benzo (g,h,i) perylene	1.448	1.377		-4.9	20.0
1,4-Dioxane	0.444	0.457		2.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081724\
 Data File : BN033447.D
 Acq On : 17 Aug 2024 01:48
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2024

Supervised By :mohammad ahmed 08/21/2024

Quant Time: Aug 17 02:19:01 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 16 04:44:11 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.566	152	8031	0.400	ng	0.00
7) Naphthalene-d8	10.325	136	21798	0.400	ng	#-0.01
13) Acenaphthene-d10	14.199	164	11010	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	23709	0.400	ng	-0.01
29) Chrysene-d12	21.148	240	20481	0.400	ng	0.00
35) Perylene-d12	23.320	264	22515	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	8709	0.393	ng	0.00
5) Phenol-d6	6.750	99	10702	0.357	ng	0.00
8) Nitrobenzene-d5	8.691	82	7091	0.431	ng	-0.01
11) 2-Methylnaphthalene-d10	11.922	152	11964	0.357	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	2149	0.380	ng	-0.01
15) 2-Fluorobiphenyl	12.820	172	17872	0.396	ng	0.00
27) Fluoranthene-d10	18.984	212	23185	0.366	ng	0.00
31) Terphenyl-d14	19.602	244	16251	0.420	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.197	88	3672	0.412	ng	95
3) n-Nitrosodimethylamine	3.486	42	4103	0.357	ng	87
6) bis(2-Chloroethyl)ether	6.996	93	9240	0.381	ng	99
9) Naphthalene	10.378	128	23509	0.391	ng	100
10) Hexachlorobutadiene	10.677	225	4616	0.402	ng	# 100
12) 2-Methylnaphthalene	11.998	142	14692	0.362	ng	100
16) Acenaphthylene	13.911	152	18784	0.365	ng	100
17) Acenaphthene	14.263	154	13346	0.378	ng	99
18) Fluorene	15.247	166	16966	0.365	ng	100
20) 4,6-Dinitro-2-methylph...	15.332	198	1168	0.406	ng	# 86
21) 4-Bromophenyl-phenylether	16.147	248	5538	0.390	ng	98
22) Hexachlorobenzene	16.259	284	6334	0.398	ng	99
23) Atrazine	16.433	200	4315	0.383	ng	98
24) Pentachlorophenol	16.606	266	2706	0.421	ng	97
25) Phenanthrene	16.991	178	26659	0.389	ng	100
26) Anthracene	17.078	178	22911	0.378	ng	100
28) Fluoranthene	19.017	202	30927	0.367	ng	100
30) Pyrene	19.379	202	32942	0.404	ng	100
32) Benzo(a)anthracene	21.130	228	29295	0.383	ng	98
33) Chrysene	21.184	228	29884	0.388	ng	100
34) Bis(2-ethylhexyl)phtha...	21.103	149	19281	0.554	ng	100
36) Indeno(1,2,3-cd)pyrene	25.481	276	36858	0.396	ng	99
37) Benzo(b)fluoranthene	22.677	252	31385	0.370	ng	97
38) Benzo(k)fluoranthene	22.718	252	31241m	0.361	ng	
39) Benzo(a)pyrene	23.227	252	26808	0.376	ng	96
40) Dibenzo(a,h)anthracene	25.501	278	29720	0.405	ng	96
41) Benzo(g,h,i)perylene	26.136	276	31000	0.380	ng	99

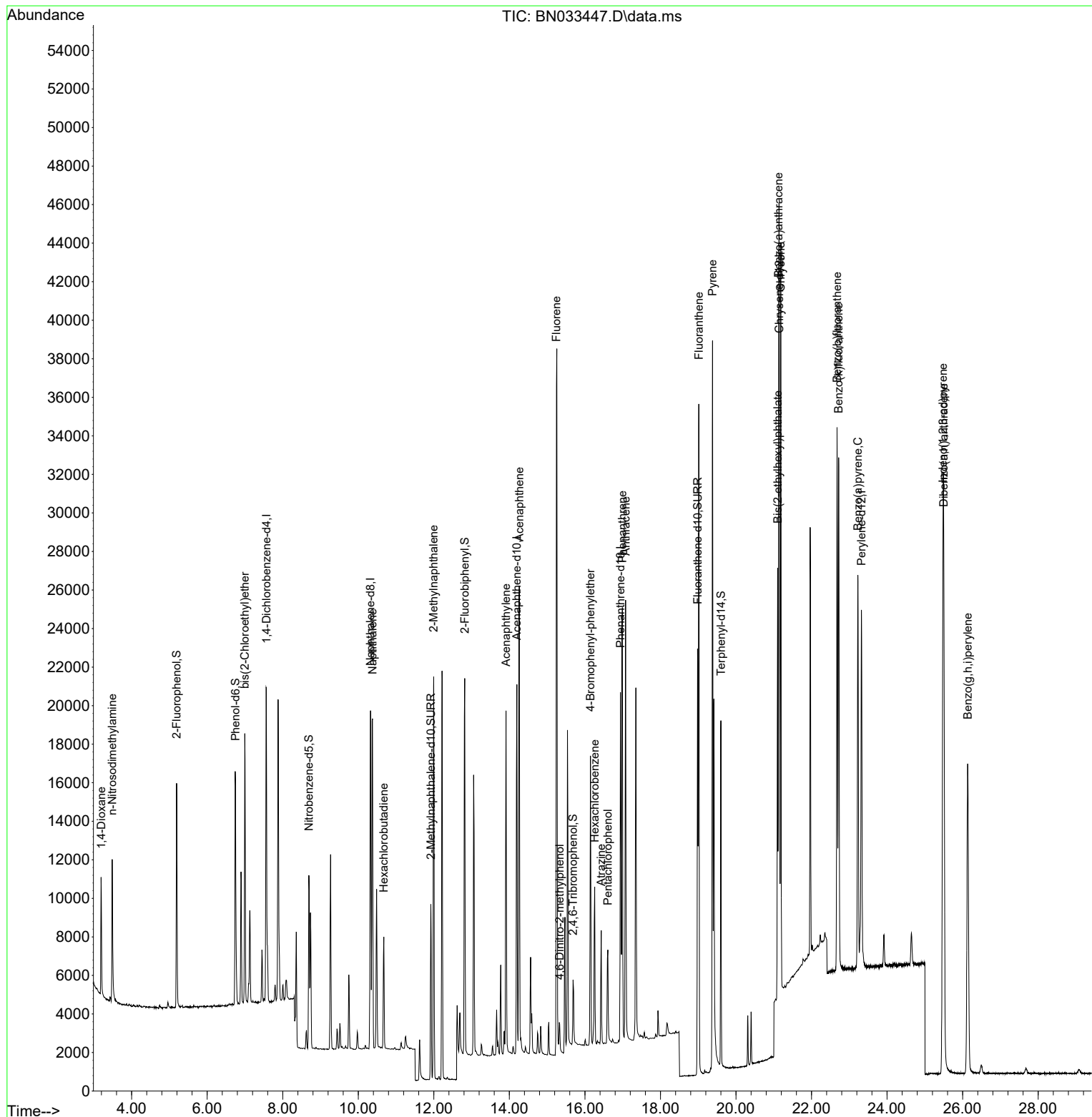
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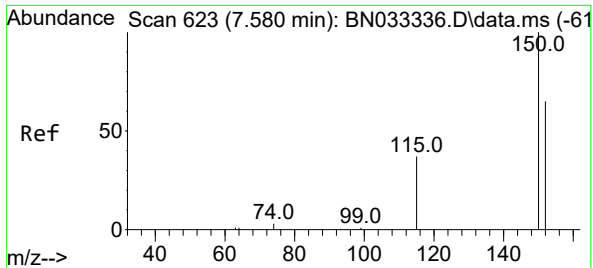
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 17 02:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 2024
Response via : Initial Calibration

Manual Integrations APPROVED

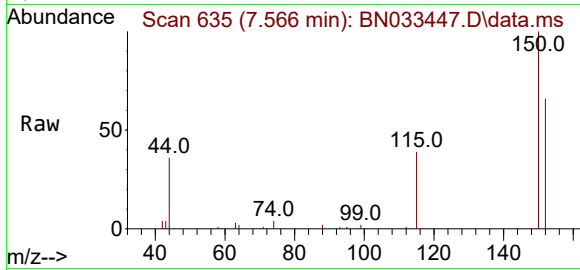
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.566 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

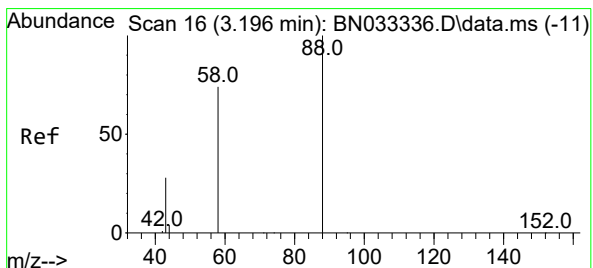
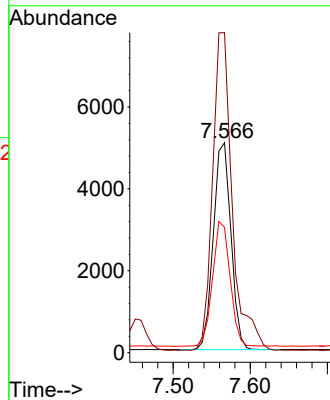
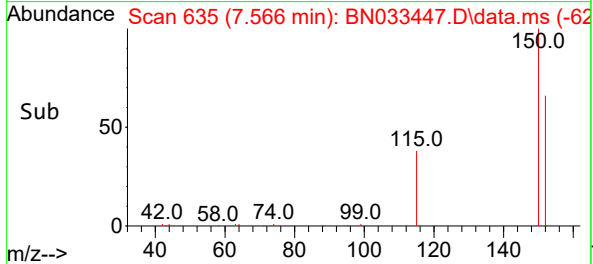
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 803
Ion Ratio Lower Upper
152 100
150 152.5 122.3 183.5
115 59.7 48.8 73.2

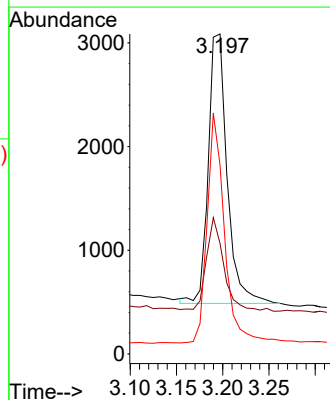
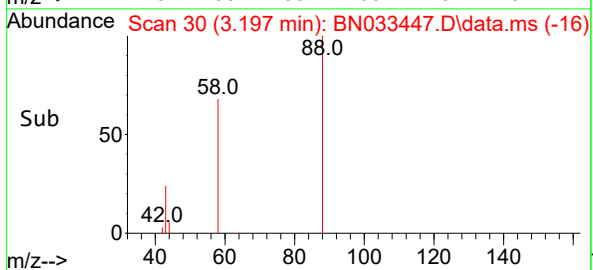
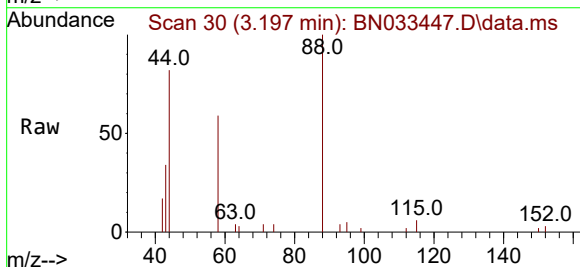
Manual Integrations
APPROVED

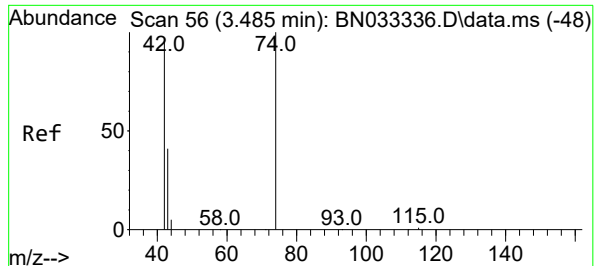
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024



#2
1,4-Dioxane
Concen: 0.412 ng
RT: 3.197 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

Tgt Ion: 88 Resp: 3672
Ion Ratio Lower Upper
88 100
43 32.7 30.6 46.0
58 78.4 64.5 96.7





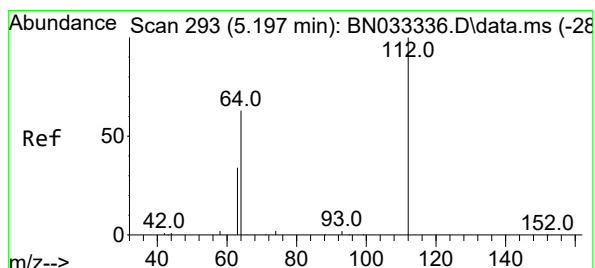
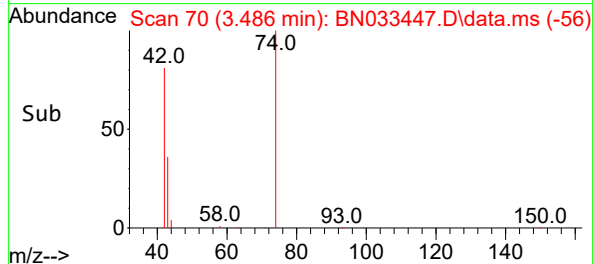
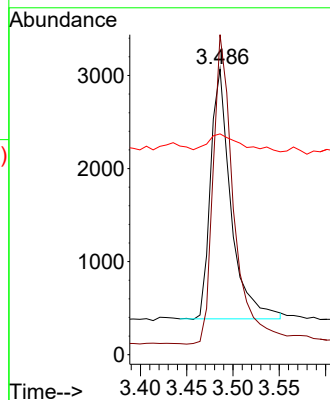
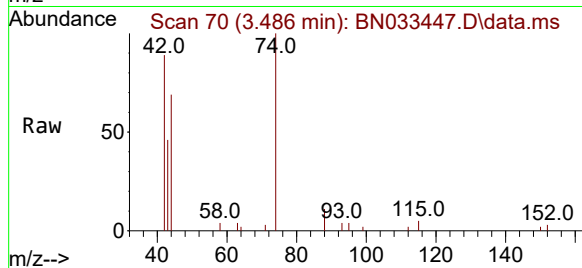
#3
n-Nitrosodimethylamine
Concen: 0.357 ng
RT: 3.486 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 410
Ion Ratio Lower Upper
42 100
74 126.1 89.0 133.6
44 11.4 11.0 16.4

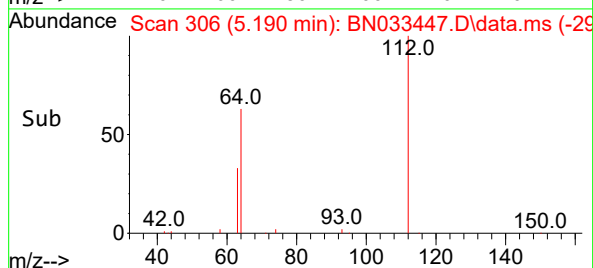
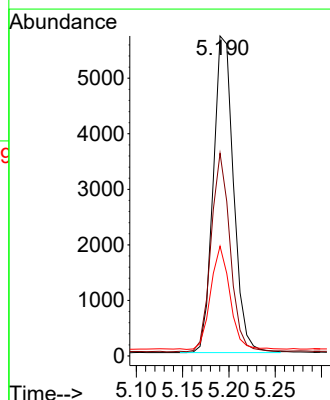
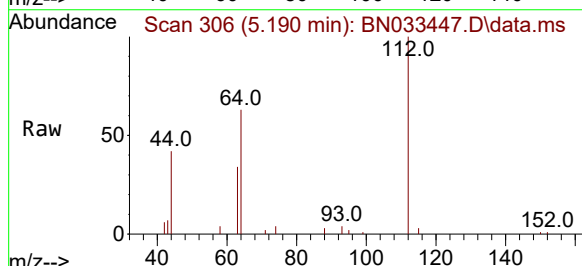
Manual Integrations
APPROVED

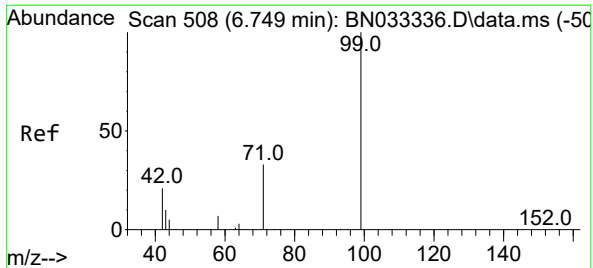
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024



#4
2-Fluorophenol
Concen: 0.393 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.007 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

Tgt Ion:112 Resp: 8709
Ion Ratio Lower Upper
112 100
64 59.1 48.1 72.1
63 30.8 25.4 38.2





#5
Phenol-d6
Concen: 0.357 ng
RT: 6.750 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

Instrument :

BNA_N

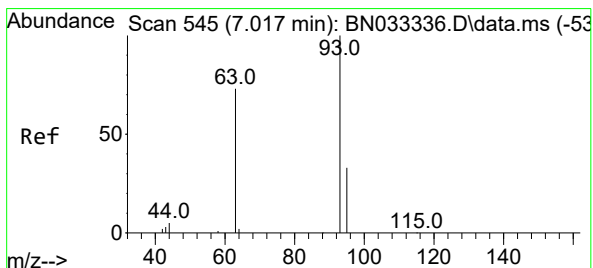
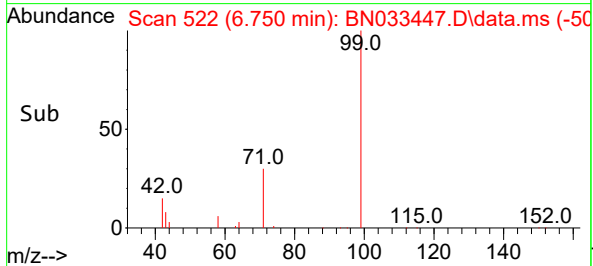
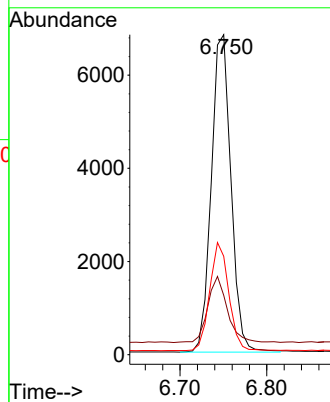
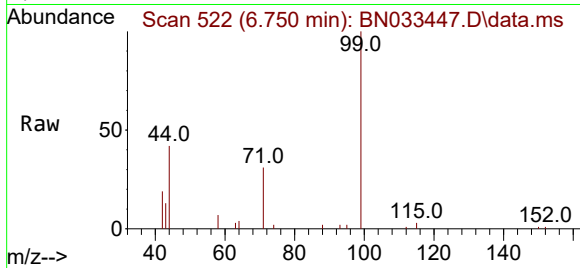
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	99	Resp:	1070
Ion	Ratio	Lower	Upper
99	100		
42	21.0	18.5	27.7
71	33.0	26.2	39.2

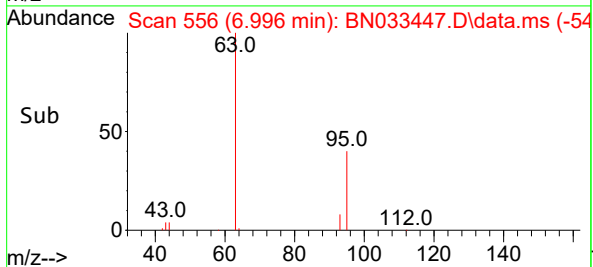
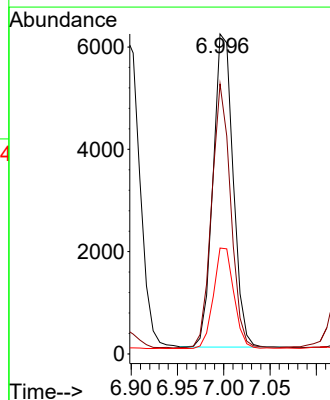
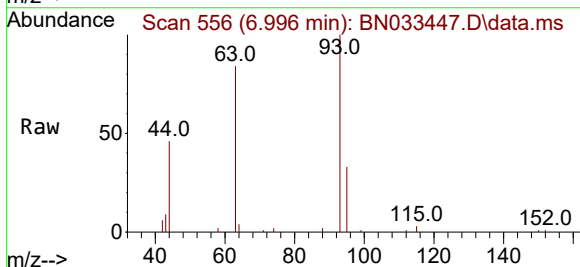
Manual Integrations
APPROVED

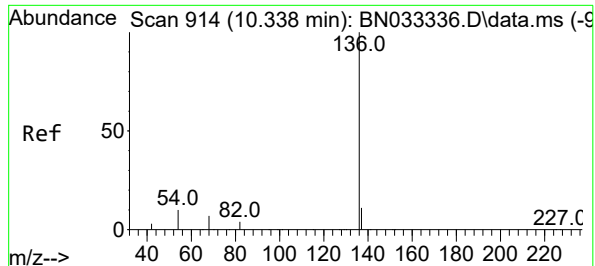
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 6.996 min Scan# 556
Delta R.T. -0.007 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

Tgt Ion:	93	Resp:	9240
Ion	Ratio	Lower	Upper
93	100		
63	80.0	65.2	97.8
95	32.8	26.2	39.4





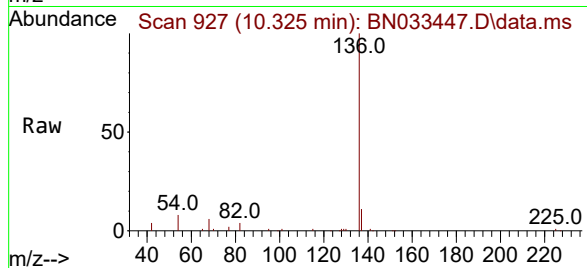
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.325 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

Instrument :

BNA_N

ClientSampleId :

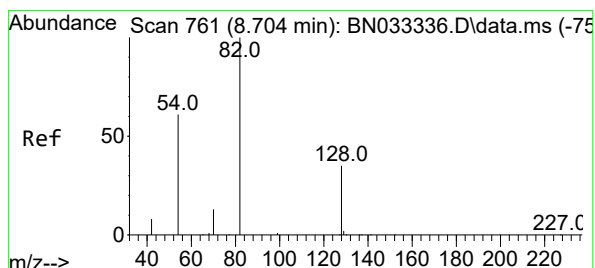
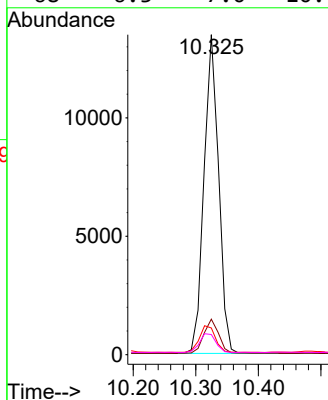
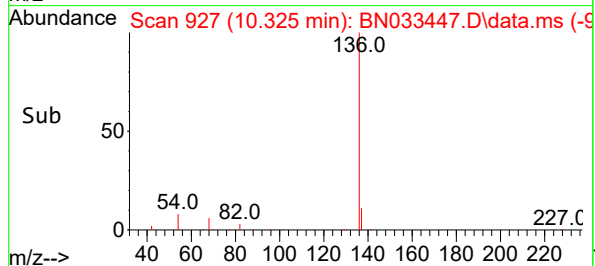
SSTDCCC0.4



Tgt Ion: 136 Resp: 21798
Ion Ratio Lower Upper
136 100
137 11.1 9.1 13.7
54 8.4 9.4 14.0
68 6.3 7.0 10.4#

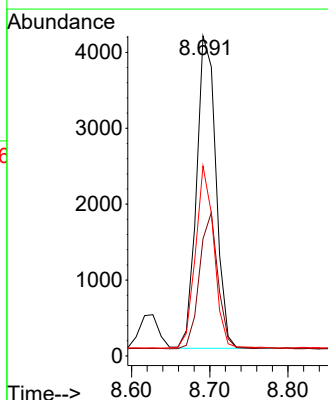
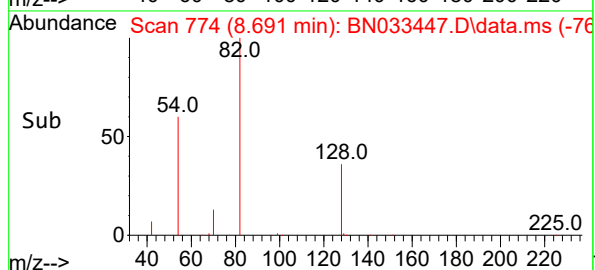
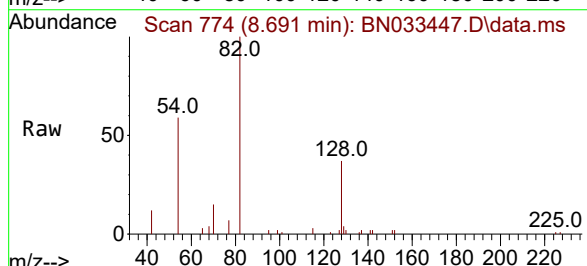
Manual Integrations
APPROVED

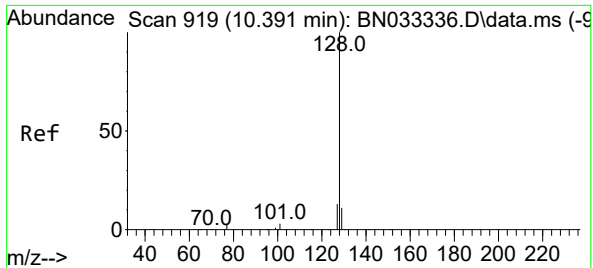
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024



#8
Nitrobenzene-d5
Concen: 0.431 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.011 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

Tgt Ion: 82 Resp: 7091
Ion Ratio Lower Upper
82 100
128 36.6 29.0 43.4
54 59.3 50.2 75.4





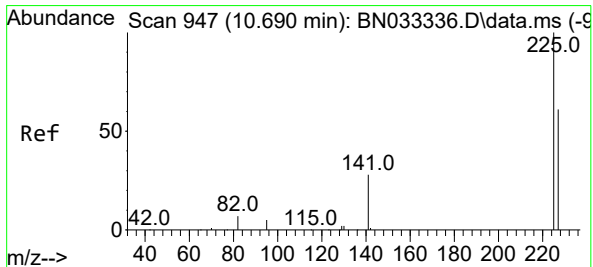
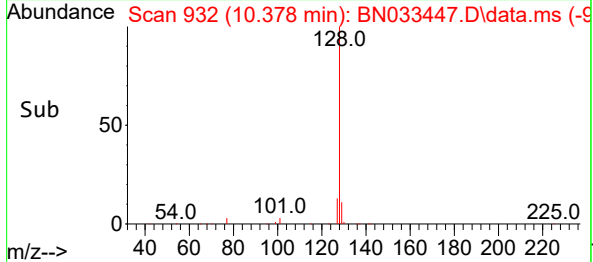
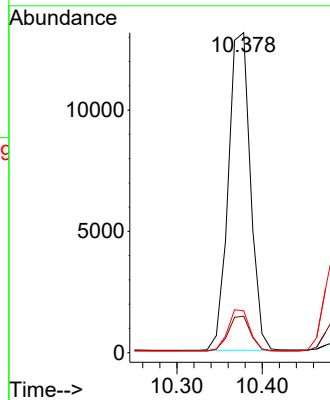
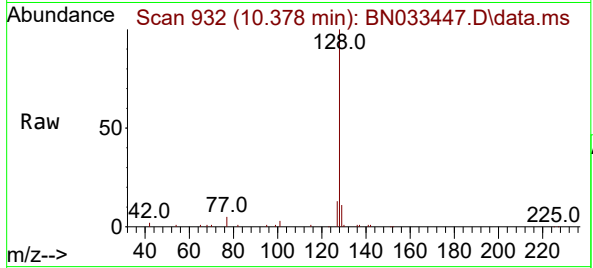
#9
Naphthalene
Concen: 0.391 ng
RT: 10.378 min Scan# 919
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 23509
Ion Ratio Lower Upper
128 100
129 11.4 9.2 13.8
127 13.1 10.6 15.8

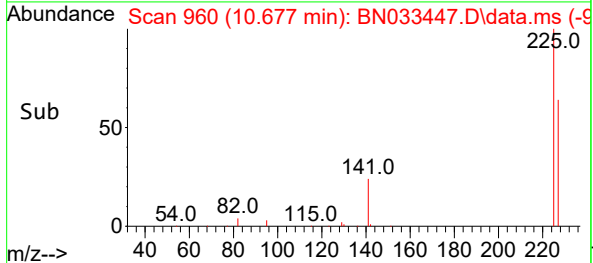
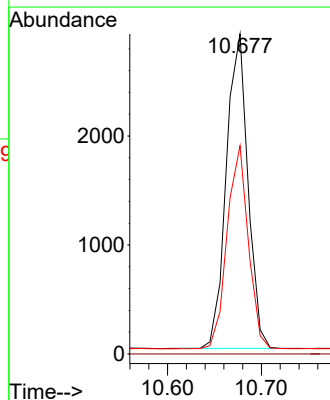
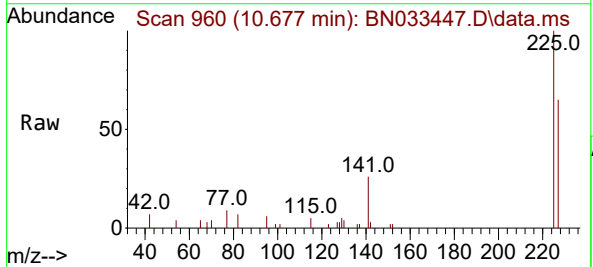
Manual Integrations
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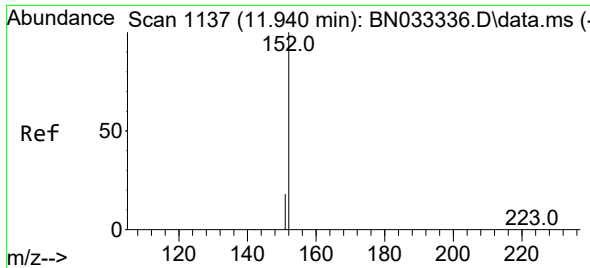
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024



#10
Hexachlorobutadiene
Concen: 0.402 ng
RT: 10.677 min Scan# 960
Delta R.T. -0.011 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

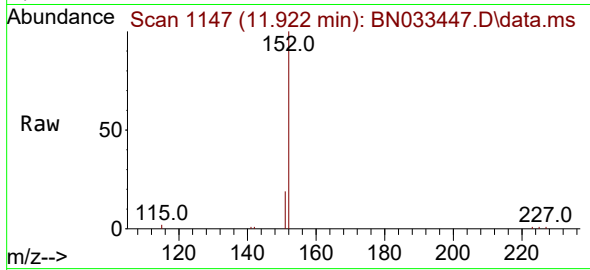
Tgt Ion:225 Resp: 4616
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.3 50.8 76.2





#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 11.922 min Scan# 1147
Delta R.T. -0.008 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

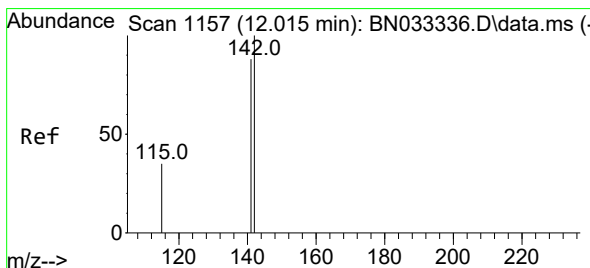
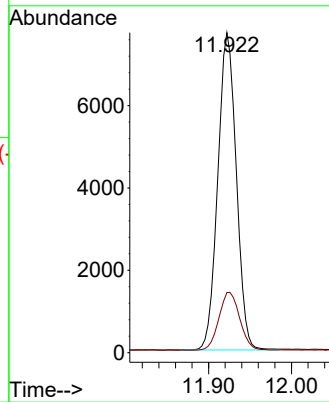
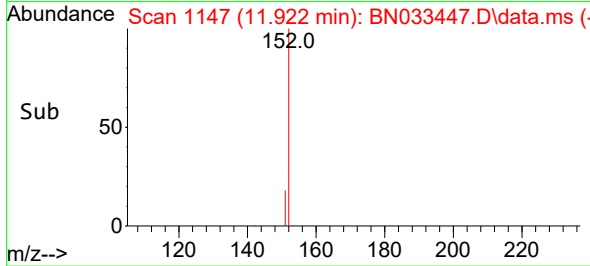
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 11964
Ion Ratio Lower Upper
152 100
151 20.5 16.7 25.1

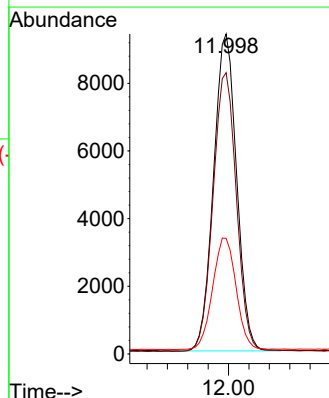
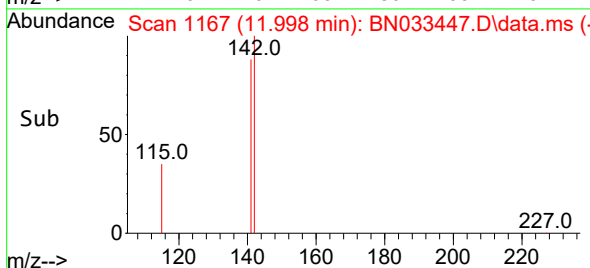
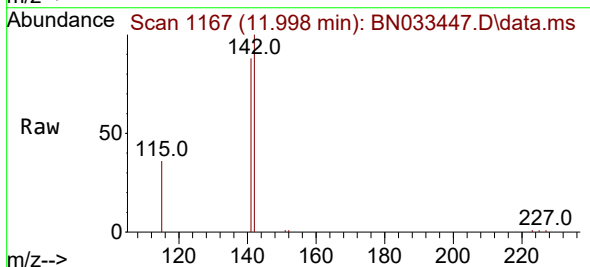
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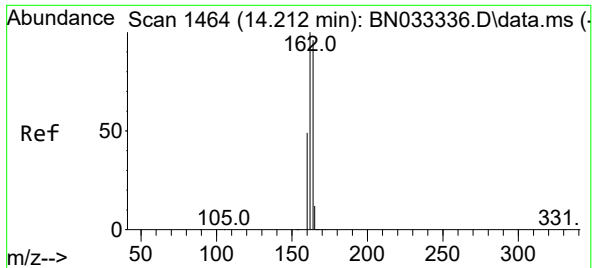
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024



#12
2-Methylnaphthalene
Concen: 0.362 ng
RT: 11.998 min Scan# 1167
Delta R.T. -0.008 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

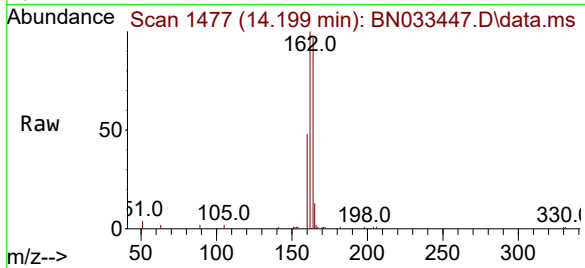
Tgt Ion:142 Resp: 14692
Ion Ratio Lower Upper
142 100
141 87.9 70.2 105.4
115 36.1 29.3 43.9





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.199 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

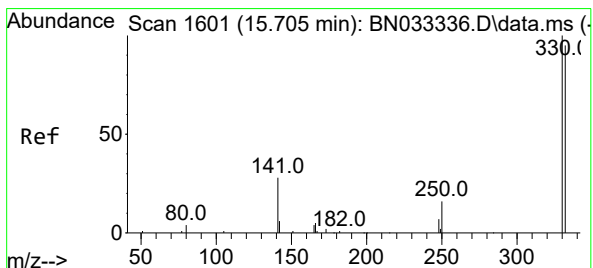
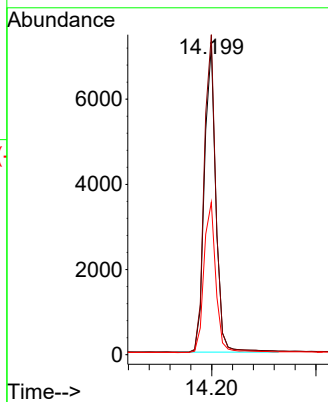
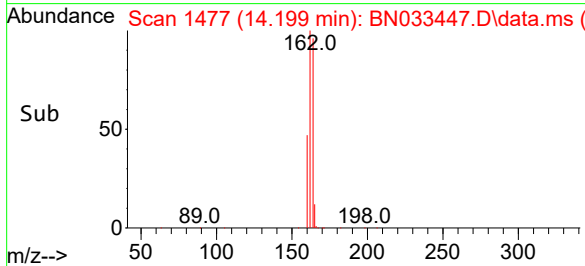
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



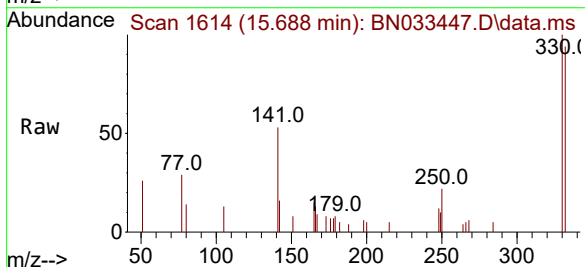
Tgt Ion:164 Resp: 11010
Ion Ratio Lower Upper
164 100
162 103.5 83.1 124.7
160 49.3 41.1 61.7

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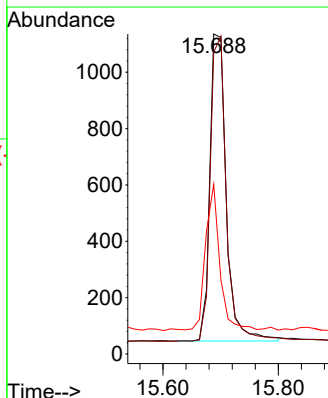
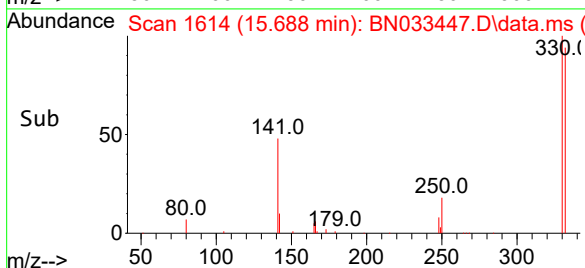
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024

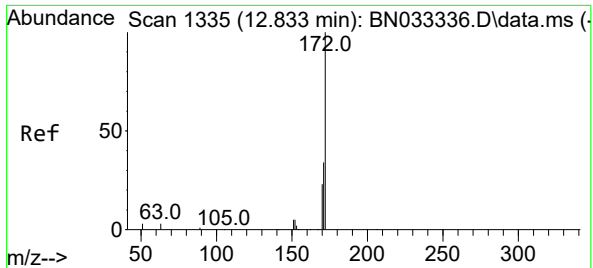


#14
2,4,6-Tribromophenol
Concen: 0.380 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.013 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48



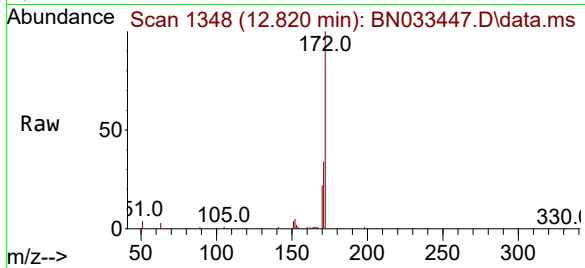
Tgt Ion:330 Resp: 2149
Ion Ratio Lower Upper
330 100
332 96.3 77.1 115.7
141 40.5 33.4 50.0





#15
2-Fluorobiphenyl
Concen: 0.396 ng
RT: 12.820 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

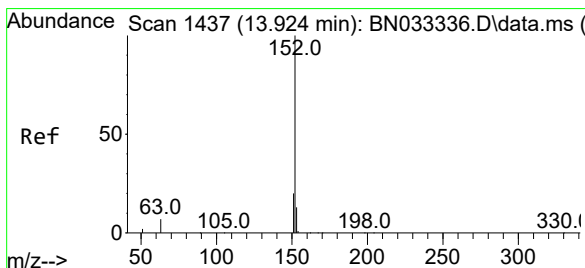
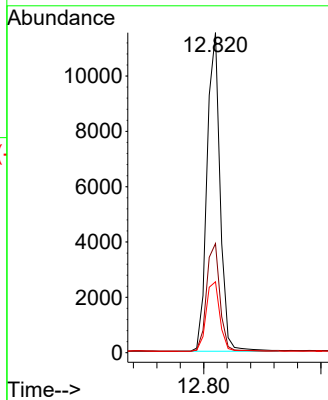
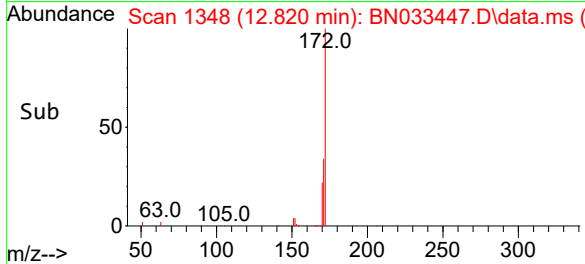
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



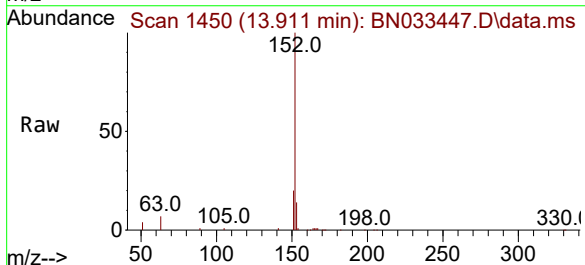
Tgt Ion:172 Resp: 17872
Ion Ratio Lower Upper
172 100
171 34.1 27.8 41.8
170 22.2 18.7 28.1

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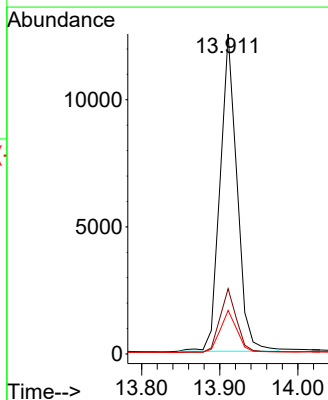
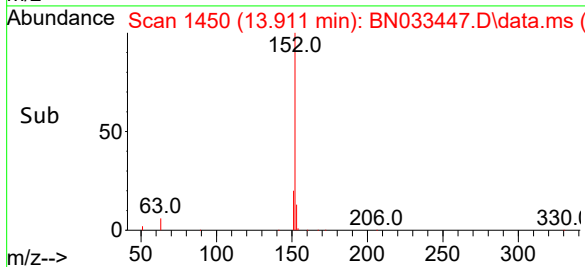
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024

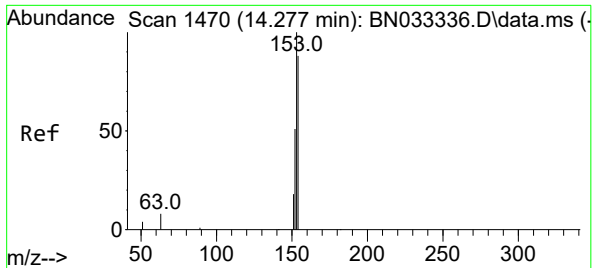


#16
Acenaphthylene
Concen: 0.365 ng
RT: 13.911 min Scan# 1450
Delta R.T. -0.011 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48



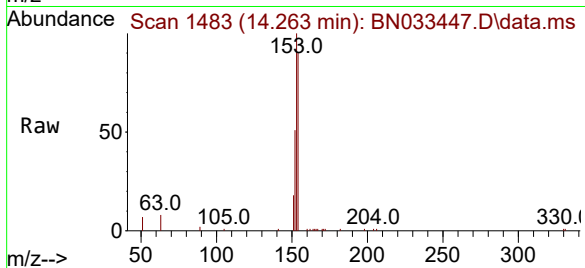
Tgt Ion:152 Resp: 18784
Ion Ratio Lower Upper
152 100
151 19.7 15.7 23.5
153 13.3 10.4 15.6





#17
Acenaphthene
Concen: 0.378 ng
RT: 14.263 min Scan# 1470
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

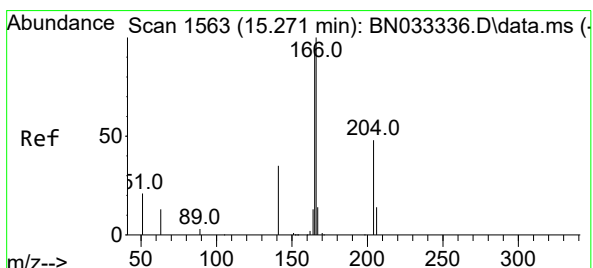
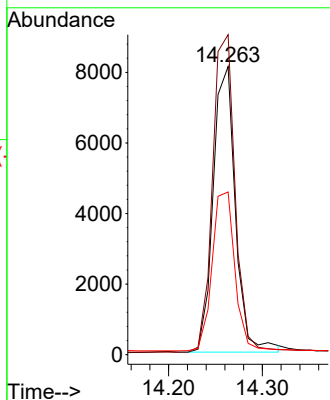
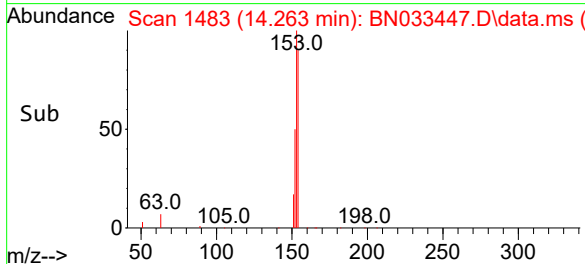
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



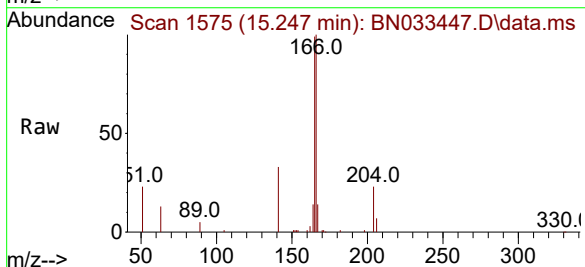
Tgt Ion:154 Resp: 13340
Ion Ratio Lower Upper
154 100
153 112.2 89.7 134.5
152 56.9 47.2 70.8

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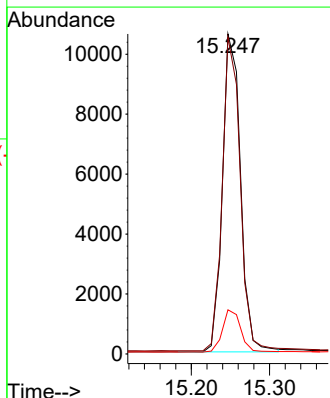
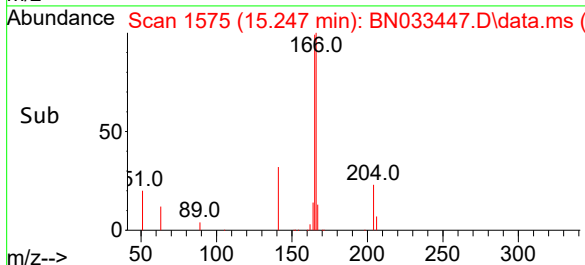
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024

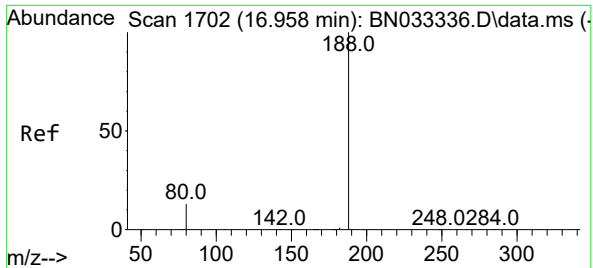


#18
Fluorene
Concen: 0.365 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48



Tgt Ion:166 Resp: 16966
Ion Ratio Lower Upper
166 100
165 97.5 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 11

Delta R.T. -0.013 min

Lab File: BN033447.D

Acq: 17 Aug 2024 01:48

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:188 Resp: 23709

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

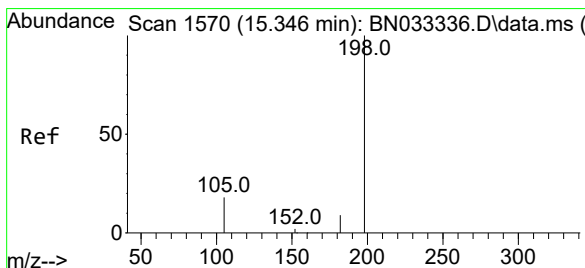
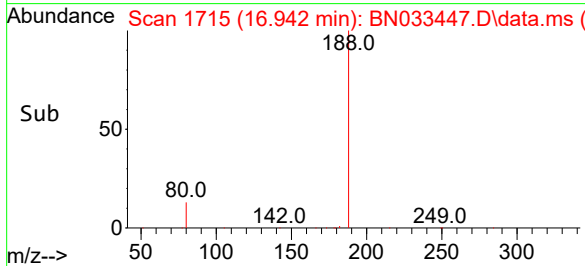
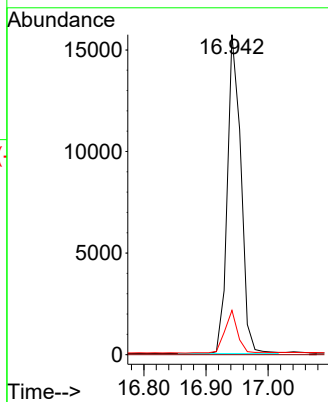
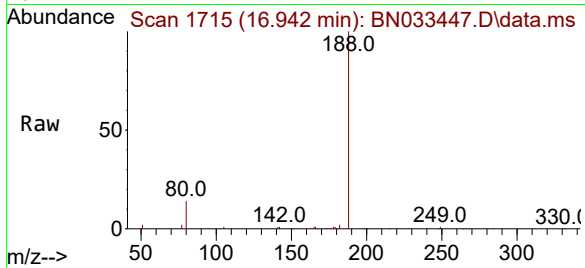
80 13.8 10.7 16.1

Manual Integrations

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Reviewed By :Yogesh Patel 08/17/2024

Supervised By :mohammad ahmed 08/21/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.406 ng

RT: 15.332 min Scan# 1583

Delta R.T. -0.000 min

Lab File: BN033447.D

Acq: 17 Aug 2024 01:48

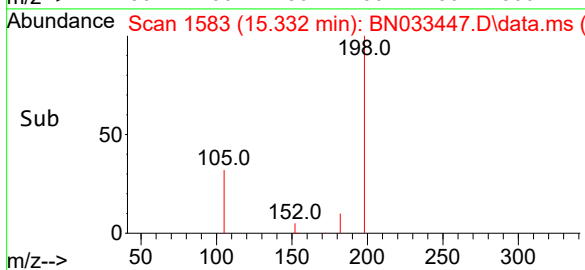
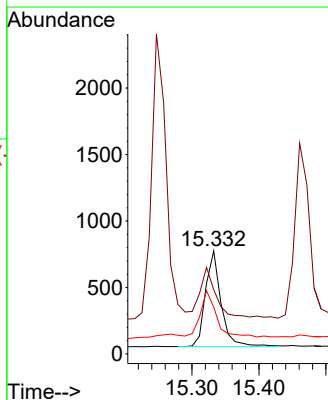
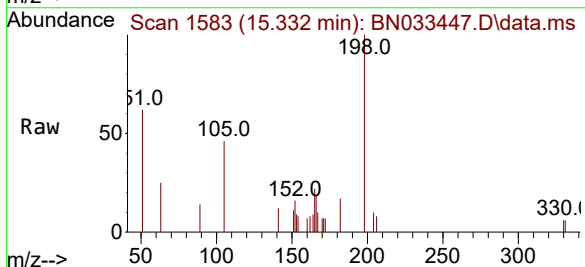
Tgt Ion:198 Resp: 1168

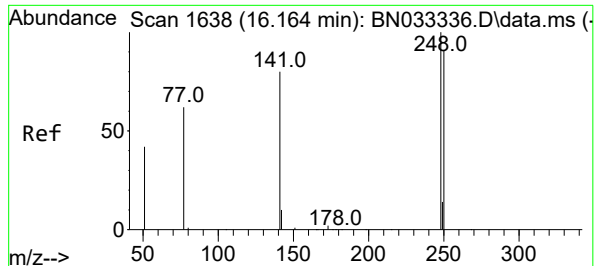
Ion Ratio Lower Upper

198 100

51 62.5 62.8 94.2#

105 45.5 34.1 51.1





#21
4-Bromophenyl-phenylether
Concen: 0.390 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.013 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

Instrument :

BNA_N

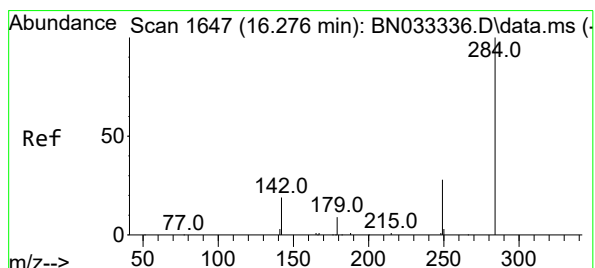
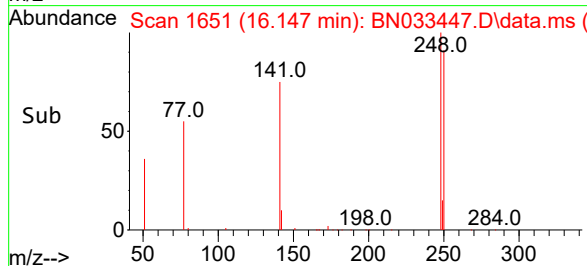
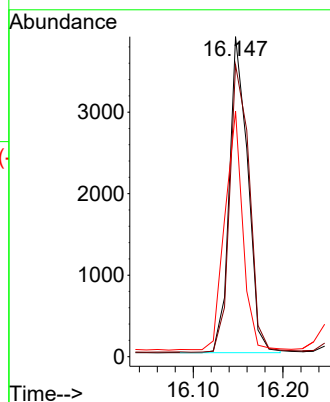
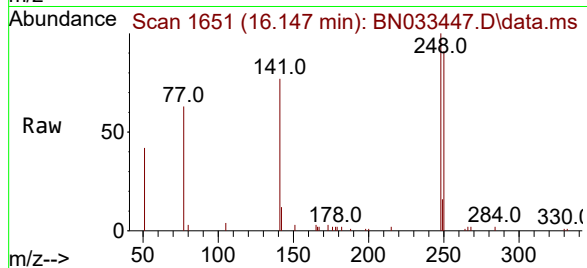
ClientSampleId :

SSTDCCC0.4

Tgt Ion:248 Resp: 5538
Ion Ratio Lower Upper
248 100
250 91.2 73.0 109.4
141 76.7 64.6 96.8

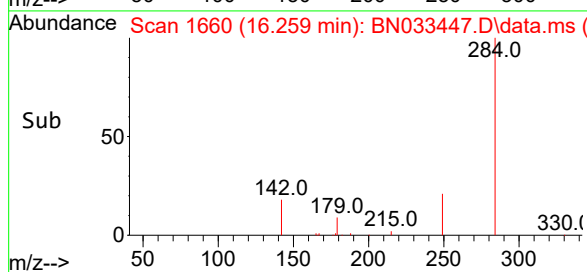
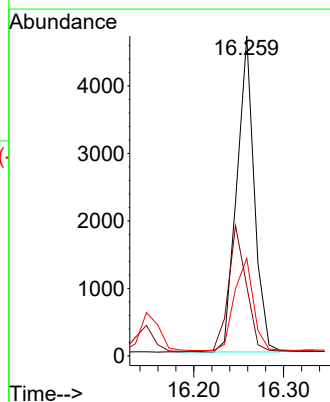
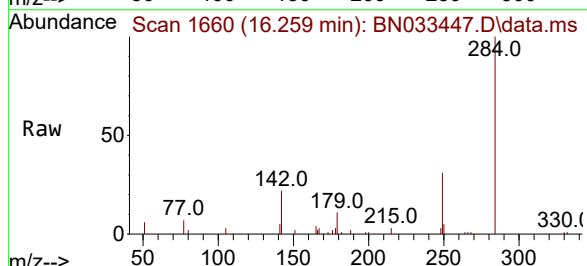
Manual Integrations
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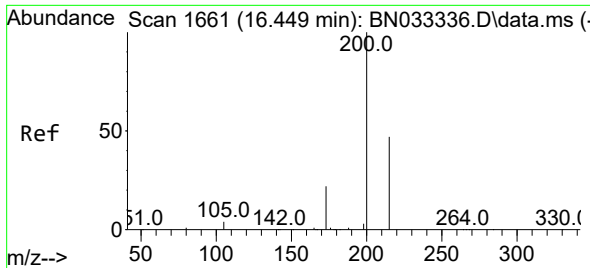
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024



#22
Hexachlorobenzene
Concen: 0.398 ng
RT: 16.259 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

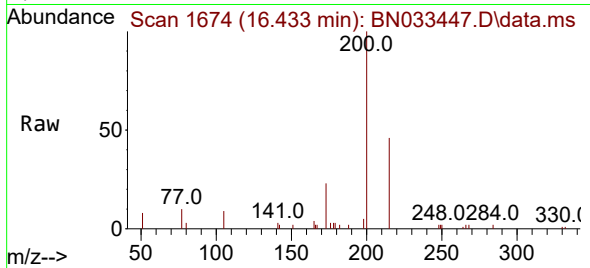
Tgt Ion:284 Resp: 6334
Ion Ratio Lower Upper
284 100
142 40.8 32.2 48.4
249 31.9 25.3 37.9





#23
Atrazine
Concen: 0.383 ng
RT: 16.433 min Scan# 1674
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

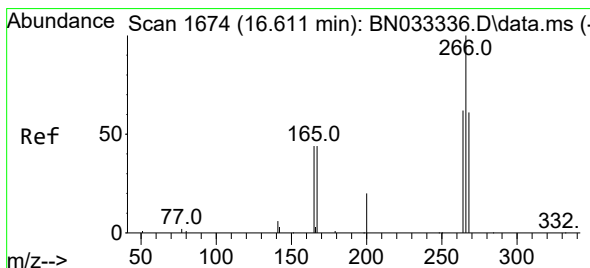
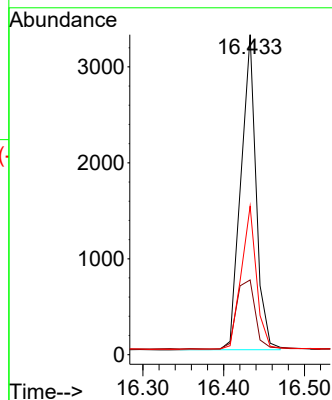
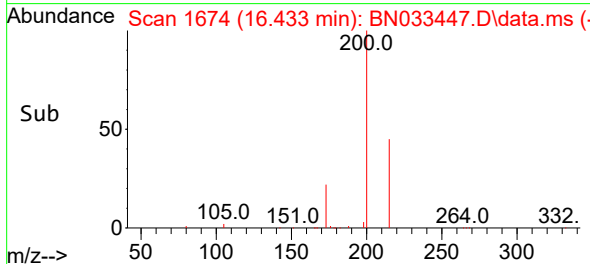
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 431
Ion Ratio Lower Upper
200 100
173 23.4 18.7 28.1
215 46.4 38.6 58.0

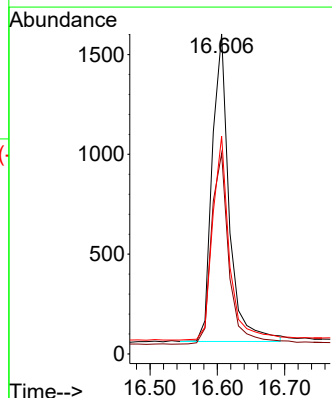
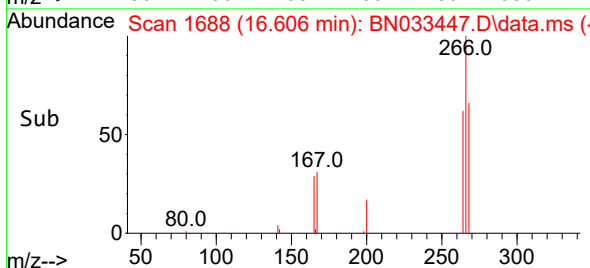
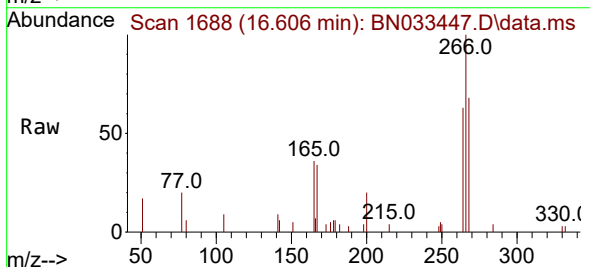
Manual Integrations
APPROVED

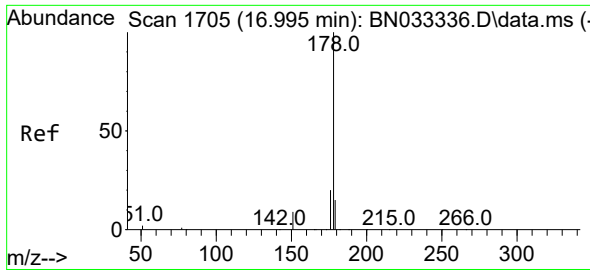
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024



#24
Pentachlorophenol
Concen: 0.421 ng
RT: 16.606 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

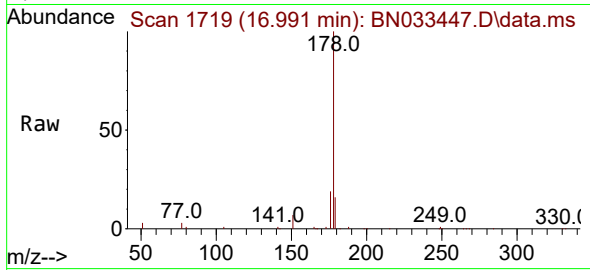
Tgt Ion:266 Resp: 2706
Ion Ratio Lower Upper
266 100
264 64.2 49.2 73.8
268 65.2 51.2 76.8





#25
Phenanthrene
Concen: 0.389 ng
RT: 16.991 min Scan# 1719
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

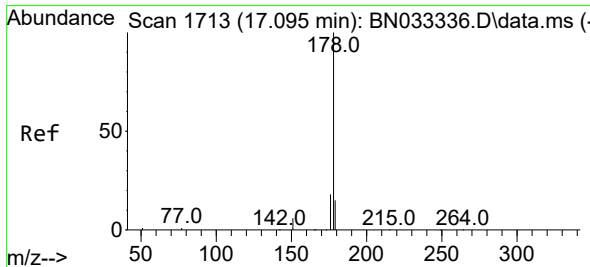
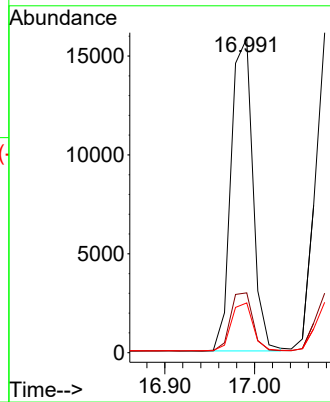
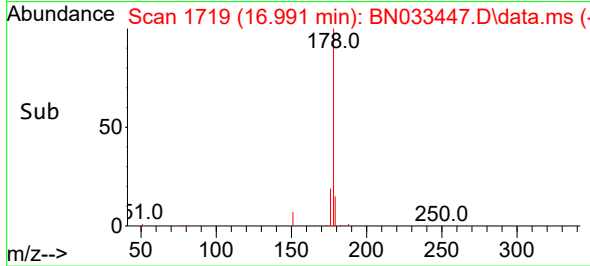
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 26659
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.4 12.2 18.2

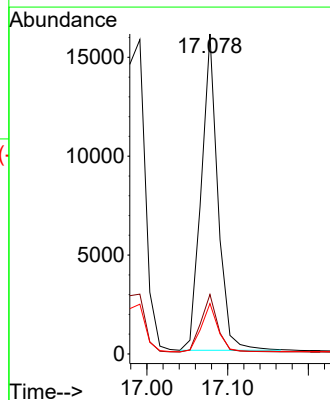
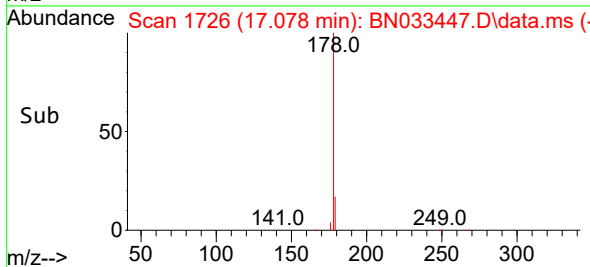
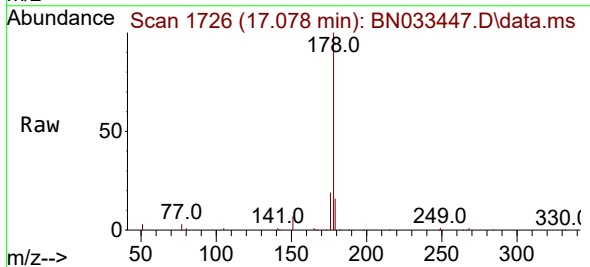
Manual Integrations
APPROVED

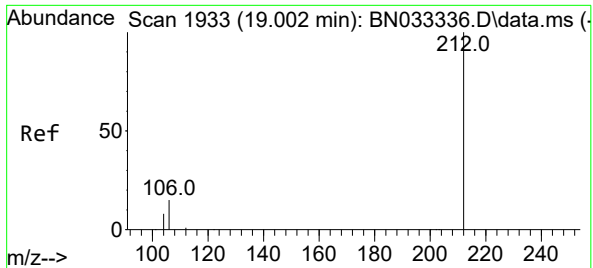
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024



#26
Anthracene
Concen: 0.378 ng
RT: 17.078 min Scan# 1726
Delta R.T. -0.000 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

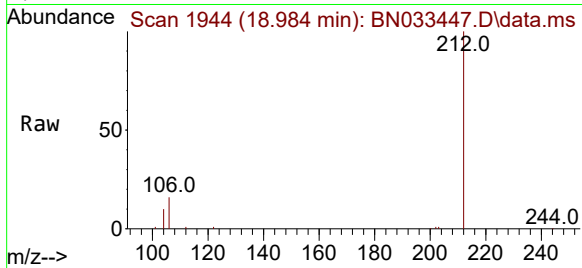
Tgt Ion:178 Resp: 22911
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.5 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 18.984 min Scan# 1951
Delta R.T. -0.009 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

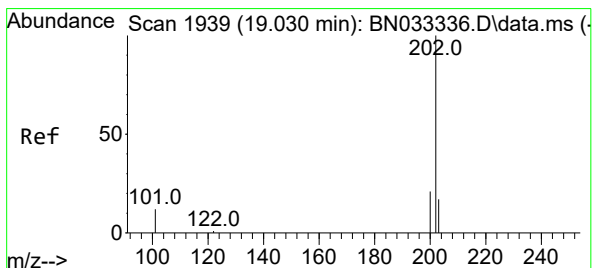
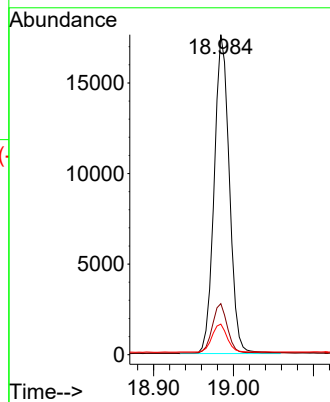
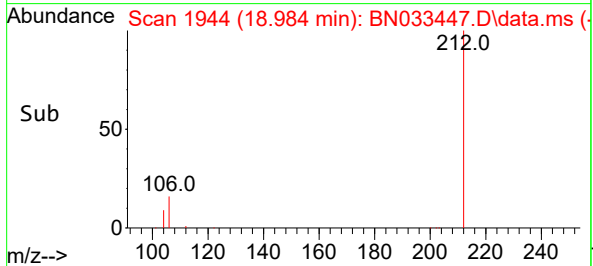
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



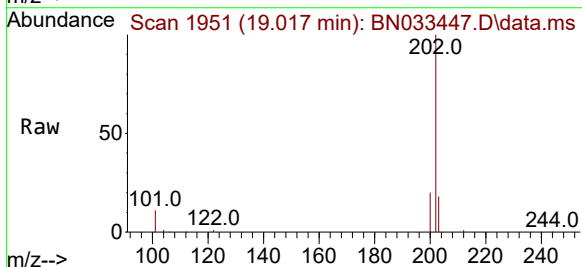
Tgt Ion:212 Resp: 2318
Ion Ratio Lower Upper
212 100
106 15.3 12.8 19.2
104 8.6 7.1 10.7

Manual Integrations
APPROVED

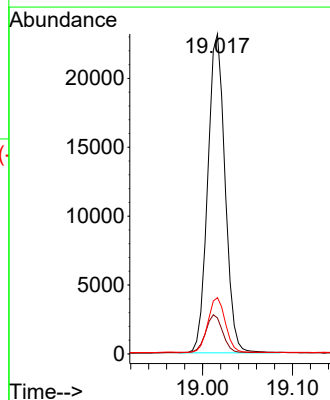
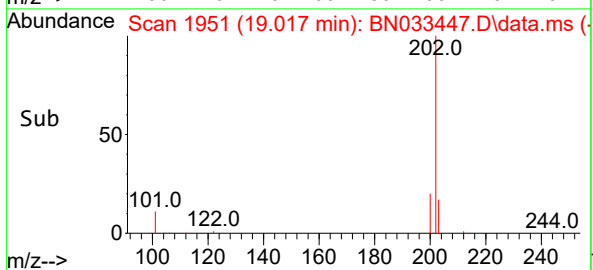
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024

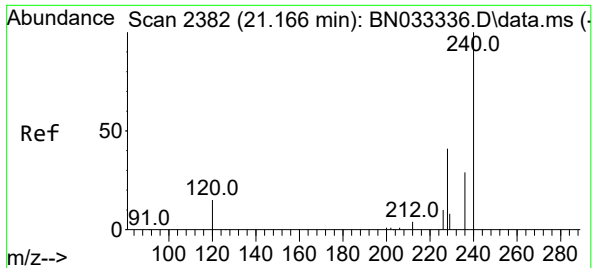


#28
Fluoranthene
Concen: 0.367 ng
RT: 19.017 min Scan# 1951
Delta R.T. -0.005 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48



Tgt Ion:202 Resp: 30927
Ion Ratio Lower Upper
202 100
101 12.3 9.8 14.6
203 17.3 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN033447.D

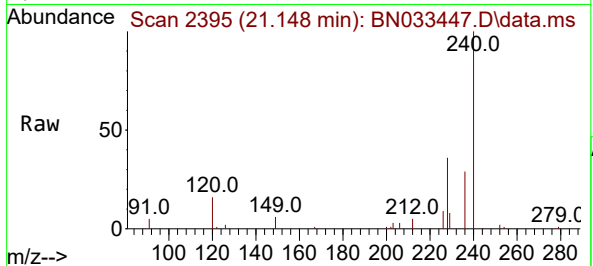
Acq: 17 Aug 2024 01:48

Instrument :

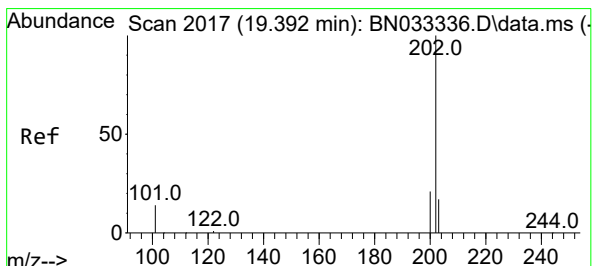
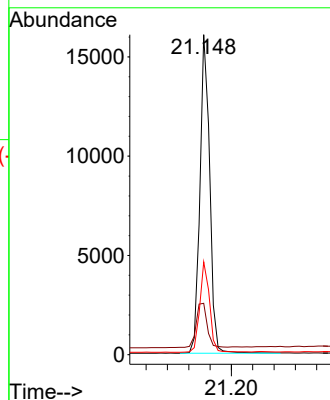
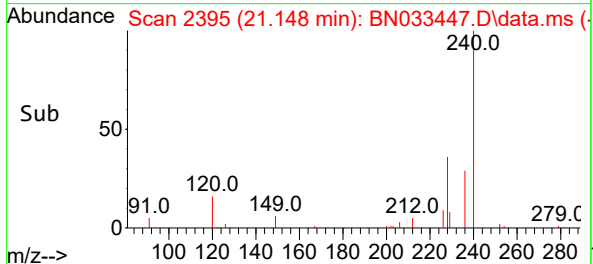
BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:	240	Resp:	2048
Ion Ratio	Lower	Upper	
240	100		
120	16.0	13.0	19.6
236	29.0	23.2	34.8

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024

#30

Pyrene

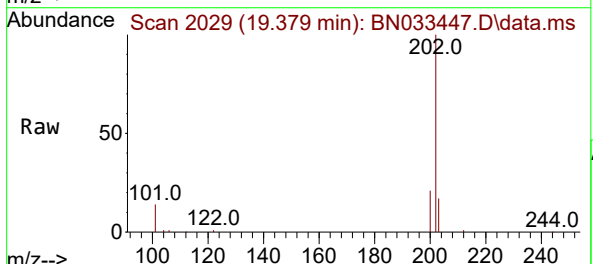
Concen: 0.404 ng

RT: 19.379 min Scan# 2029

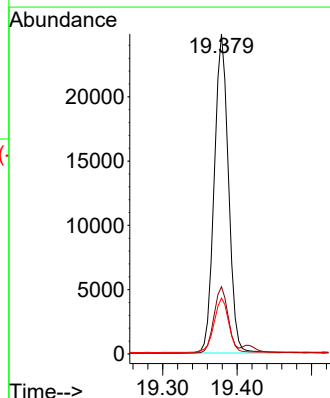
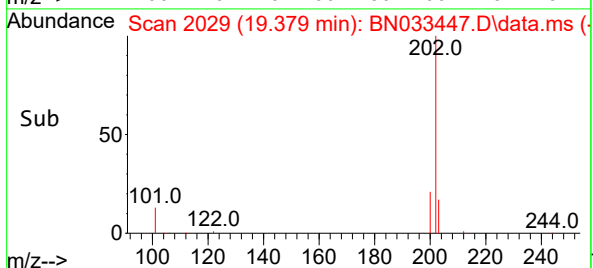
Delta R.T. -0.005 min

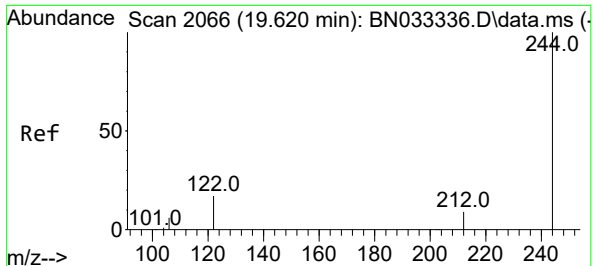
Lab File: BN033447.D

Acq: 17 Aug 2024 01:48



Tgt Ion:	202	Resp:	32942
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4





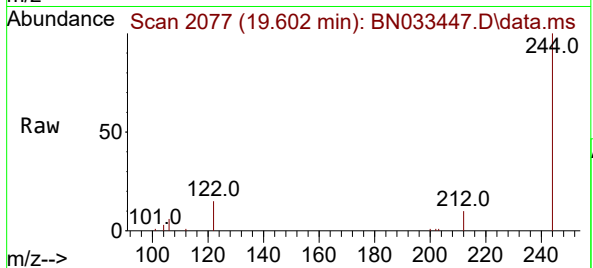
#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.602 min Scan# 2066
Delta R.T. -0.005 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

Instrument :

BNA_N

ClientSampleId :

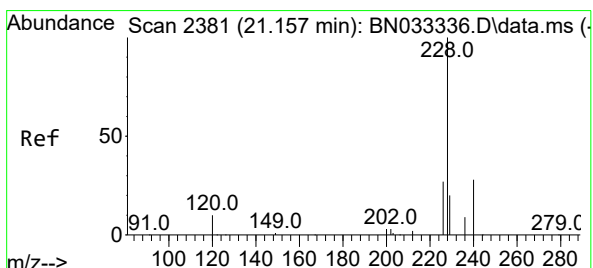
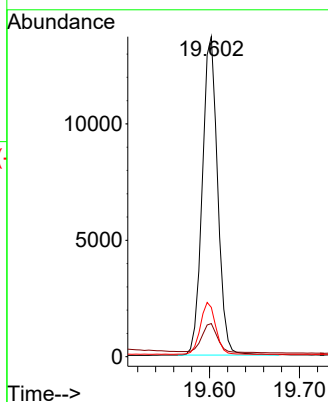
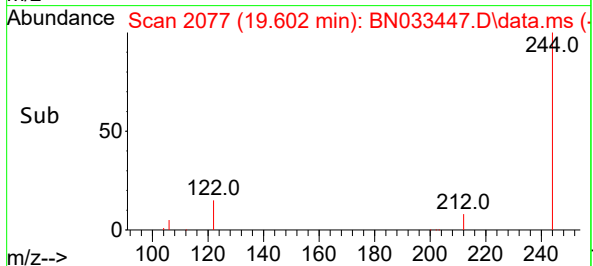
SSTDCCC0.4



Tgt Ion:244 Resp: 1625
Ion Ratio Lower Upper
244 100
212 10.4 7.7 11.5
122 15.4 14.0 21.0

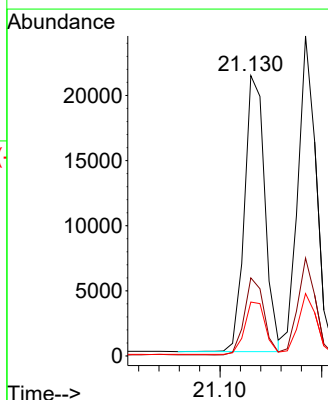
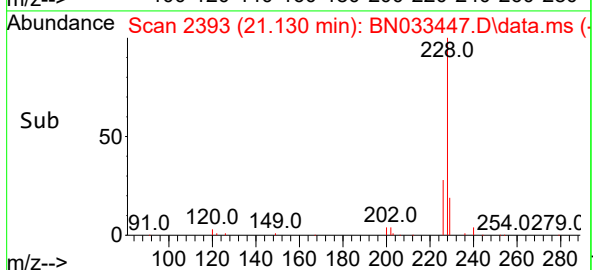
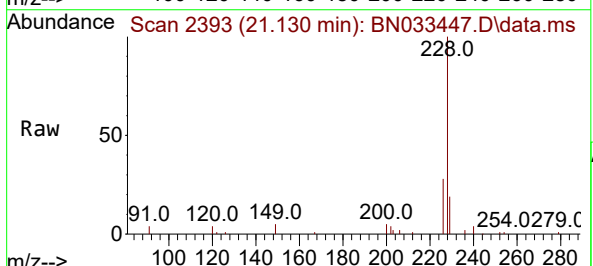
Manual Integrations
APPROVED

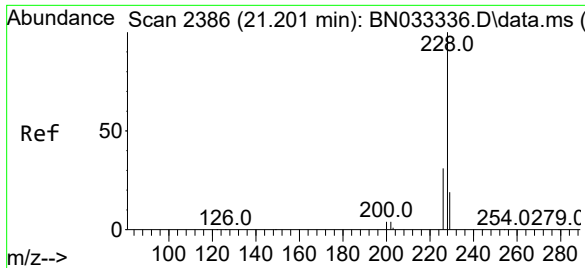
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024



#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.009 min
Lab File: BN033447.D
Acq: 17 Aug 2024 01:48

Tgt Ion:228 Resp: 29295
Ion Ratio Lower Upper
228 100
226 27.9 21.6 32.4
229 19.2 15.9 23.9





#33

Chrysene

Concen: 0.388 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN033447.D

Acq: 17 Aug 2024 01:48

Instrument :

BNA_N

ClientSampleId :

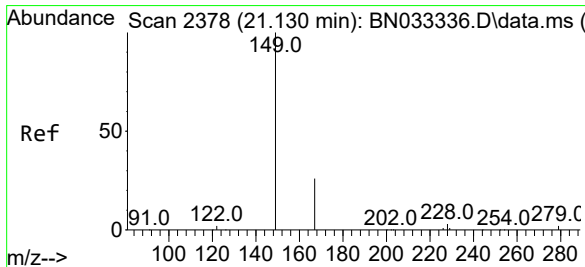
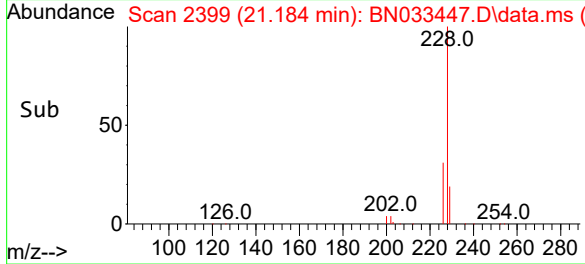
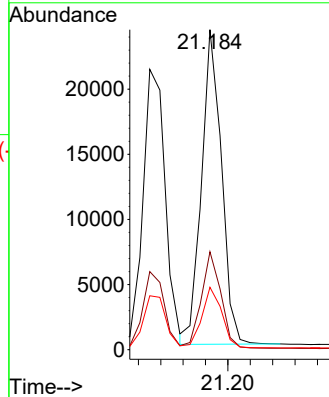
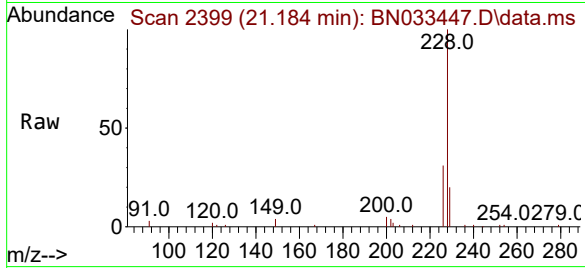
SSTDCCC0.4

Tgt Ion:	228	Resp:	29884
Ion Ratio	Lower	Upper	
228	100		
226	30.6	24.7	37.1
229	19.5	15.4	23.2

Manual Integrations
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Reviewed By :Yogesh Patel 08/17/2024

Supervised By :mohammad ahmed 08/21/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.554 ng

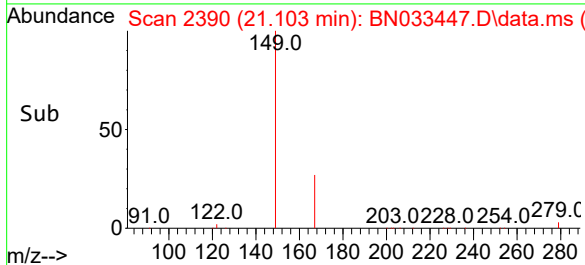
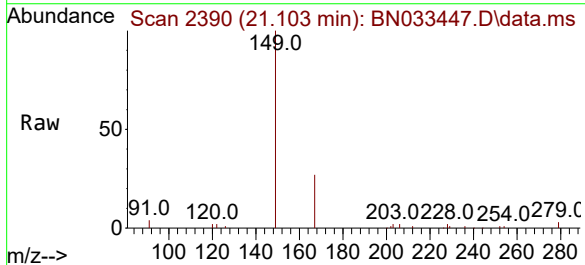
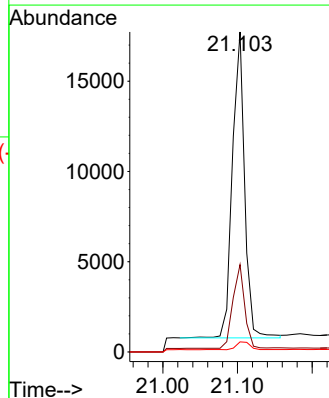
RT: 21.103 min Scan# 2390

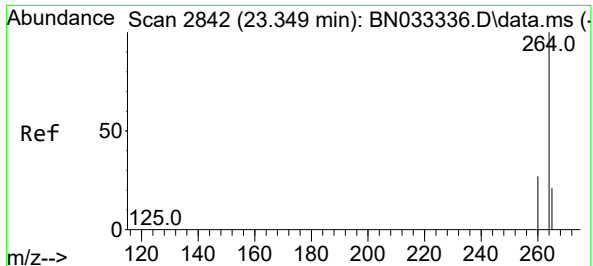
Delta R.T. -0.009 min

Lab File: BN033447.D

Acq: 17 Aug 2024 01:48

Tgt Ion:	149	Resp:	19281
Ion Ratio	Lower	Upper	
149	100		
167	26.2	20.9	31.3
279	2.9	2.2	3.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.320 min Scan# 2842

Delta R.T. -0.012 min

Lab File: BN033447.D

Acq: 17 Aug 2024 01:48

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:264 Resp: 2251

Ion Ratio Lower Upper

264 100

260 26.3 21.6 32.4

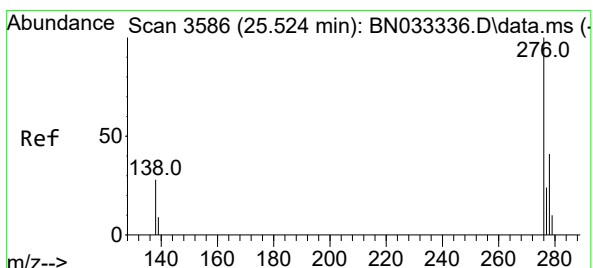
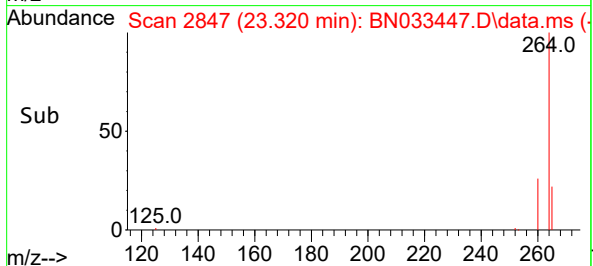
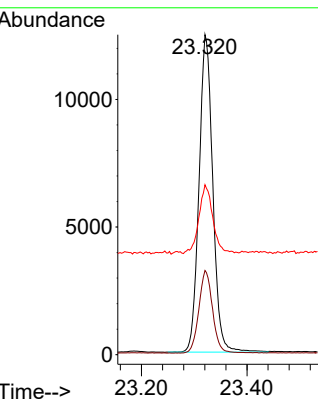
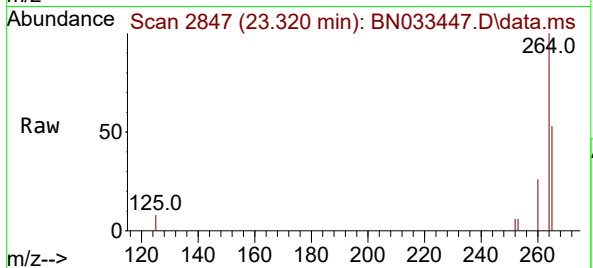
265 53.1 29.3 43.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2024

Supervised By :mohammad ahmed 08/21/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.396 ng

RT: 25.481 min Scan# 3586

Delta R.T. -0.018 min

Lab File: BN033447.D

Acq: 17 Aug 2024 01:48

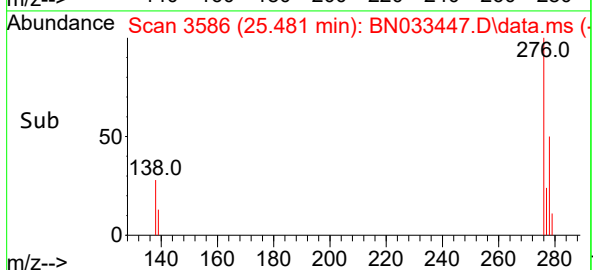
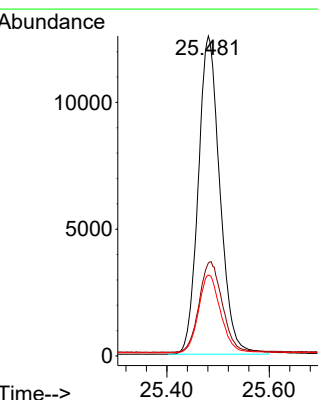
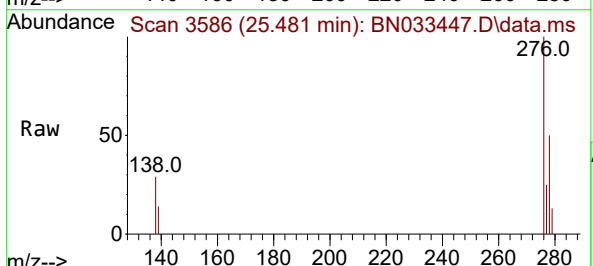
Tgt Ion:276 Resp: 36858

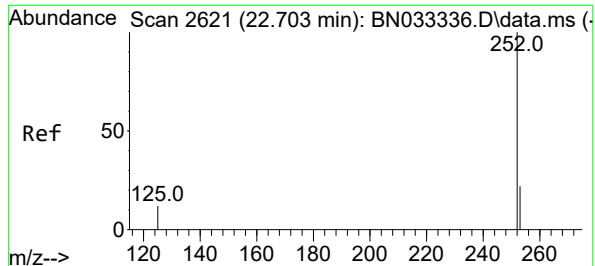
Ion Ratio Lower Upper

276 100

138 30.3 24.9 37.3

277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.370 ng

RT: 22.677 min Scan# 2621

Delta R.T. -0.009 min

Lab File: BN033447.D

Acq: 17 Aug 2024 01:48

Instrument :

BNA_N

ClientSampleId :

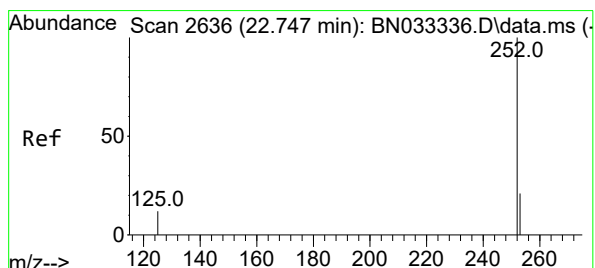
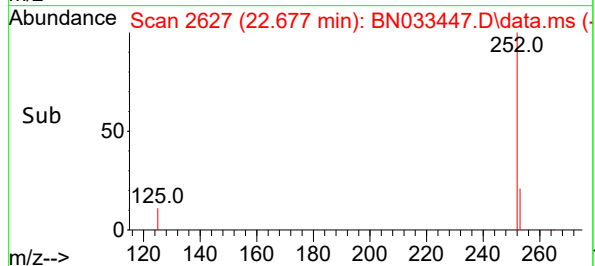
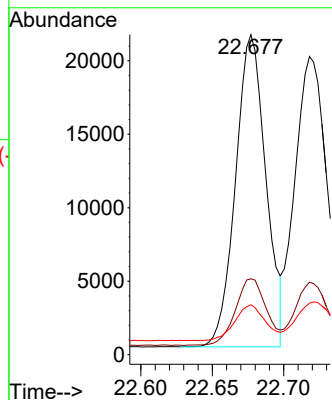
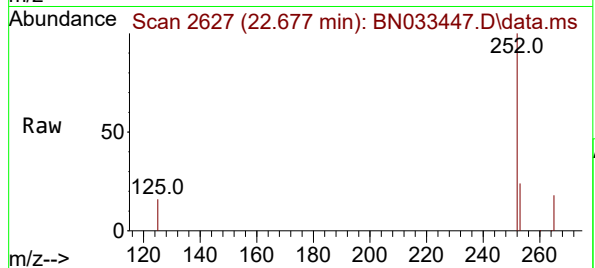
SSTDCCC0.4

Tgt Ion:252	Resp:	3138
Ion Ratio	Lower	Upper
252	100	
253	23.7	18.2 27.2
125	15.6	11.3 16.9

Manual Integrations

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Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/21/2024



#38

Benzo(k)fluoranthene

Concen: 0.361 ng m

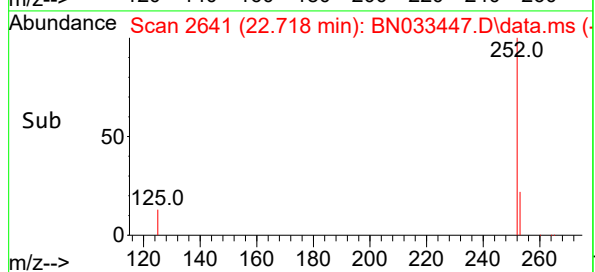
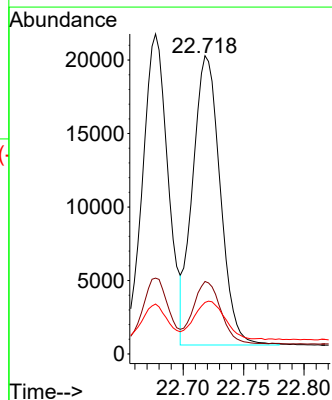
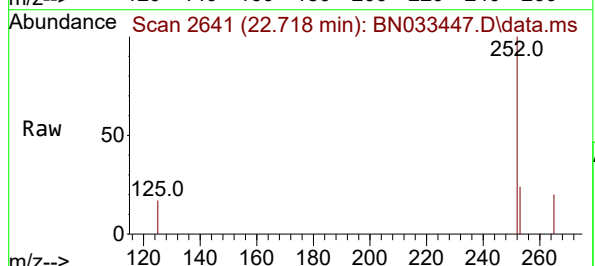
RT: 22.718 min Scan# 2641

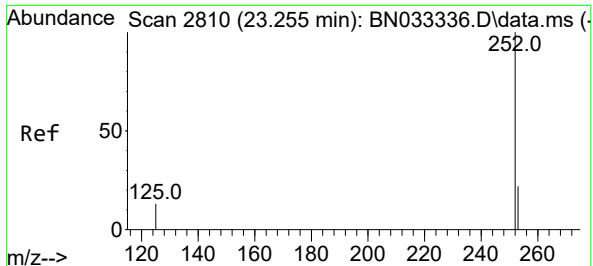
Delta R.T. -0.012 min

Lab File: BN033447.D

Acq: 17 Aug 2024 01:48

Tgt Ion:252	Resp:	31241
Ion Ratio	Lower	Upper
252	100	
253	24.3	17.9 26.9
125	17.3	11.3 16.9#





#39

Benzo(a)pyrene

Concen: 0.376 ng

RT: 23.227 min Scan# 2810

Delta R.T. -0.012 min

Lab File: BN033447.D

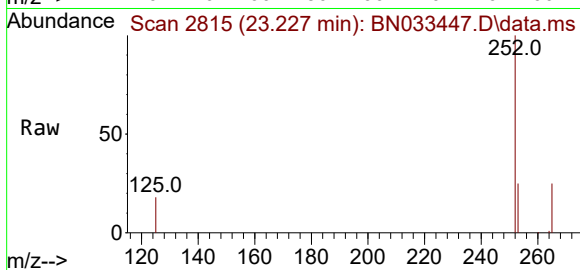
Acq: 17 Aug 2024 01:48

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 26808

Ion Ratio Lower Upper

252 100

253 24.9 18.6 28.0

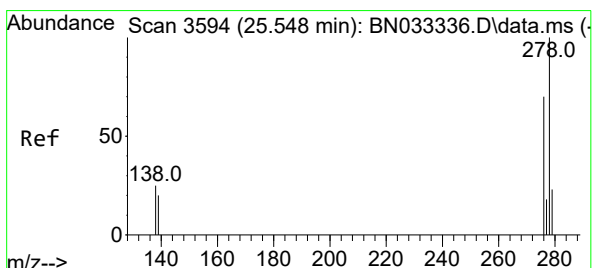
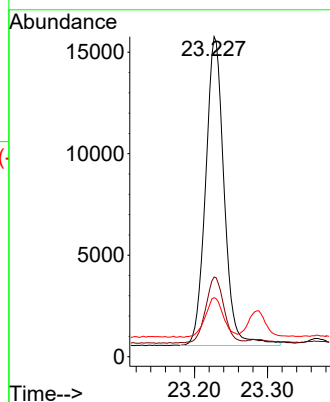
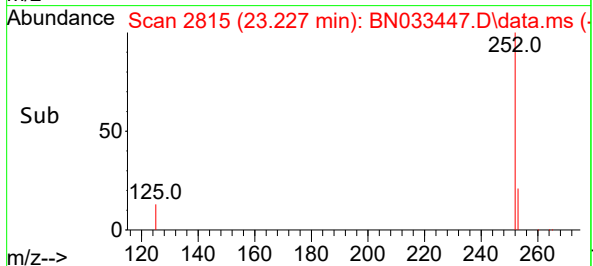
125 18.4 12.6 19.0

Manual Integrations

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Reviewed By :Yogesh Patel 08/17/2024

Supervised By :mohammad ahmed 08/21/2024



#40

Dibenzo(a,h)anthracene

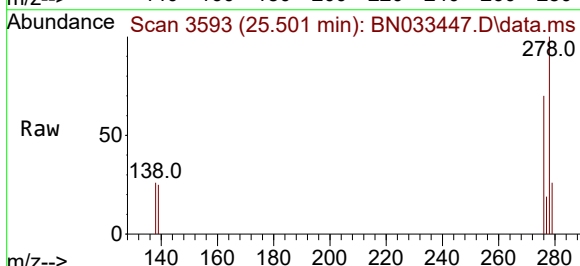
Concen: 0.405 ng

RT: 25.501 min Scan# 3593

Delta R.T. -0.015 min

Lab File: BN033447.D

Acq: 17 Aug 2024 01:48



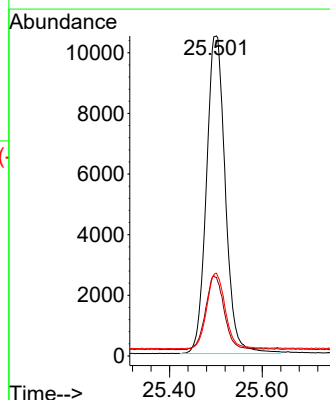
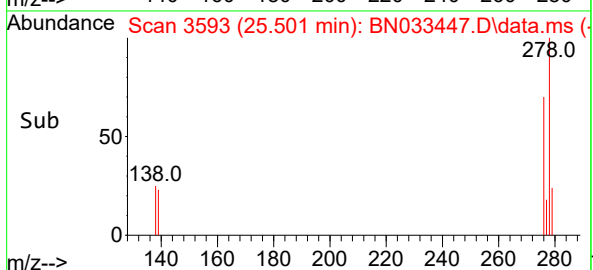
Tgt Ion:278 Resp: 29720

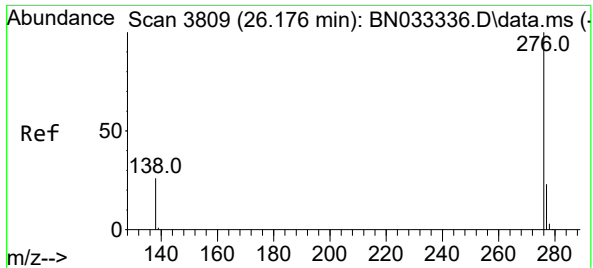
Ion Ratio Lower Upper

278 100

139 24.6 17.0 25.6

279 25.8 20.0 30.0





#41

Benzo(g,h,i)perylene

Concen: 0.380 ng

RT: 26.136 min Scan# 3810

Delta R.T. -0.015 min

Lab File: BN033447.D

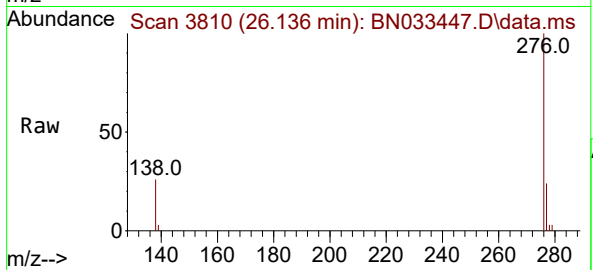
Acq: 17 Aug 2024 01:48

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 31000

Ion Ratio Lower Upper

276 100

277 24.4 19.4 29.2

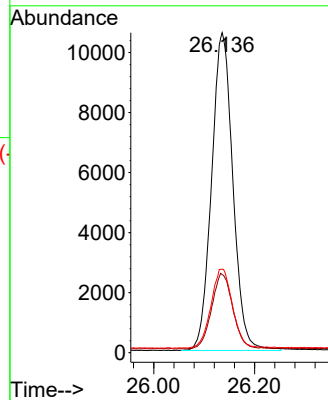
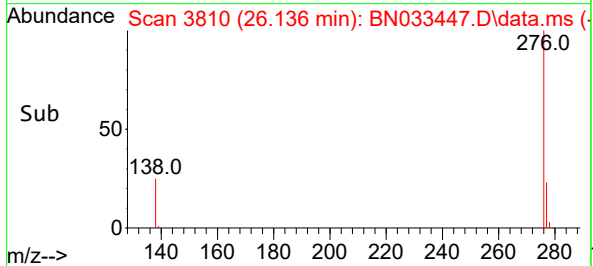
138 26.1 21.6 32.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2024

Supervised By :mohammad ahmed 08/21/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081724\
Data File : BN033447.D
Acq On : 17 Aug 2024 01:48
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 17 02:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 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	151	0.00
2	1,4-Dioxane	0.400	0.412	-3.0	162	0.00
3	n-Nitrosodimethylamine	0.400	0.357	10.8	138	0.00
4 S	2-Fluorophenol	0.400	0.393	1.8	146	0.00
5 S	Phenol-d6	0.400	0.357	10.8	133	0.00
6	bis(2-Chloroethyl)ether	0.400	0.381	4.8	146	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	141	-0.01
8 S	Nitrobenzene-d5	0.400	0.431	-7.7	156	-0.01
9	Naphthalene	0.400	0.391	2.3	142	0.00
10	Hexachlorobutadiene	0.400	0.402	-0.5	143	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.357	10.8	131	0.00
12	2-Methylnaphthalene	0.400	0.362	9.5	133	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	120	0.00
14 S	2,4,6-Tribromophenol	0.400	0.380	5.0	122	-0.01
15 S	2-Fluorobiphenyl	0.400	0.396	1.0	119	0.00
16	Acenaphthylene	0.400	0.365	8.8	118	-0.01
17	Acenaphthene	0.400	0.378	5.5	119	0.00
18	Fluorene	0.400	0.365	8.8	115	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	107	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.406	-1.5	127	0.00
21	4-Bromophenyl-phenylether	0.400	0.390	2.5	110	-0.01
22	Hexachlorobenzene	0.400	0.398	0.5	110	0.00
23	Atrazine	0.400	0.383	4.3	113	0.00
24	Pentachlorophenol	0.400	0.421	-5.2	133	0.00
25	Phenanthrene	0.400	0.389	2.8	109	0.00
26	Anthracene	0.400	0.378	5.5	108	0.00
27 SURR	Fluoranthene-d10	0.400	0.366	8.5	104	0.00
28	Fluoranthene	0.400	0.367	8.3	104	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	106	0.00
30	Pyrene	0.400	0.404	-1.0	109	0.00
31 S	Terphenyl-d14	0.400	0.420	-5.0	112	0.00
32	Benzo(a)anthracene	0.400	0.383	4.3	110	0.00
33	Chrysene	0.400	0.388	3.0	104	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.554	-38.5#	170	0.00
35 I	Perylene-d12	0.400	0.400	0.0	113	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.396	1.0	124	-0.02
37	Benzo(b)fluoranthene	0.400	0.370	7.5	111	0.00
38	Benzo(k)fluoranthene	0.400	0.361	9.8	106	-0.01
39 C	Benzo(a)pyrene	0.400	0.376	6.0	117	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.405	-1.3	127	-0.01
41	Benzo(g,h,i)perylene	0.400	0.380	5.0	117	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081724\
Data File : BN033447.D
Acq On : 17 Aug 2024 01:48
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 17 02:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 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	151#	0.00
2	1,4-Dioxane	0.444	0.457	-2.9	162#	0.00
3	n-Nitrosodimethylamine	0.572	0.511	10.7	138	0.00
4 S	2-Fluorophenol	1.105	1.084	1.9	146	0.00
5 S	Phenol-d6	1.492	1.333	10.7	133	0.00
6	bis(2-Chloroethyl)ether	1.209	1.151	4.8	146	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	141	-0.01
8 S	Nitrobenzene-d5	0.302	0.325	-7.6	156#	-0.01
9	Naphthalene	1.103	1.078	2.3	142	0.00
10	Hexachlorobutadiene	0.210	0.212	-1.0	143	-0.01
11 SURR	2-Methylnaphthalene-d10	0.616	0.549	10.9	131	0.00
12	2-Methylnaphthalene	0.745	0.674	9.5	133	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	120	0.00
14 S	2,4,6-Tribromophenol	0.205	0.195	4.9	122	-0.01
15 S	2-Fluorobiphenyl	1.640	1.623	1.0	119	0.00
16	Acenaphthylene	1.867	1.706	8.6	118	-0.01
17	Acenaphthene	1.281	1.212	5.4	119	0.00
18	Fluorene	1.689	1.541	8.8	115	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	107	-0.01
20	4,6-Dinitro-2-methylphenol	0.049	0.049	0.0	127	0.00
21	4-Bromophenyl-phenylether	0.239	0.234	2.1	110	-0.01
22	Hexachlorobenzene	0.268	0.267	0.4	110	0.00
23	Atrazine	0.190	0.182	4.2	113	0.00
24	Pentachlorophenol	0.108	0.114	-5.6	133	0.00
25	Phenanthrene	1.155	1.124	2.7	109	0.00
26	Anthracene	1.023	0.966	5.6	108	0.00
27 SURR	Fluoranthene-d10	1.069	0.978	8.5	104	0.00
28	Fluoranthene	1.422	1.304	8.3	104	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	106	0.00
30	Pyrene	1.592	1.608	-1.0	109	0.00
31 S	Terphenyl-d14	0.756	0.793	-4.9	112	0.00
32	Benzo(a)anthracene	1.494	1.430	4.3	110	0.00
33	Chrysene	1.504	1.459	3.0	104	0.00
34	Bis(2-ethylhexyl)phthalate	0.679	0.941	-38.6#	170#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	113	-0.01
36	Indeno(1,2,3-cd)pyrene	1.653	1.637	1.0	124	-0.02
37	Benzo(b)fluoranthene	1.505	1.394	7.4	111	0.00
38	Benzo(k)fluoranthene	1.537	1.388	9.7	106	-0.01
39 C	Benzo(a)pyrene	1.268	1.191	6.1	117	-0.01
40	Dibenzo(a,h)anthracene	1.305	1.320	-1.1	127	-0.01
41	Benzo(g,h,i)perylene	1.448	1.377	4.9	117	-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.: P3609 SAS No.: P3609 SDG No.: P3609

Instrument ID: BNA_N Calibration Date/Time: 08/17/2024 12:44

Lab File ID: BN033465.D Init. Calib. Date(s): 08/10/2024 08/10/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:40 17:17

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.616	0.533		-13.5	20.0
Fluoranthene-d10	1.069	0.923		-13.7	20.0
2-Fluorophenol	1.105	1.008		-8.8	20.0
Phenol-d6	1.492	1.237		-17.1	20.0
Nitrobenzene-d5	0.302	0.325		7.6	20.0
Naphthalene	1.103	1.099		-0.4	20.0
2-Methylnaphthalene	0.745	0.657		-11.8	20.0
2-Fluorobiphenyl	1.640	1.710		4.3	20.0
Acenaphthylene	1.867	1.691		-9.4	20.0
Acenaphthene	1.281	1.187		-7.3	20.0
Fluorene	1.689	1.463		-13.4	20.0
2,4,6-Tribromophenol	0.205	0.149		-27.3	20.0
Phenanthrene	1.155	1.150		-0.4	20.0
Anthracene	1.023	0.958		-6.4	20.0
Fluoranthene	1.422	1.238		-12.9	20.0
Pyrene	1.592	1.671		5.0	20.0
Terphenyl-d14	0.756	0.801		6.0	20.0
Benzo(a)anthracene	1.494	1.459		-2.3	20.0
Chrysene	1.504	1.507		0.2	20.0
Benzo(b)fluoranthene	1.505	1.444		-4.1	20.0
Benzo(k)fluoranthene	1.537	1.422		-7.5	20.0
Benzo(a)pyrene	1.268	1.193		-5.9	20.0
Indeno(1,2,3-cd)pyrene	1.653	1.721		4.1	20.0
Dibenzo(a,h)anthracene	1.305	1.387		6.3	20.0
Benzo(g,h,i)perylene	1.448	1.451		0.2	20.0
1,4-Dioxane	0.444	0.453		2.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081824\
 Data File : BN033465.D
 Acq On : 17 Aug 2024 12:44
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024
 Supervised By :mohammad ahmed 08/21/2024

Quant Time: Aug 17 23:29:50 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 16 04:44:11 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	9226	0.400	ng	-0.01
7) Naphthalene-d8	10.325	136	24578	0.400	ng	#-0.01
13) Acenaphthene-d10	14.188	164	11119	0.400	ng	-0.01
19) Phenanthrene-d10	16.942	188	20461	0.400	ng	-0.01
29) Chrysene-d12	21.148	240	15810	0.400	ng	0.00
35) Perylene-d12	23.323	264	17492	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	9297	0.365	ng	0.00
5) Phenol-d6	6.743	99	11409	0.331	ng	0.00
8) Nitrobenzene-d5	8.691	82	7995	0.431	ng	-0.01
11) 2-Methylnaphthalene-d10	11.918	152	13109	0.347	ng	-0.01
14) 2,4,6-Tribromophenol	15.688	330	1658	0.291	ng	-0.01
15) 2-Fluorobiphenyl	12.809	172	19015	0.417	ng	-0.01
27) Fluoranthene-d10	18.984	212	18894	0.345	ng	0.00
31) Terphenyl-d14	19.597	244	12661	0.424	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.190	88	4180	0.408	ng	Qvalue 95
3) n-Nitrosodimethylamine	3.479	42	5002	0.379	ng	# 93
6) bis(2-Chloroethyl)ether	6.996	93	10850	0.389	ng	99
9) Naphthalene	10.368	128	27002	0.398	ng	100
10) Hexachlorobutadiene	10.666	225	5378	0.416	ng	# 100
12) 2-Methylnaphthalene	11.994	142	16143	0.353	ng	100
16) Acenaphthylene	13.911	152	18797	0.362	ng	100
17) Acenaphthene	14.253	154	13203	0.371	ng	98
18) Fluorene	15.247	166	16272	0.347	ng	100
20) 4,6-Dinitro-2-methylph...	15.332	198	651	0.262	ng	# 91
21) 4-Bromophenyl-phenylether	16.147	248	5037	0.411	ng	# 88
22) Hexachlorobenzene	16.259	284	5825	0.424	ng	97
23) Atrazine	16.433	200	3529	0.363	ng	98
24) Pentachlorophenol	16.606	266	2063	0.372	ng	99
25) Phenanthrene	16.979	178	23535	0.398	ng	100
26) Anthracene	17.078	178	19602	0.375	ng	100
28) Fluoranthene	19.012	202	25340	0.348	ng	100
30) Pyrene	19.379	202	26412	0.420	ng	100
32) Benzo(a)anthracene	21.130	228	23072	0.391	ng	99
33) Chrysene	21.184	228	23819	0.401	ng	99
34) Bis(2-ethylhexyl)phtha...	21.103	149	13666	0.509	ng	100
36) Indeno(1,2,3-cd)pyrene	25.478	276	30108	0.417	ng	100
37) Benzo(b)fluoranthene	22.677	252	25263	0.384	ng	95
38) Benzo(k)fluoranthene	22.718	252	24880m	0.370	ng	
39) Benzo(a)pyrene	23.227	252	20866	0.376	ng	# 92
40) Dibenzo(a,h)anthracene	25.498	278	24268	0.425	ng	96
41) Benzo(g,h,i)perylene	26.133	276	25383	0.401	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081824\
Data File : BN033465.D
Acq On : 17 Aug 2024 12:44
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

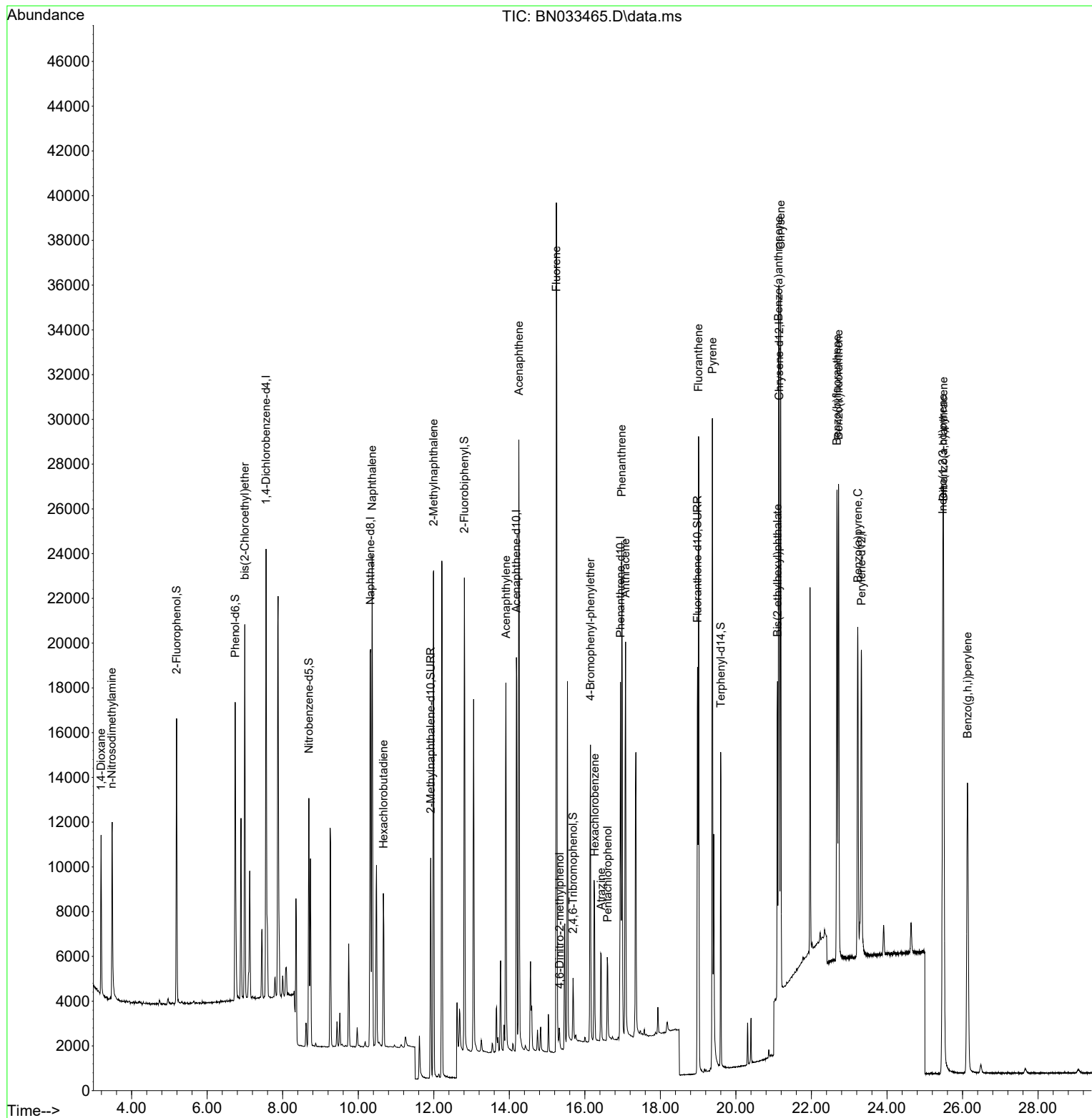
SSTDCCC0.4

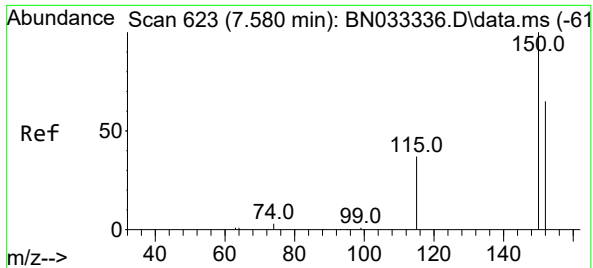
Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

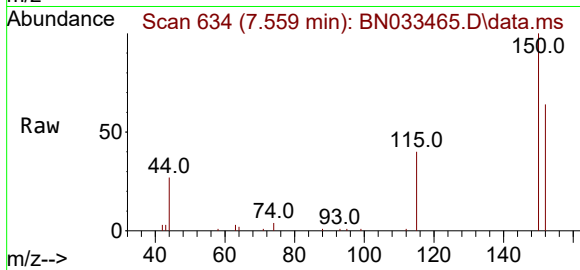
Quant Time: Aug 17 23:29:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

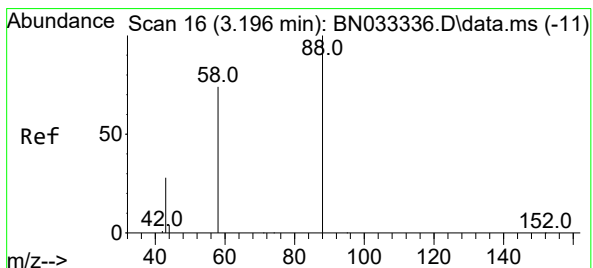
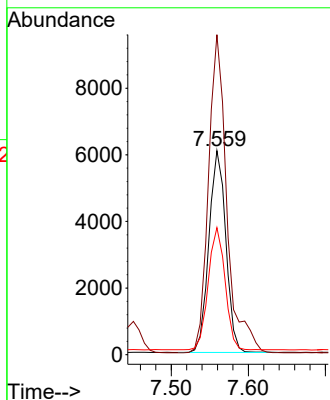
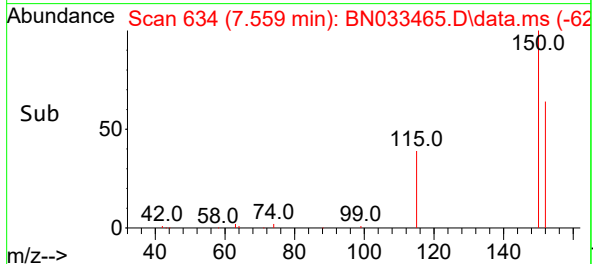
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 9220
Ion Ratio Lower Upper
152 100
150 156.9 122.3 183.5
115 62.3 48.8 73.2

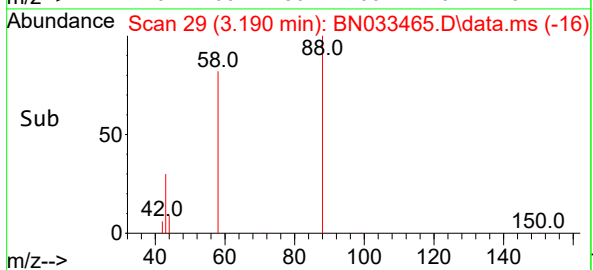
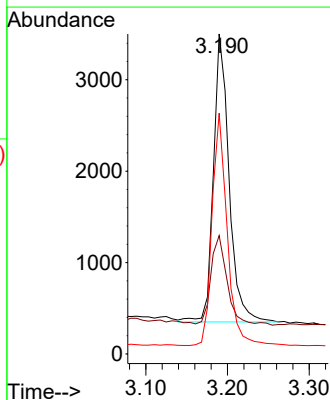
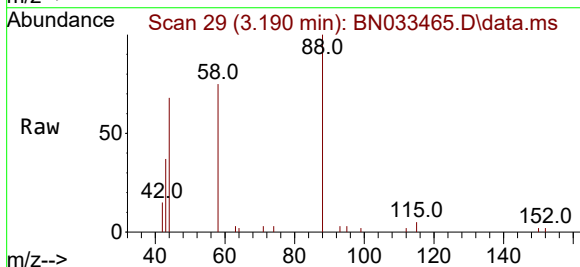
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

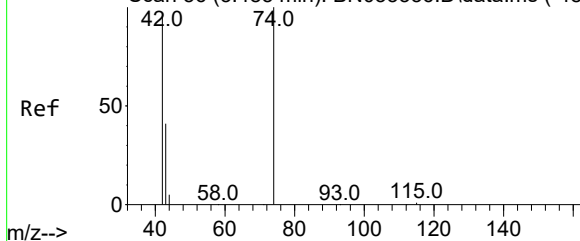


#2
1,4-Dioxane
Concen: 0.408 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

Tgt Ion: 88 Resp: 4180
Ion Ratio Lower Upper
88 100
43 32.6 30.6 46.0
58 78.1 64.5 96.7



Abundance Scan 56 (3.485 min): BN033336.D\data.ms (-48)



#3

n-Nitrosodimethylamine

Concen: 0.379 ng

RT: 3.479 min Scan# 61

Delta R.T. -0.007 min

Lab File: BN033465.D

Acq: 17 Aug 2024 12:44

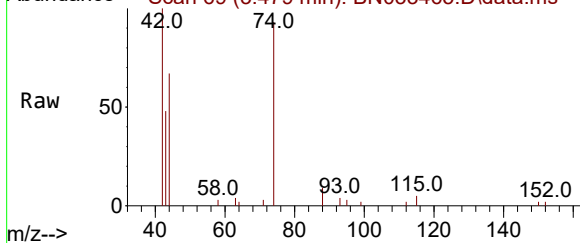
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Abundance Scan 69 (3.479 min): BN033465.D\data.ms



Tgt Ion: 42 Resp: 500

Ion Ratio Lower Upper

42 100

74 118.0 89.0 133.6

44 9.6 11.0 16.4

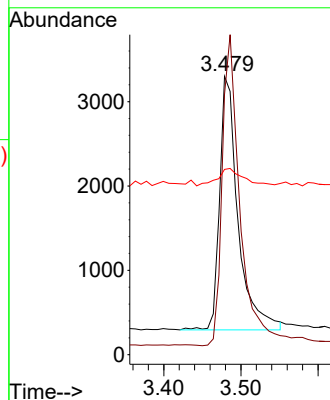
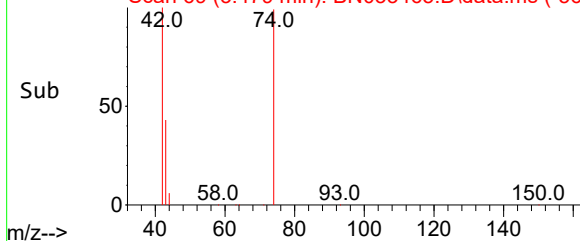
Manual Integrations

APPROVED

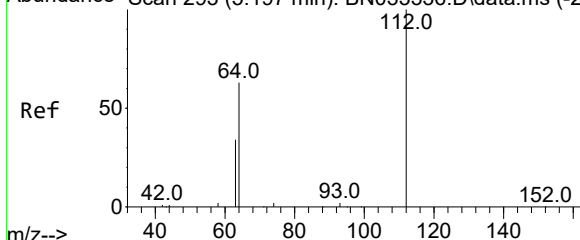
Reviewed By :Jagrut Upadhyay 08/19/2024

Supervised By :mohammad ahmed 08/21/2024

Abundance Scan 69 (3.479 min): BN033465.D\data.ms (-56)



Abundance Scan 293 (5.197 min): BN033336.D\data.ms (-28)



#4

2-Fluorophenol

Concen: 0.365 ng

RT: 5.190 min Scan# 306

Delta R.T. -0.007 min

Lab File: BN033465.D

Acq: 17 Aug 2024 12:44

Tgt Ion:112 Resp: 9297

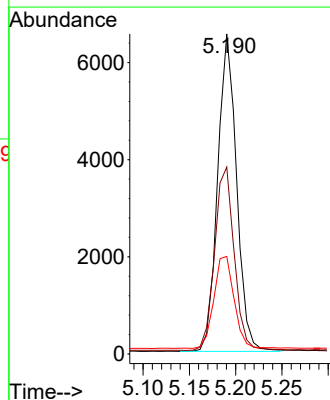
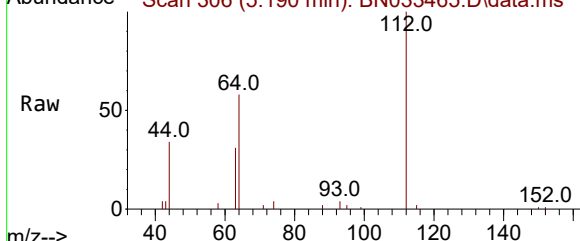
Ion Ratio Lower Upper

112 100

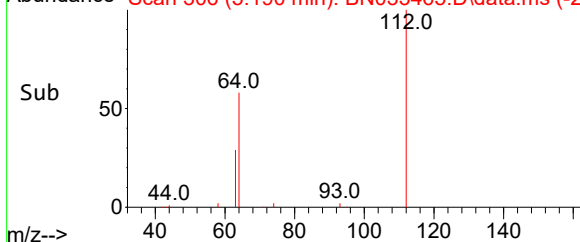
64 60.0 48.1 72.1

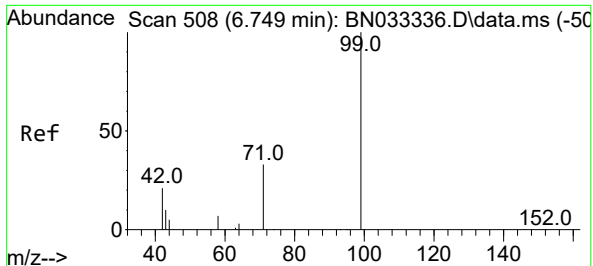
63 31.1 25.4 38.2

Abundance Scan 306 (5.190 min): BN033465.D\data.ms



Abundance Scan 306 (5.190 min): BN033465.D\data.ms (-29)





#5
Phenol-d6
Concen: 0.331 ng
RT: 6.743 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

Instrument :

BNA_N

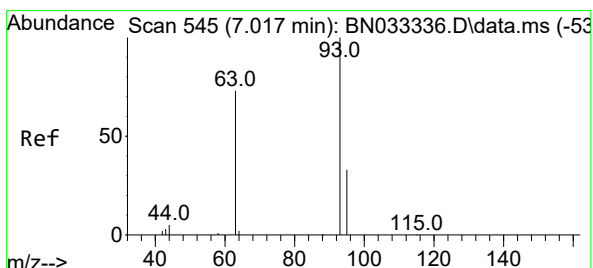
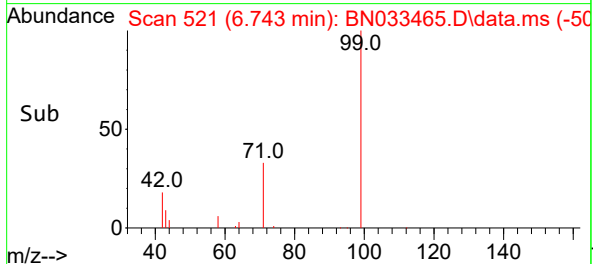
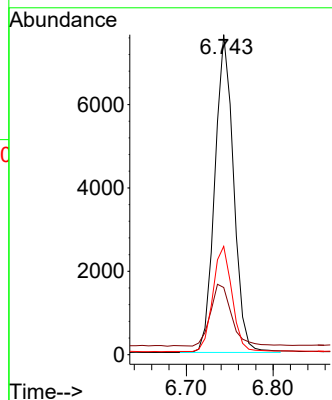
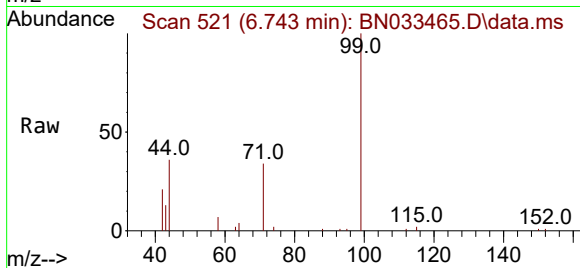
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	99	Ratio	100	Lower	Upper
99	100				
42	21.6		18.5	27.7	
71	33.8		26.2	39.2	

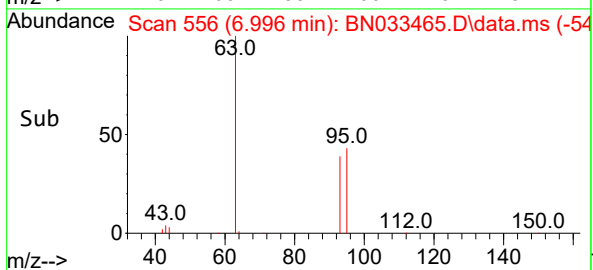
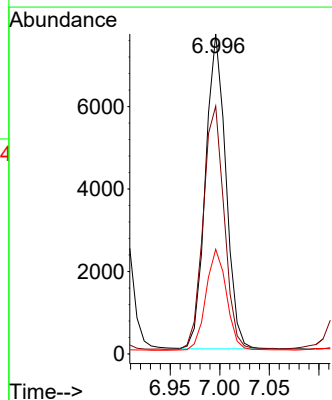
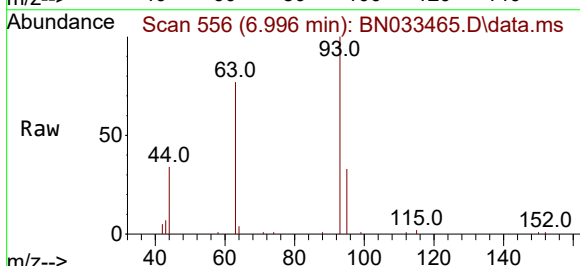
Manual Integrations
APPROVED

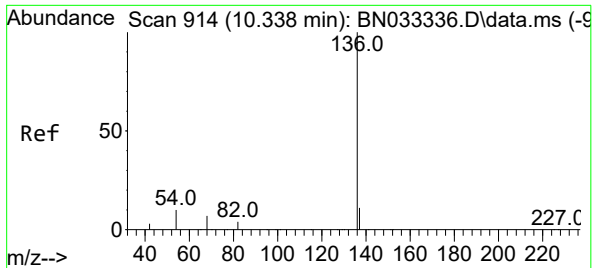
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.389 ng
RT: 6.996 min Scan# 556
Delta R.T. -0.007 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

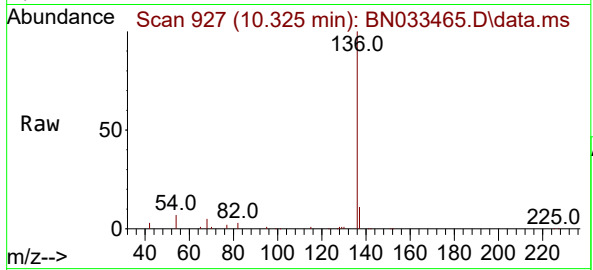
Tgt Ion:	93	Ratio	100	Lower	Upper
93	100				
63	80.1		65.2	97.8	
95	32.7		26.2	39.4	





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.325 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

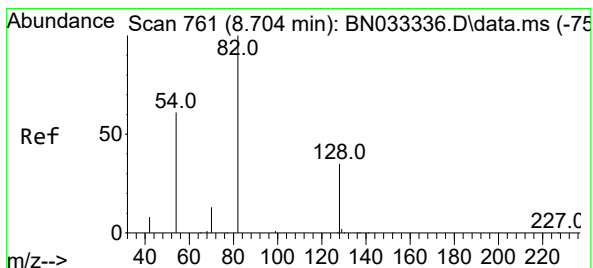
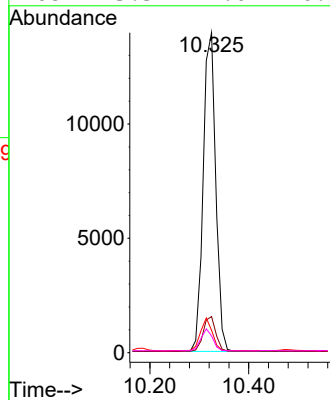
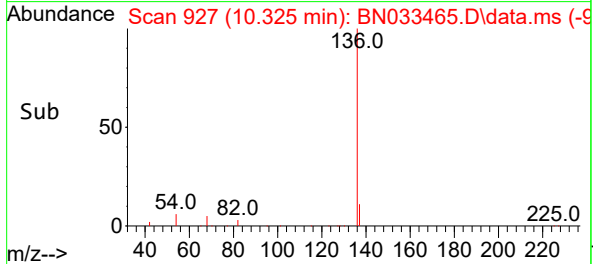
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 136 Resp: 24578
Ion Ratio Lower Upper
136 100
137 11.3 9.1 13.7
54 7.0 9.4 14.0
68 5.3 7.0 10.4#

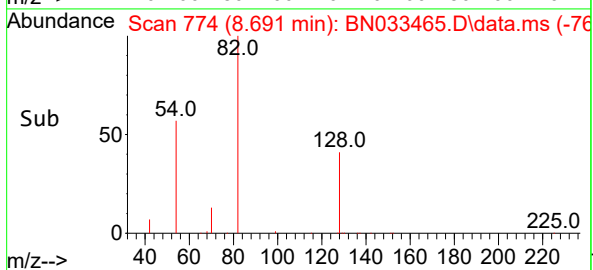
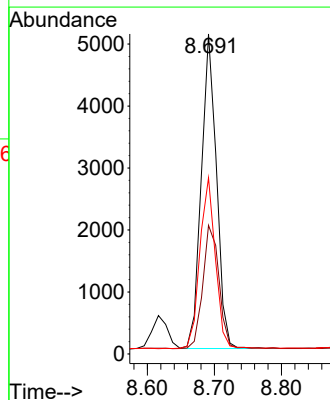
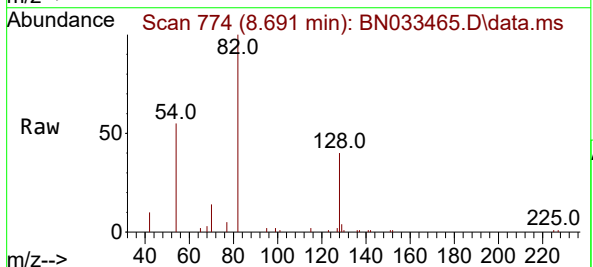
Manual Integrations
APPROVED

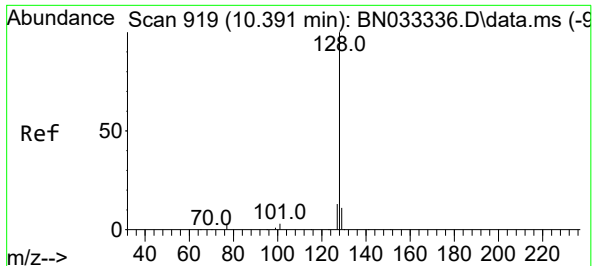
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#8
Nitrobenzene-d5
Concen: 0.431 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.011 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

Tgt Ion: 82 Resp: 7995
Ion Ratio Lower Upper
82 100
128 40.2 29.0 43.4
54 55.1 50.2 75.4





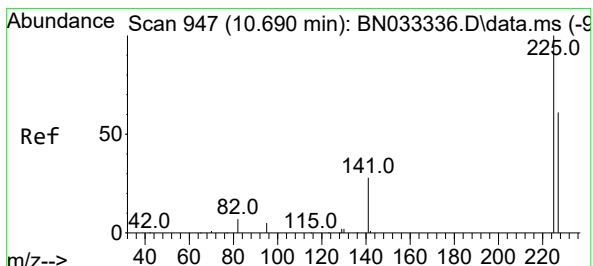
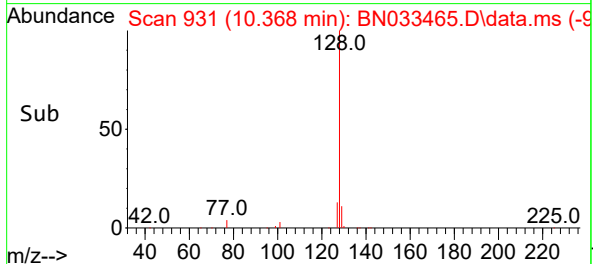
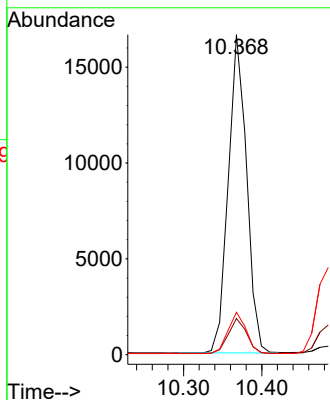
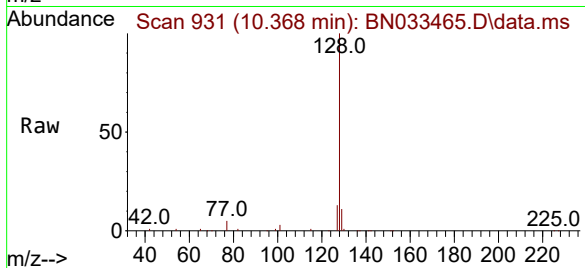
#9
Naphthalene
Concen: 0.398 ng
RT: 10.368 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 2700
Ion Ratio Lower Upper
128 100
129 11.3 9.2 13.8
127 13.3 10.6 15.8

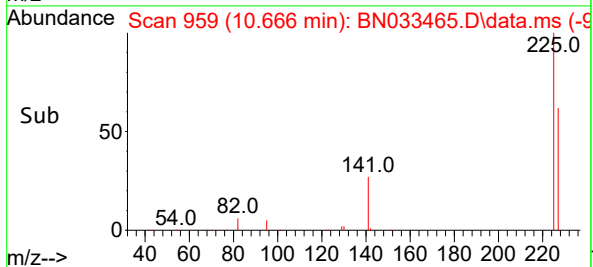
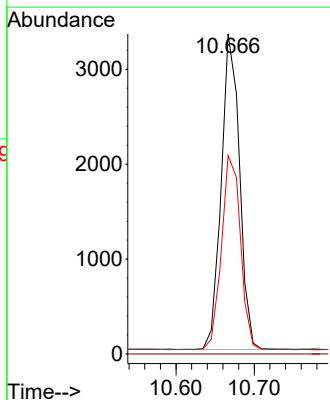
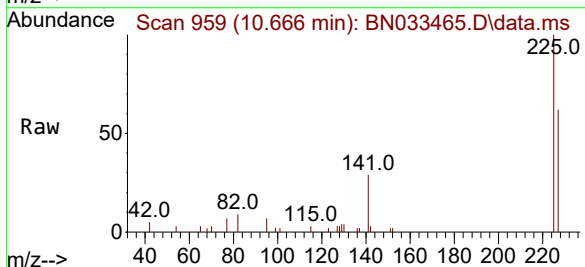
Manual Integrations
APPROVED

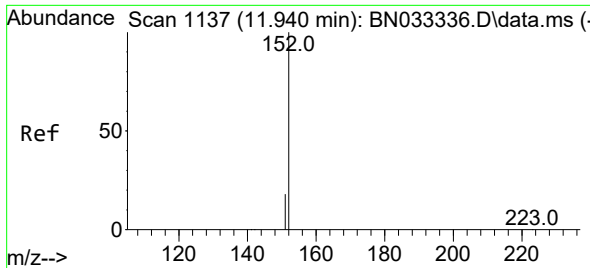
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.666 min Scan# 959
Delta R.T. -0.022 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

Tgt Ion:225 Resp: 5378
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 50.8 76.2





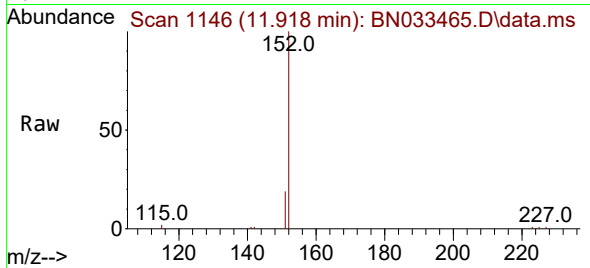
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.918 min Scan# 1165
Delta R.T. -0.012 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

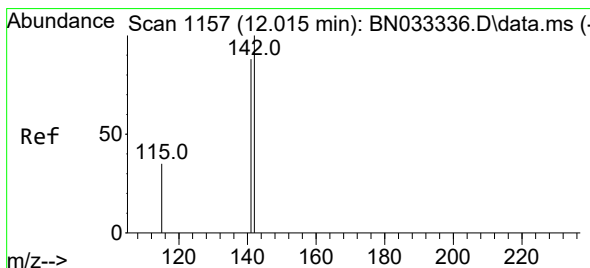
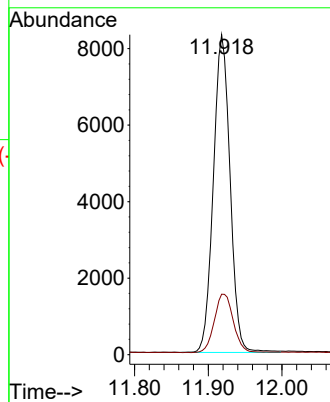
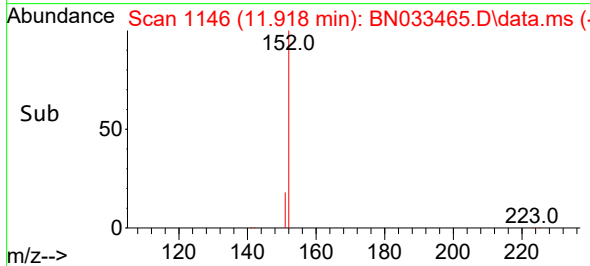


Tgt Ion:152 Resp: 13109
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1

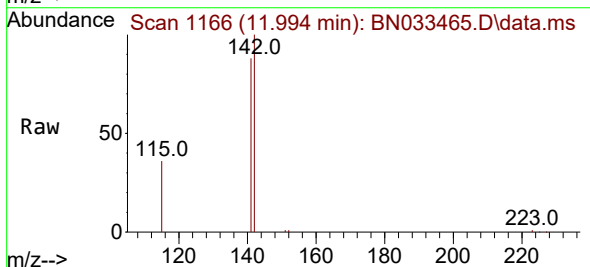
Manual Integrations

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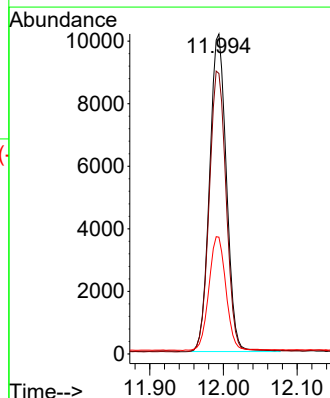
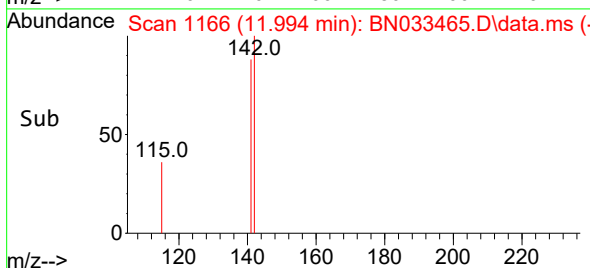
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

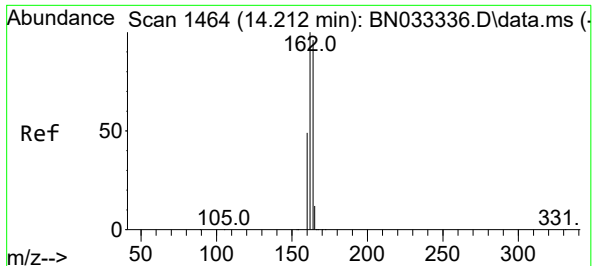


#12
2-Methylnaphthalene
Concen: 0.353 ng
RT: 11.994 min Scan# 1166
Delta R.T. -0.012 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44



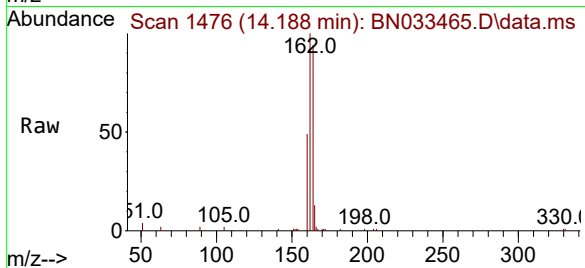
Tgt Ion:142 Resp: 16143
Ion Ratio Lower Upper
142 100
141 87.7 70.2 105.4
115 36.5 29.3 43.9





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.188 min Scan# 1411
Delta R.T. -0.011 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

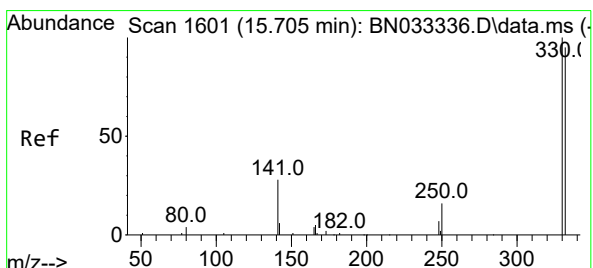
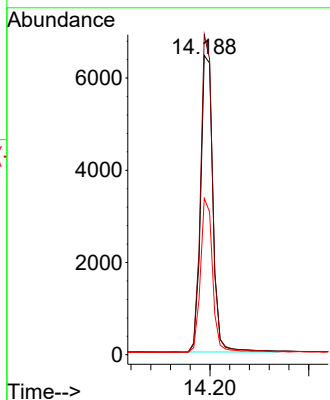
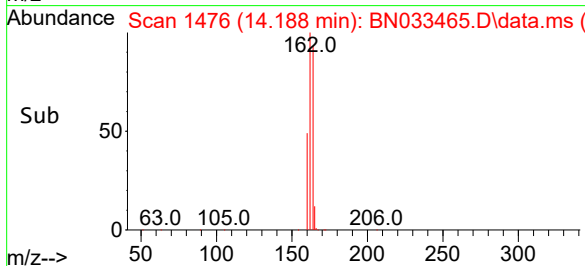
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



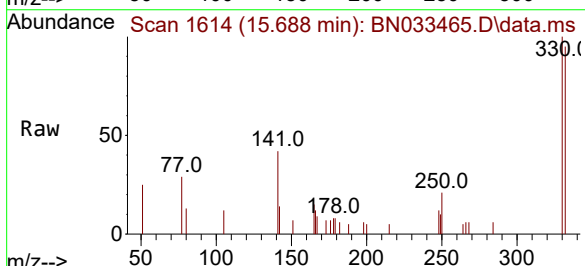
Tgt Ion:164 Resp: 11119
Ion Ratio Lower Upper
164 100
162 106.9 83.1 124.7
160 52.2 41.1 61.7

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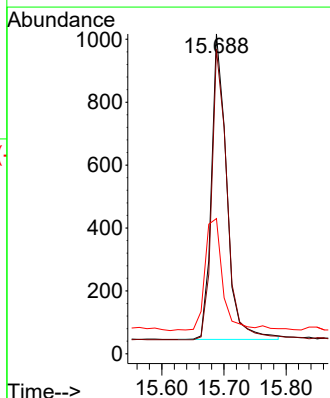
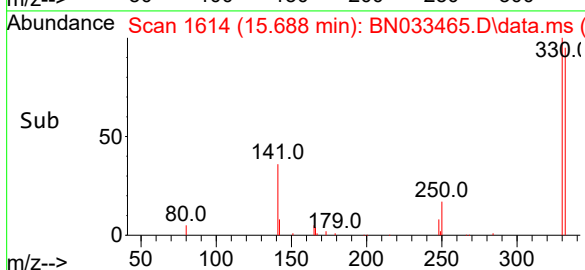
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

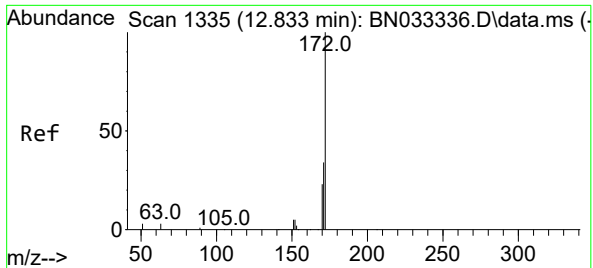


#14
2,4,6-Tribromophenol
Concen: 0.291 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.013 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44



Tgt Ion:330 Resp: 1658
Ion Ratio Lower Upper
330 100
332 96.2 77.1 115.7
141 43.5 33.4 50.0





#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 12.809 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

Instrument :

BNA_N

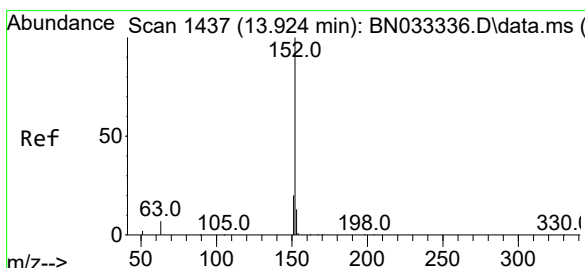
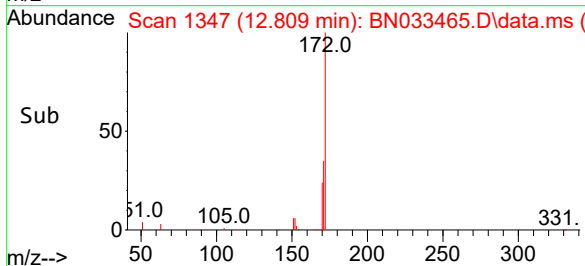
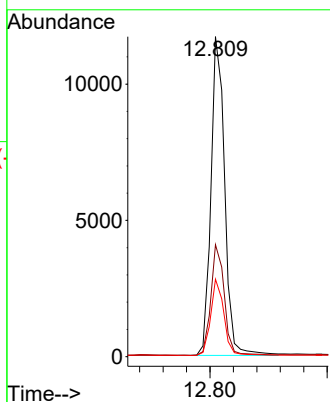
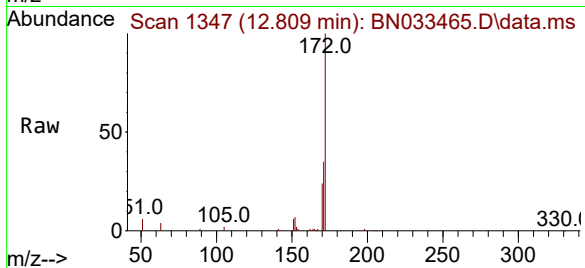
ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	27.8	41.8
170	24.2	18.7	28.1

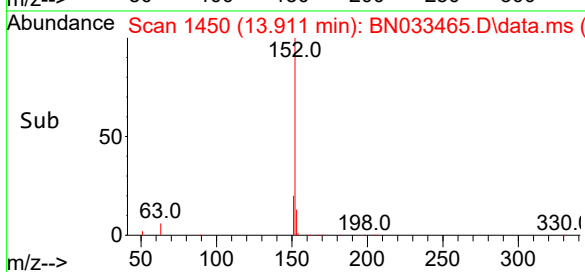
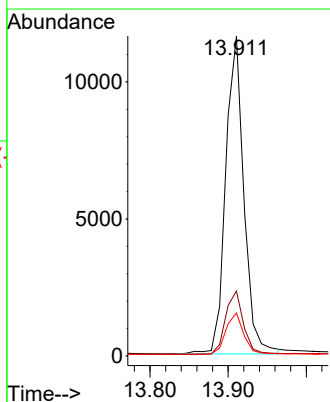
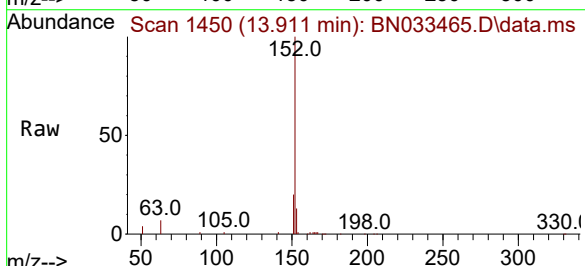
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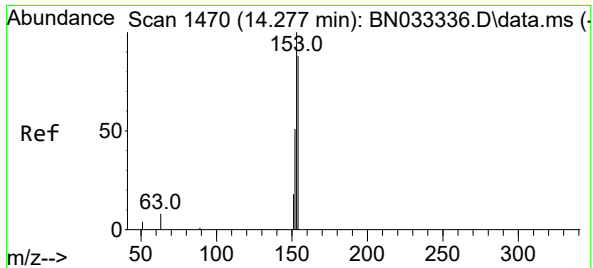
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#16
Acenaphthylene
Concen: 0.362 ng
RT: 13.911 min Scan# 1450
Delta R.T. -0.011 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

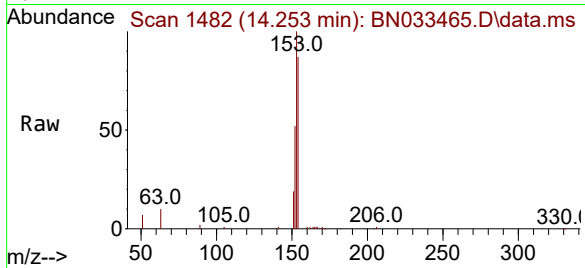
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.7	23.5
153	12.7	10.4	15.6





#17
Acenaphthene
Concen: 0.371 ng
RT: 14.253 min Scan# 1470
Delta R.T. -0.011 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

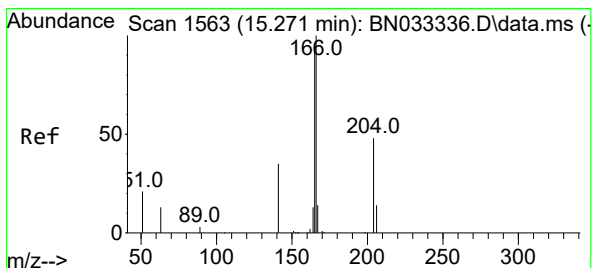
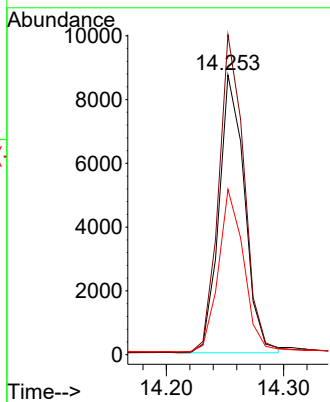
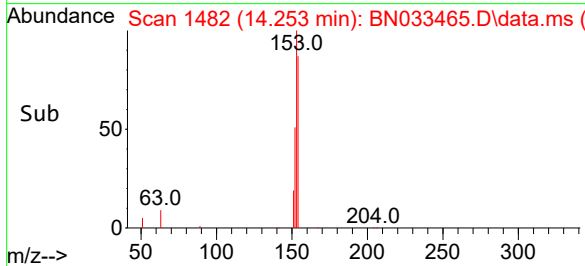
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



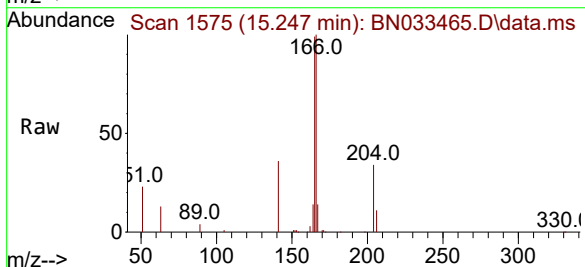
Tgt Ion:154 Resp: 1320
Ion Ratio Lower Upper
154 100
153 114.0 89.7 134.5
152 57.8 47.2 70.8

Manual Integrations
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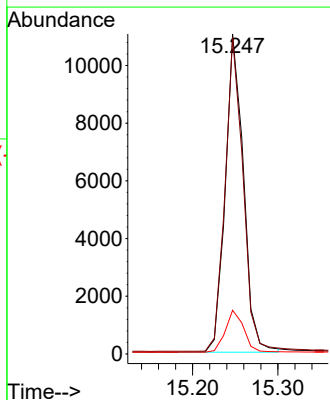
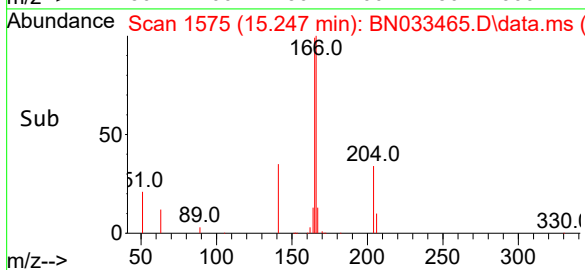
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

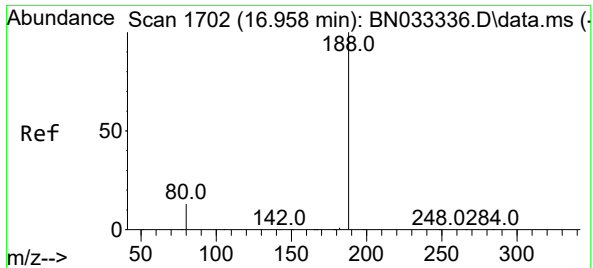


#18
Fluorene
Concen: 0.347 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44



Tgt Ion:166 Resp: 16272
Ion Ratio Lower Upper
166 100
165 97.7 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN033465.D

Acq: 17 Aug 2024 12:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:188 Resp: 2046

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

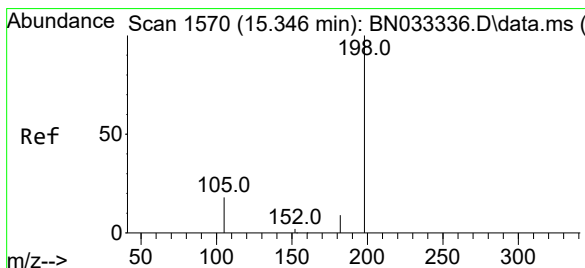
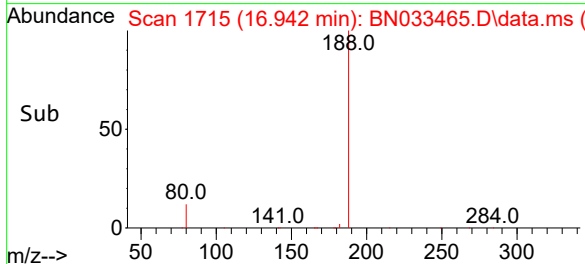
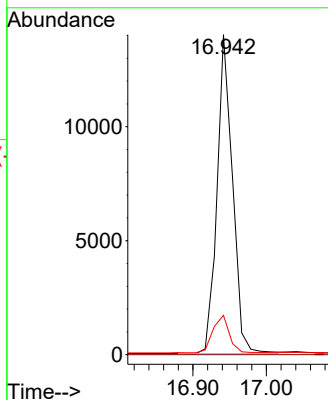
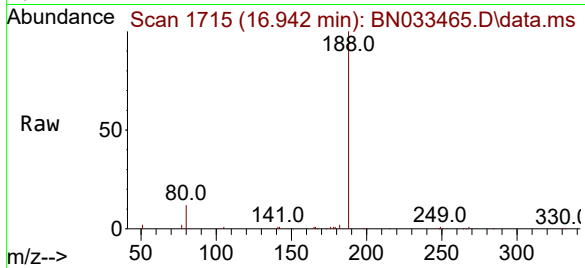
80 12.3 10.7 16.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/19/2024

Supervised By :mohammad ahmed 08/21/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.262 ng

RT: 15.332 min Scan# 1583

Delta R.T. -0.000 min

Lab File: BN033465.D

Acq: 17 Aug 2024 12:44

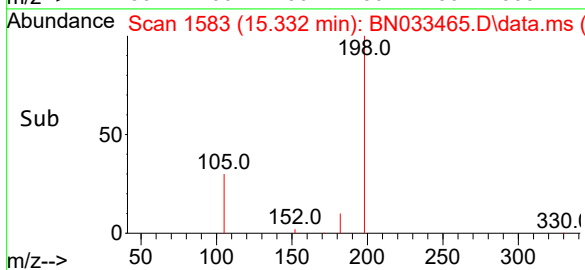
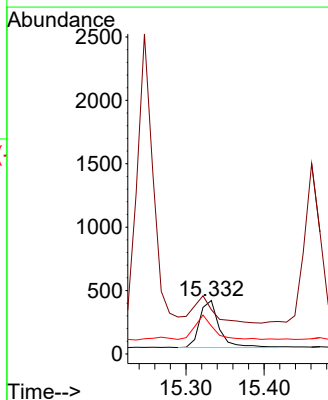
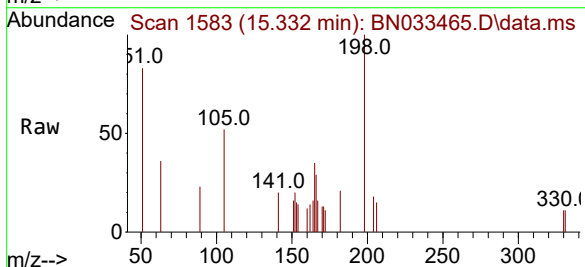
Tgt Ion:198 Resp: 651

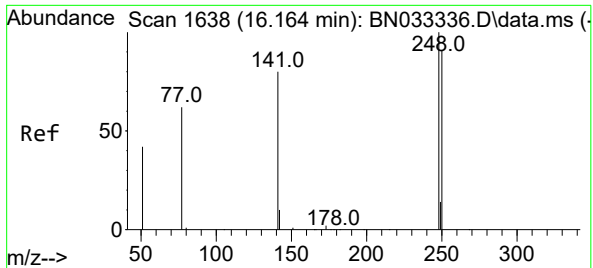
Ion Ratio Lower Upper

198 100

51 82.9 62.8 94.2

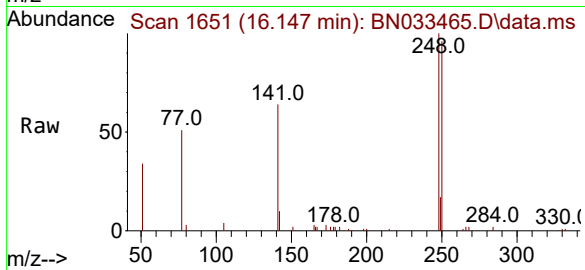
105 52.5 34.1 51.1#





#21
4-Bromophenyl-phenylether
Concen: 0.411 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.013 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

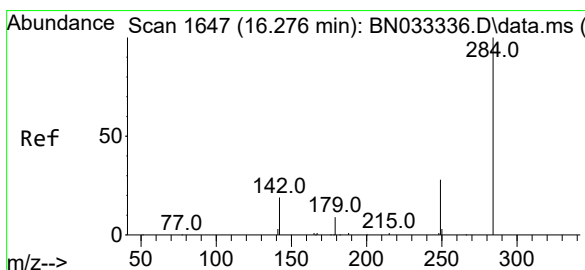
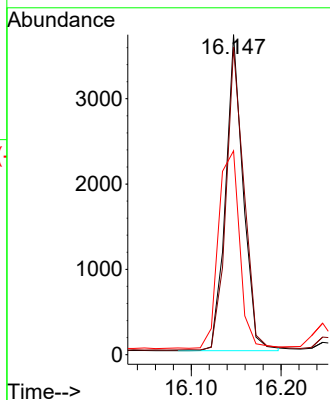
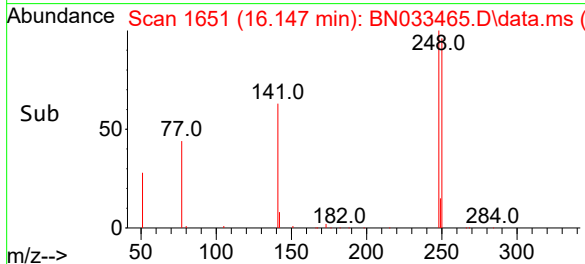
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 248 Resp: 503
Ion Ratio Lower Upper
248 100
250 96.0 73.0 109.4
141 63.7 64.6 96.8

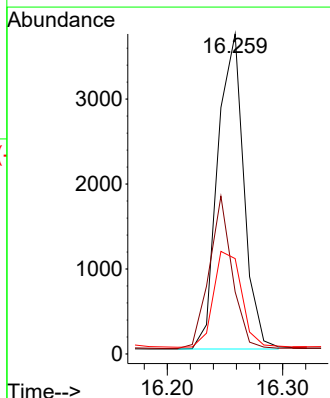
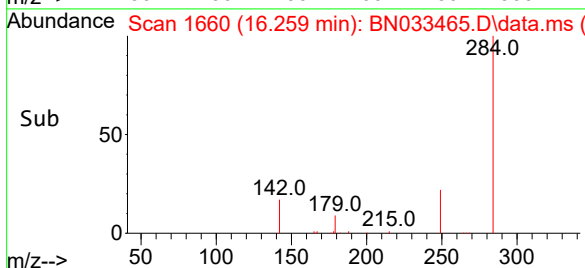
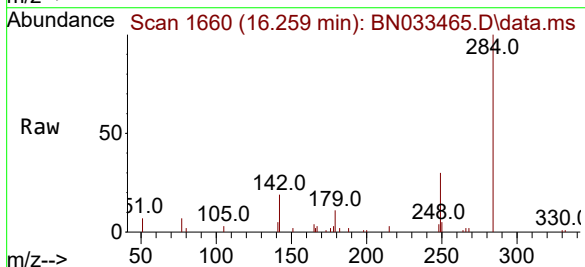
Manual Integrations
APPROVED

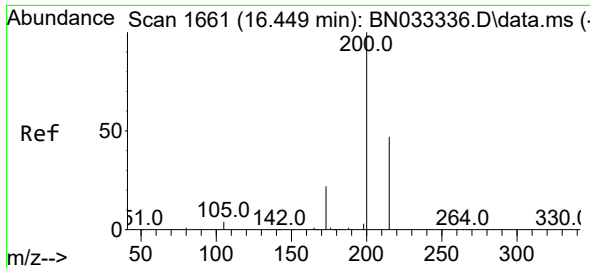
Reviewed By : Jagrut Upadhyay 08/19/2024
Supervised By : mohammad ahmed 08/21/2024



#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.259 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

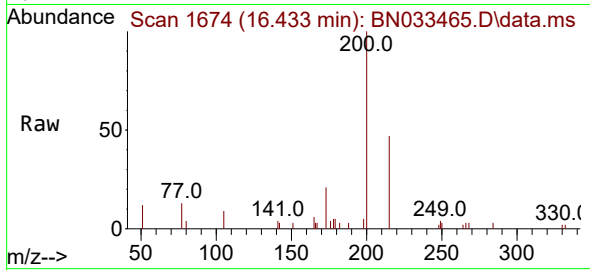
Tgt Ion: 284 Resp: 5825
Ion Ratio Lower Upper
284 100
142 42.6 32.2 48.4
249 32.7 25.3 37.9





#23
Atrazine
Concen: 0.363 ng
RT: 16.433 min Scan# 1674
Delta R.T. -0.000 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

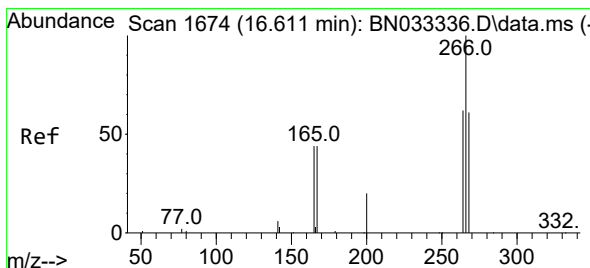
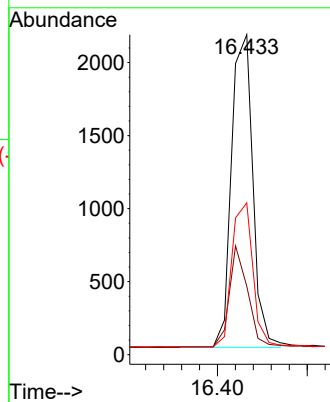
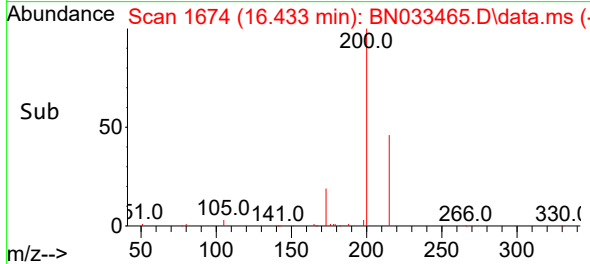
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 3529
Ion Ratio Lower Upper
200 100
173 21.4 18.7 28.1
215 47.4 38.6 58.0

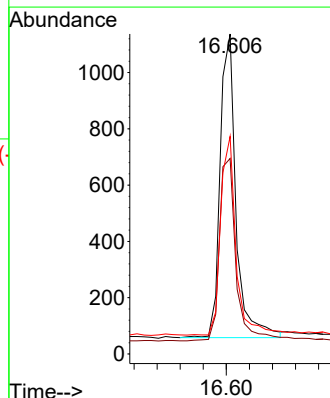
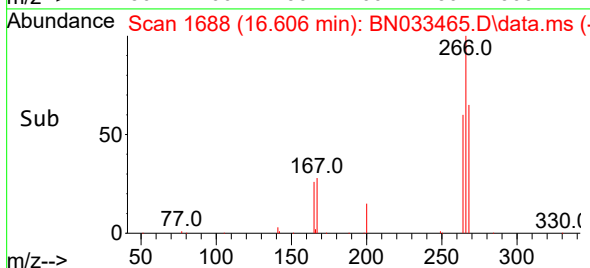
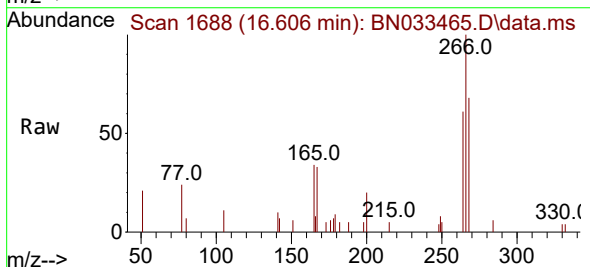
Manual Integrations
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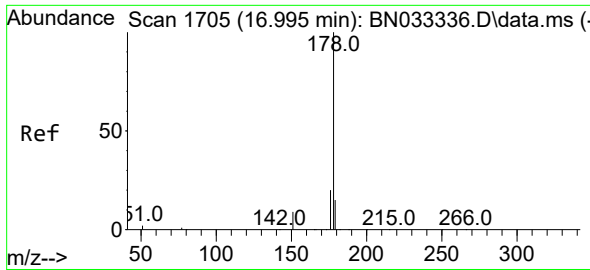
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#24
Pentachlorophenol
Concen: 0.372 ng
RT: 16.606 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

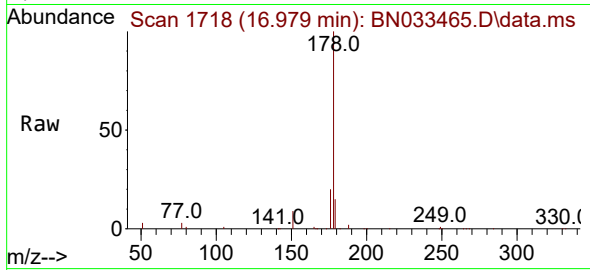
Tgt Ion:266 Resp: 2063
Ion Ratio Lower Upper
266 100
264 62.2 49.2 73.8
268 63.5 51.2 76.8





#25
Phenanthrene
Concen: 0.398 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.013 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

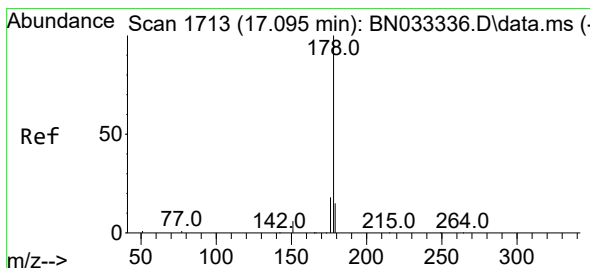
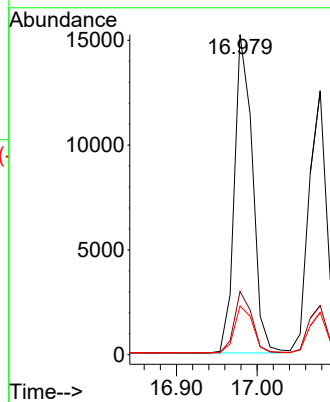
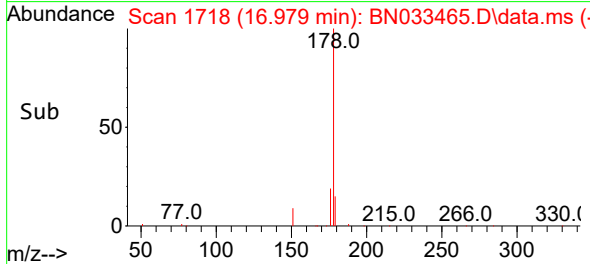
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 2353
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.0
179 15.2 12.2 18.2

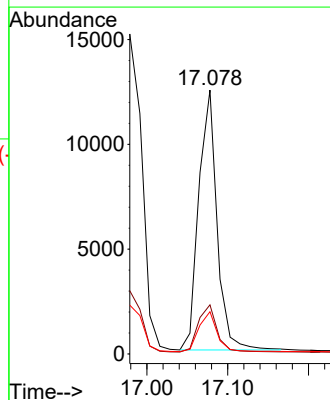
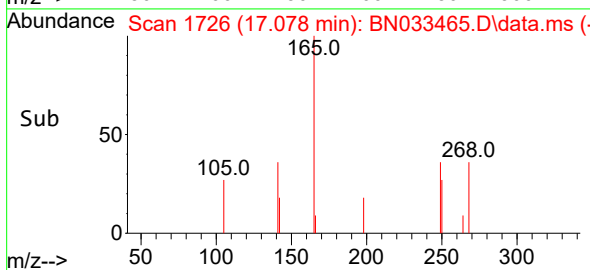
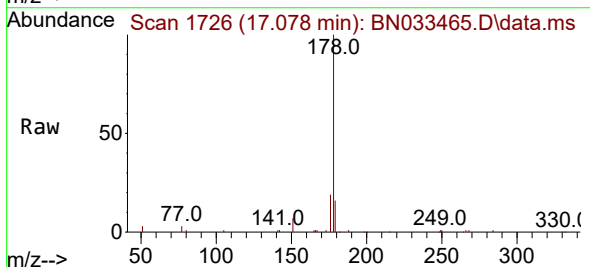
Manual Integrations
APPROVED

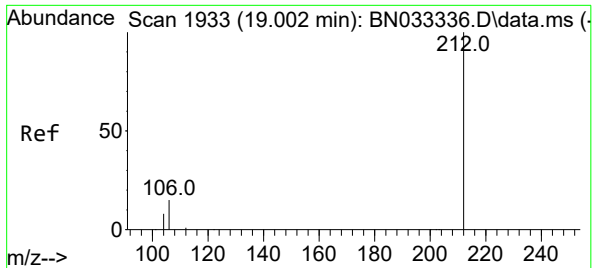
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#26
Anthracene
Concen: 0.375 ng
RT: 17.078 min Scan# 1726
Delta R.T. -0.000 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

Tgt Ion:178 Resp: 19602
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.3 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.345 ng

RT: 18.984 min Scan# 1944

Delta R.T. -0.009 min

Lab File: BN033465.D

Acq: 17 Aug 2024 12:44

Instrument :

BNA_N

ClientSampleId :

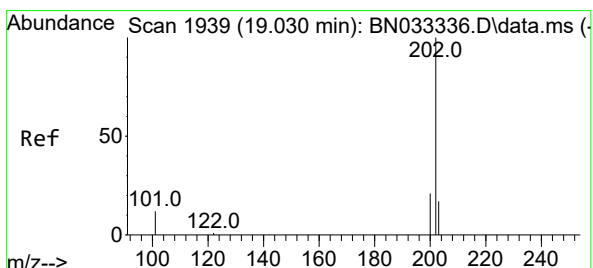
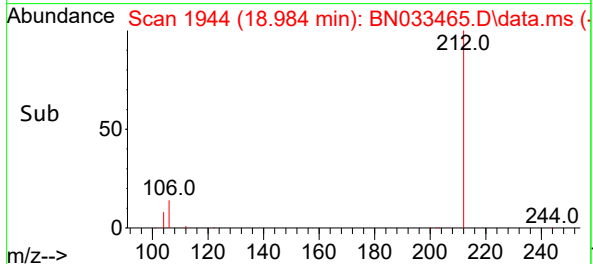
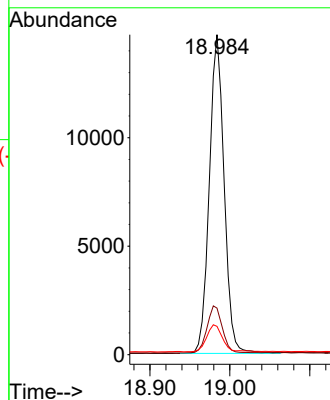
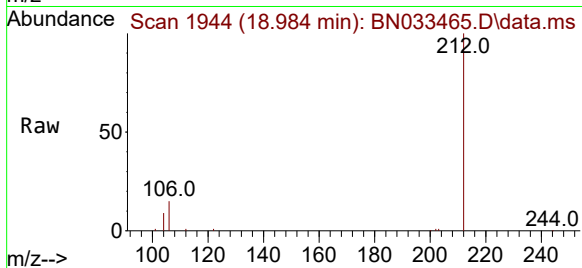
SSTDCCC0.4

Tgt Ion:	212	Resp:	18894
Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.8	19.2
104	9.0	7.1	10.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#28

Fluoranthene

Concen: 0.348 ng

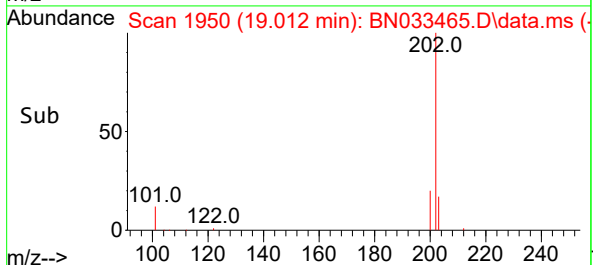
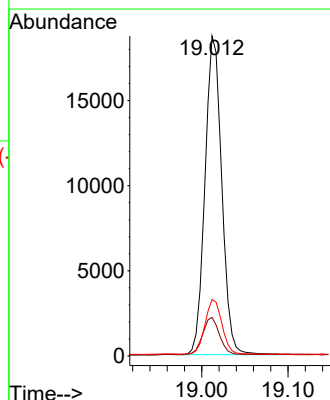
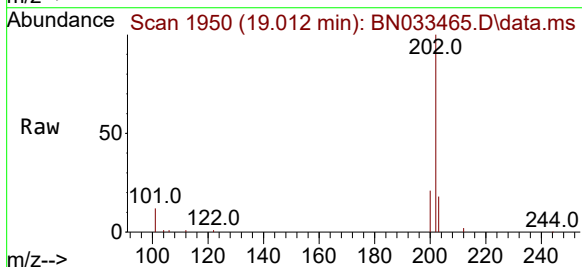
RT: 19.012 min Scan# 1950

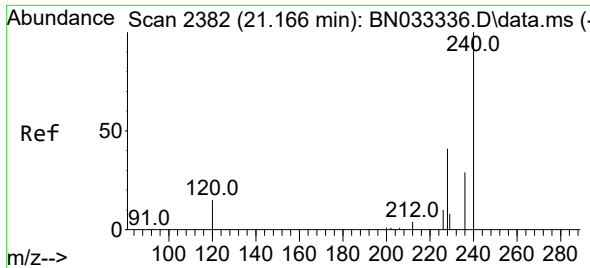
Delta R.T. -0.009 min

Lab File: BN033465.D

Acq: 17 Aug 2024 12:44

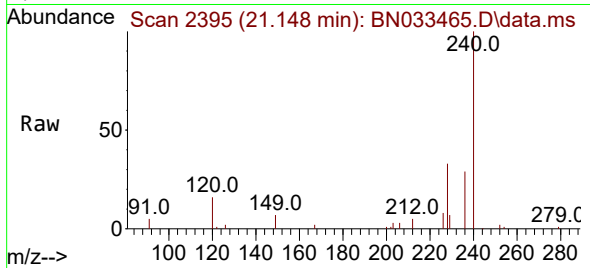
Tgt Ion:	202	Resp:	25340
Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.8	14.6
203	17.2	13.8	20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

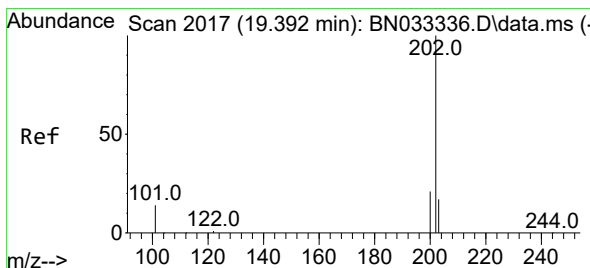
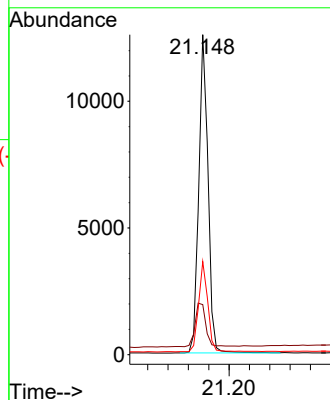
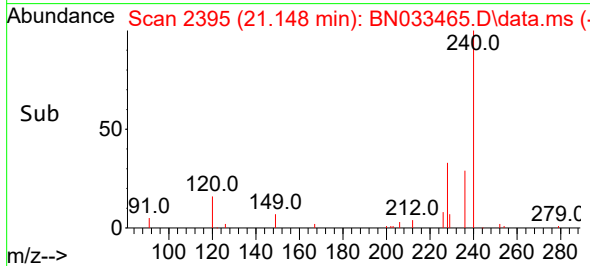
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:240 Resp: 15810
Ion Ratio Lower Upper
240 100
120 15.7 13.0 19.6
236 29.1 23.2 34.8

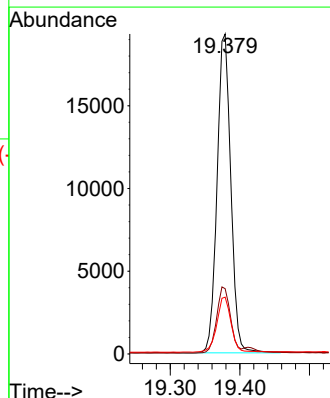
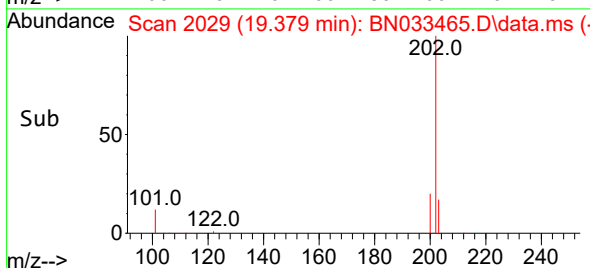
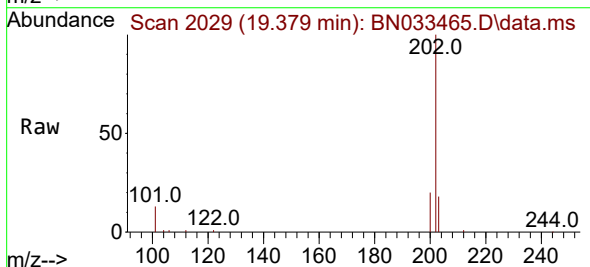
Manual Integrations
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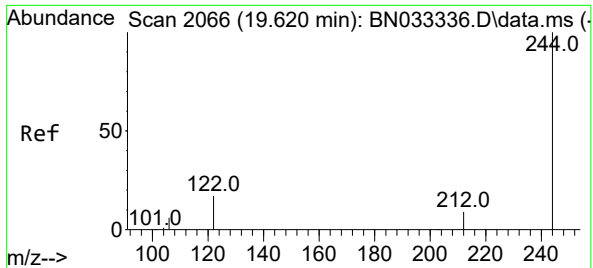
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#30
Pyrene
Concen: 0.420 ng
RT: 19.379 min Scan# 2029
Delta R.T. -0.005 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

Tgt Ion:202 Resp: 26412
Ion Ratio Lower Upper
202 100
200 20.8 16.7 25.1
203 17.8 14.2 21.4





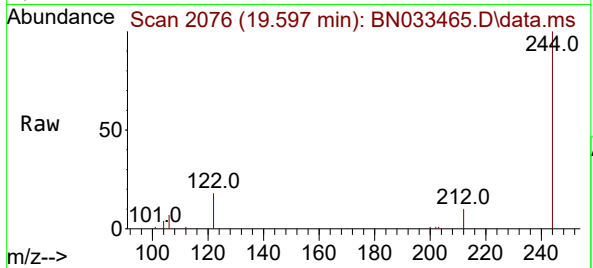
#31
Terphenyl-d14
Concen: 0.424 ng
RT: 19.597 min Scan# 2066
Delta R.T. -0.009 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

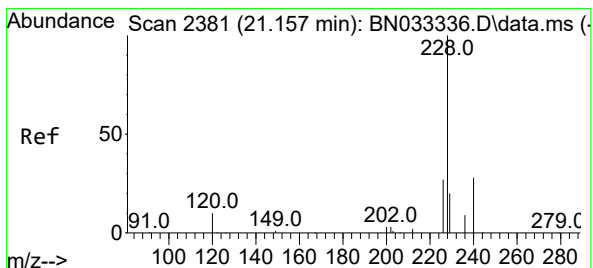
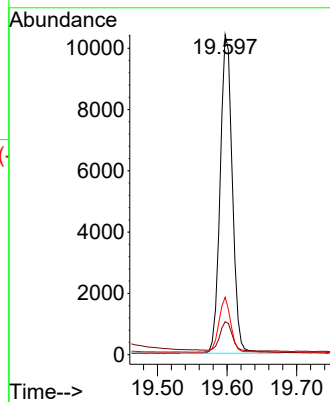
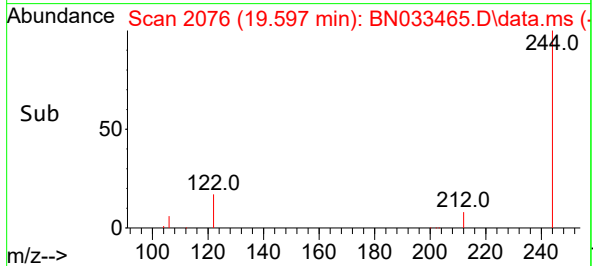


Tgt Ion:244 Resp: 1266
Ion Ratio Lower Upper
244 100
212 10.3 7.7 11.5
122 18.0 14.0 21.0

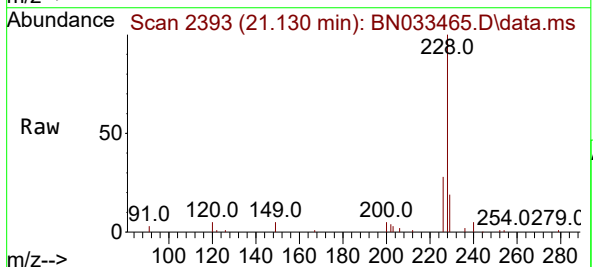
Manual Integrations

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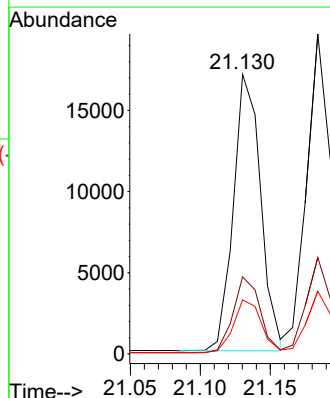
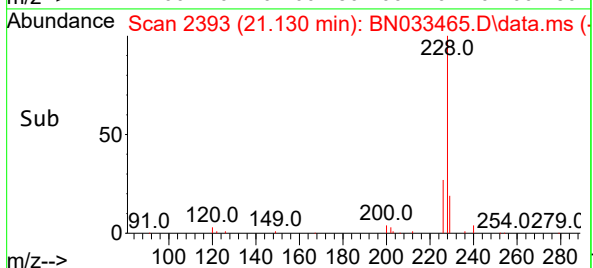
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

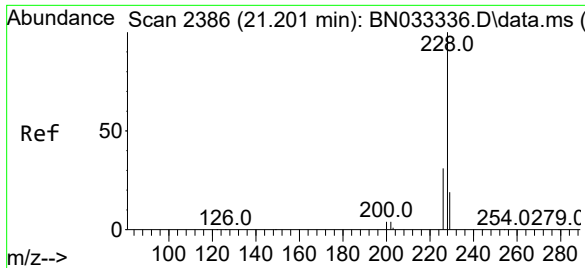


#32
Benzo(a)anthracene
Concen: 0.391 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.009 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44



Tgt Ion:228 Resp: 23072
Ion Ratio Lower Upper
228 100
226 27.6 21.6 32.4
229 19.3 15.9 23.9





#33

Chrysene

Concen: 0.401 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN033465.D

Acq: 17 Aug 2024 12:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:228 Resp: 23819

Ion Ratio Lower Upper

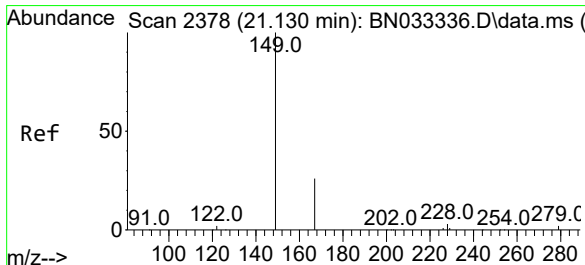
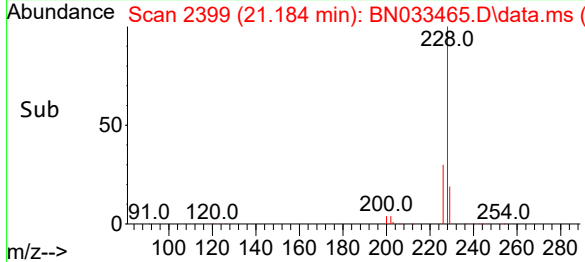
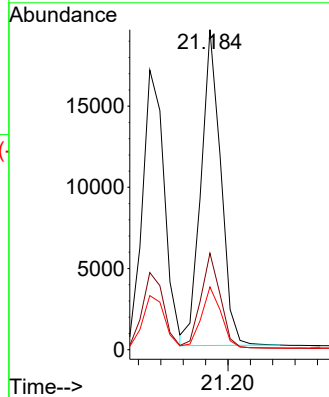
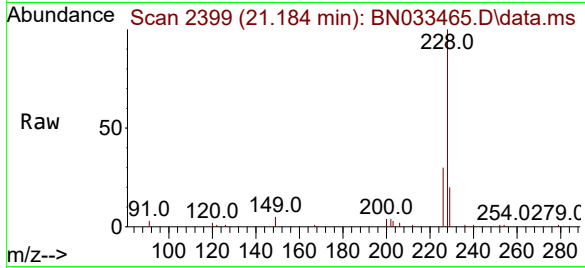
228 100

226 30.1 24.7 37.1

229 19.6 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.509 ng

RT: 21.103 min Scan# 2390

Delta R.T. -0.009 min

Lab File: BN033465.D

Acq: 17 Aug 2024 12:44

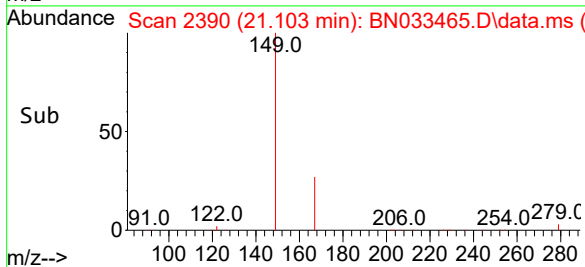
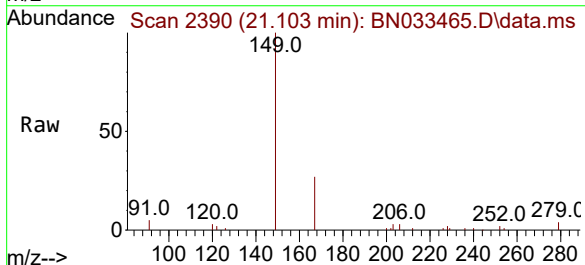
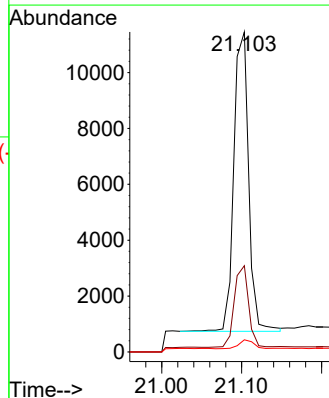
Tgt Ion:149 Resp: 13666

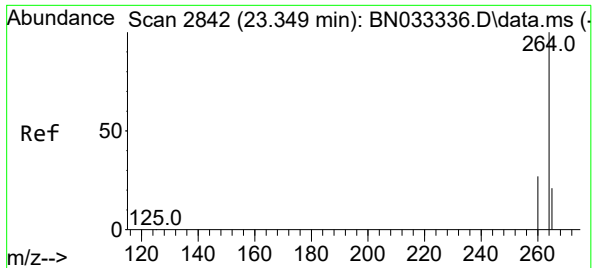
Ion Ratio Lower Upper

149 100

167 26.2 20.9 31.3

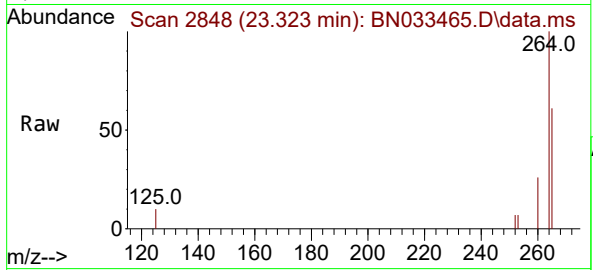
279 3.0 2.2 3.4





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.323 min Scan# 2848
Delta R.T. -0.009 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

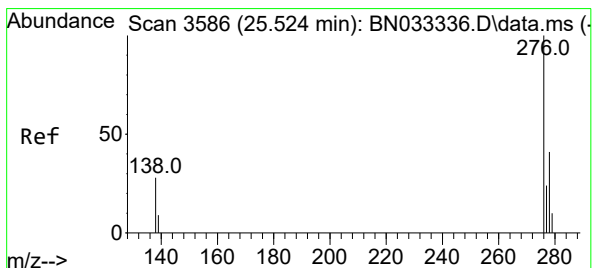
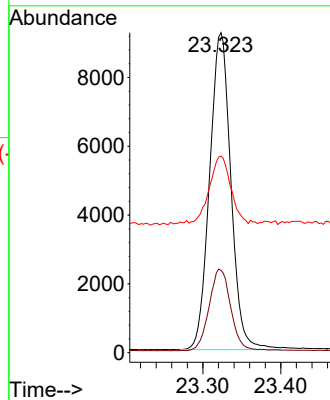
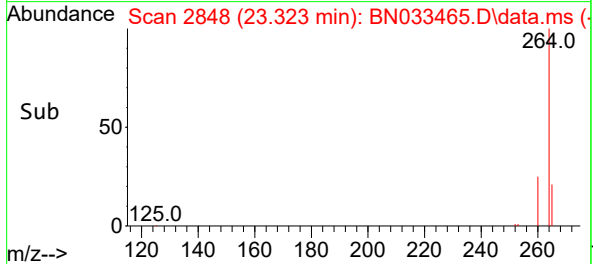
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 17492
Ion Ratio Lower Upper
264 100
260 25.8 21.6 32.4
265 61.4 29.3 43.9

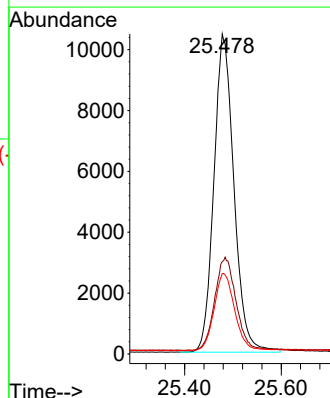
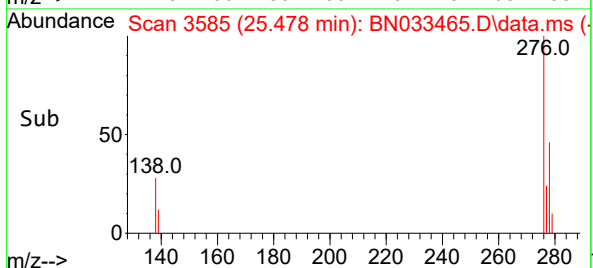
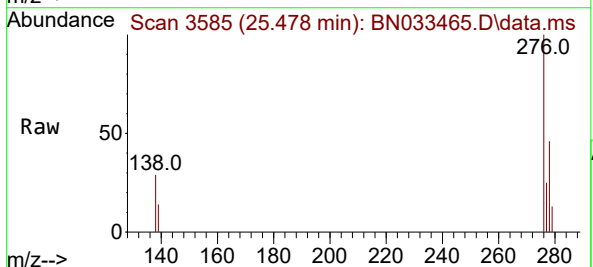
Manual Integrations
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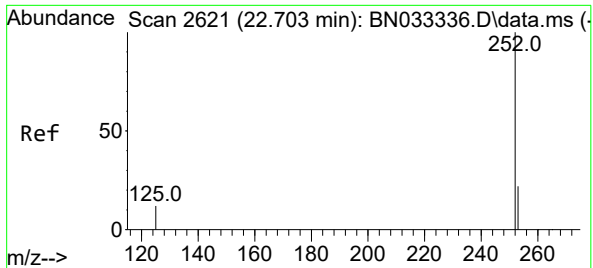
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.417 ng
RT: 25.478 min Scan# 3585
Delta R.T. -0.021 min
Lab File: BN033465.D
Acq: 17 Aug 2024 12:44

Tgt Ion:276 Resp: 30108
Ion Ratio Lower Upper
276 100
138 31.1 24.9 37.3
277 25.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.384 ng

RT: 22.677 min Scan# 2627

Delta R.T. -0.009 min

Lab File: BN033465.D

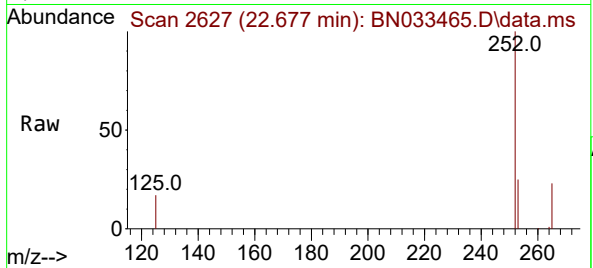
Acq: 17 Aug 2024 12:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 2526

Ion Ratio Lower Upper

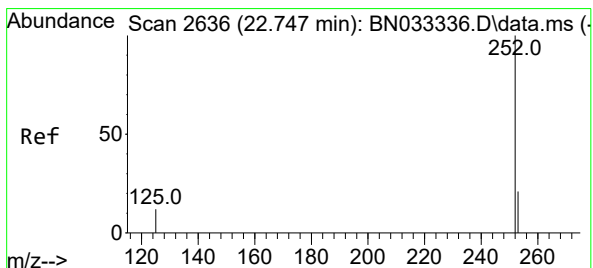
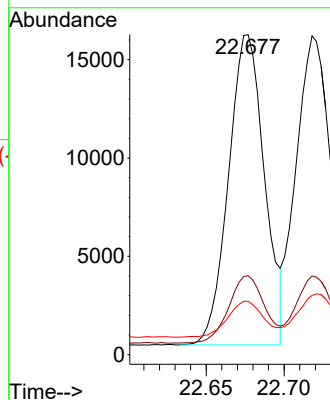
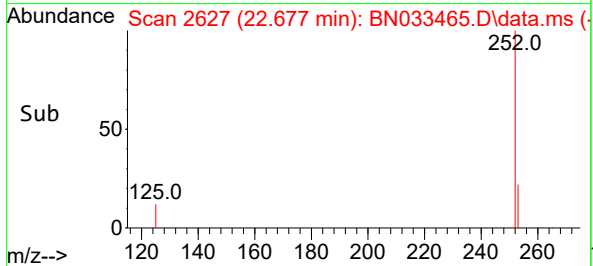
252 100

253 24.6 18.2 27.2

125 16.7 11.3 16.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

#38

Benzo(k)fluoranthene

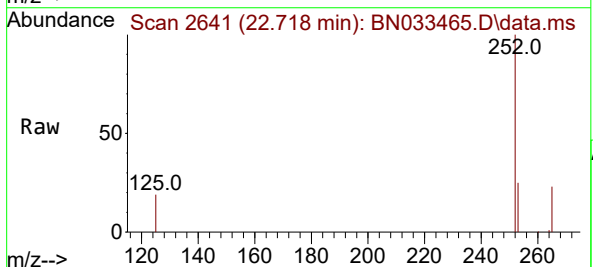
Concen: 0.370 ng m

RT: 22.718 min Scan# 2641

Delta R.T. -0.012 min

Lab File: BN033465.D

Acq: 17 Aug 2024 12:44



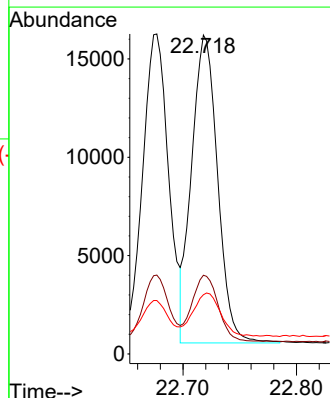
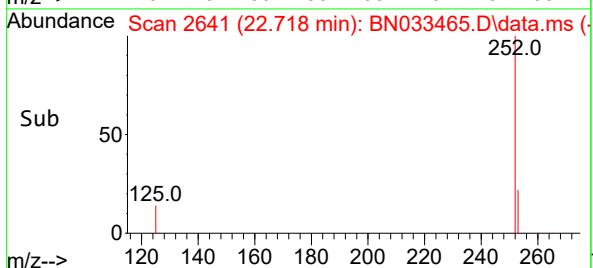
Tgt Ion:252 Resp: 24880

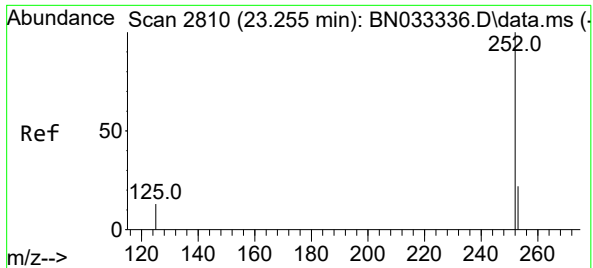
Ion Ratio Lower Upper

252 100

253 24.7 17.9 26.9

125 18.6 11.3 16.9#





#39

Benzo(a)pyrene

Concen: 0.376 ng

RT: 23.227 min Scan# 2810

Delta R.T. -0.012 min

Lab File: BN033465.D

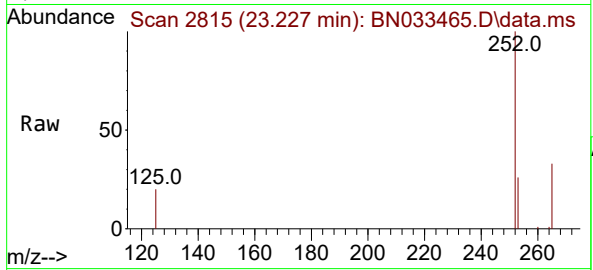
Acq: 17 Aug 2024 12:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 20860

Ion Ratio Lower Upper

252 100

253 26.4 18.6 28.0

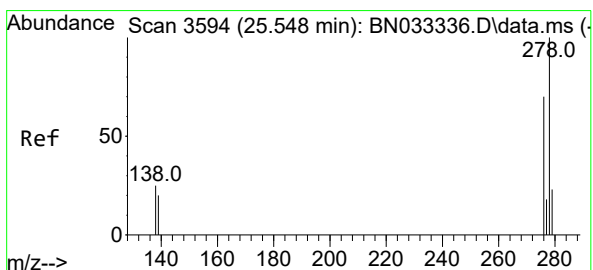
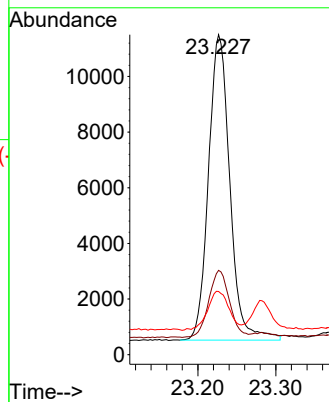
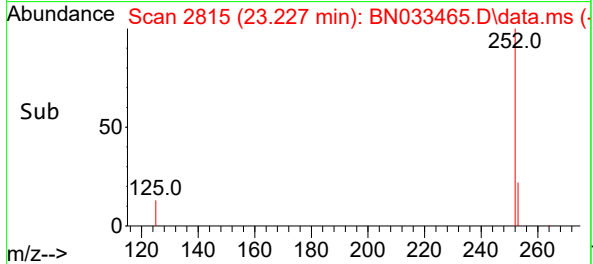
125 19.7 12.6 19.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024

Supervised By :mohammad ahmed 08/21/2024



#40

Dibenzo(a,h)anthracene

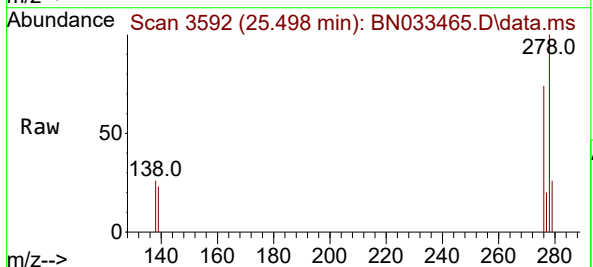
Concen: 0.425 ng

RT: 25.498 min Scan# 3592

Delta R.T. -0.018 min

Lab File: BN033465.D

Acq: 17 Aug 2024 12:44



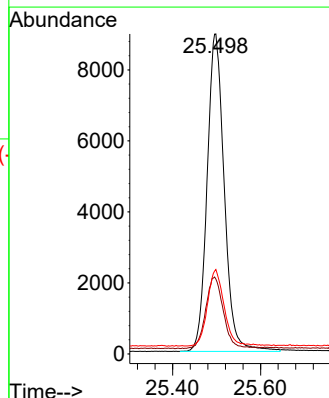
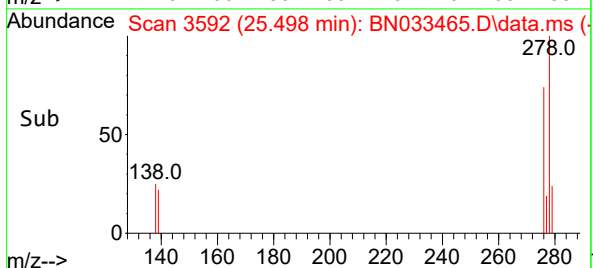
Tgt Ion:278 Resp: 24268

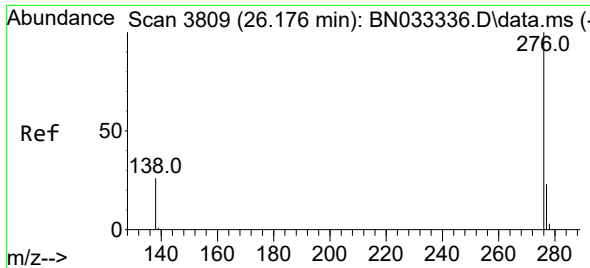
Ion Ratio Lower Upper

278 100

139 23.4 17.0 25.6

279 26.4 20.0 30.0





#41

Benzo(g,h,i)perylene

Concen: 0.401 ng

RT: 26.133 min Scan# 3809

Delta R.T. -0.018 min

Lab File: BN033465.D

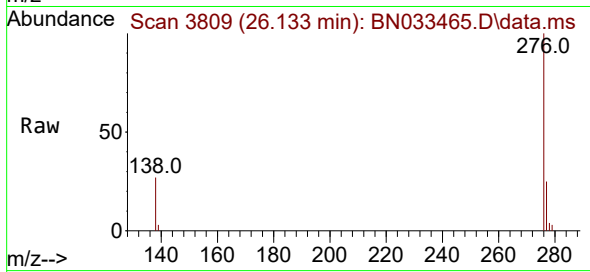
Acq: 17 Aug 2024 12:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 2538

Ion Ratio Lower Upper

276 100

277 24.8 19.4 29.2

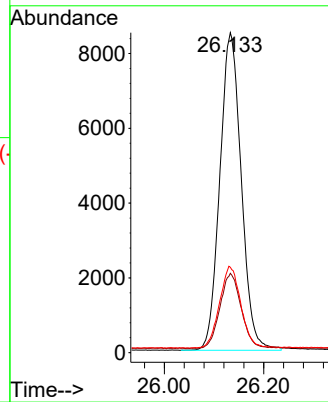
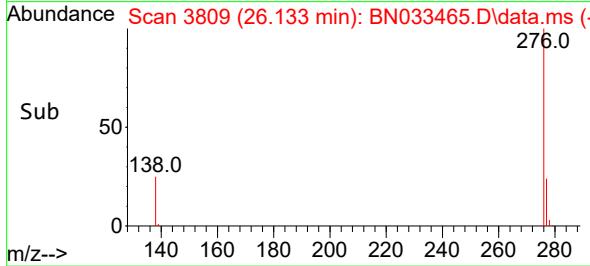
138 26.7 21.6 32.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024

Supervised By :mohammad ahmed 08/21/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081824\
Data File : BN033465.D
Acq On : 17 Aug 2024 12:44
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 17 23:29:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 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	174	-0.01
2	1,4-Dioxane	0.400	0.408	-2.0	185	0.00
3	n-Nitrosodimethylamine	0.400	0.379	5.3	168	0.00
4 S	2-Fluorophenol	0.400	0.365	8.8	156	0.00
5 S	Phenol-d6	0.400	0.331	17.3	142	0.00
6	bis(2-Chloroethyl)ether	0.400	0.389	2.8	172	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	159	-0.01
8 S	Nitrobenzene-d5	0.400	0.431	-7.7	176	-0.01
9	Naphthalene	0.400	0.398	0.5	163	-0.01
10	Hexachlorobutadiene	0.400	0.416	-4.0	167	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.347	13.3	143	-0.01
12	2-Methylnaphthalene	0.400	0.353	11.8	146	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	121	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.291	27.3#	94	-0.01
15 S	2-Fluorobiphenyl	0.400	0.417	-4.2	127	-0.01
16	Acenaphthylene	0.400	0.362	9.5	118	-0.01
17	Acenaphthene	0.400	0.371	7.3	118	-0.01
18	Fluorene	0.400	0.347	13.3	110	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	93	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.262	34.5#	71	0.00
21	4-Bromophenyl-phenylether	0.400	0.411	-2.7	100	-0.01
22	Hexachlorobenzene	0.400	0.424	-6.0	101	0.00
23	Atrazine	0.400	0.363	9.3	93	0.00
24	Pentachlorophenol	0.400	0.372	7.0	101	0.00
25	Phenanthrene	0.400	0.398	0.5	96	-0.01
26	Anthracene	0.400	0.375	6.3	93	0.00
27 SURR	Fluoranthene-d10	0.400	0.345	13.8	84	0.00
28	Fluoranthene	0.400	0.348	13.0	86	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	82	0.00
30	Pyrene	0.400	0.420	-5.0	87	0.00
31 S	Terphenyl-d14	0.400	0.424	-6.0	87	0.00
32	Benzo(a)anthracene	0.400	0.391	2.3	86	0.00
33	Chrysene	0.400	0.401	-0.3	83	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.509	-27.2#	121	0.00
35 I	Perylene-d12	0.400	0.400	0.0	88	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.417	-4.2	101	-0.02
37	Benzo(b)fluoranthene	0.400	0.384	4.0	89	0.00
38	Benzo(k)fluoranthene	0.400	0.370	7.5	84	-0.01
39 C	Benzo(a)pyrene	0.400	0.376	6.0	91	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.425	-6.2	103	-0.02
41	Benzo(g,h,i)perylene	0.400	0.401	-0.3	96	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081824\
Data File : BN033465.D
Acq On : 17 Aug 2024 12:44
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 17 23:29:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 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	174#	-0.01
2	1,4-Dioxane	0.444	0.453	-2.0	185#	0.00
3	n-Nitrosodimethylamine	0.572	0.542	5.2	168#	0.00
4 S	2-Fluorophenol	1.105	1.008	8.8	156#	0.00
5 S	Phenol-d6	1.492	1.237	17.1	142	0.00
6	bis(2-Chloroethyl)ether	1.209	1.176	2.7	172#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	159#	-0.01
8 S	Nitrobenzene-d5	0.302	0.325	-7.6	176#	-0.01
9	Naphthalene	1.103	1.099	0.4	163#	-0.01
10	Hexachlorobutadiene	0.210	0.219	-4.3	167#	-0.02
11 SURR	2-Methylnaphthalene-d10	0.616	0.533	13.5	143	-0.01
12	2-Methylnaphthalene	0.745	0.657	11.8	146	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	121	-0.01
14 S	2,4,6-Tribromophenol	0.205	0.149	27.3#	94	-0.01
15 S	2-Fluorobiphenyl	1.640	1.710	-4.3	127	-0.01
16	Acenaphthylene	1.867	1.691	9.4	118	-0.01
17	Acenaphthene	1.281	1.187	7.3	118	-0.01
18	Fluorene	1.689	1.463	13.4	110	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.01
20	4,6-Dinitro-2-methylphenol	0.049	0.032	34.7#	71	0.00
21	4-Bromophenyl-phenylether	0.239	0.246	-2.9	100	-0.01
22	Hexachlorobenzene	0.268	0.285	-6.3	101	0.00
23	Atrazine	0.190	0.172	9.5	93	0.00
24	Pentachlorophenol	0.108	0.101	6.5	101	0.00
25	Phenanthrene	1.155	1.150	0.4	96	-0.01
26	Anthracene	1.023	0.958	6.4	93	0.00
27 SURR	Fluoranthene-d10	1.069	0.923	13.7	84	0.00
28	Fluoranthene	1.422	1.238	12.9	86	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	82	0.00
30	Pyrene	1.592	1.671	-5.0	87	0.00
31 S	Terphenyl-d14	0.756	0.801	-6.0	87	0.00
32	Benzo(a)anthracene	1.494	1.459	2.3	86	0.00
33	Chrysene	1.504	1.507	-0.2	83	0.00
34	Bis(2-ethylhexyl)phthalate	0.679	0.864	-27.2#	121	0.00
35 I	Perylene-d12	1.000	1.000	0.0	88	0.00
36	Indeno(1,2,3-cd)pyrene	1.653	1.721	-4.1	101	-0.02
37	Benzo(b)fluoranthene	1.505	1.444	4.1	89	0.00
38	Benzo(k)fluoranthene	1.537	1.422	7.5	84	-0.01
39 C	Benzo(a)pyrene	1.268	1.193	5.9	91	-0.01
40	Dibenzo(a,h)anthracene	1.305	1.387	-6.3	103	-0.02
41	Benzo(g,h,i)perylene	1.448	1.451	-0.2	96	-0.02

(#) = Out of Range

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



QC SAMPLE DATA

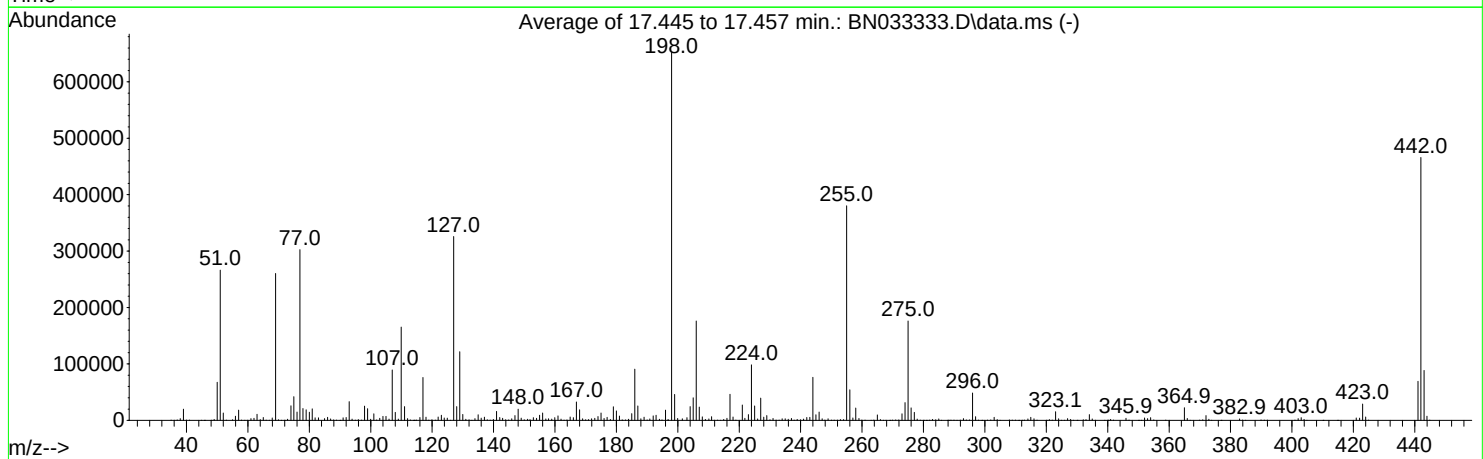
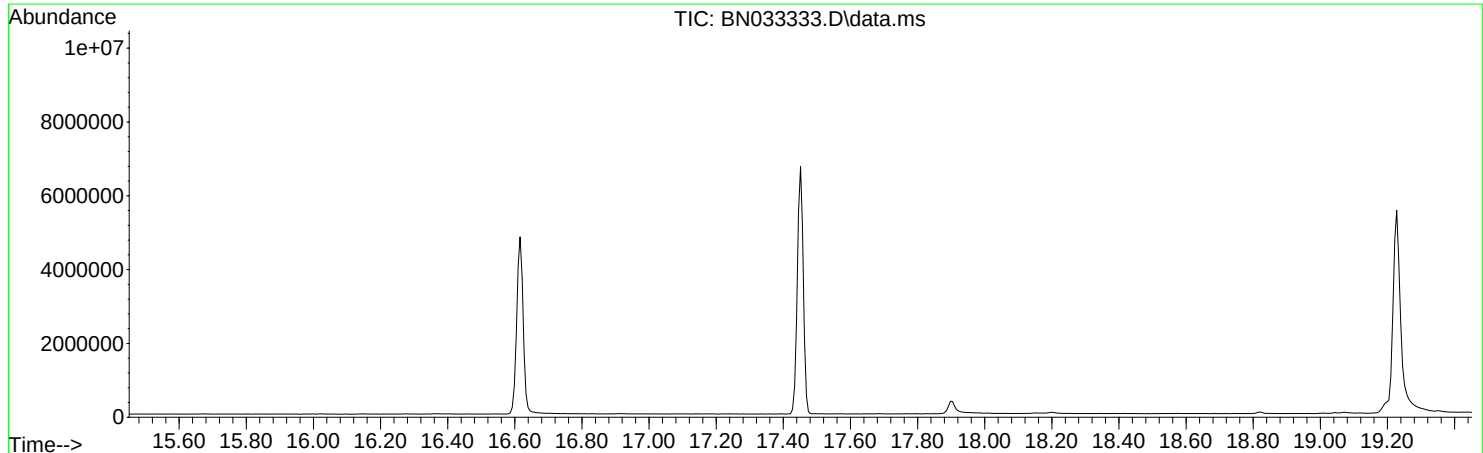
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033333.D
Acq On : 10 Aug 2024 12:56
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-BN081024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 12 01:09:50 2024



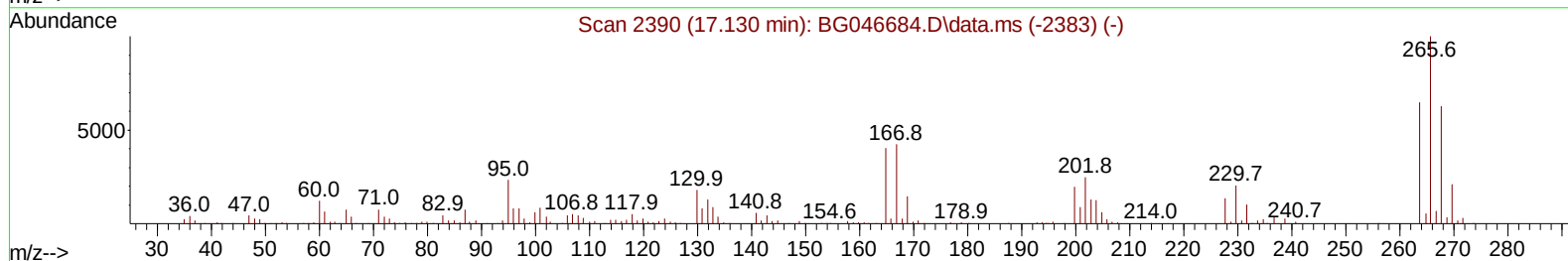
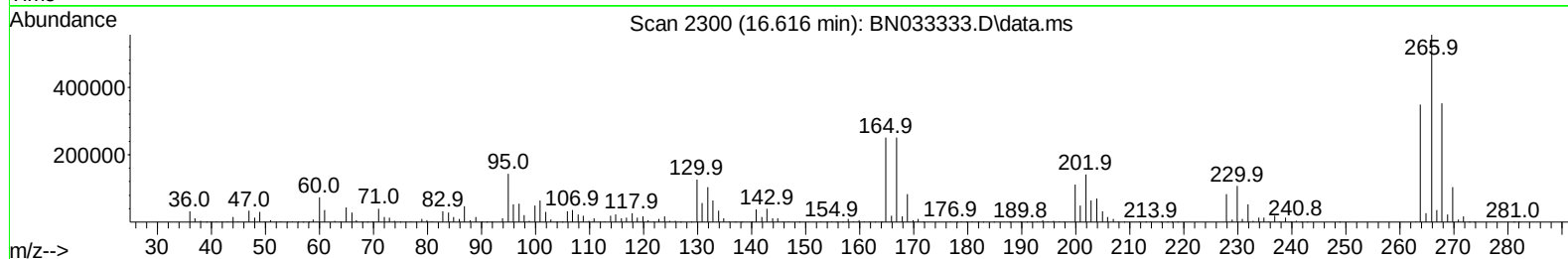
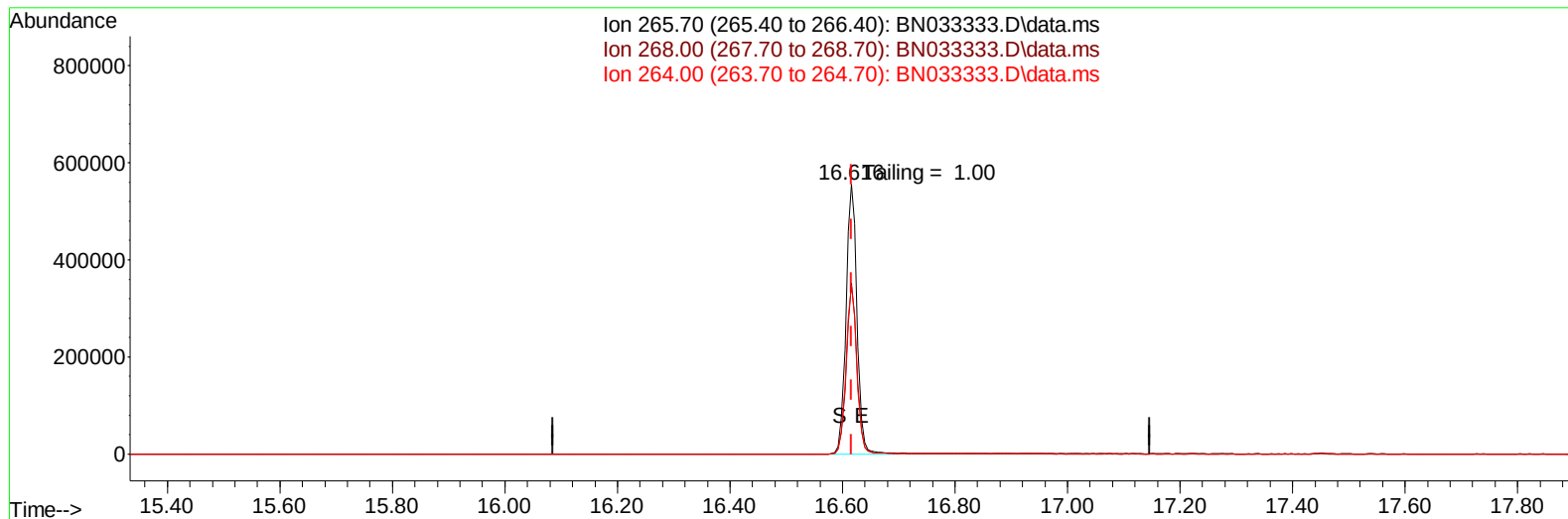
AutoFind: Scans 2441, 2442, 2443; Background Corrected with Scan 2434

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.8	266166	PASS
68	69	0.00	2	1.6	4158	PASS
69	198	0.00	100	39.9	260350	PASS
70	69	0.00	2	0.5	1290	PASS
127	198	10	80	50.0	325931	PASS
197	198	0.00	2	0.2	1035	PASS
198	198	100	100	100.0	651947	PASS
199	198	5	9	7.1	46043	PASS
275	198	10	60	27.0	175979	PASS
365	198	1	100	3.4	22312	PASS
441	198	0.01	100	10.6	69197	PASS
442	442	50	100	100.0	465856	PASS
443	442	15	24	19.0	88587	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033333.D
Acq On : 10 Aug 2024 12:56
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 12 01:45:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 01:45:39 2024
Response via : Initial Calibration



TIC: BN033333.D\data.ms

(70) Pentachlorophenol (C)

16.616min (0.000) 24511.53 ng

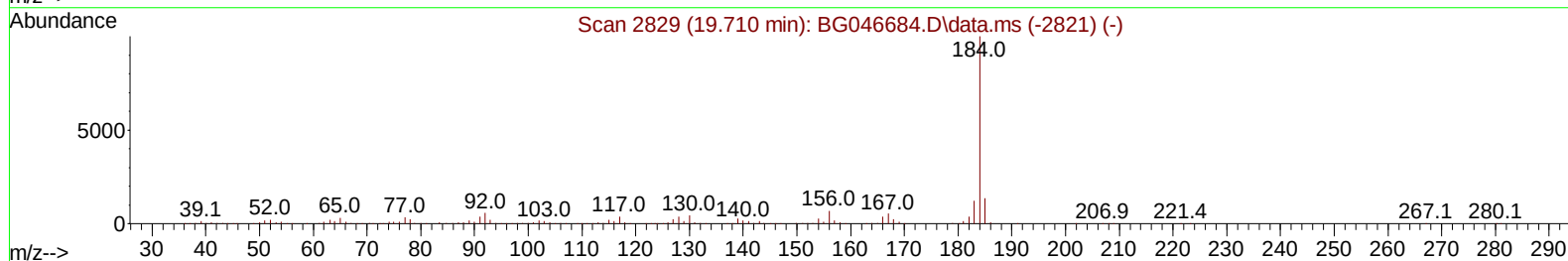
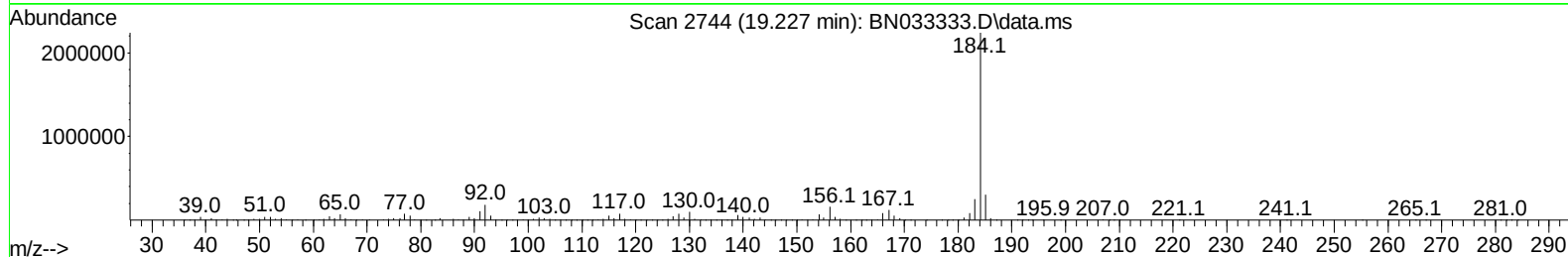
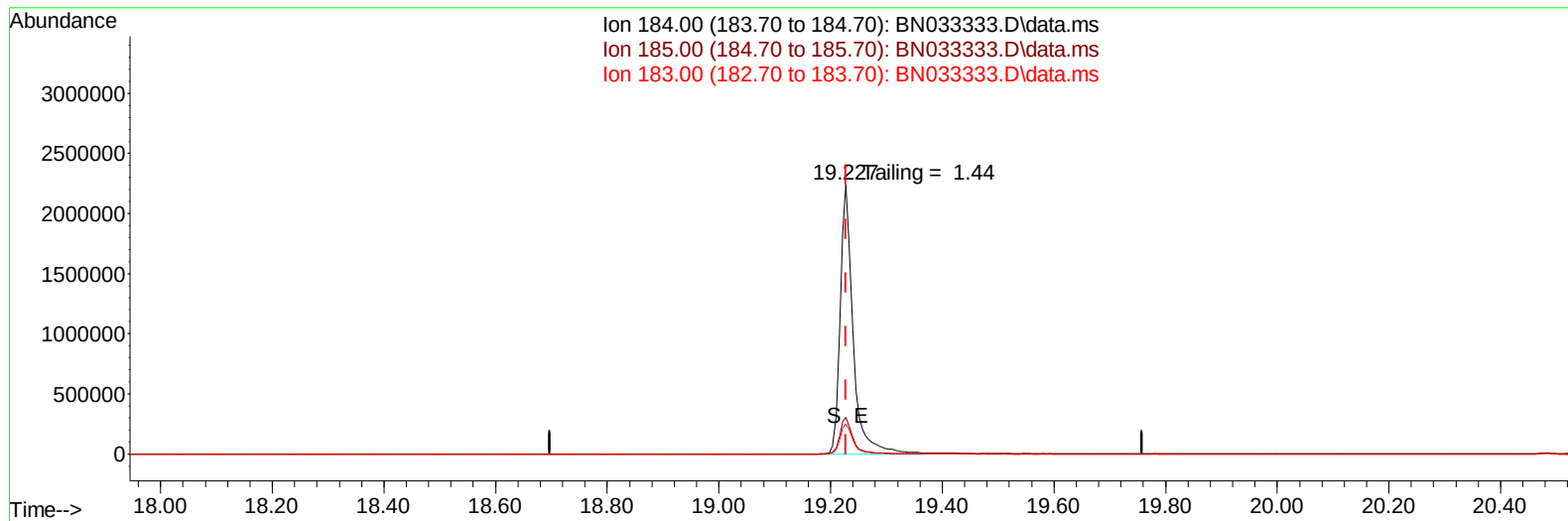
response 755976

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.43
264.00	61.60	62.61
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033333.D
Acq On : 10 Aug 2024 12:56
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 12 01:45:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 01:45:39 2024
Response via : Initial Calibration



TIC: BN033333.D\data.ms

(77) Benzidine

19.227min (0.000) 0.00 ng

response 3645162

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.61
183.00	13.20	11.18
0.00	0.00	0.00

DDT Breakdown

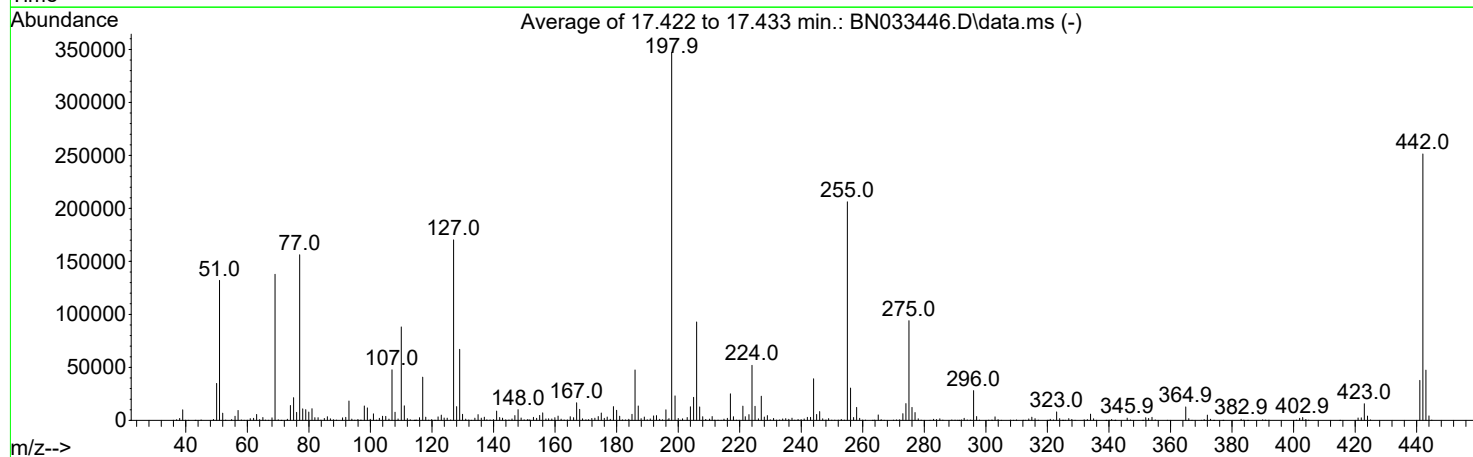
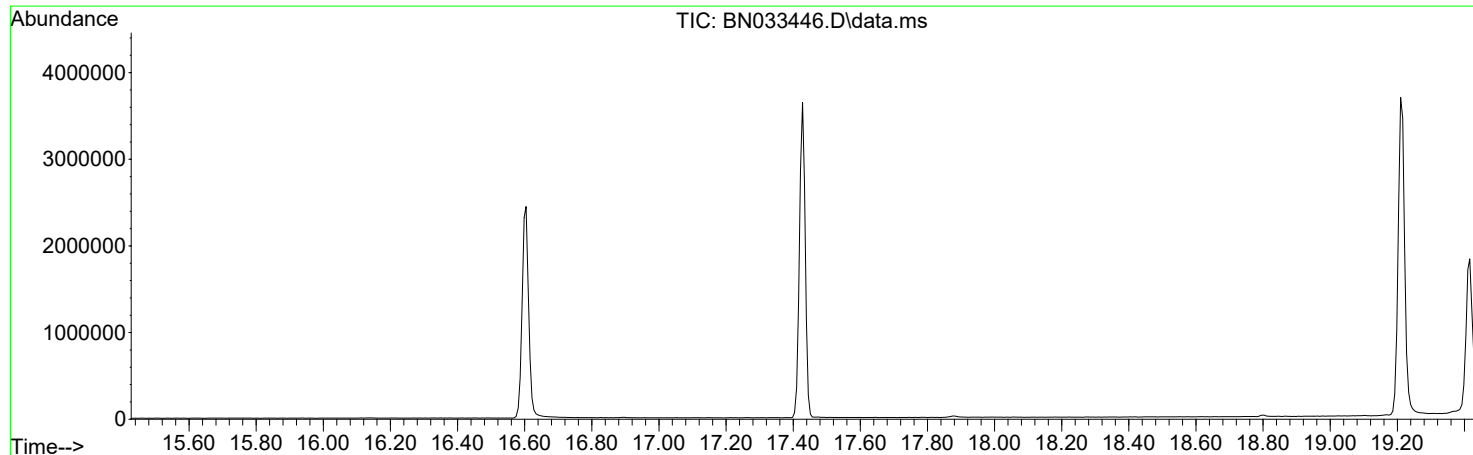
Date	Instrument Name	DFTPP Data File
8/10/2024	BNA_N	<u>BN033333.D</u>
Compound Name	Response	Retention Time
DDT	2334042	20.48
DDD	52614	20.039
DDE	483	19.533
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
53097	2387139	2.22

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081724\
Data File : BN033446.D
Acq On : 17 Aug 2024 01:08
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Aug 16 04:44:11 2024



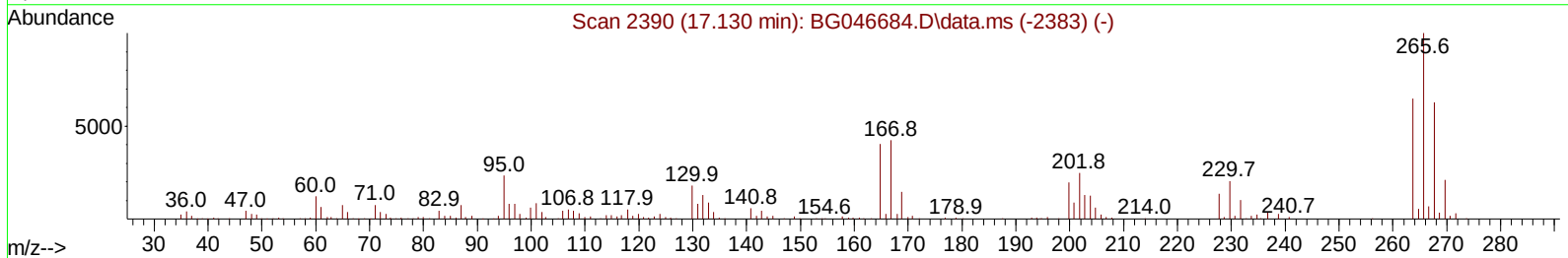
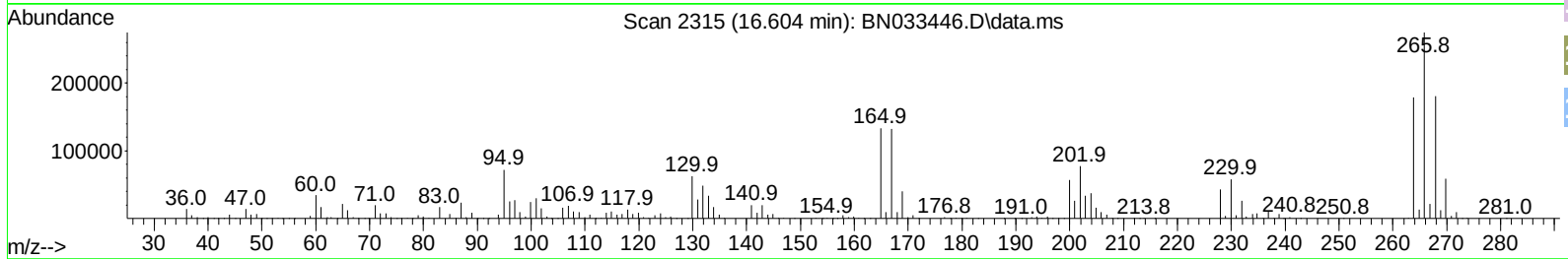
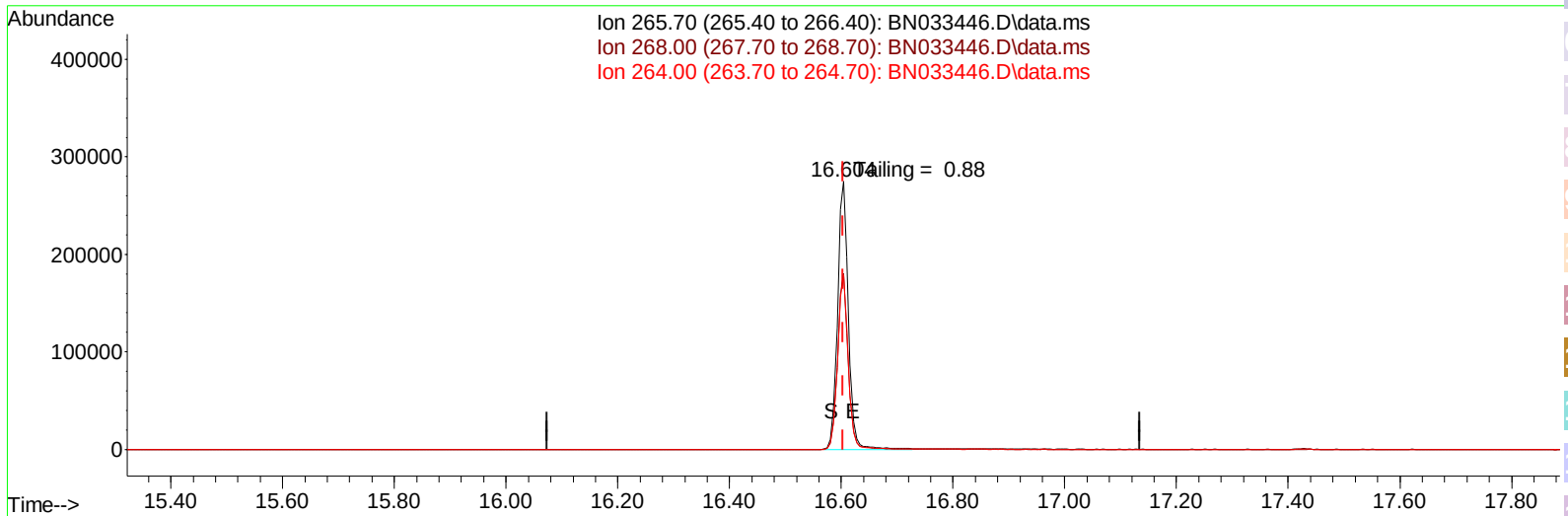
AutoFind: Scans 2454, 2455, 2456; Background Corrected with Scan 2447

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.1	132082	PASS
68	69	0.00	2	1.8	2448	PASS
69	198	0.00	100	39.7	137843	PASS
70	69	0.00	2	0.5	685	PASS
127	198	10	80	49.1	170261	PASS
197	198	0.00	2	0.5	1737	PASS
198	198	100	100	100.0	347093	PASS
199	198	5	9	6.7	23160	PASS
275	198	10	60	27.1	94128	PASS
365	198	1	100	3.7	12764	PASS
441	198	0.01	100	10.9	37808	PASS
442	442	50	100	100.0	251392	PASS
443	442	15	24	18.9	47464	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081724\
Data File : BN033446.D
Acq On : 17 Aug 2024 01:08
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 17 03:20:14 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 17 03:18:59 2024
Response via : Initial Calibration



TIC: BN033446.D\data.ms

(70) Pentachlorophenol (C)

16.604min (+ 0.000) 19890.98 ng

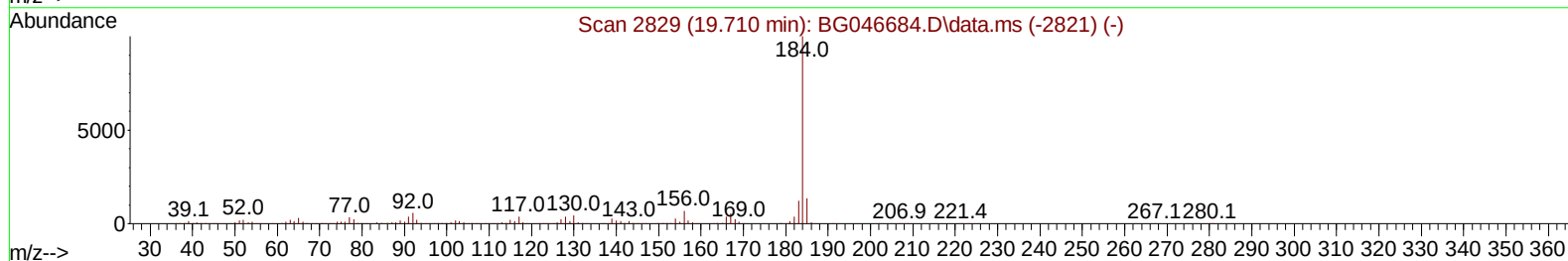
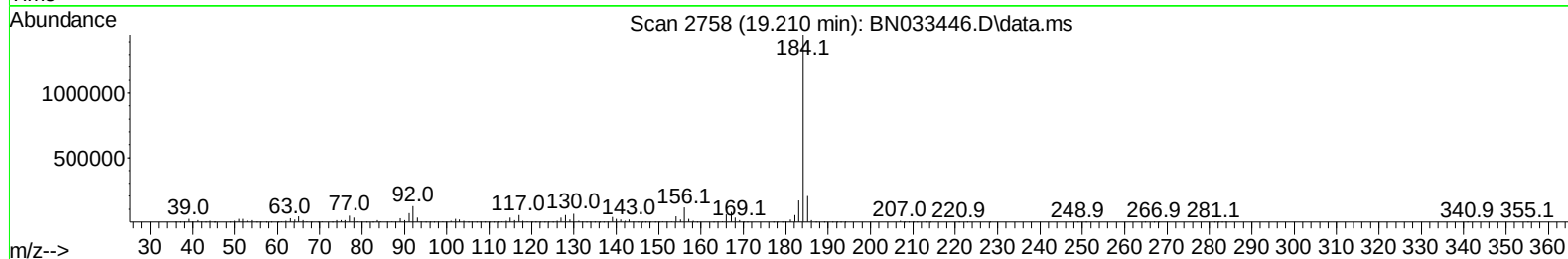
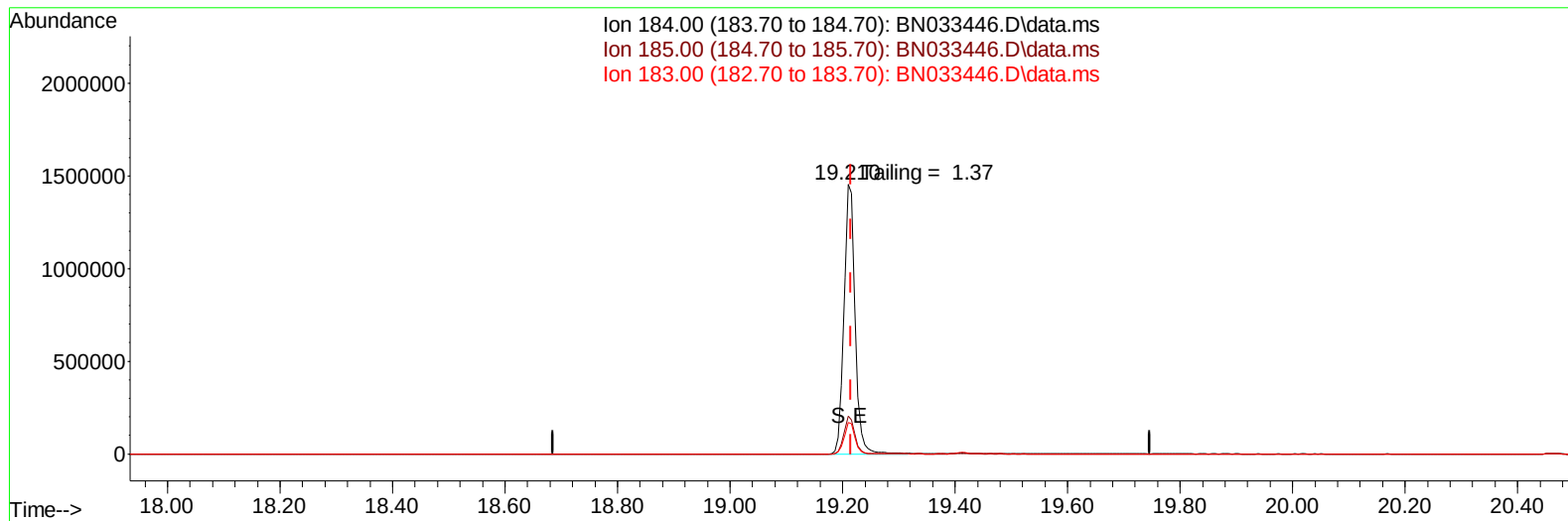
response 372297

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.72
264.00	61.60	65.09
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081724\
Data File : BN033446.D
Acq On : 17 Aug 2024 01:08
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 17 03:20:14 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 17 03:18:59 2024
Response via : Initial Calibration



TIC: BN033446.D\data.ms

(77) Benzidine

19.210min (-0.006) 0.00 ng

response 2014139

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.98
183.00	13.20	11.59
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

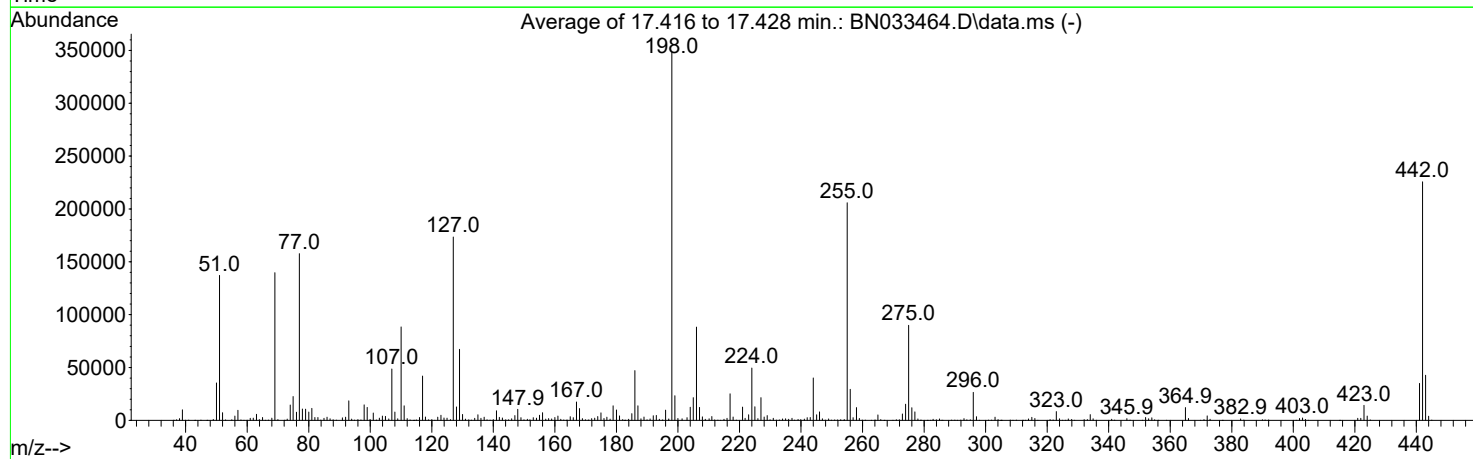
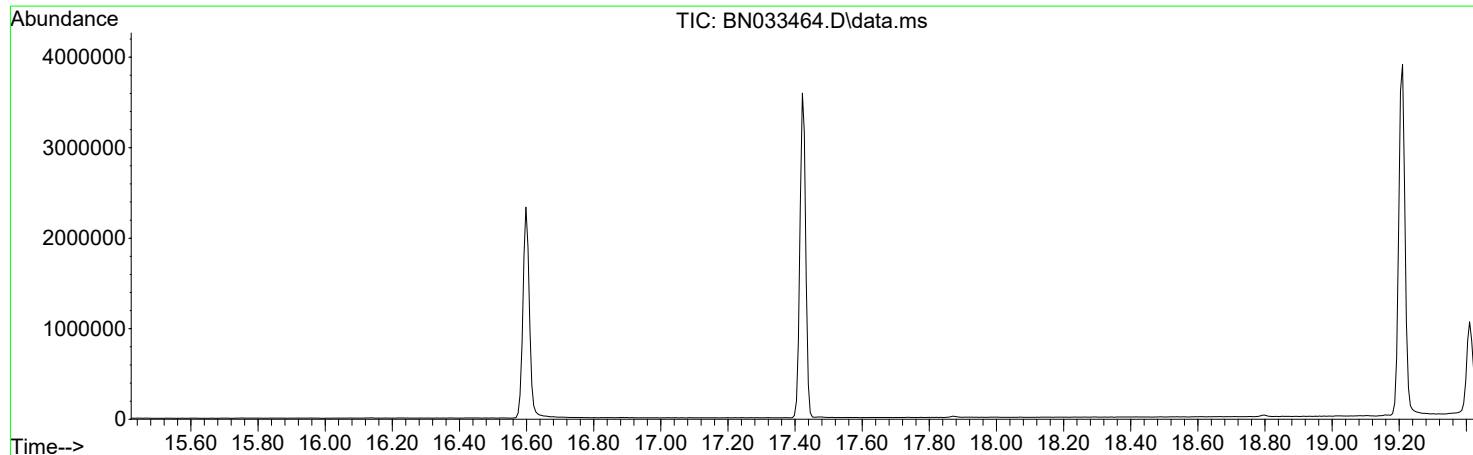
Date	Instrument Name	DFTPP Data File
8/17/2024	BNA_N	<u>BN033446.D</u>
Compound Name	Response	Retention Time
DDT	944309	20.463
DDD	72572	20.022
DDE	2201	19.51
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
74773	1019082	7.34

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081824\
Data File : BN033464.D
Acq On : 17 Aug 2024 12:05
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Aug 16 04:44:11 2024



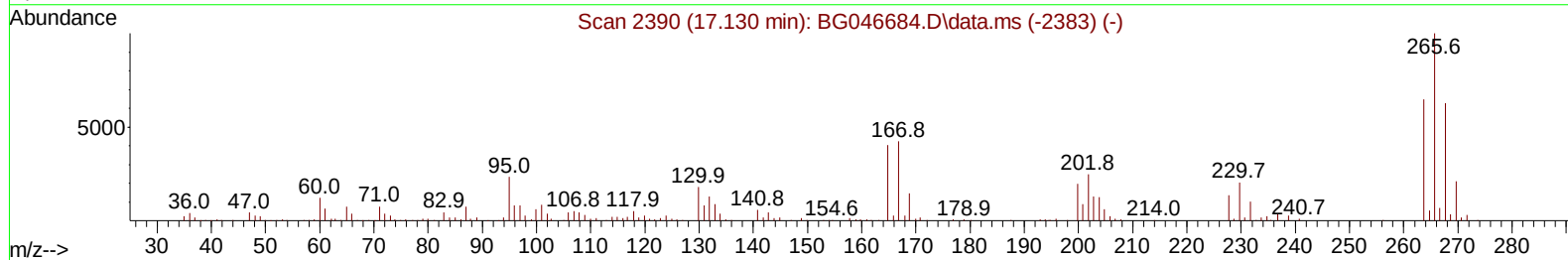
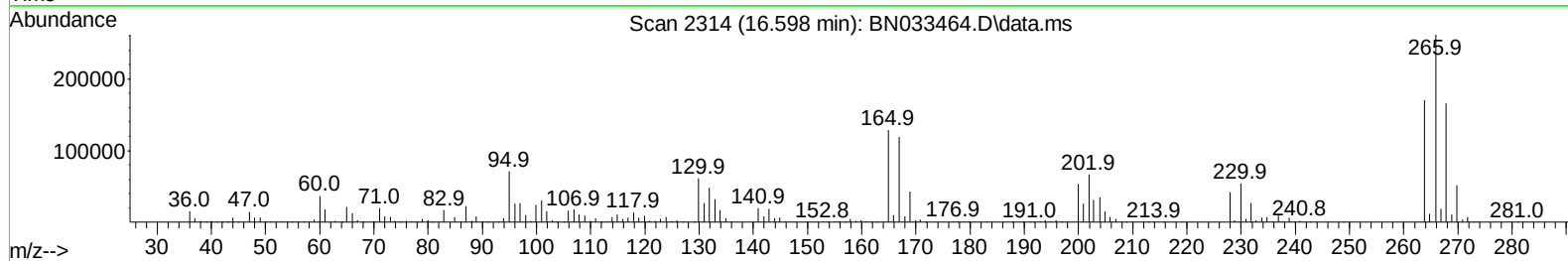
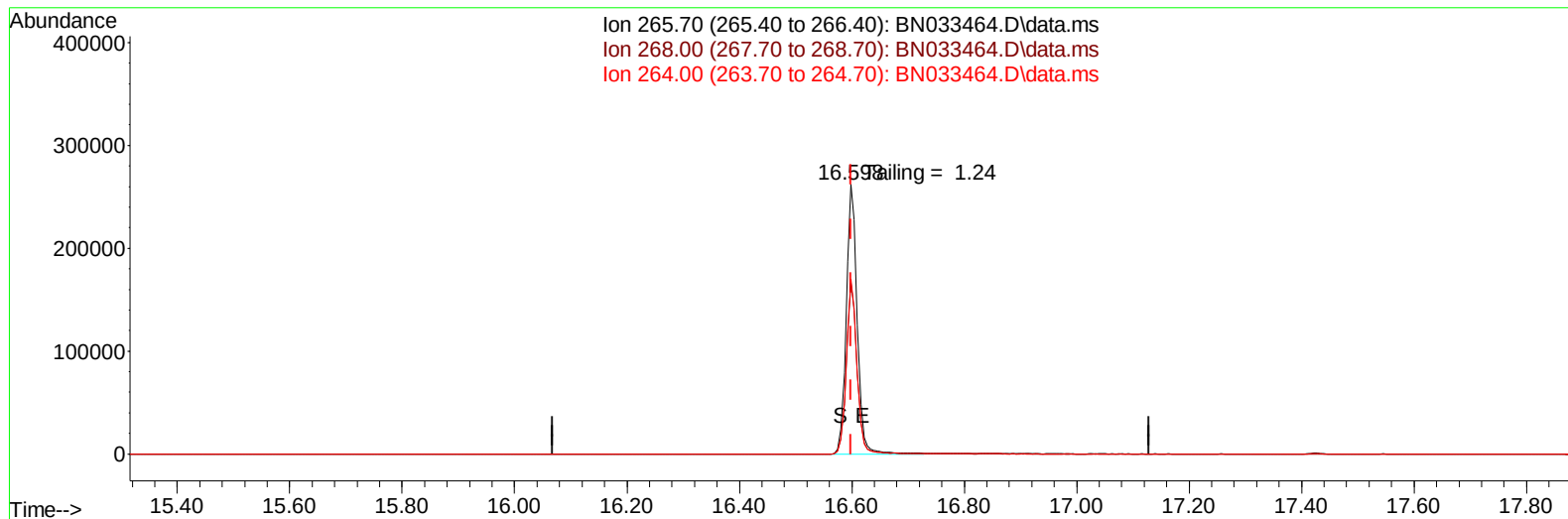
AutoFind: Scans 2453, 2454, 2455; Background Corrected with Scan 2446

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.4	137124	PASS
68	69	0.00	2	1.6	2183	PASS
69	198	0.00	100	40.1	139656	PASS
70	69	0.00	2	0.5	758	PASS
127	198	10	80	49.8	173461	PASS
197	198	0.00	2	0.4	1307	PASS
198	198	100	100	100.0	347989	PASS
199	198	5	9	6.7	23261	PASS
275	198	10	60	25.9	89979	PASS
365	198	1	100	3.5	12146	PASS
441	198	0.01	100	10.1	35043	PASS
442	442	50	100	100.0	225757	PASS
443	442	15	24	18.9	42704	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081824\
Data File : BN033464.D
Acq On : 17 Aug 2024 12:05
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 18 00:33:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Aug 18 00:33:21 2024
Response via : Initial Calibration



TIC: BN033464.D\data.ms

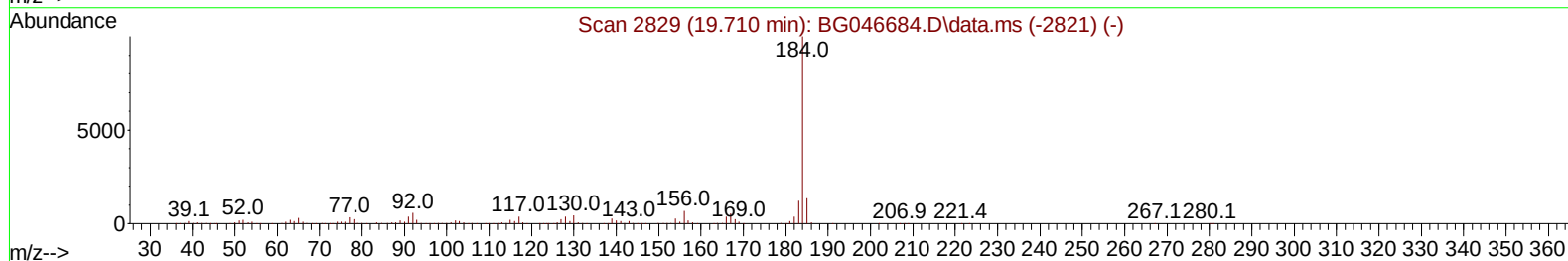
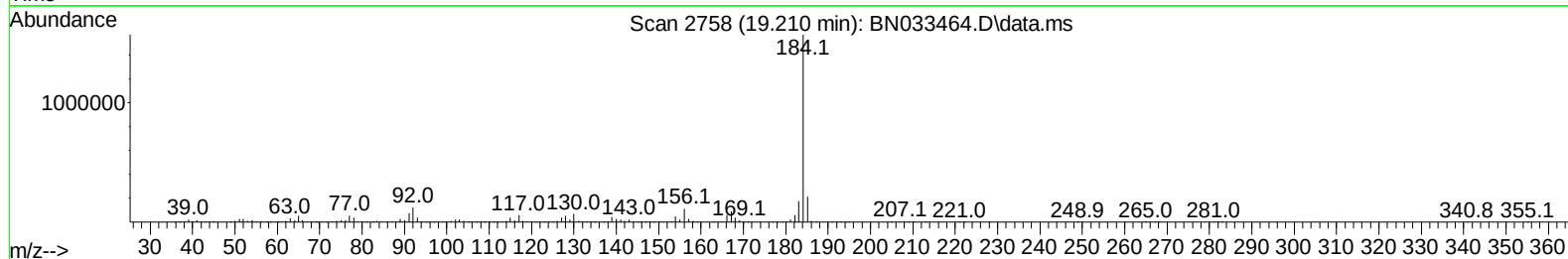
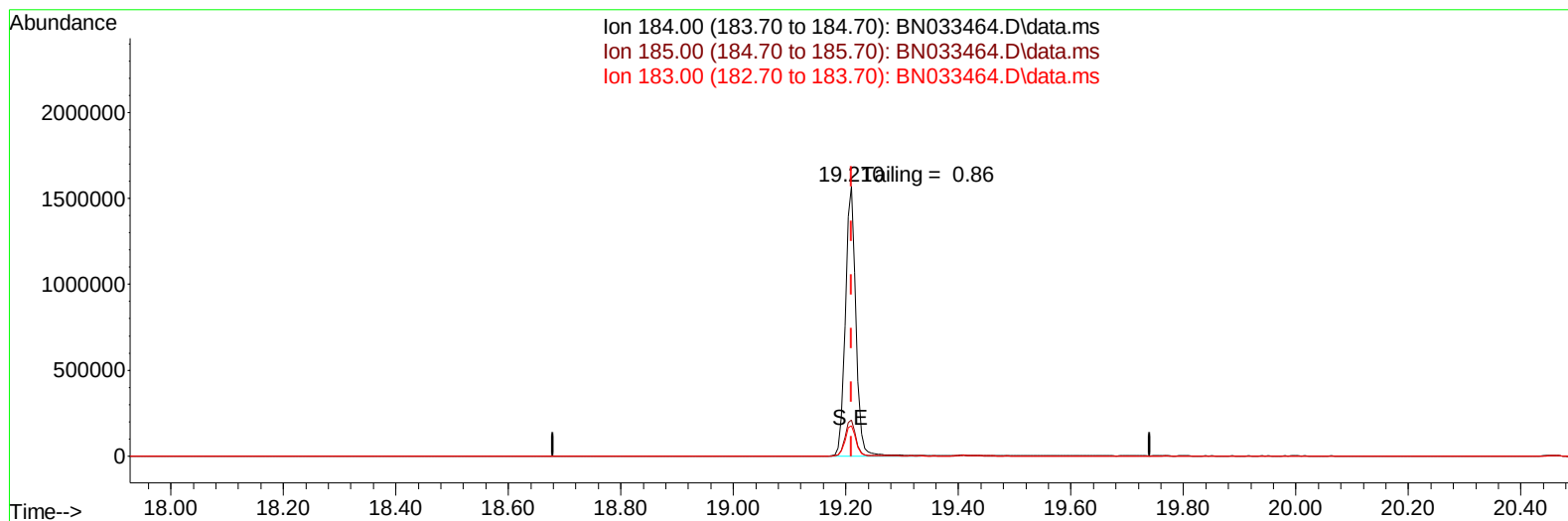
(70) Pentachlorophenol (C)**16.598min (0.000) 21414.02 ng****response 356438**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.53
264.00	61.60	64.95
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081824\
Data File : BN033464.D
Acq On : 17 Aug 2024 12:05
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 18 00:33:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Aug 18 00:33:21 2024
Response via : Initial Calibration



TIC: BN033464.D\data.ms

(77) Benzidine

19.210min (0.000) 0.00 ng

response 2051415

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.42
183.00	13.20	11.26
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/18/2024	BNA_N	<u>BN033464.D</u>
Compound Name	Response	Retention Time
DDT	861928	20.457
DDD	113828	20.016
DDE	25105	19.51
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
138933	1000861	13.88

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162758BL	SDG No.:	P3609
Lab Sample ID:	PB162758BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033448.D	1	08/15/24 08:23	08/17/24 02:24	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.020	U	0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.020	U	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.020	U	0.020	0.10	ug/L
120-12-7	Anthracene	0.020	U	0.020	0.10	ug/L
206-44-0	Fluoranthene	0.020	U	0.020	0.10	ug/L
129-00-0	Pyrene	0.020	U	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.10	ug/L
218-01-9	Chrysene	0.030	U	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	U	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.030	U	0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.30		30 (20) - 150 (139)	76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 (30) - 150 (150)	77%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		30 (27) - 130 (123)	96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		30 (34) - 130 (132)	88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		30 (35) - 130 (157)	109%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7580	7.567			
1146-65-2	Naphthalene-d8	19500	10.325			
15067-26-2	Acenaphthene-d10	7970	14.199			
1517-22-2	Phenanthrene-d10	15500	16.942			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162758BL	SDG No.:	P3609
Lab Sample ID:	PB162758BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033448.D	1	08/15/24 08:23	08/17/24 02:24	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	12100	21.148			
1520-96-3	Perylene-d12	13600	23.32			

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\BN081724\
Data File : BN033448.D
Acq On : 17 Aug 2024 02:24
Operator : MA/JU
Sample : PB162758BL
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162758BL

Quant Time: Aug 17 02:59:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	7577	0.400	ng	0.00
7) Naphthalene-d8	10.325	136	19459	0.400	ng	#-0.01
13) Acenaphthene-d10	14.199	164	7966	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	15538	0.400	ng	-0.01
29) Chrysene-d12	21.148	240	12119	0.400	ng	0.00
35) Perylene-d12	23.320	264	13565	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.198	112	7037	0.336	ng	0.00
5) Phenol-d6	6.750	99	7753	0.274	ng	0.00
8) Nitrobenzene-d5	8.691	82	5653	0.385	ng	-0.01
11) 2-Methylnaphthalene-d10	11.922	152	9068	0.303	ng	0.00
14) 2,4,6-Tribromophenol	15.700	330	638	0.156	ng	0.00
15) 2-Fluorobiphenyl	12.820	172	11516	0.353	ng	0.00
27) Fluoranthene-d10	18.984	212	12881	0.310	ng	0.00
31) Terphenyl-d14	19.602	244	9983	0.436	ng	0.00

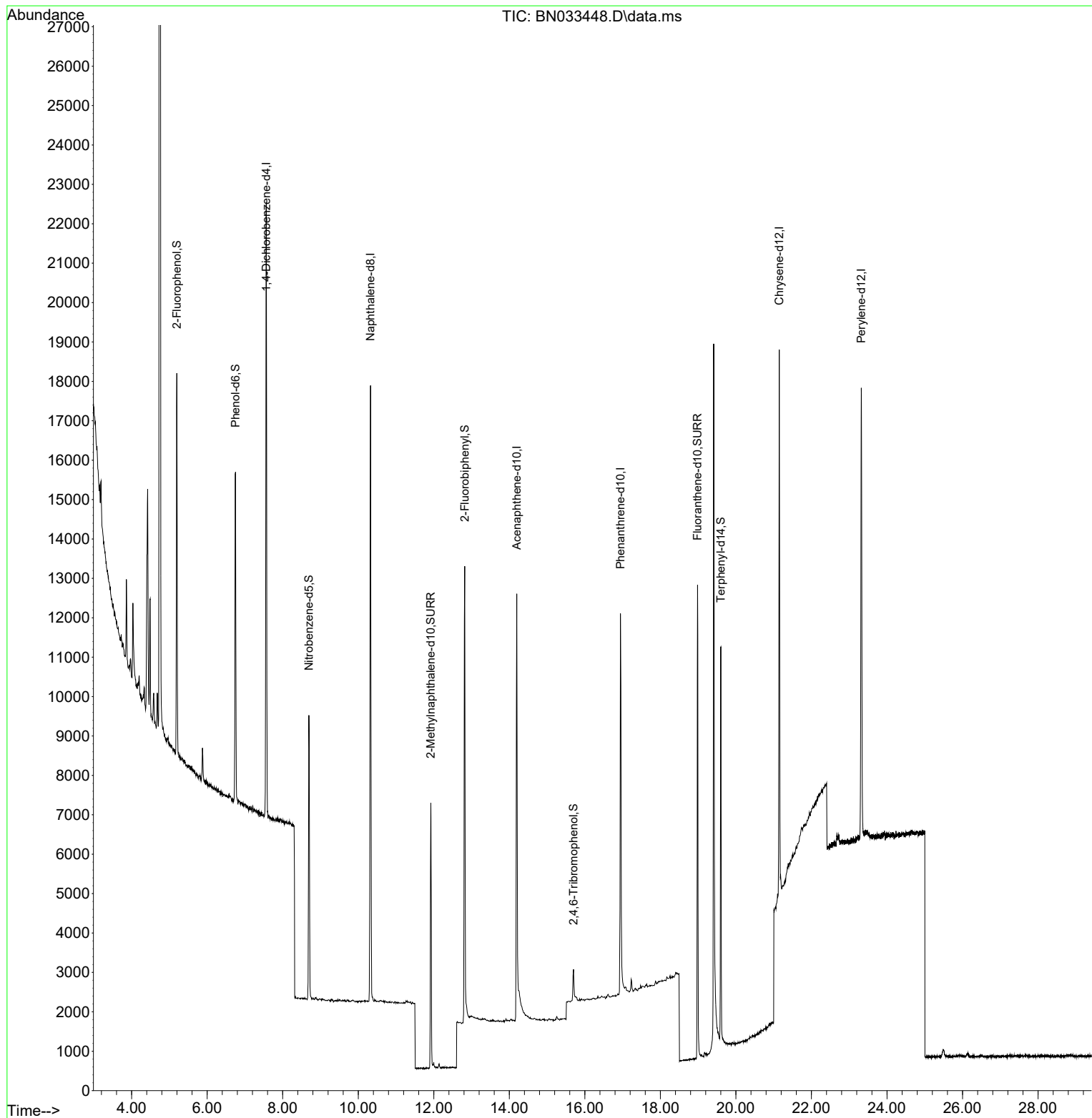
Target Compounds	Qvalue

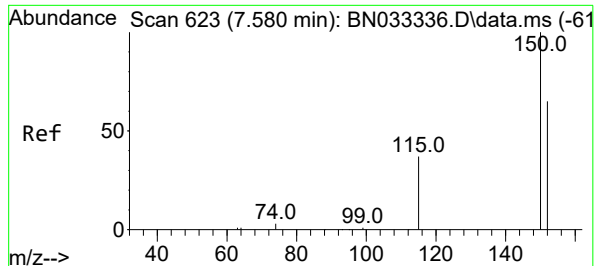
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081724\
Data File : BN033448.D
Acq On : 17 Aug 2024 02:24
Operator : MA/JU
Sample : PB162758BL
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162758BL

Quant Time: Aug 17 02:59:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 2024
Response via : Initial Calibration

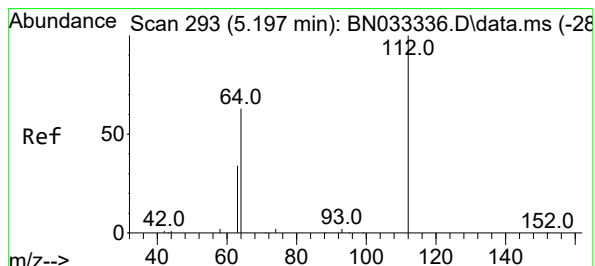
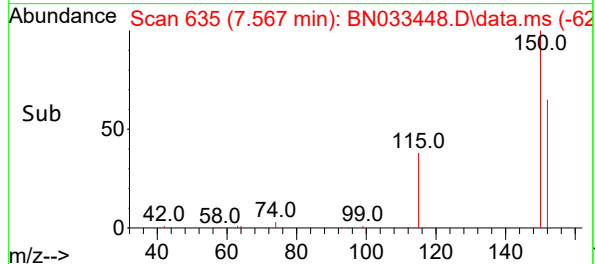
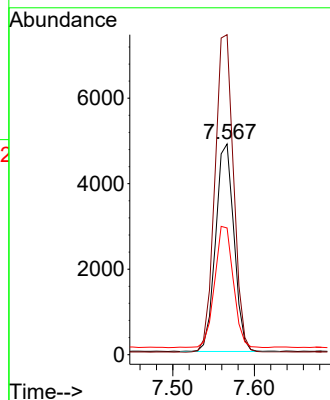
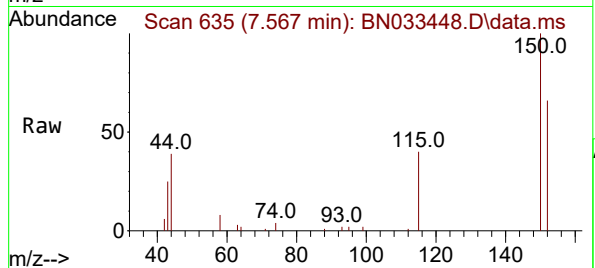




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.567 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24

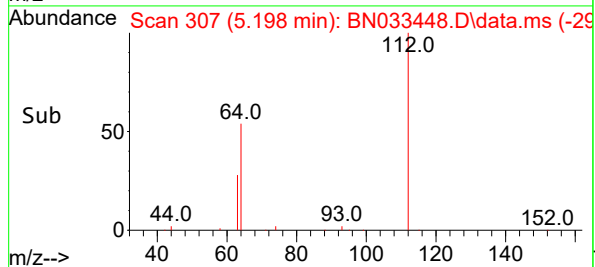
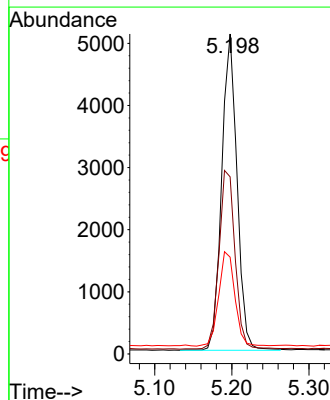
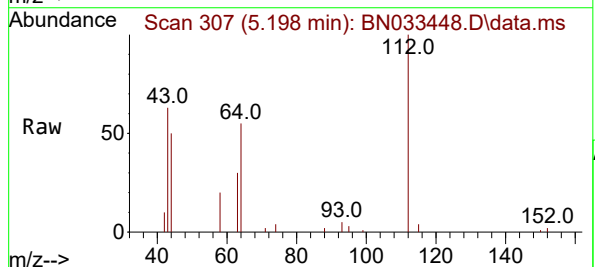
Instrument :
BNA_N
ClientSampleId :
PB162758BL

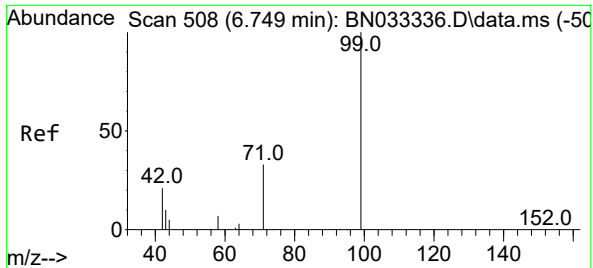
Tgt Ion:152 Resp: 7577
Ion Ratio Lower Upper
152 100
150 151.9 122.3 183.5
115 60.1 48.8 73.2



#4
2-Fluorophenol
Concen: 0.336 ng
RT: 5.198 min Scan# 307
Delta R.T. -0.000 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24

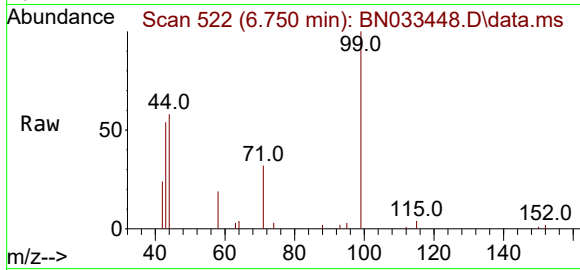
Tgt Ion:112 Resp: 7037
Ion Ratio Lower Upper
112 100
64 59.4 48.1 72.1
63 31.4 25.4 38.2



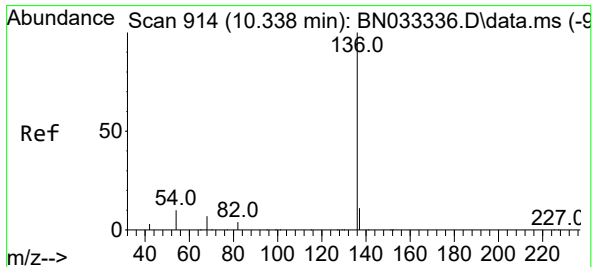
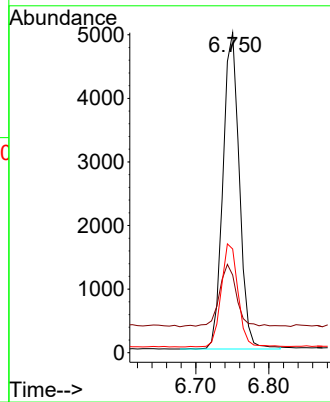
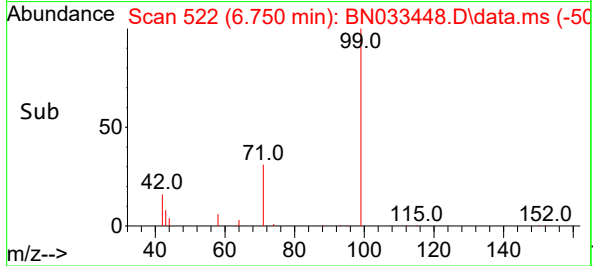


#5
Phenol-d6
Concen: 0.274 ng
RT: 6.750 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24

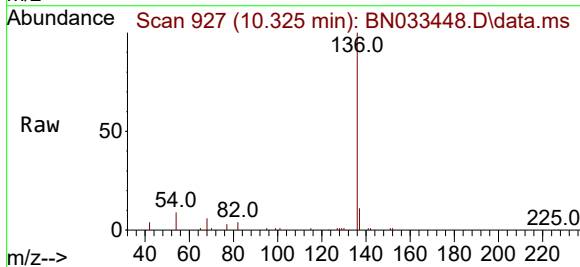
Instrument :
BNA_N
ClientSampleId :
PB162758BL



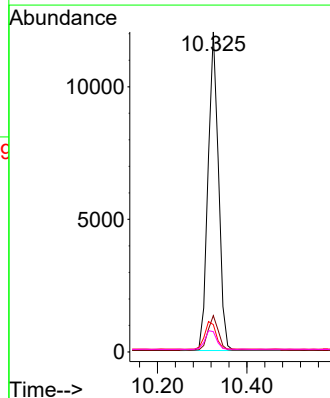
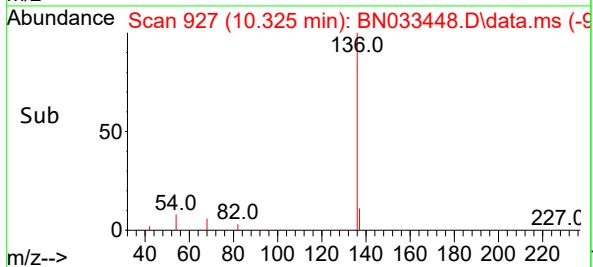
Tgt Ion: 99 Resp: 7753
Ion Ratio Lower Upper
99 100
42 21.0 18.5 27.7
71 33.7 26.2 39.2

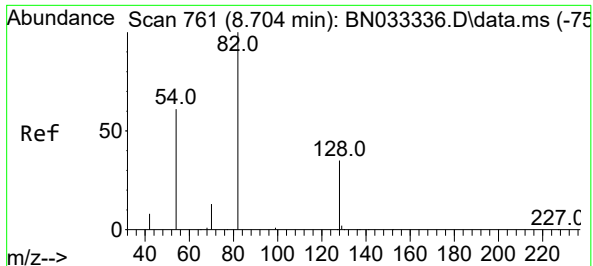


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.325 min Scan# 927
Delta R.T. -0.011 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24



Tgt Ion: 136 Resp: 19459
Ion Ratio Lower Upper
136 100
137 11.3 9.1 13.7
54 8.6 9.4 14.0#
68 6.3 7.0 10.4#

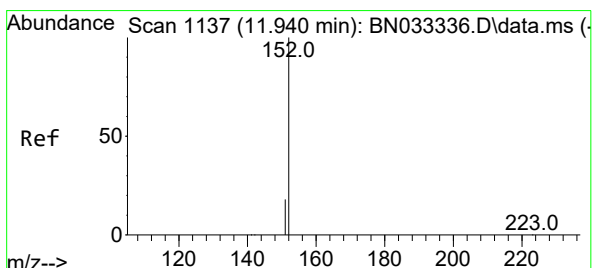
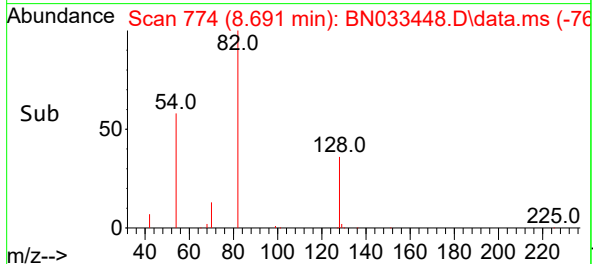
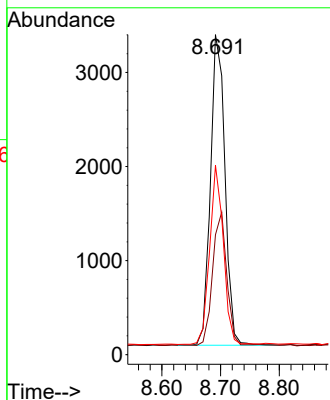
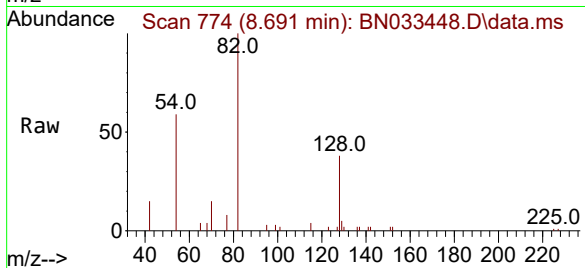




#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.691 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24

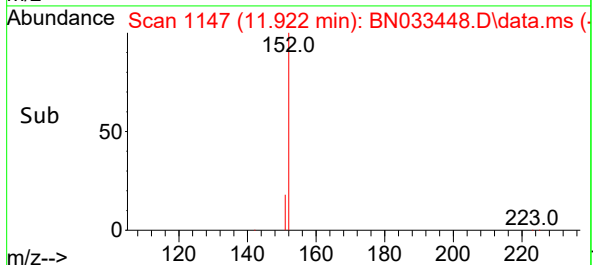
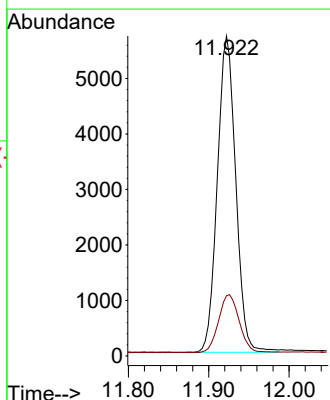
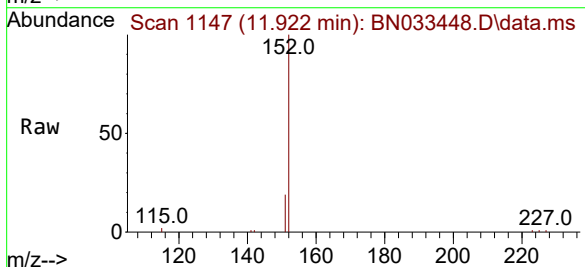
Instrument :
BNA_N
ClientSampleId :
PB162758BL

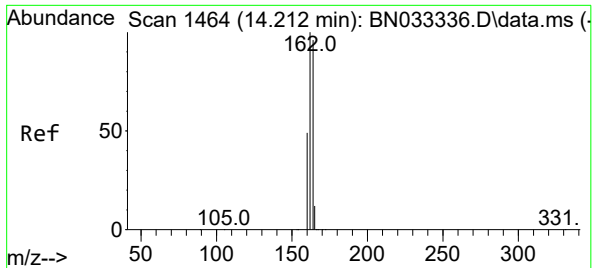
Tgt Ion	Ratio	Lower	Upper
82	100		
128	37.5	29.0	43.4
54	59.1	50.2	75.4



#11
2-Methylnaphthalene-d10
Concen: 0.303 ng
RT: 11.922 min Scan# 1147
Delta R.T. -0.008 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.7	25.1

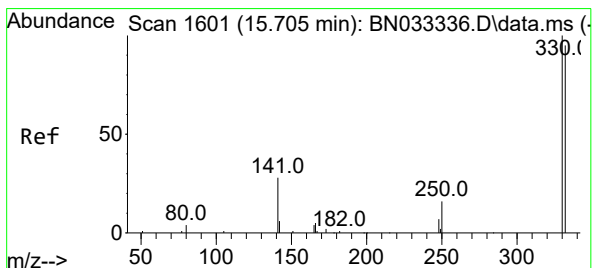
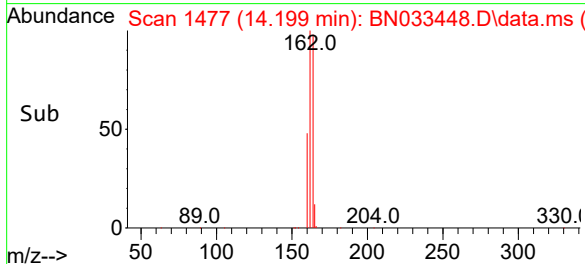
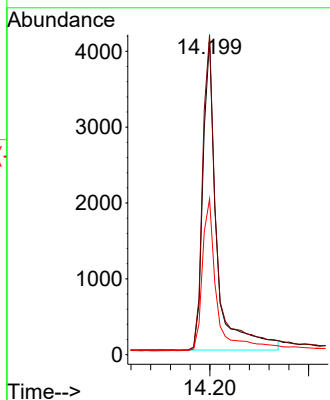
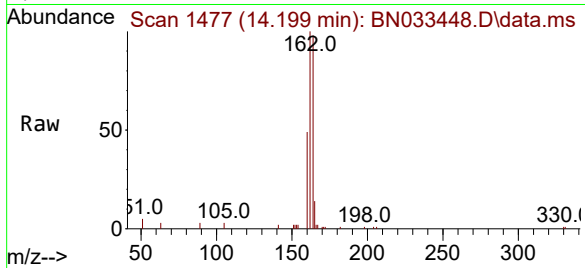




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.199 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24

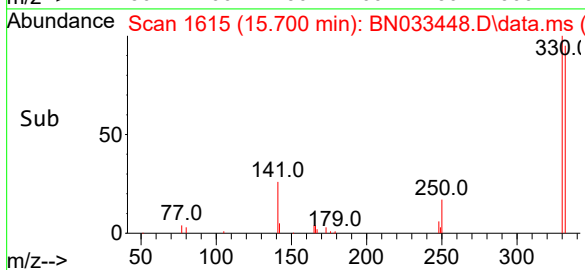
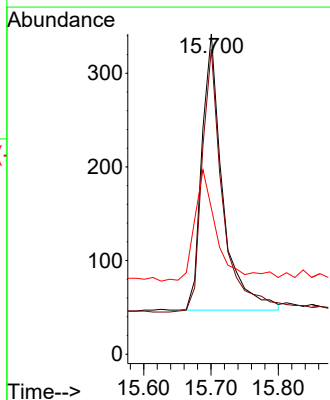
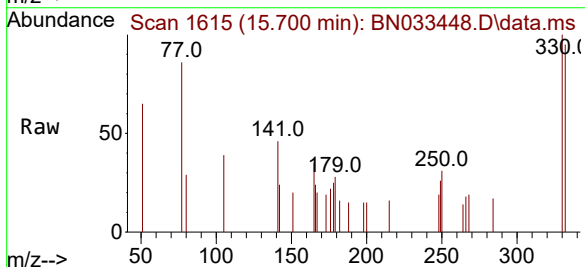
Instrument :
BNA_N
ClientSampleId :
PB162758BL

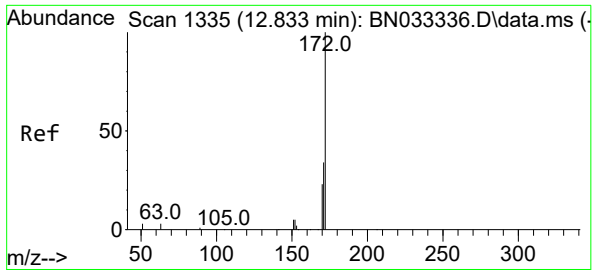
Tgt Ion:164 Resp: 7966
Ion Ratio Lower Upper
164 100
162 101.6 83.1 124.7
160 49.4 41.1 61.7



#14
2,4,6-Tribromophenol
Concen: 0.156 ng
RT: 15.700 min Scan# 1615
Delta R.T. -0.000 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24

Tgt Ion:330 Resp: 638
Ion Ratio Lower Upper
330 100
332 95.5 77.1 115.7
141 44.2 33.4 50.0

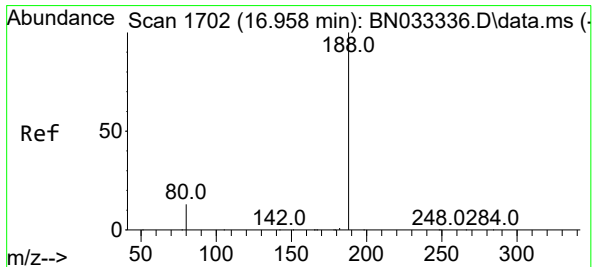
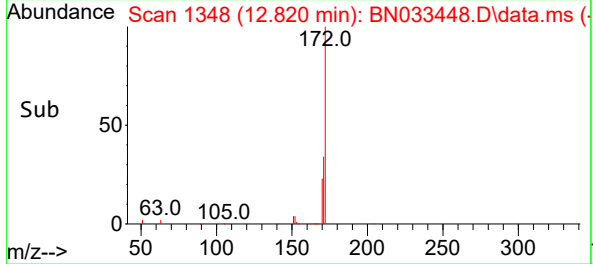
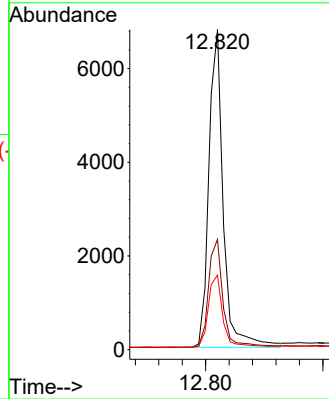
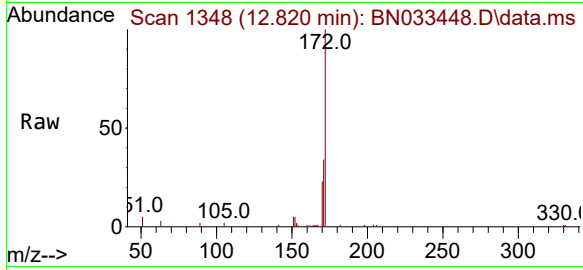




#15
2-Fluorobiphenyl
Concen: 0.353 ng
RT: 12.820 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24

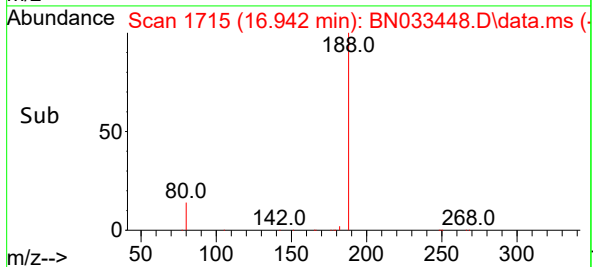
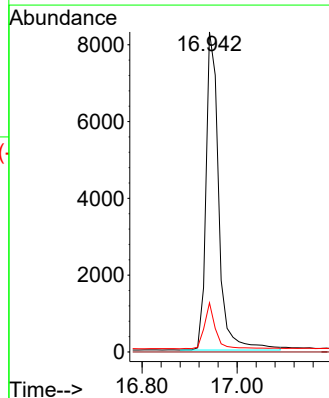
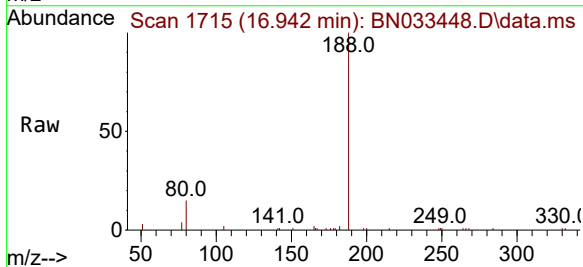
Instrument :
BNA_N
ClientSampleId :
PB162758BL

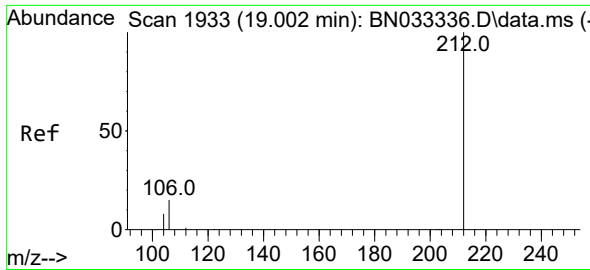
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	27.8	41.8
170	23.3	18.7	28.1



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1715
Delta R.T. -0.012 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.3	10.7	16.1





#27

Fluoranthene-d10

Concen: 0.310 ng

RT: 18.984 min Scan# 1933

Delta R.T. -0.009 min

Lab File: BN033448.D

Acq: 17 Aug 2024 02:24

Instrument :

BNA_N

ClientSampleId :

PB162758BL

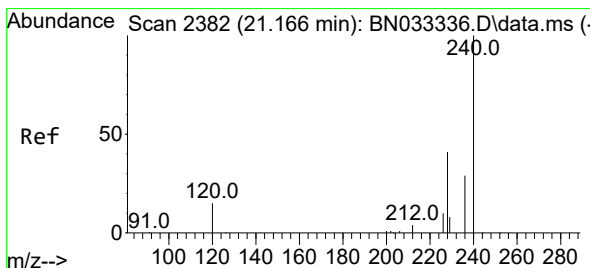
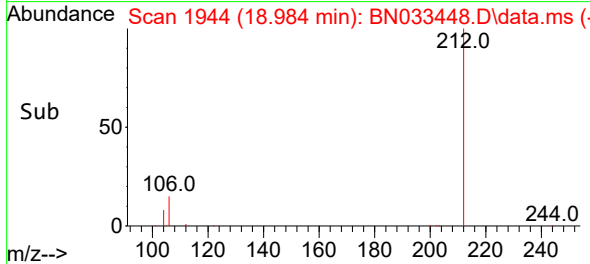
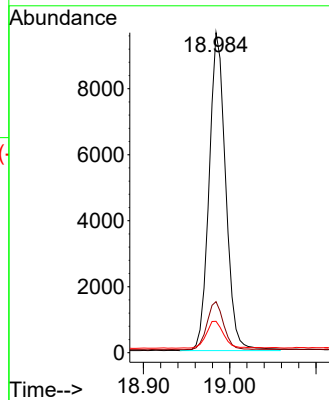
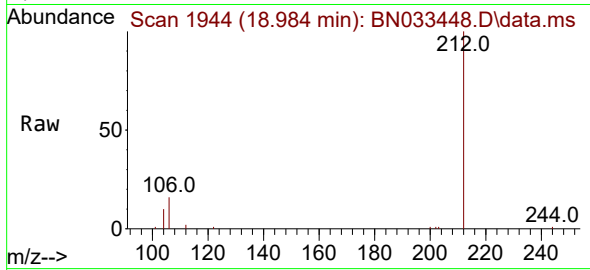
Tgt Ion:212 Resp: 12881

Ion Ratio Lower Upper

212 100

106 15.3 12.8 19.2

104 8.8 7.1 10.7



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 2395

Delta R.T. -0.009 min

Lab File: BN033448.D

Acq: 17 Aug 2024 02:24

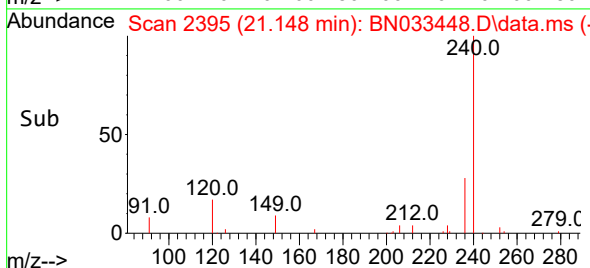
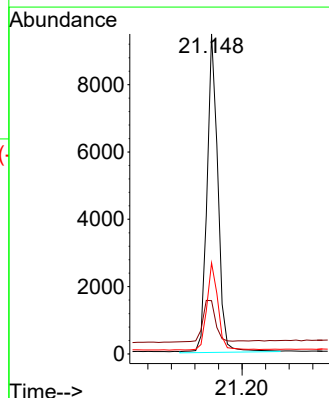
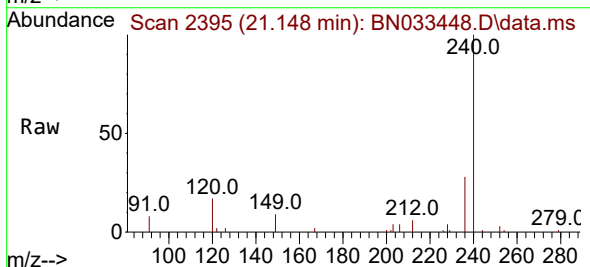
Tgt Ion:240 Resp: 12119

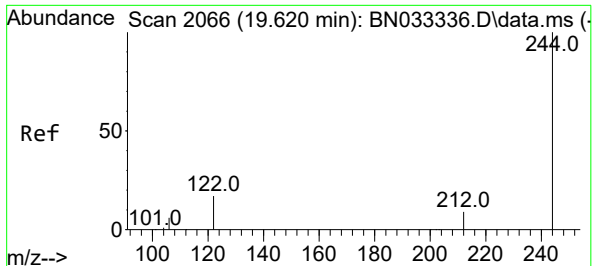
Ion Ratio Lower Upper

240 100

120 16.7 13.0 19.6

236 28.5 23.2 34.8

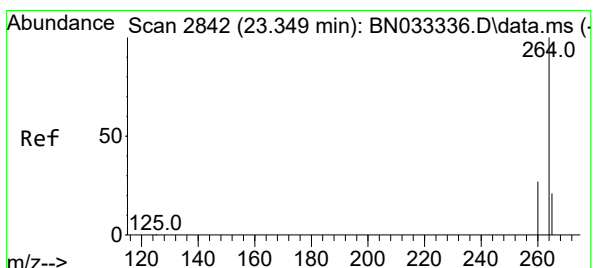
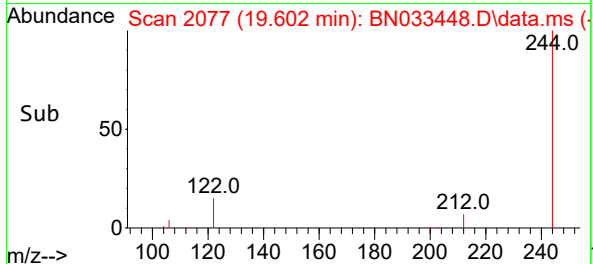
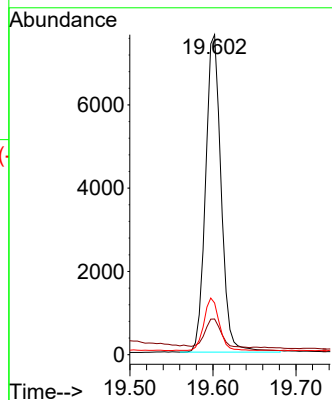
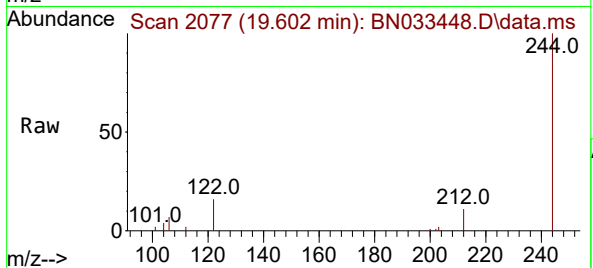




#31
Terphenyl-d14
Concen: 0.436 ng
RT: 19.602 min Scan# 2066
Delta R.T. -0.005 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24

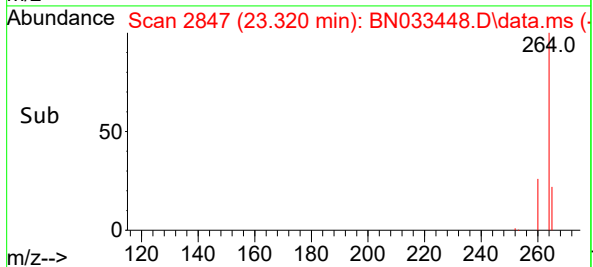
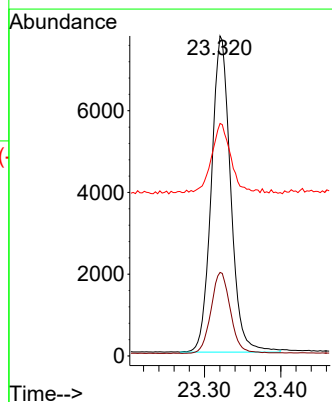
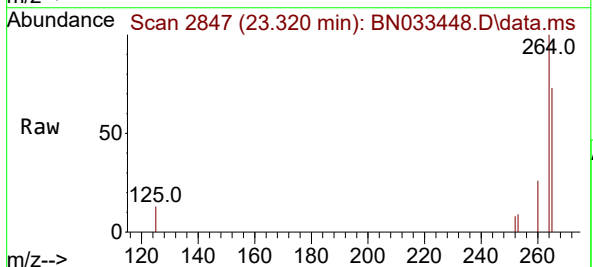
Instrument :
BNA_N
ClientSampleId :
PB162758BL

Tgt Ion:244 Resp: 9983
Ion Ratio Lower Upper
244 100
212 11.1 7.7 11.5
122 16.2 14.0 21.0



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.320 min Scan# 2847
Delta R.T. -0.012 min
Lab File: BN033448.D
Acq: 17 Aug 2024 02:24

Tgt Ion:264 Resp: 13565
Ion Ratio Lower Upper
264 100
260 26.1 21.6 32.4
265 72.6 29.3 43.9#



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162758BS	SDG No.:	P3609
Lab Sample ID:	PB162758BS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033461.D	1	08/15/24 08:23	08/17/24 10:16	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.37		0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.33		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.33		0.020	0.10	ug/L
83-32-9	Acenaphthene	0.35		0.020	0.10	ug/L
86-73-7	Fluorene	0.32		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.36		0.020	0.10	ug/L
120-12-7	Anthracene	0.35		0.020	0.10	ug/L
206-44-0	Fluoranthene	0.32		0.020	0.10	ug/L
129-00-0	Pyrene	0.39		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.36		0.020	0.10	ug/L
218-01-9	Chrysene	0.37		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.36		0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.35		0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.36		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.37		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.38		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.36		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.37		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.33		30 (20) - 150 (139)	82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 (30) - 150 (150)	80%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		30 (27) - 130 (123)	100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		30 (34) - 130 (132)	94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		30 (35) - 130 (157)	97%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	10400	7.559			
1146-65-2	Naphthalene-d8	28100	10.325			
15067-26-2	Acenaphthene-d10	13100	14.189			
1517-22-2	Phenanthrene-d10	24900	16.942			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162758BS	SDG No.:	P3609
Lab Sample ID:	PB162758BS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033461.D	1	08/15/24 08:23	08/17/24 10:16	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	19100	21.148			
1520-96-3	Perylene-d12	20900	23.323			

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\BN081724\
Data File : BN033461.D
Acq On : 17 Aug 2024 10:16
Operator : MA/JU
Sample : PB162758BS
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162758BS

Quant Time: Aug 17 23:21:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 04:44:11 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	10423	0.400	ng	-0.01
7) Naphthalene-d8	10.325	136	28103	0.400	ng	#-0.01
13) Acenaphthene-d10	14.189	164	13134	0.400	ng	-0.01
19) Phenanthrene-d10	16.942	188	24899	0.400	ng	-0.01
29) Chrysene-d12	21.148	240	19137	0.400	ng	0.00
35) Perylene-d12	23.323	264	20949	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	9976	0.347	ng	0.00
5) Phenol-d6	6.743	99	12130	0.312	ng	0.00
8) Nitrobenzene-d5	8.691	82	8466	0.399	ng	-0.01
11) 2-Methylnaphthalene-d10	11.918	152	14165	0.328	ng	-0.01
14) 2,4,6-Tribromophenol	15.688	330	1912	0.284	ng	-0.01
15) 2-Fluorobiphenyl	12.810	172	20257	0.376	ng	-0.01
27) Fluoranthene-d10	18.984	212	21200	0.319	ng	0.00
31) Terphenyl-d14	19.597	244	14040	0.388	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.190	88	4243	0.366	ng	96
3) n-Nitrosodimethylamine	3.479	42	5114	0.343	ng	# 90
6) bis(2-Chloroethyl)ether	6.996	93	11311	0.359	ng	98
9) Naphthalene	10.368	128	28493	0.368	ng	100
10) Hexachlorobutadiene	10.667	225	5627	0.381	ng	# 99
12) 2-Methylnaphthalene	11.994	142	17259	0.330	ng	99
16) Acenaphthylene	13.911	152	20461	0.334	ng	100
17) Acenaphthene	14.253	154	14560	0.346	ng	98
18) Fluorene	15.247	166	17770	0.320	ng	99
20) 4,6-Dinitro-2-methylph...	15.333	198	495	0.164	ng	# 69
21) 4-Bromophenyl-phenylether	16.147	248	5614	0.377	ng	# 87
22) Hexachlorobenzene	16.259	284	6454	0.386	ng	99
23) Atrazine	16.433	200	4069	0.344	ng	99
24) Pentachlorophenol	16.607	266	2311	0.342	ng	99
25) Phenanthrene	16.979	178	25633	0.356	ng	100
26) Anthracene	17.078	178	22042	0.346	ng	100
28) Fluoranthene	19.017	202	28196	0.318	ng	100
30) Pyrene	19.379	202	29843	0.392	ng	99
32) Benzo(a)anthracene	21.139	228	26006	0.364	ng	99
33) Chrysene	21.184	228	26521	0.369	ng	100
34) Bis(2-ethylhexyl)phtha...	21.104	149	15530	0.478	ng	98
36) Indeno(1,2,3-cd)pyrene	25.484	276	32043	0.370	ng	98
37) Benzo(b)fluoranthene	22.677	252	28164	0.357	ng	96
38) Benzo(k)fluoranthene	22.721	252	27736m	0.345	ng	
39) Benzo(a)pyrene	23.227	252	24018	0.362	ng	# 93
40) Dibenzo(a,h)anthracene	25.501	278	25603	0.375	ng	99
41) Benzo(g,h,i)perylene	26.136	276	27326	0.360	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081724\
 Data File : BN033461.D
 Acq On : 17 Aug 2024 10:16
 Operator : MA/JU
 Sample : PB162758BS
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :

BNA_N

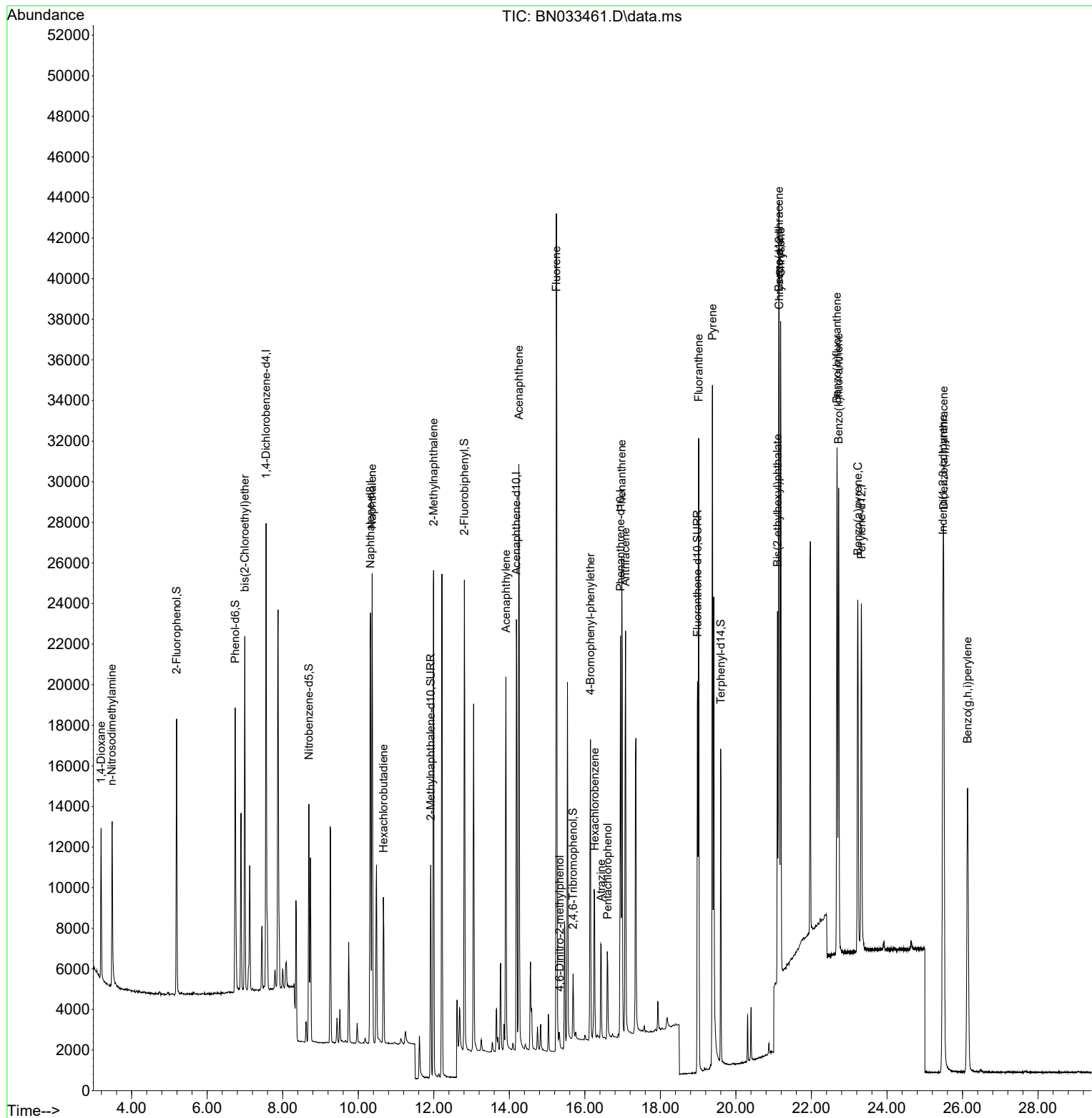
ClientSampleId :

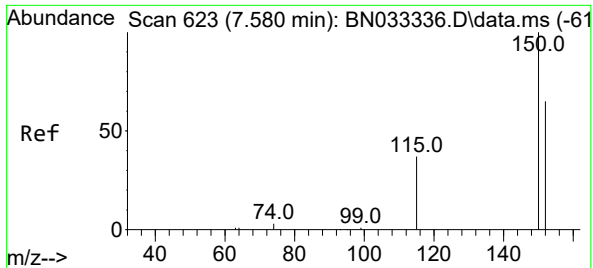
PB162758BS

Manual Integrations**APPROVED**

Reviewed By :Jagrut Upadhyay 08/19/2024
 Supervised By :mohammad ahmed 08/21/2024

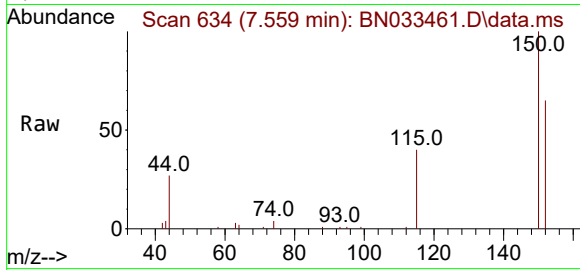
Quant Time: Aug 17 23:21:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 16 04:44:11 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

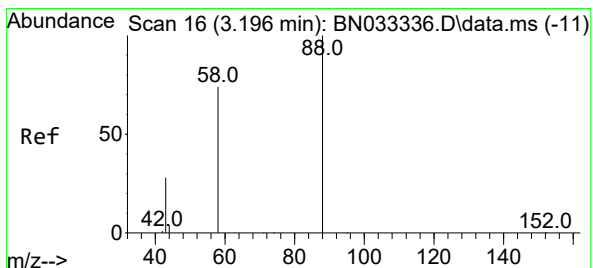
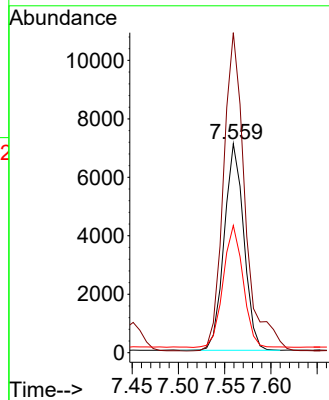
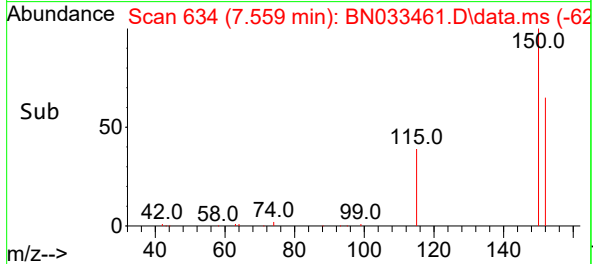
Instrument :
BNA_N
ClientSampleId :
PB162758BS



Tgt Ion: 152 Resp: 1042
Ion Ratio Lower Upper
152 100
150 153.2 122.3 183.5
115 60.9 48.8 73.2

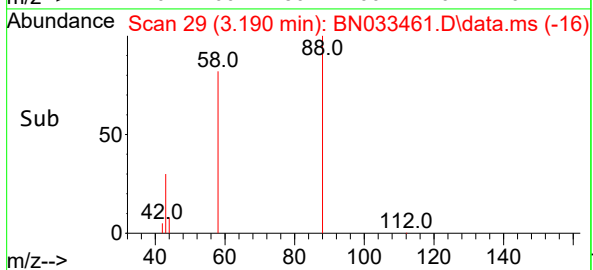
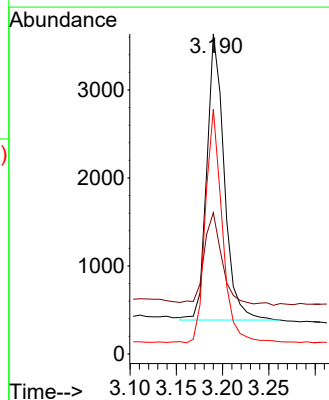
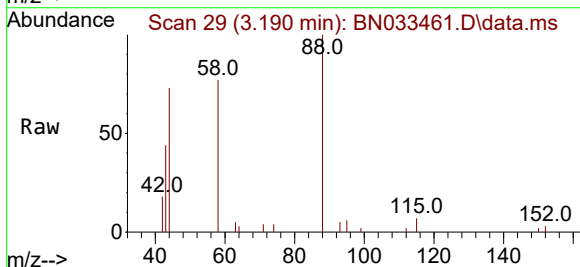
Manual Integrations
APPROVED

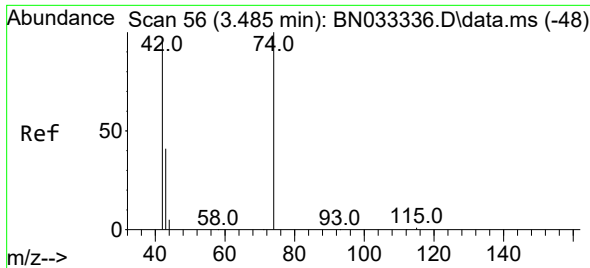
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#2
1,4-Dioxane
Concen: 0.366 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

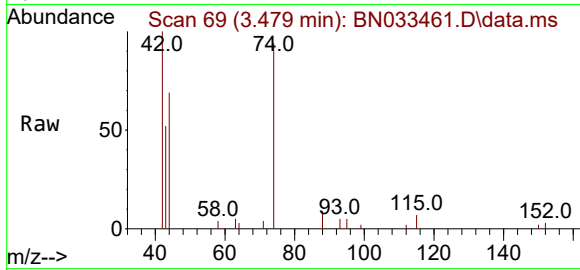
Tgt Ion: 88 Resp: 4243
Ion Ratio Lower Upper
88 100
43 34.4 30.6 46.0
58 78.7 64.5 96.7





#3
n-Nitrosodimethylamine
Concen: 0.343 ng
RT: 3.479 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

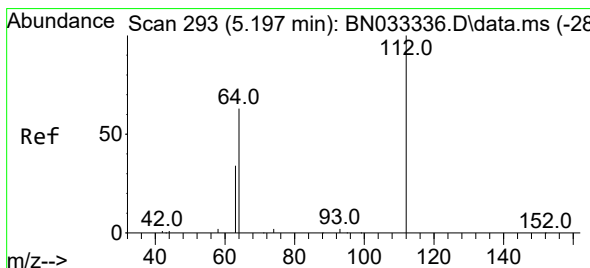
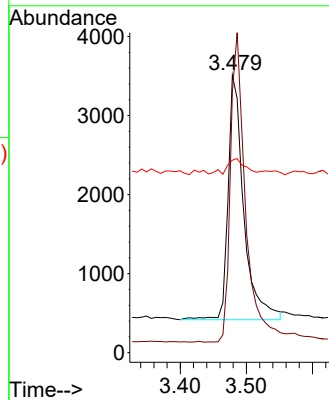
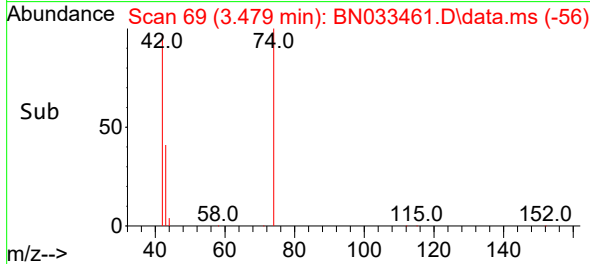
Instrument :
BNA_N
ClientSampleId :
PB162758BS



Tgt Ion: 42 Resp: 5114
Ion Ratio Lower Upper
42 100
74 120.9 89.0 133.6
44 7.1 11.0 16.4

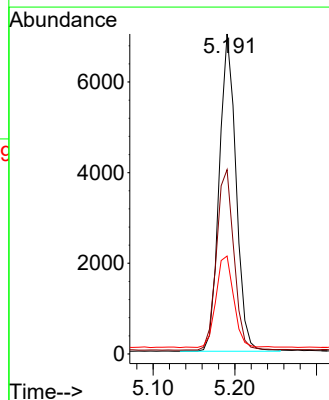
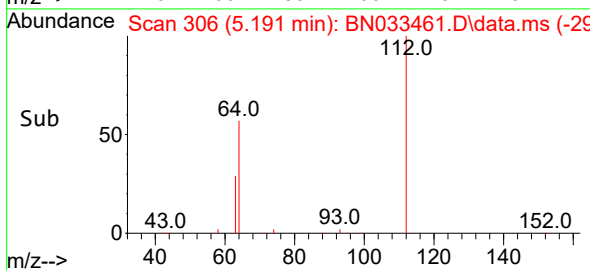
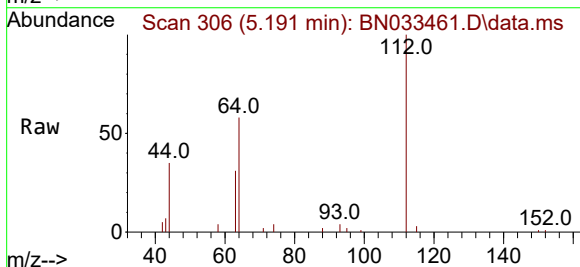
Manual Integrations
APPROVED

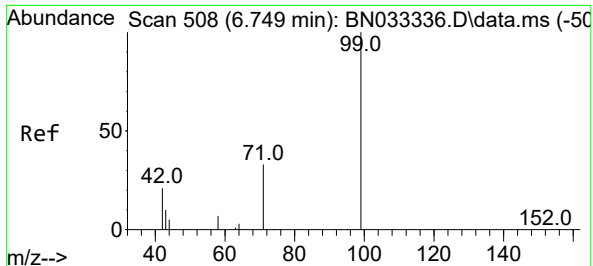
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#4
2-Fluorophenol
Concen: 0.347 ng
RT: 5.191 min Scan# 306
Delta R.T. -0.007 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

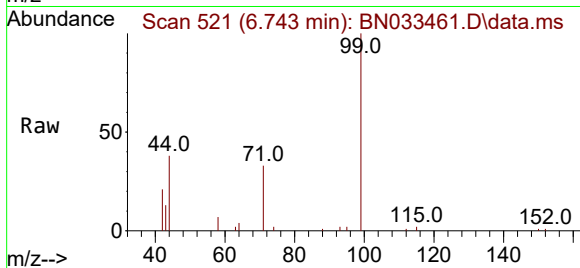
Tgt Ion:112 Resp: 9976
Ion Ratio Lower Upper
112 100
64 59.0 48.1 72.1
63 30.7 25.4 38.2





#5
Phenol-d6
Concen: 0.312 ng
RT: 6.743 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

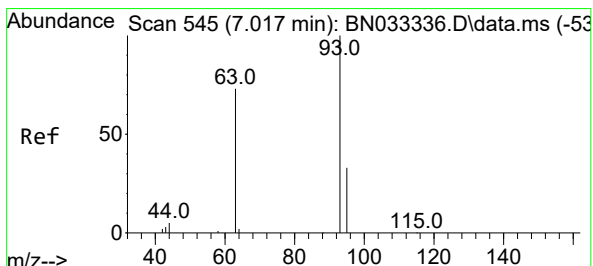
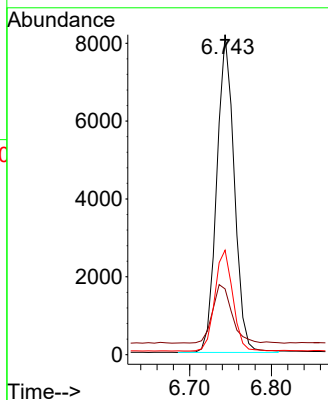
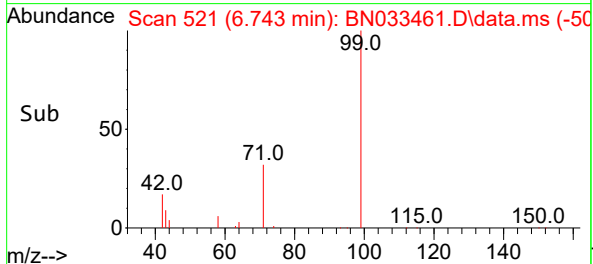
Instrument :
BNA_N
ClientSampleId :
PB162758BS



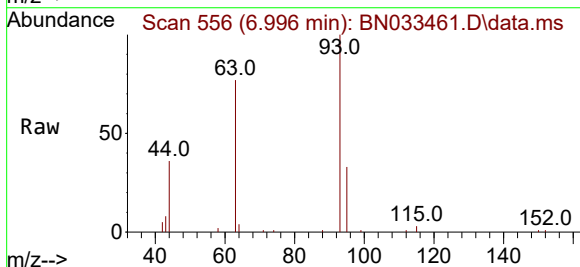
Tgt Ion: 99 Resp: 12130
Ion Ratio Lower Upper
99 100
42 20.6 18.5 27.7
71 32.6 26.2 39.2

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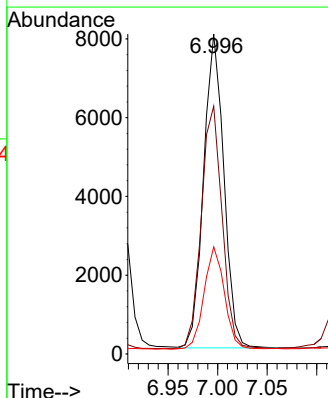
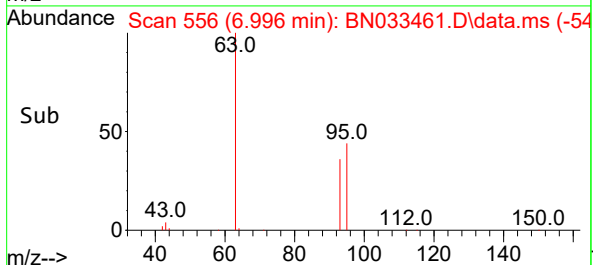
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

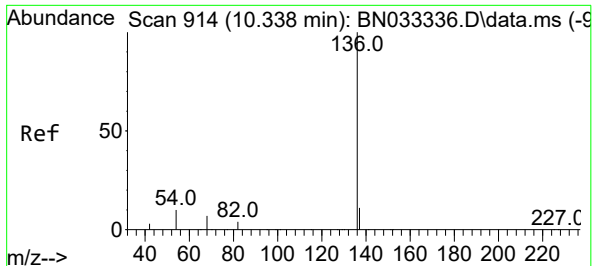


#6
bis(2-Chloroethyl)ether
Concen: 0.359 ng
RT: 6.996 min Scan# 556
Delta R.T. -0.007 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16



Tgt Ion: 93 Resp: 11311
Ion Ratio Lower Upper
93 100
63 79.5 65.2 97.8
95 32.7 26.2 39.4





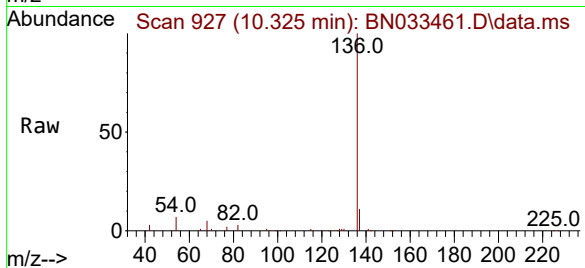
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.325 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Instrument :

BNA_N

ClientSampleId :

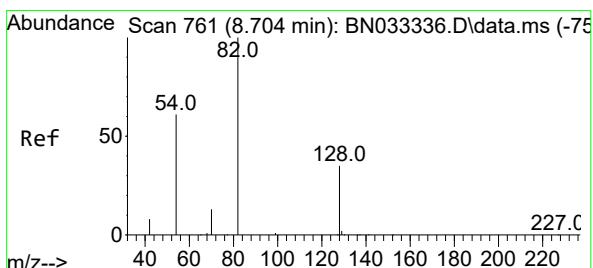
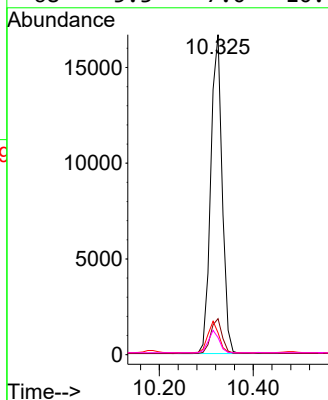
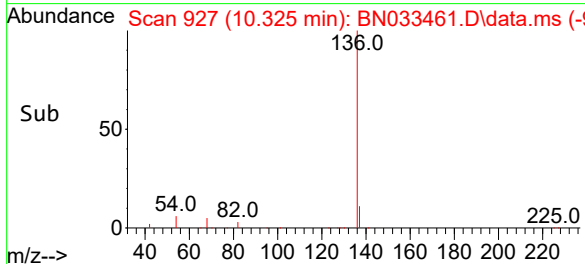
PB162758BS



Tgt Ion: 136 Resp: 2810
Ion Ratio Lower Upper
136 100
137 11.3 9.1 13.7
54 6.9 9.4 14.0
68 5.3 7.0 10.4#

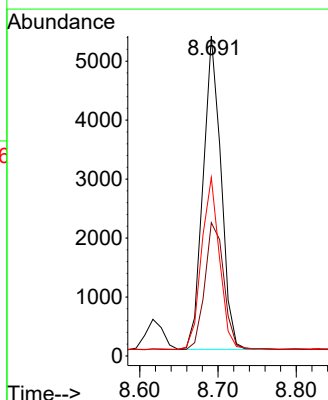
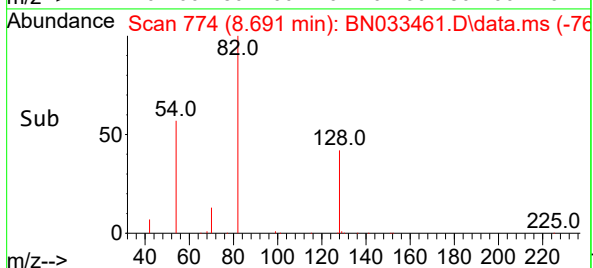
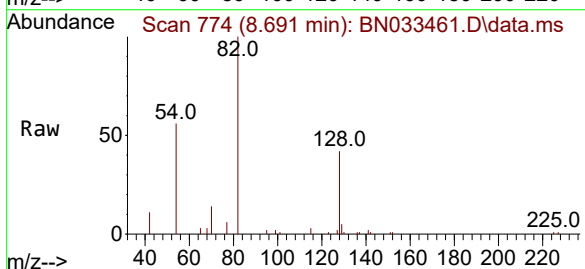
Manual Integrations
APPROVED

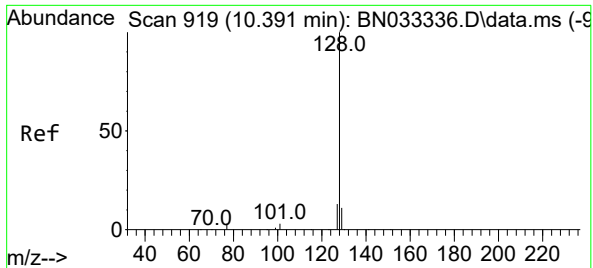
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#8
Nitrobenzene-d5
Concen: 0.399 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.011 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Tgt Ion: 82 Resp: 8466
Ion Ratio Lower Upper
82 100
128 41.6 29.0 43.4
54 55.7 50.2 75.4





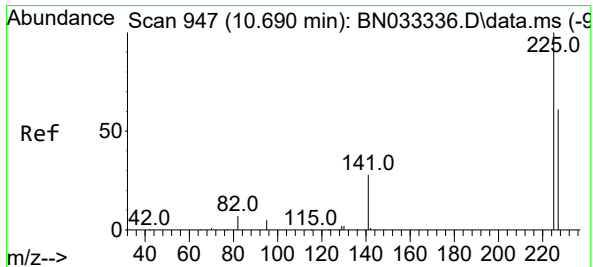
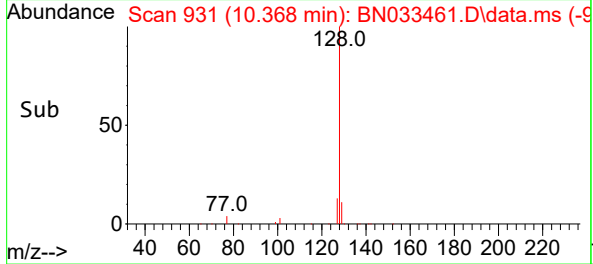
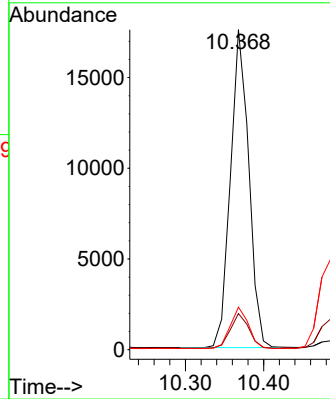
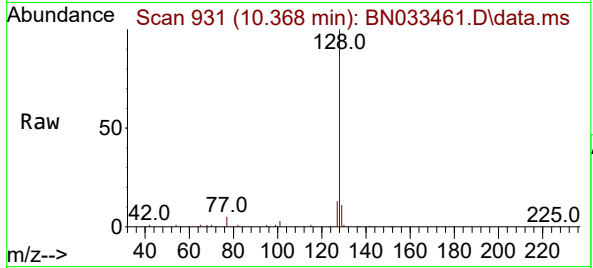
#9
Naphthalene
Concen: 0.368 ng
RT: 10.368 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Instrument :
BNA_N
ClientSampleId :
PB162758BS

Tgt Ion:128 Resp: 2849
Ion Ratio Lower Upper
128 100
129 11.3 9.2 13.8
127 13.3 10.6 15.8

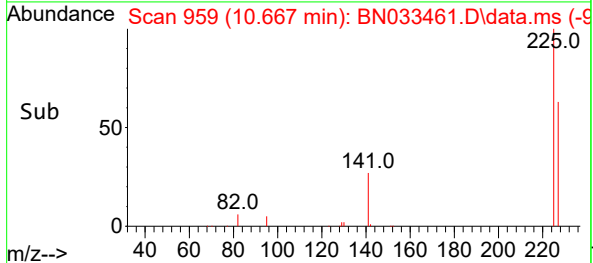
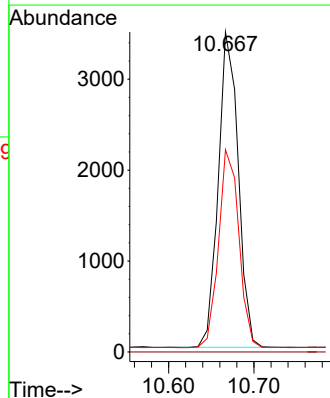
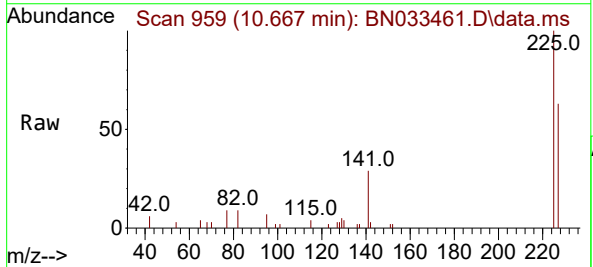
Manual Integrations
APPROVED

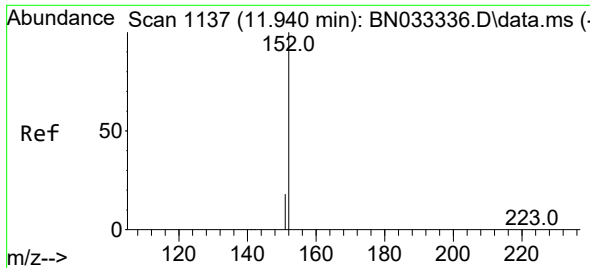
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#10
Hexachlorobutadiene
Concen: 0.381 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.021 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

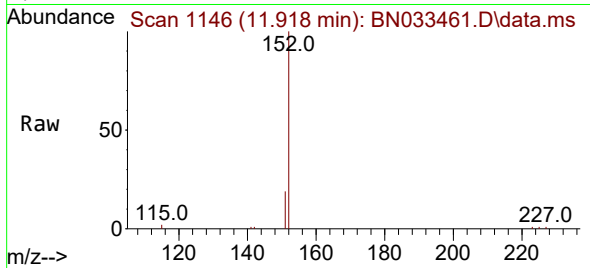
Tgt Ion:225 Resp: 5627
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 50.8 76.2





#11
2-Methylnaphthalene-d10
Concen: 0.328 ng
RT: 11.918 min Scan# 1165
Delta R.T. -0.011 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

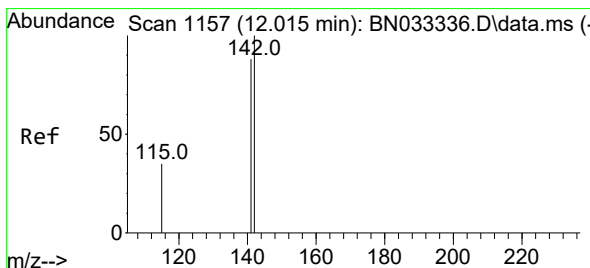
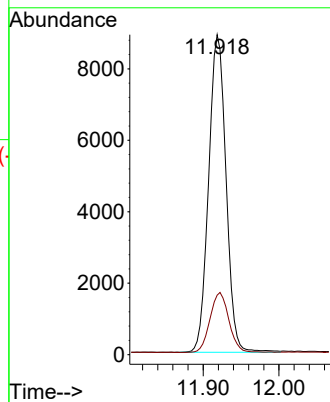
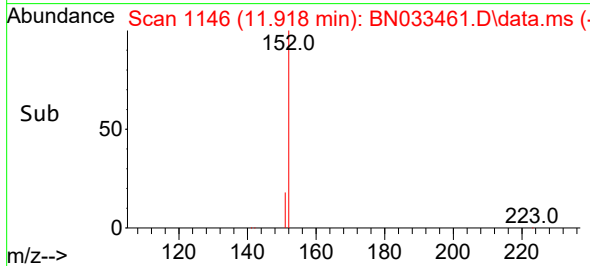
Instrument :
BNA_N
ClientSampleId :
PB162758BS



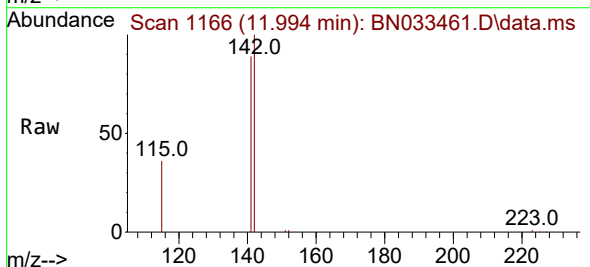
Tgt Ion:152 Resp: 1416
Ion Ratio Lower Upper
152 100
151 20.5 16.7 25.1

Manual Integrations
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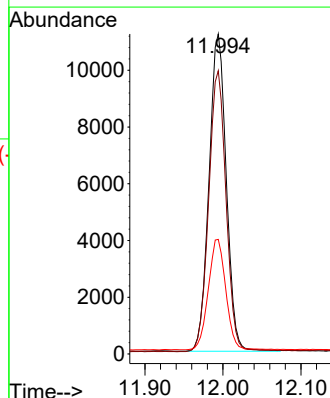
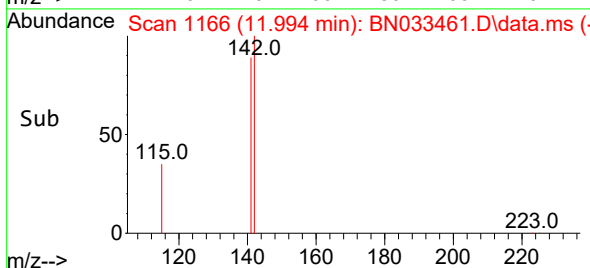
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

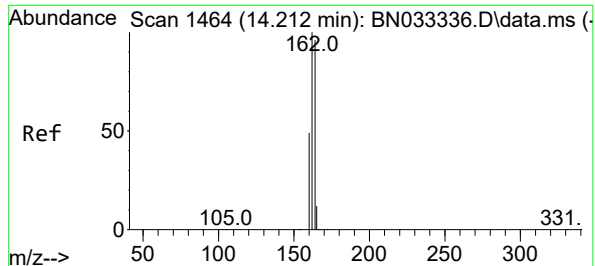


#12
2-Methylnaphthalene
Concen: 0.330 ng
RT: 11.994 min Scan# 1166
Delta R.T. -0.011 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16



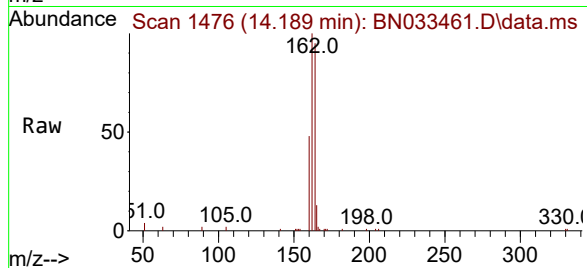
Tgt Ion:142 Resp: 17259
Ion Ratio Lower Upper
142 100
141 88.5 70.2 105.4
115 35.8 29.3 43.9





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

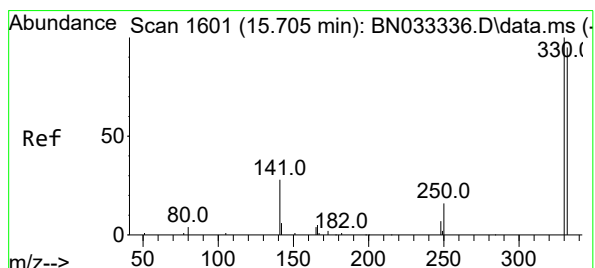
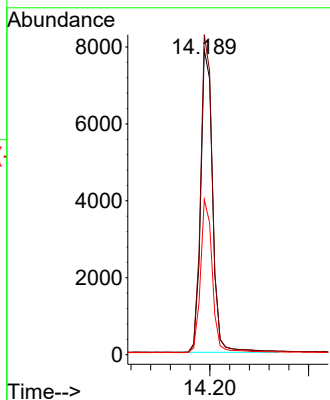
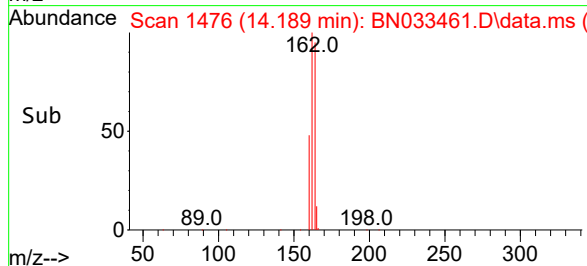
Instrument :
BNA_N
ClientSampleId :
PB162758BS



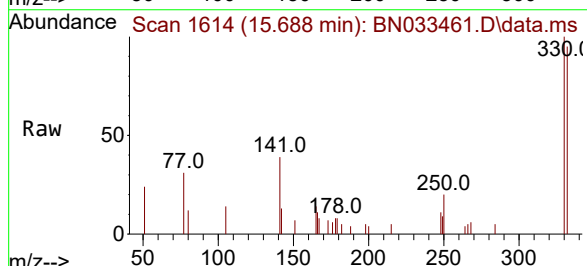
Tgt Ion:164 Resp: 13134
Ion Ratio Lower Upper
164 100
162 104.9 83.1 124.7
160 50.9 41.1 61.7

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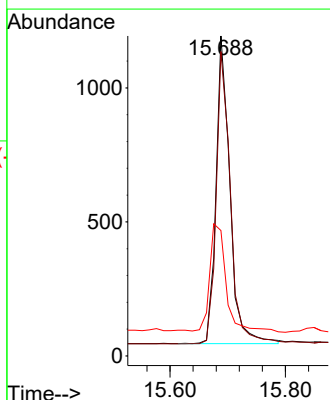
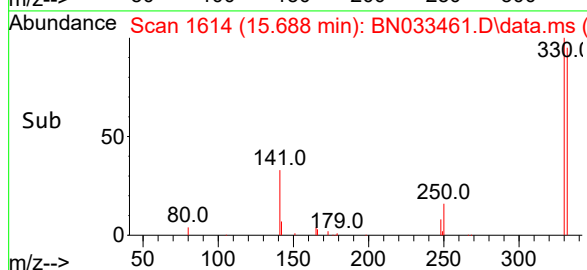
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

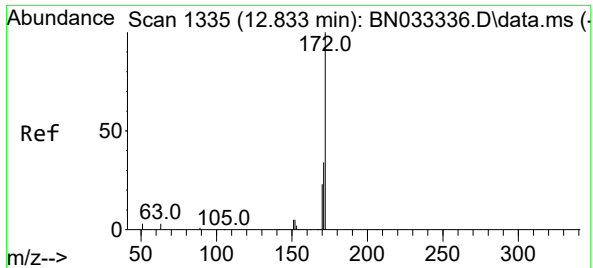


#14
2,4,6-Tribromophenol
Concen: 0.284 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.012 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16



Tgt Ion:330 Resp: 1912
Ion Ratio Lower Upper
330 100
332 97.1 77.1 115.7
141 41.3 33.4 50.0





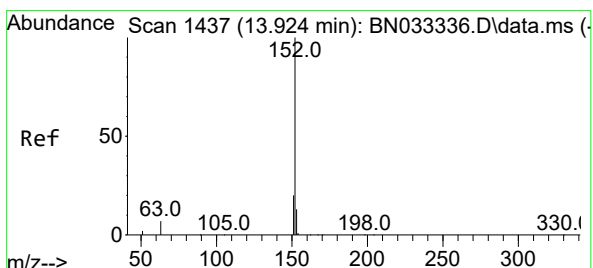
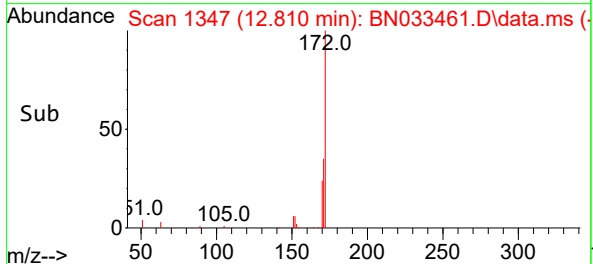
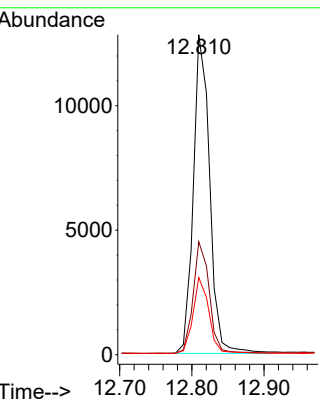
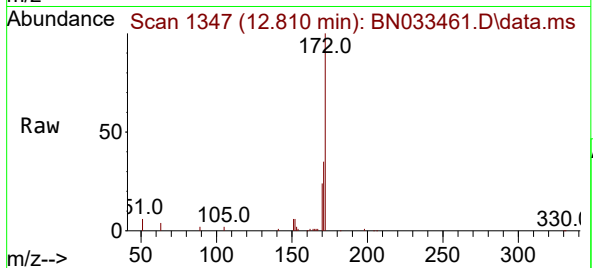
#15
2-Fluorobiphenyl
Concen: 0.376 ng
RT: 12.810 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Instrument :
BNA_N
ClientSampleId :
PB162758BS

Tgt Ion:172 Resp: 2025
Ion Ratio Lower Upper
172 100
171 35.3 27.8 41.8
170 24.1 18.7 28.1

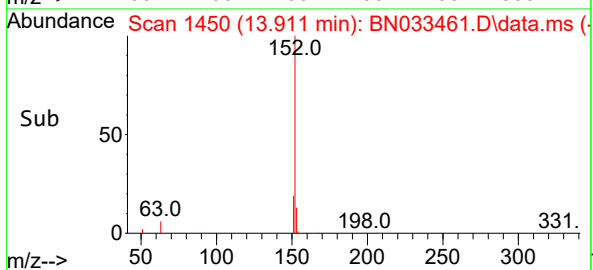
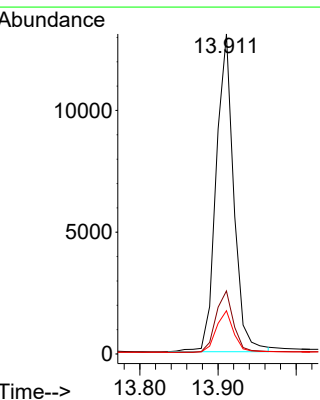
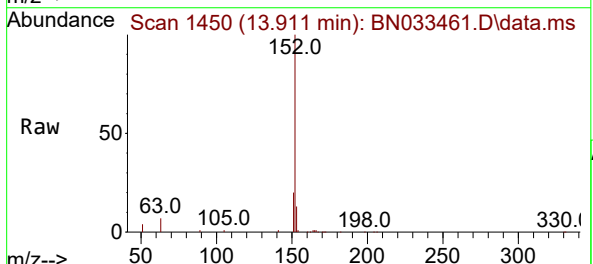
Manual Integrations
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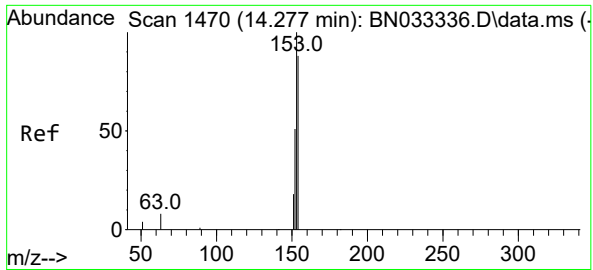
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#16
Acenaphthylene
Concen: 0.334 ng
RT: 13.911 min Scan# 1450
Delta R.T. -0.011 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

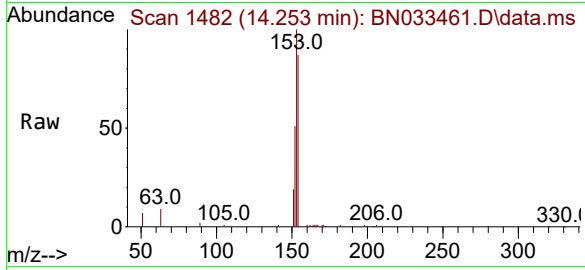
Tgt Ion:152 Resp: 20461
Ion Ratio Lower Upper
152 100
151 19.5 15.7 23.5
153 13.0 10.4 15.6





#17
Acenaphthene
Concen: 0.346 ng
RT: 14.253 min Scan# 1470
Delta R.T. -0.011 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

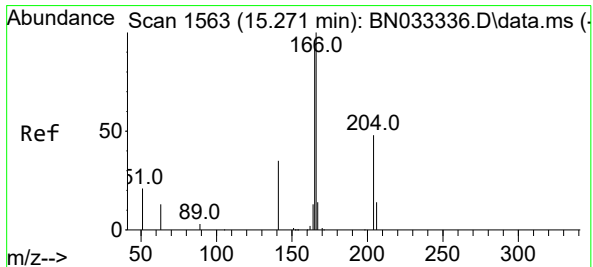
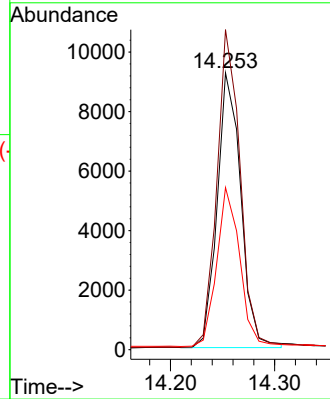
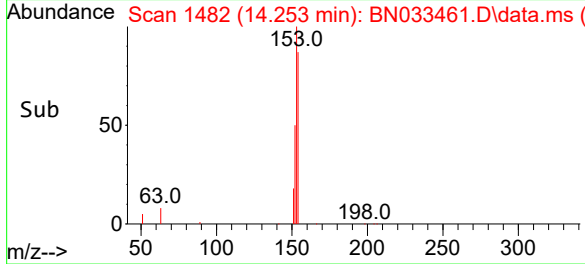
Instrument :
BNA_N
ClientSampleId :
PB162758BS



Tgt Ion:154 Resp: 14560
Ion Ratio Lower Upper
154 100
153 113.3 89.7 134.5
152 56.5 47.2 70.8

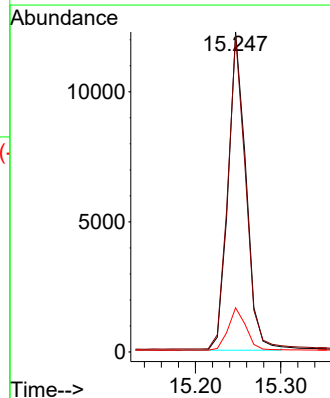
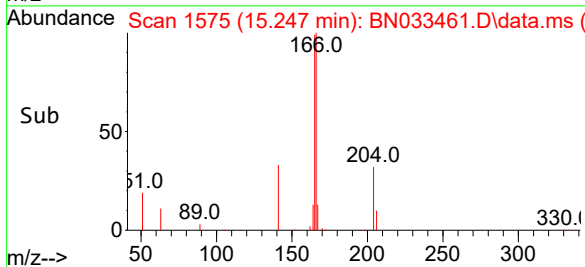
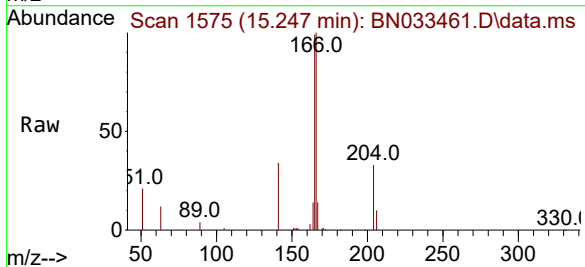
Manual Integrations
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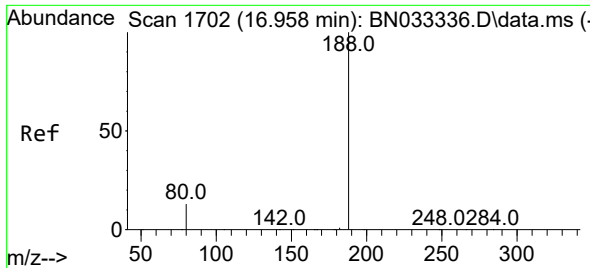
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#18
Fluorene
Concen: 0.320 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Tgt Ion:166 Resp: 17770
Ion Ratio Lower Upper
166 100
165 98.2 78.0 117.0
167 13.4 10.7 16.1





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Instrument :

BNA_N

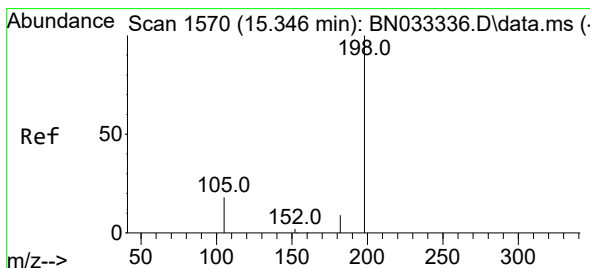
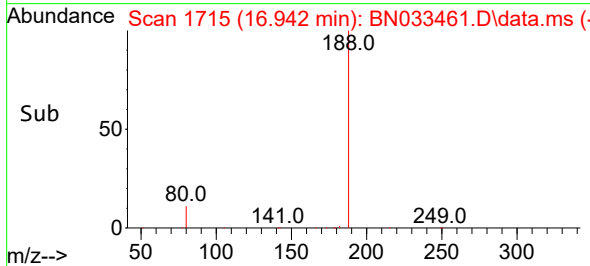
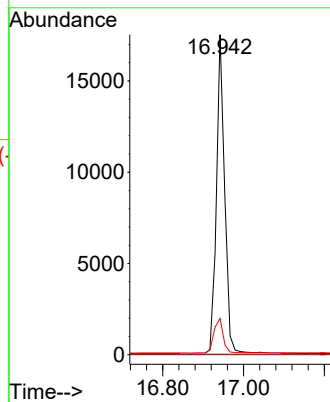
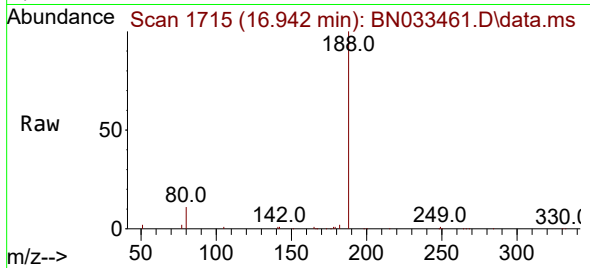
ClientSampleId :

PB162758BS

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	10.7	16.1

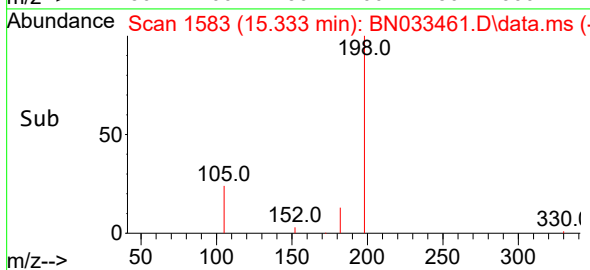
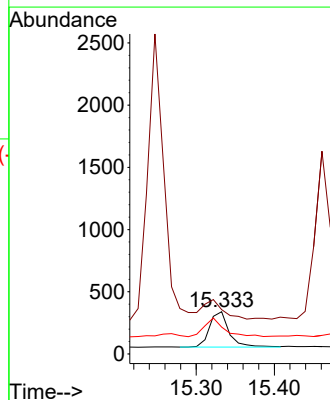
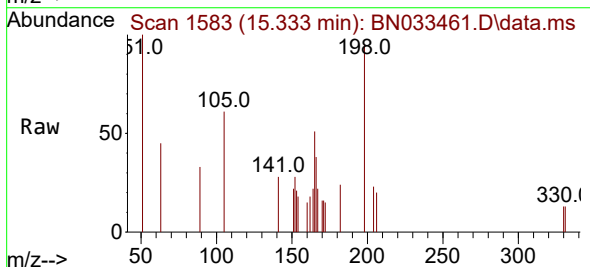
Manual Integrations
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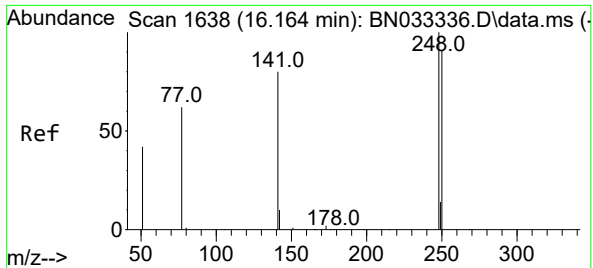
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.164 ng
RT: 15.333 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Tgt Ion	Ratio	Lower	Upper
198	100		
51	105.0	62.8	94.2#
105	63.5	34.1	51.1#





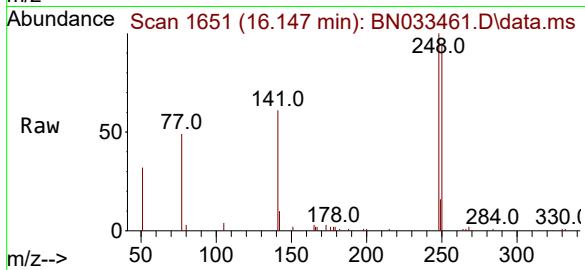
#21
4-Bromophenyl-phenylether
Concen: 0.377 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.012 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Instrument :

BNA_N

ClientSampleId :

PB162758BS

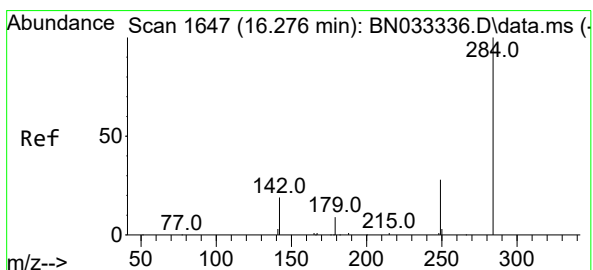
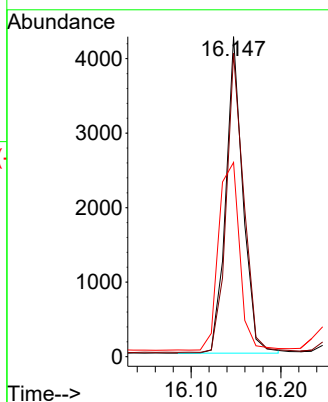
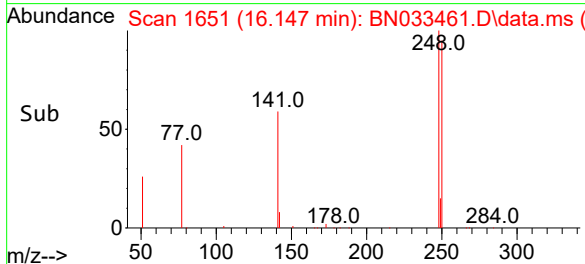


Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.8	73.0	109.4
141	60.7	64.6	96.8

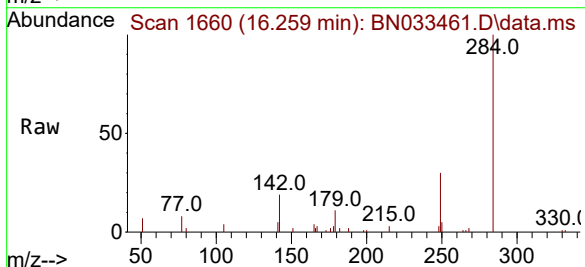
Manual Integrations

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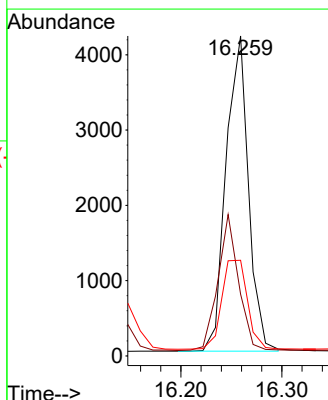
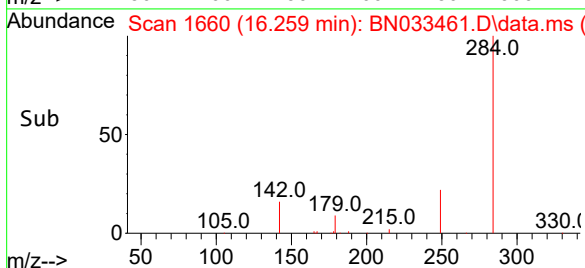
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

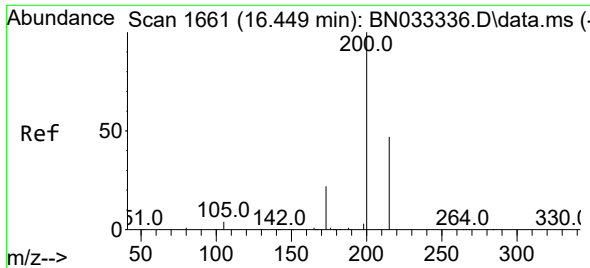


#22
Hexachlorobenzene
Concen: 0.386 ng
RT: 16.259 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16



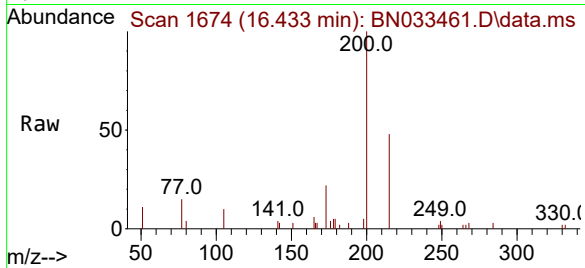
Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.7	32.2	48.4
249	32.3	25.3	37.9





#23
Atrazine
Concen: 0.344 ng
RT: 16.433 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

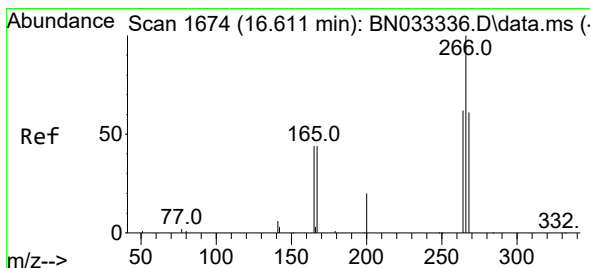
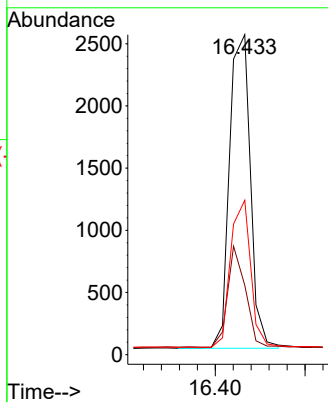
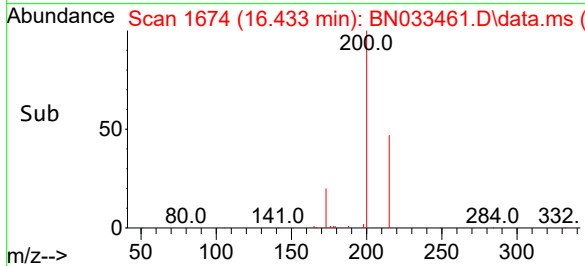
Instrument :
BNA_N
ClientSampleId :
PB162758BS



Tgt Ion:200 Resp: 4069
Ion Ratio Lower Upper
200 100
173 21.7 18.7 28.1
215 48.2 38.6 58.0

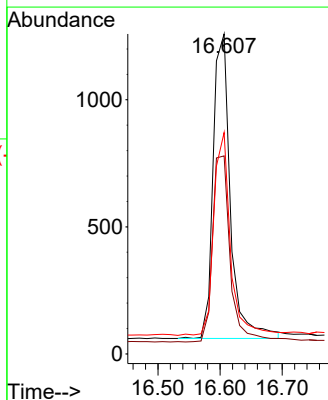
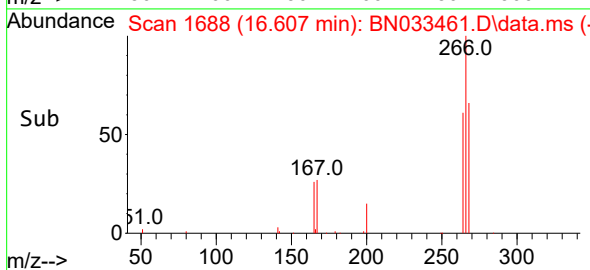
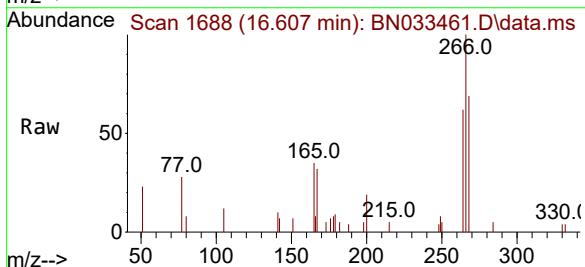
Manual Integrations
APPROVED

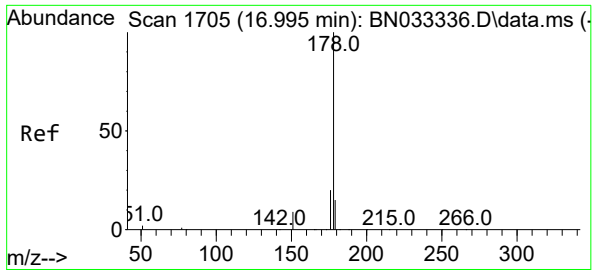
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#24
Pentachlorophenol
Concen: 0.342 ng
RT: 16.607 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

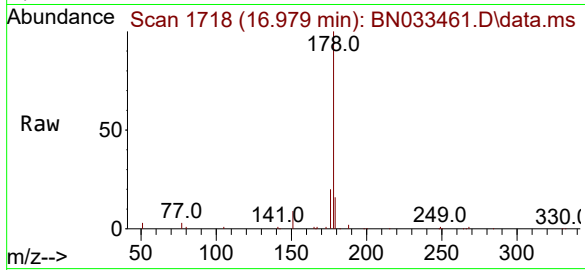
Tgt Ion:266 Resp: 2311
Ion Ratio Lower Upper
266 100
264 62.4 49.2 73.8
268 64.1 51.2 76.8





#25
Phenanthrene
Concen: 0.356 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.012 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

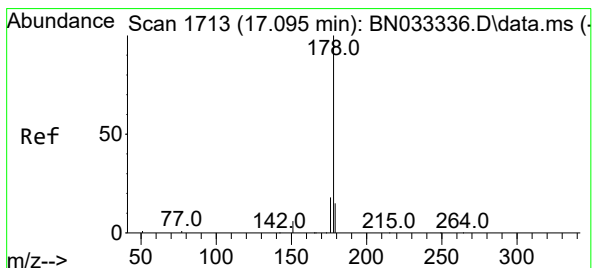
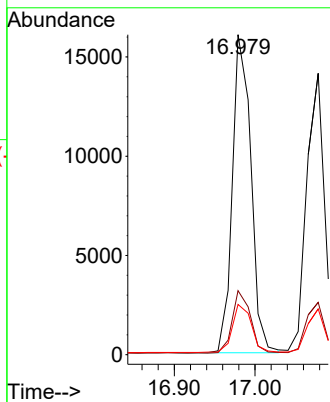
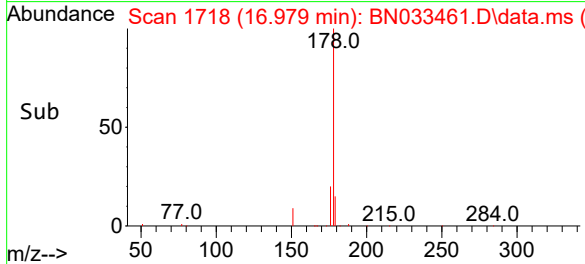
Instrument :
BNA_N
ClientSampleId :
PB162758BS



Tgt Ion:178 Resp: 2563
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.4 12.2 18.2

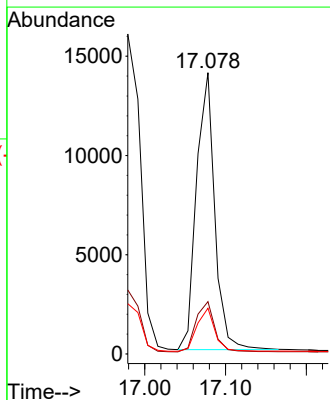
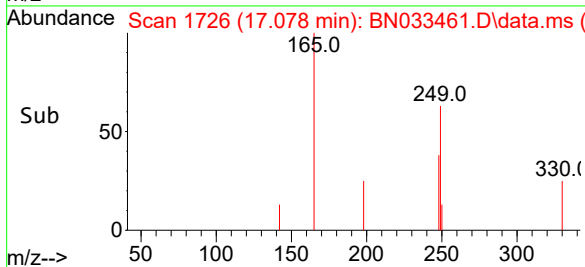
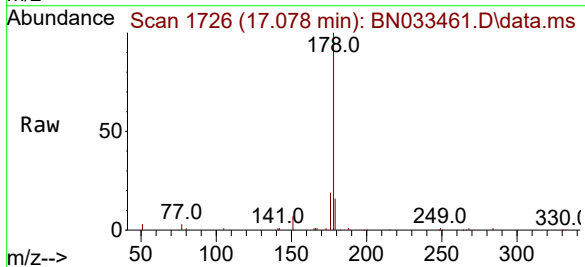
Manual Integrations
APPROVED

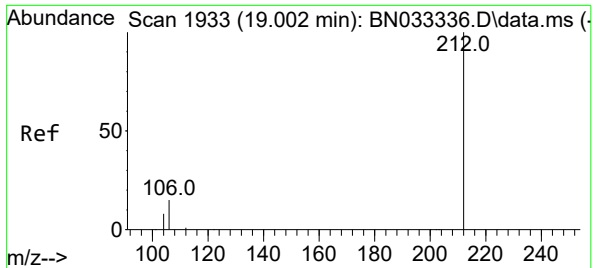
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#26
Anthracene
Concen: 0.346 ng
RT: 17.078 min Scan# 1726
Delta R.T. 0.000 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Tgt Ion:178 Resp: 22042
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.319 ng

RT: 18.984 min Scan# 1951

Delta R.T. -0.009 min

Lab File: BN033461.D

Acq: 17 Aug 2024 10:16

Instrument :

BNA_N

ClientSampleId :

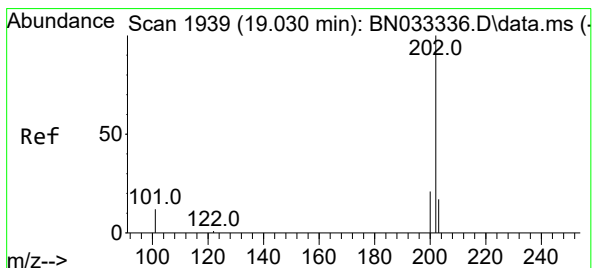
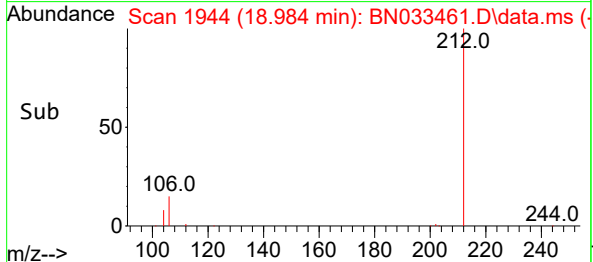
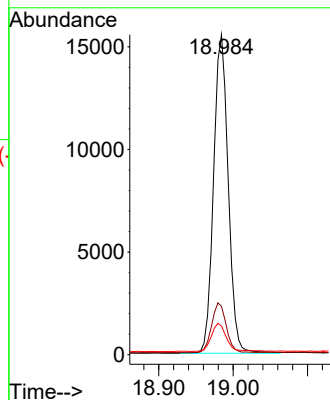
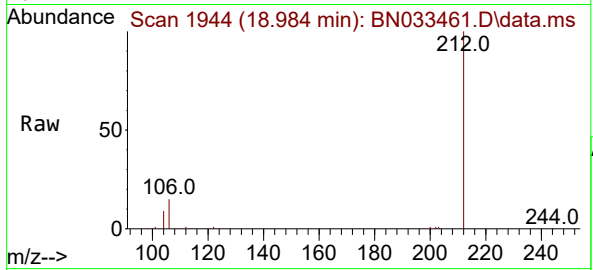
PB162758BS

Tgt Ion:	212	Resp:	21200
Ion Ratio	Lower	Upper	
212	100		
106	15.6	12.8	19.2
104	9.1	7.1	10.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#28

Fluoranthene

Concen: 0.318 ng

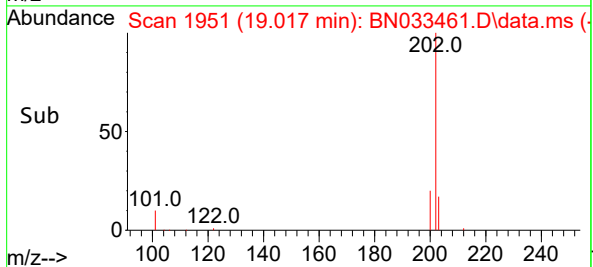
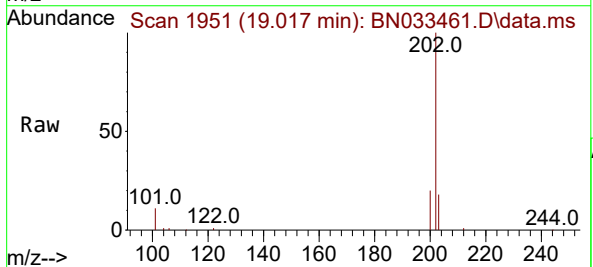
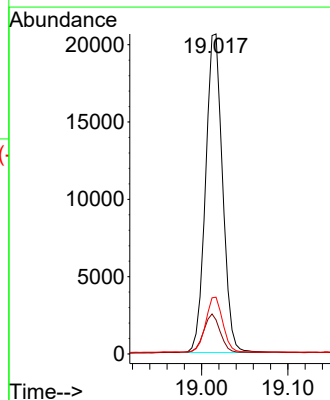
RT: 19.017 min Scan# 1951

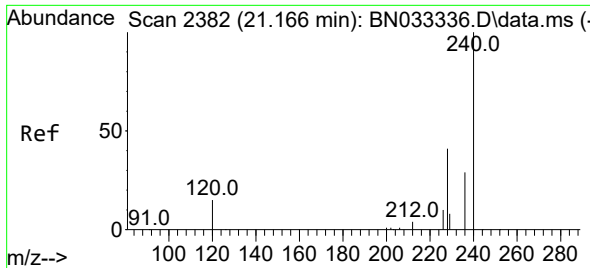
Delta R.T. -0.005 min

Lab File: BN033461.D

Acq: 17 Aug 2024 10:16

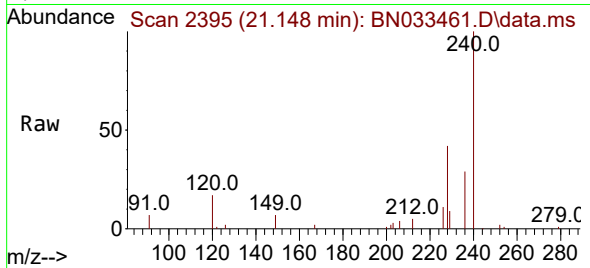
Tgt Ion:	202	Resp:	28196
Ion Ratio	Lower	Upper	
202	100		
101	12.2	9.8	14.6
203	17.2	13.8	20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2113
Delta R.T. -0.009 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

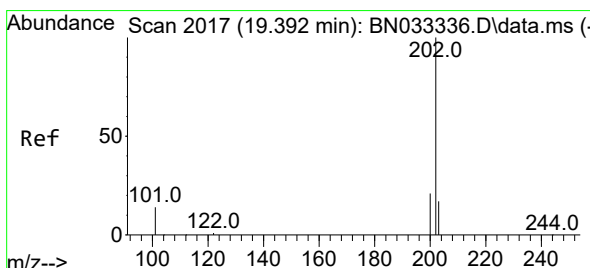
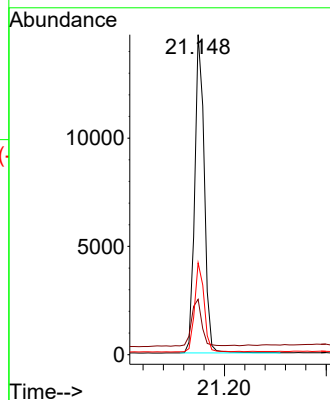
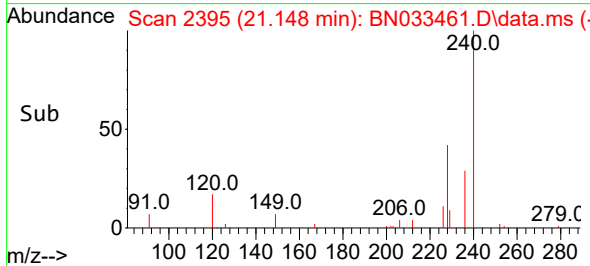
Instrument :
BNA_N
ClientSampleId :
PB162758BS



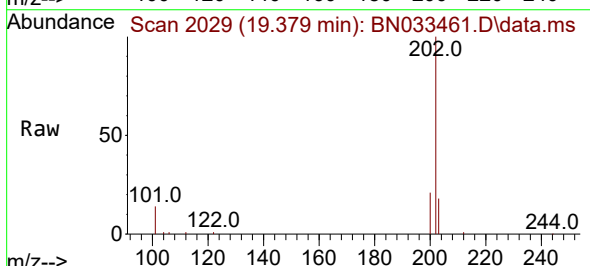
Tgt Ion:240 Resp: 1913
Ion Ratio Lower Upper
240 100
120 17.3 13.0 19.6
236 28.7 23.2 34.8

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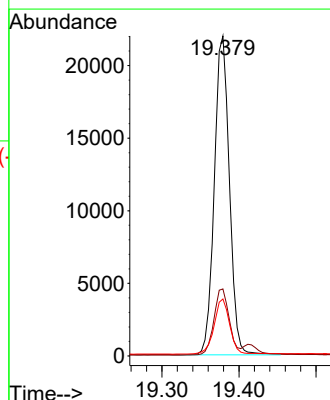
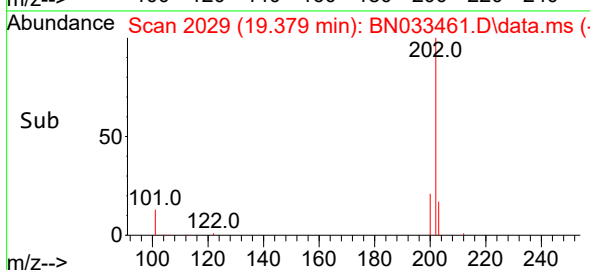
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

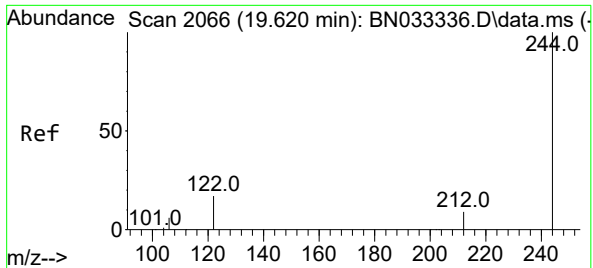


#30
Pyrene
Concen: 0.392 ng
RT: 19.379 min Scan# 2029
Delta R.T. -0.005 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16



Tgt Ion:202 Resp: 29843
Ion Ratio Lower Upper
202 100
200 21.2 16.7 25.1
203 18.0 14.2 21.4





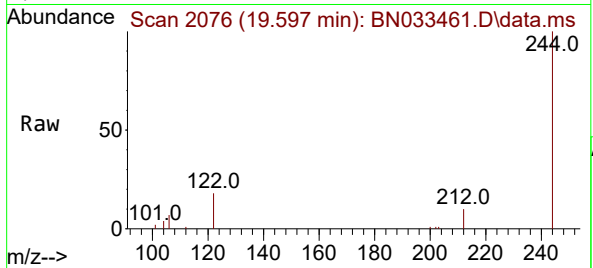
#31
Terphenyl-d14
Concen: 0.388 ng
RT: 19.597 min Scan# 2066
Delta R.T. -0.009 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Instrument :

BNA_N

ClientSampleId :

PB162758BS

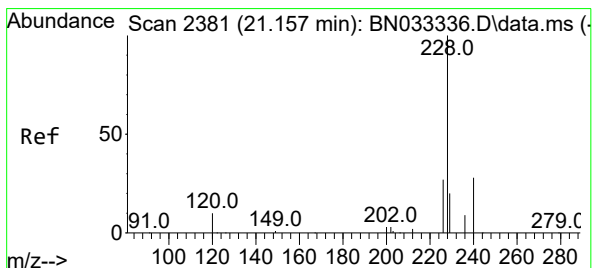
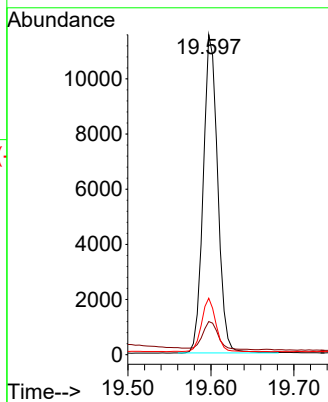
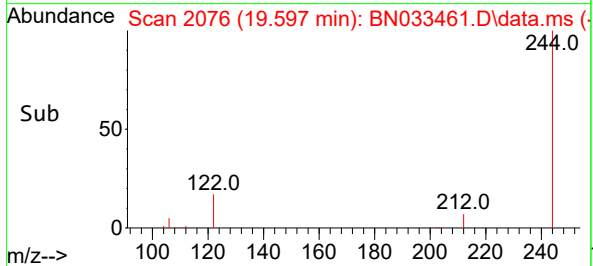


Tgt Ion:244 Resp: 14040
Ion Ratio Lower Upper
244 100
212 10.4 7.7 11.5
122 17.6 14.0 21.0

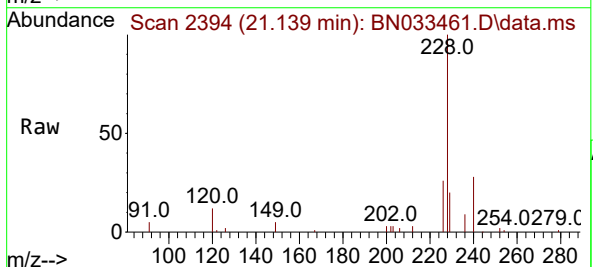
Manual Integrations

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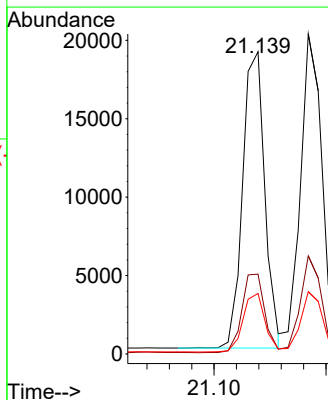
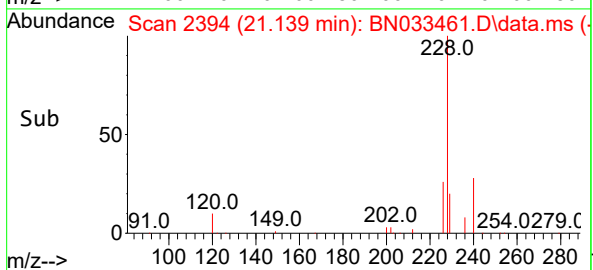
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

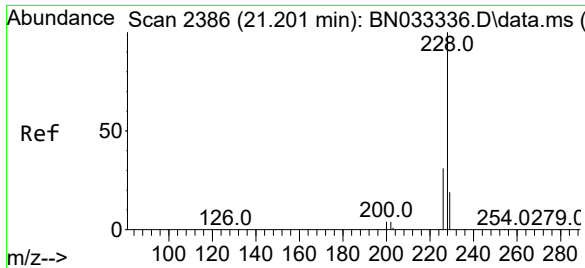


#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.139 min Scan# 2394
Delta R.T. 0.000 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16



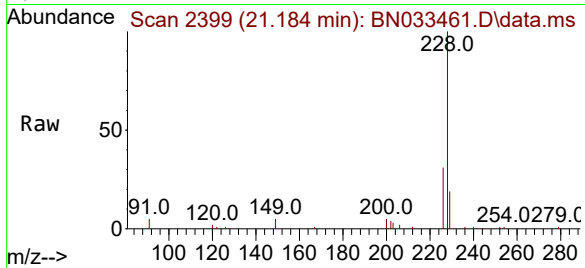
Tgt Ion:228 Resp: 26006
Ion Ratio Lower Upper
228 100
226 26.4 21.6 32.4
229 20.0 15.9 23.9





#33
Chrysene
Concen: 0.369 ng
RT: 21.184 min Scan# 21184
Delta R.T. -0.009 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

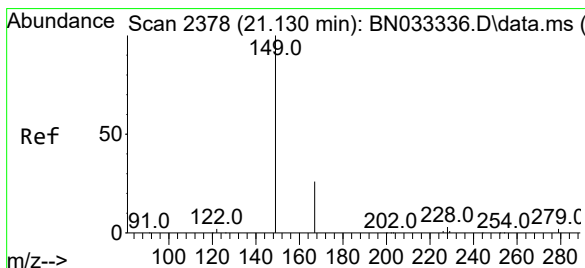
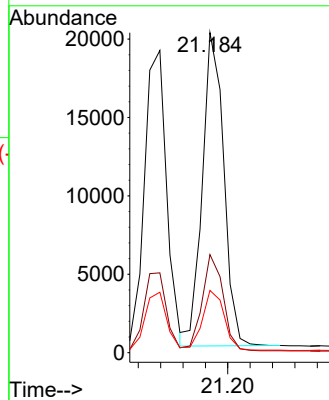
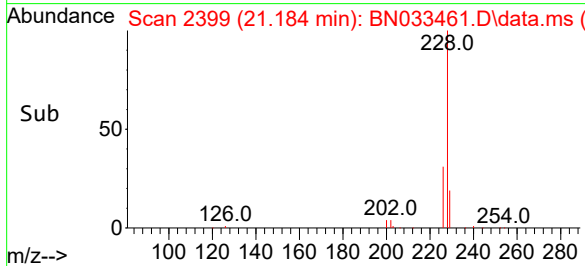
Instrument :
BNA_N
ClientSampleId :
PB162758BS



Tgt Ion:228 Resp: 2652
Ion Ratio Lower Upper
228 100
226 30.7 24.7 37.1
229 19.4 15.4 23.2

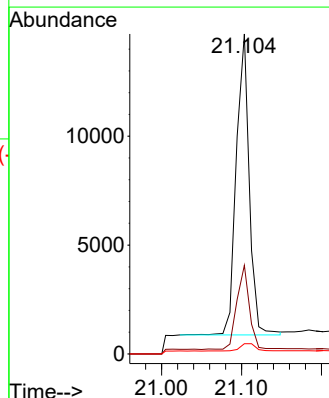
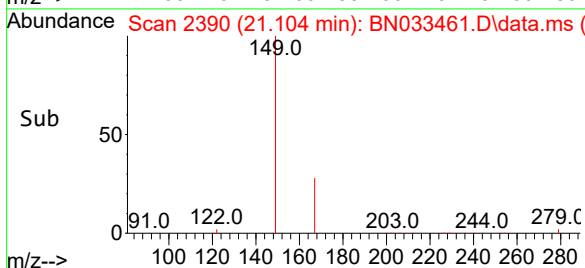
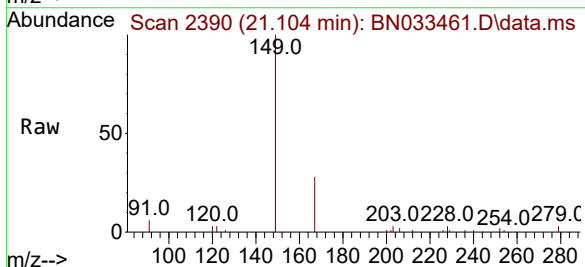
Manual Integrations
APPROVED

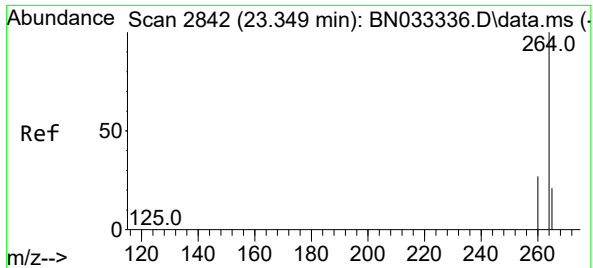
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.478 ng
RT: 21.104 min Scan# 2390
Delta R.T. -0.009 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

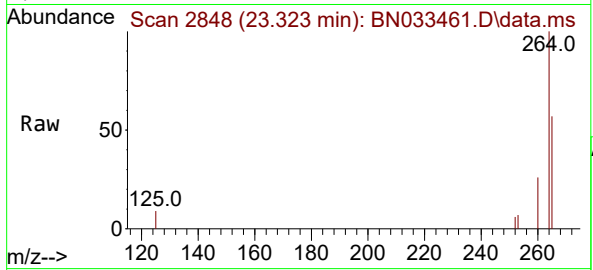
Tgt Ion:149 Resp: 15530
Ion Ratio Lower Upper
149 100
167 27.1 20.9 31.3
279 2.9 2.2 3.4





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.323 min Scan# 20949
Delta R.T. -0.009 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

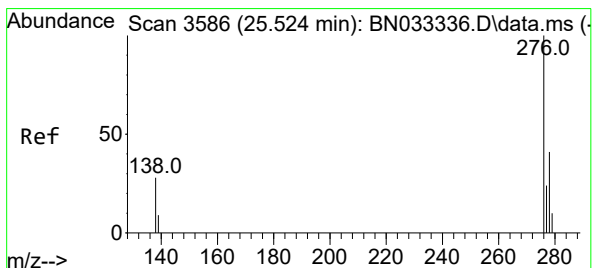
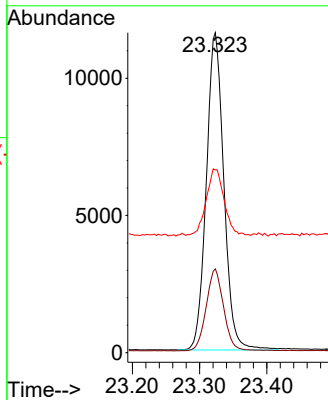
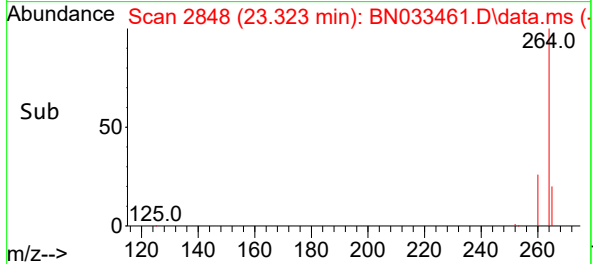
Instrument :
BNA_N
ClientSampleId :
PB162758BS



Tgt Ion:264 Resp: 20949
Ion Ratio Lower Upper
264 100
260 26.2 21.6 32.4
265 57.1 29.3 43.9

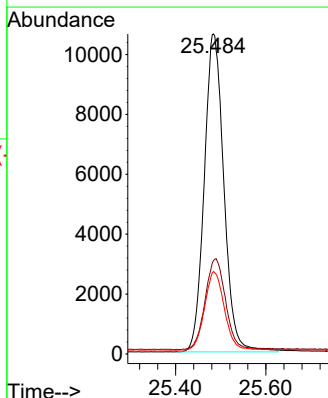
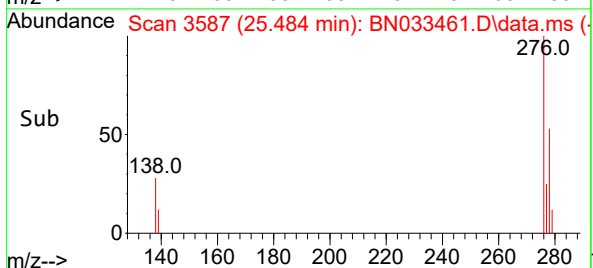
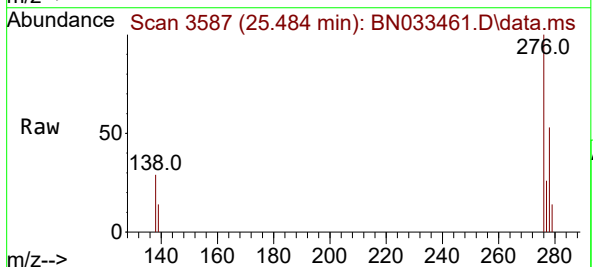
Manual Integrations
APPROVED

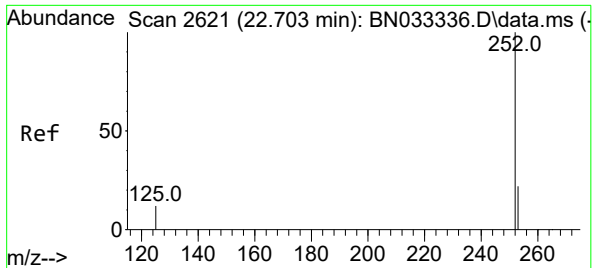
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.370 ng
RT: 25.484 min Scan# 3587
Delta R.T. -0.015 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Tgt Ion:276 Resp: 32043
Ion Ratio Lower Upper
276 100
138 29.4 24.9 37.3
277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.357 ng

RT: 22.677 min Scan# 20

Delta R.T. -0.009 min

Lab File: BN033461.D

Acq: 17 Aug 2024 10:16

Instrument :

BNA_N

ClientSampleId :

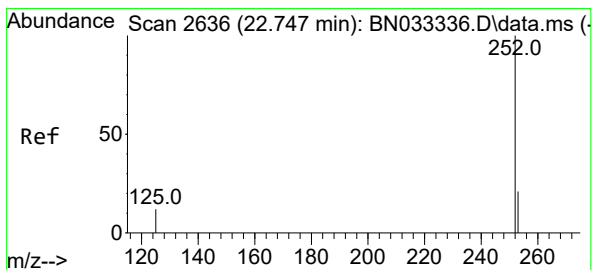
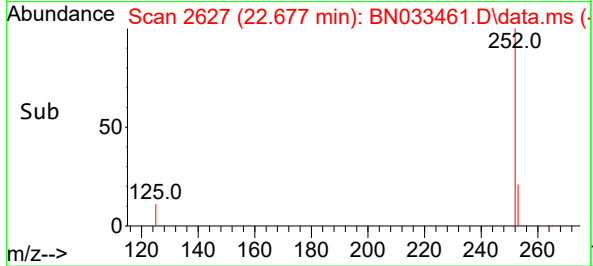
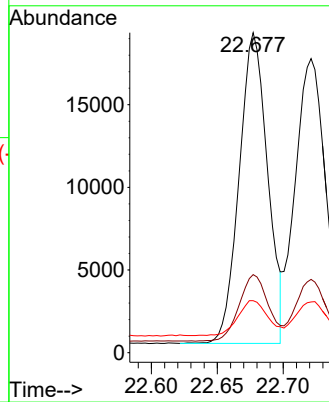
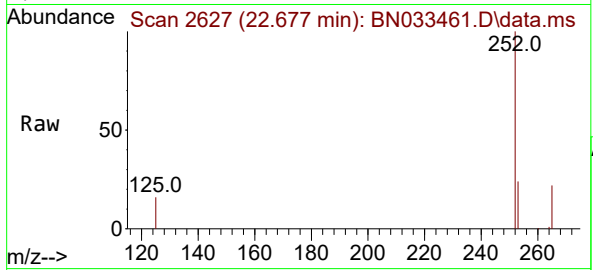
PB162758BS

Tgt Ion:	252	Resp:	2816
Ion Ratio	Lower	Upper	
252	100		
253	24.4	18.2	27.2
125	16.3	11.3	16.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#38

Benzo(k)fluoranthene

Concen: 0.345 ng m

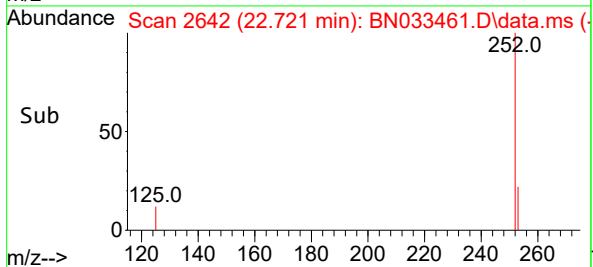
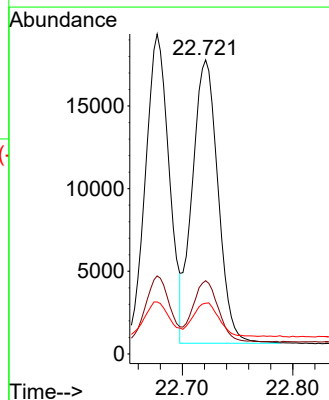
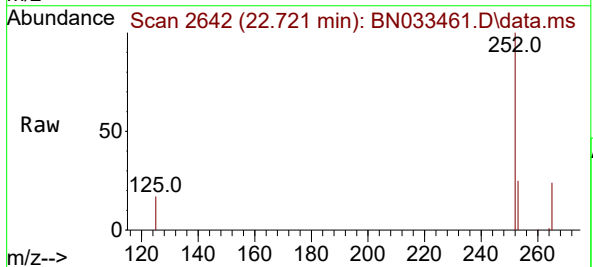
RT: 22.721 min Scan# 2642

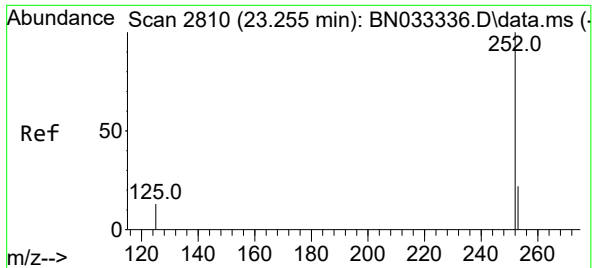
Delta R.T. -0.009 min

Lab File: BN033461.D

Acq: 17 Aug 2024 10:16

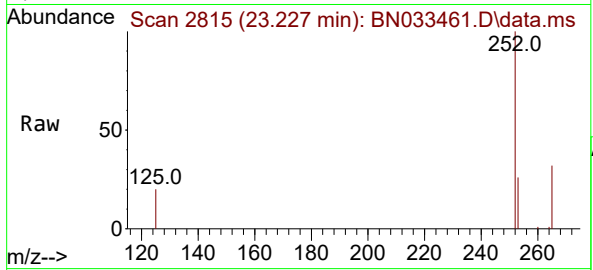
Tgt Ion:	252	Resp:	27736
Ion Ratio	Lower	Upper	
252	100		
253	24.9	17.9	26.9
125	17.3	11.3	16.9#





#39
Benzo(a)pyrene
Concen: 0.362 ng
RT: 23.227 min Scan# 2815
Delta R.T. -0.012 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

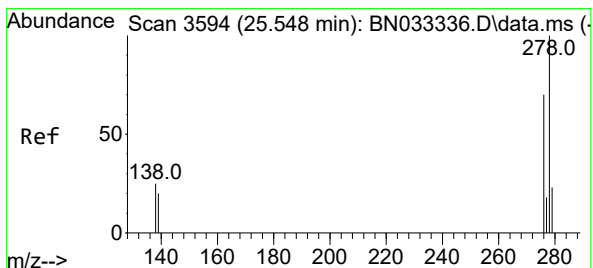
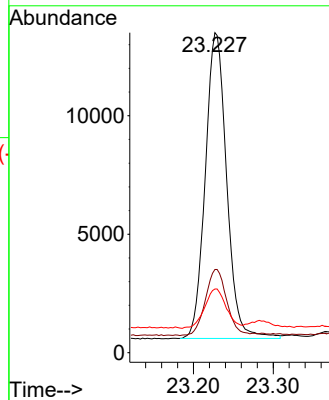
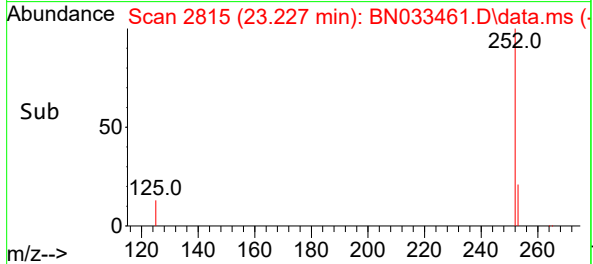
Instrument :
BNA_N
ClientSampleId :
PB162758BS



Tgt Ion:252 Resp: 24018
Ion Ratio Lower Upper
252 100
253 26.0 18.6 28.0
125 19.9 12.6 19.0

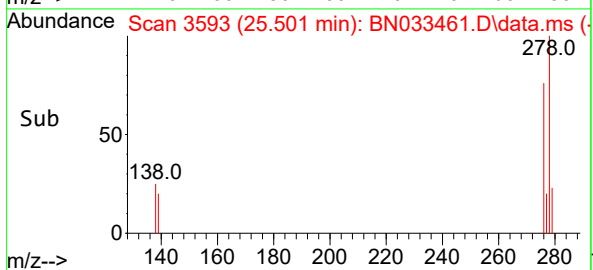
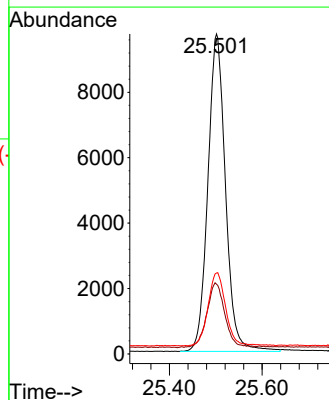
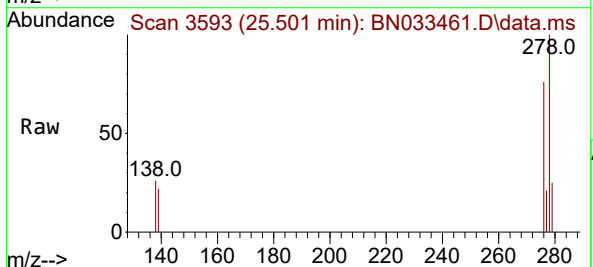
Manual Integrations
APPROVED

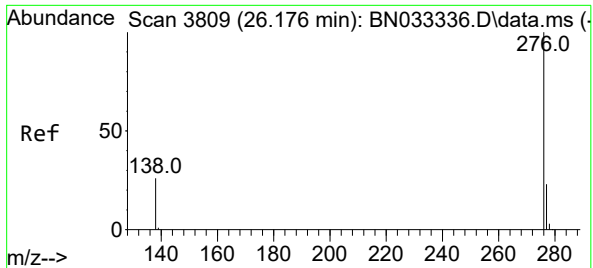
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.375 ng
RT: 25.501 min Scan# 3593
Delta R.T. -0.015 min
Lab File: BN033461.D
Acq: 17 Aug 2024 10:16

Tgt Ion:278 Resp: 25603
Ion Ratio Lower Upper
278 100
139 21.8 17.0 25.6
279 25.3 20.0 30.0





#41

Benzo(g,h,i)perylene

Concen: 0.360 ng

RT: 26.136 min Scan# 3809

Delta R.T. -0.015 min

Lab File: BN033461.D

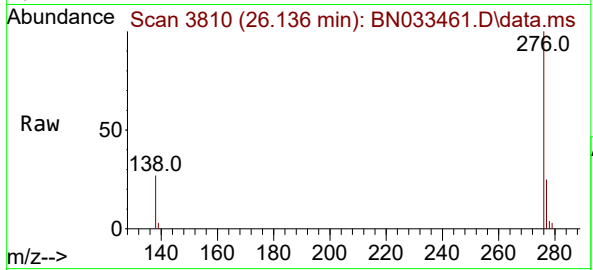
Acq: 17 Aug 2024 10:16

Instrument :

BNA_N

ClientSampleId :

PB162758BS



Tgt Ion:276 Resp: 27320

Ion Ratio Lower Upper

276 100

277 25.0 19.4 29.2

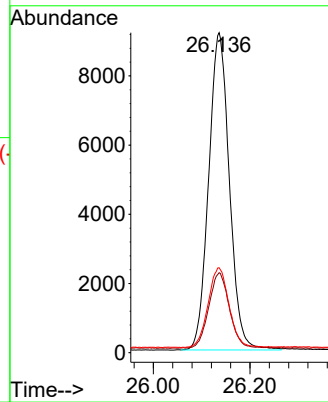
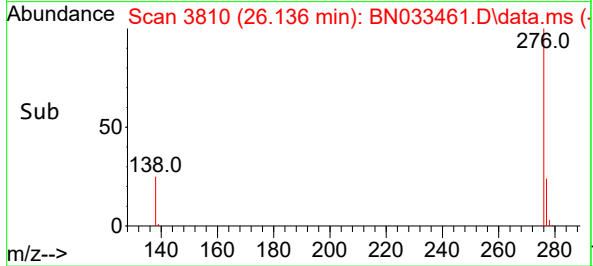
138 26.6 21.6 32.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024

Supervised By :mohammad ahmed 08/21/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162758BSD	SDG No.:	P3609
Lab Sample ID:	PB162758BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033462.D	1	08/15/24 08:23	08/17/24 10:52	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.37		0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.33		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.33		0.020	0.10	ug/L
83-32-9	Acenaphthene	0.35		0.020	0.10	ug/L
86-73-7	Fluorene	0.32		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.36		0.020	0.10	ug/L
120-12-7	Anthracene	0.35		0.020	0.10	ug/L
206-44-0	Fluoranthene	0.32		0.020	0.10	ug/L
129-00-0	Pyrene	0.39		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.36		0.020	0.10	ug/L
218-01-9	Chrysene	0.37		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.36		0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.35		0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.37		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.38		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.38		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.37		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.37		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		30 (20) - 150 (139)	81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 (30) - 150 (150)	79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		30 (27) - 130 (123)	100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		30 (34) - 130 (132)	95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		30 (35) - 130 (157)	98%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	10500	7.559			
1146-65-2	Naphthalene-d8	28600	10.325			
15067-26-2	Acenaphthene-d10	13200	14.189			
1517-22-2	Phenanthrene-d10	24100	16.942			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162758BSD	SDG No.:	P3609
Lab Sample ID:	PB162758BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033462.D	1	08/15/24 08:23	08/17/24 10:52	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	18300	21.148			
1520-96-3	Perylene-d12	19800	23.317			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081724\
 Data File : BN033462.D
 Acq On : 17 Aug 2024 10:52
 Operator : MA/JU
 Sample : PB162758BSD
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB162758BSD

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024
 Supervised By :mohammad ahmed 08/21/2024

Quant Time: Aug 17 23:21:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 16 04:44:11 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	10549	0.400	ng	-0.01
7) Naphthalene-d8	10.325	136	28597	0.400	ng	#-0.01
13) Acenaphthene-d10	14.189	164	13216	0.400	ng	-0.01
19) Phenanthrene-d10	16.942	188	24103	0.400	ng	-0.01
29) Chrysene-d12	21.148	240	18281	0.400	ng	# 0.00
35) Perylene-d12	23.317	264	19793	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	9971	0.342	ng	0.00
5) Phenol-d6	6.743	99	12106	0.308	ng	0.00
8) Nitrobenzene-d5	8.691	82	8580	0.398	ng	-0.01
11) 2-Methylnaphthalene-d10	11.918	152	14208	0.323	ng	-0.01
14) 2,4,6-Tribromophenol	15.688	330	1802	0.266	ng	-0.01
15) 2-Fluorobiphenyl	12.810	172	20585	0.380	ng	-0.01
27) Fluoranthene-d10	18.984	212	20474	0.318	ng	0.00
31) Terphenyl-d14	19.597	244	13488	0.391	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.190	88	4305	0.367	ng	95
3) n-Nitrosodimethylamine	3.479	42	5047	0.334	ng	# 88
6) bis(2-Chloroethyl)ether	6.996	93	11513	0.361	ng	99
9) Naphthalene	10.368	128	28844	0.366	ng	99
10) Hexachlorobutadiene	10.667	225	5730	0.381	ng	# 99
12) 2-Methylnaphthalene	11.994	142	17562	0.330	ng	99
16) Acenaphthylene	13.911	152	20524	0.333	ng	100
17) Acenaphthene	14.253	154	14609	0.345	ng	98
18) Fluorene	15.247	166	17715	0.317	ng	99
20) 4,6-Dinitro-2-methylph...	15.333	198	581	0.199	ng	# 79
21) 4-Bromophenyl-phenylether	16.147	248	5529	0.383	ng	# 85
22) Hexachlorobenzene	16.259	284	6442	0.398	ng	99
23) Atrazine	16.433	200	3857	0.337	ng	98
24) Pentachlorophenol	16.607	266	2142	0.328	ng	98
25) Phenanthrene	16.979	178	25137	0.361	ng	100
26) Anthracene	17.078	178	21341	0.346	ng	100
28) Fluoranthene	19.012	202	27331	0.319	ng	100
30) Pyrene	19.374	202	28596	0.393	ng	100
32) Benzo(a)anthracene	21.130	228	24613	0.360	ng	99
33) Chrysene	21.184	228	25178	0.366	ng	99
34) Bis(2-ethylhexyl)phtha...	21.095	149	13922	0.449	ng	99
36) Indeno(1,2,3-cd)pyrene	25.478	276	30724	0.376	ng	99
37) Benzo(b)fluoranthene	22.674	252	26660	0.358	ng	94
38) Benzo(k)fluoranthene	22.718	252	26568m	0.349	ng	
39) Benzo(a)pyrene	23.224	252	22930	0.365	ng	# 93
40) Dibenzo(a,h)anthracene	25.493	278	24466	0.379	ng	99
41) Benzo(g,h,i)perylene	26.130	276	26336	0.368	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081724\
 Data File : BN033462.D
 Acq On : 17 Aug 2024 10:52
 Operator : MA/JU
 Sample : PB162758BSD
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :

BNA_N

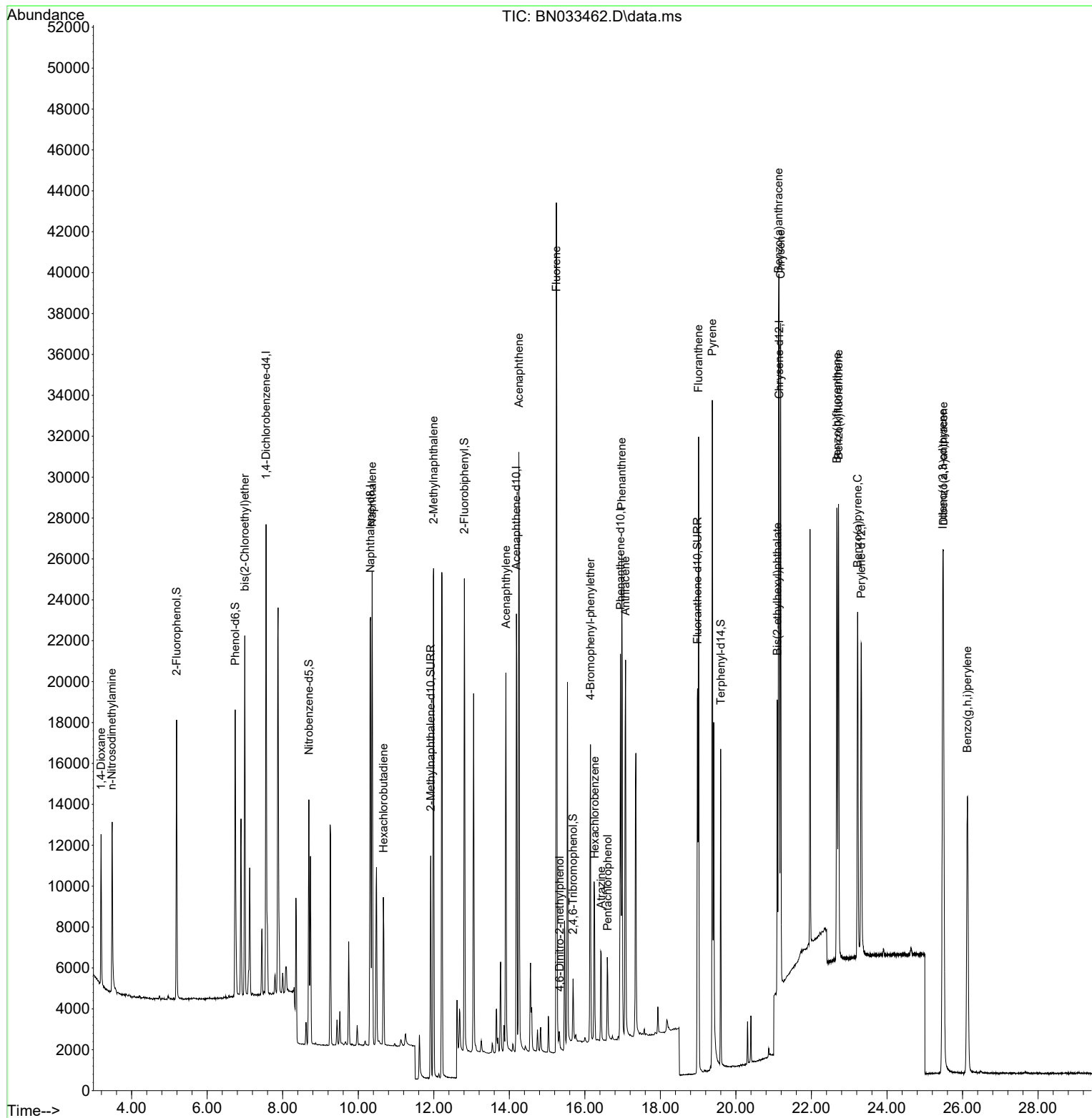
ClientSampleId :

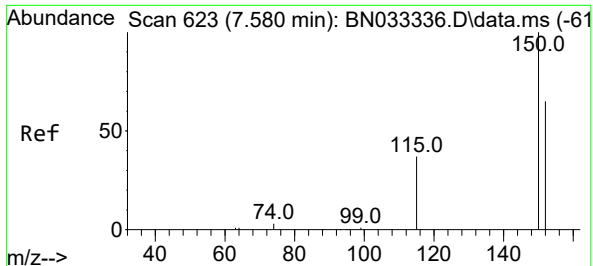
PB162758BSD

Manual Integrations**APPROVED**

Reviewed By :Jagrut Upadhyay 08/19/2024
 Supervised By :mohammad ahmed 08/21/2024

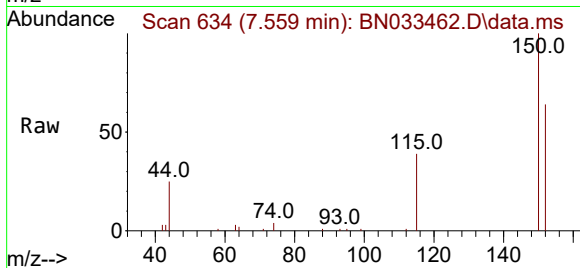
Quant Time: Aug 17 23:21:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 16 04:44:11 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

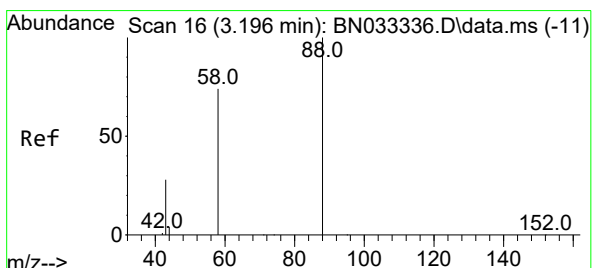
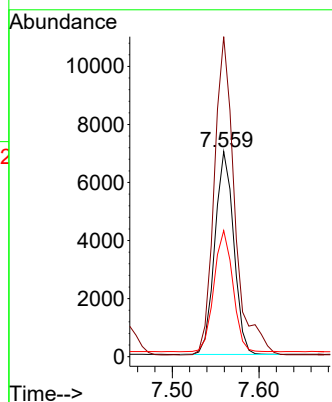
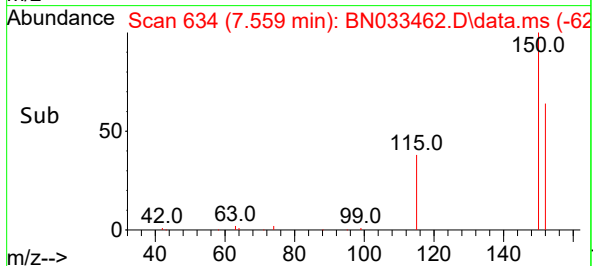
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



Tgt Ion:152 Resp: 10549
Ion Ratio Lower Upper
152 100
150 156.0 122.3 183.5
115 61.5 48.8 73.2

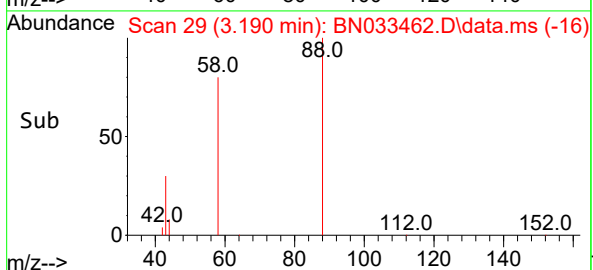
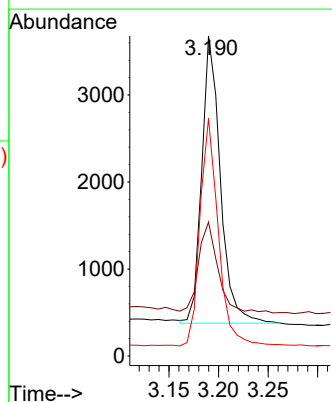
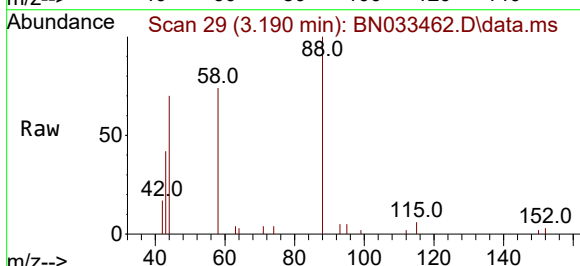
Manual Integrations
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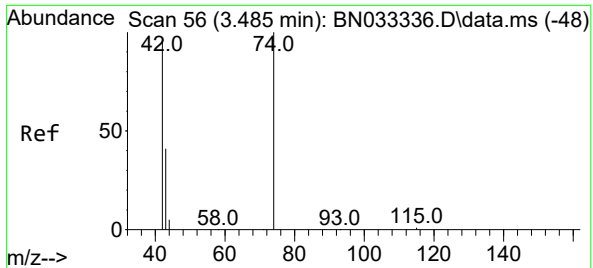
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#2
1,4-Dioxane
Concen: 0.367 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

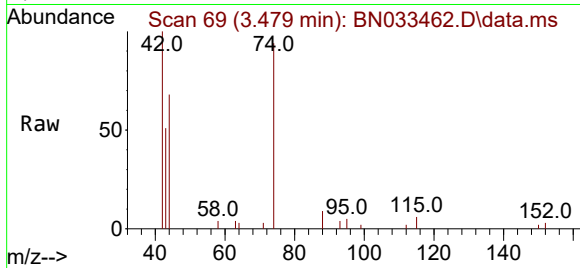
Tgt Ion: 88 Resp: 4305
Ion Ratio Lower Upper
88 100
43 33.0 30.6 46.0
58 78.0 64.5 96.7





#3
n-Nitrosodimethylamine
Concen: 0.334 ng
RT: 3.479 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

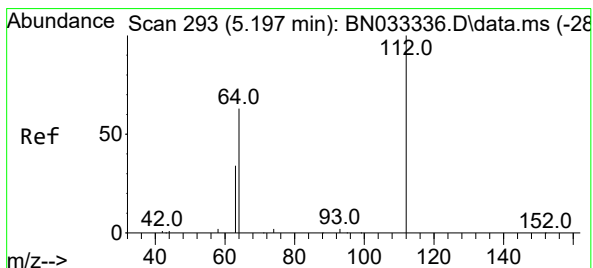
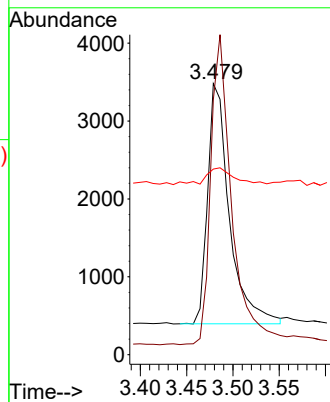
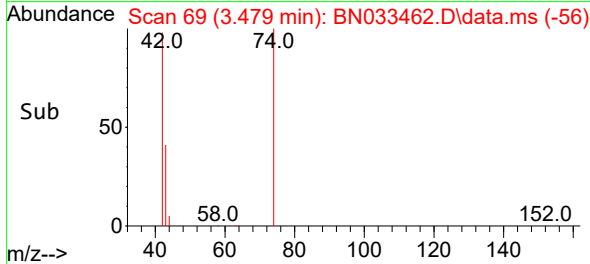
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



Tgt Ion: 42 Resp: 504
Ion Ratio Lower Upper
42 100
74 124.4 89.0 133.6
44 8.5 11.0 16.4

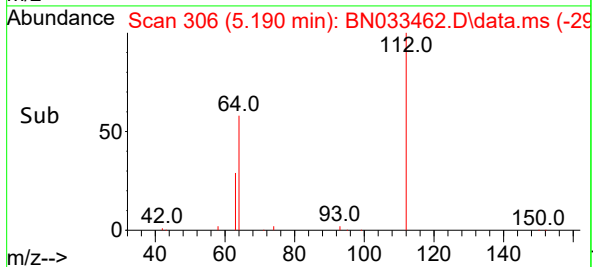
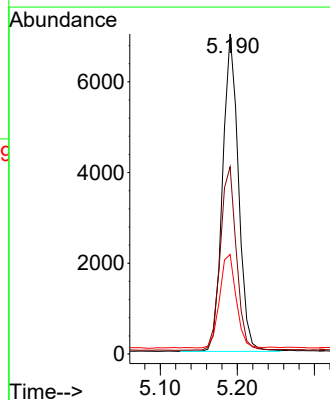
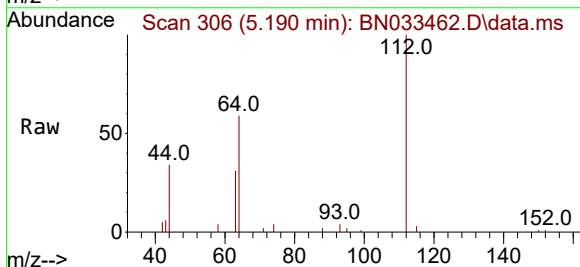
Manual Integrations
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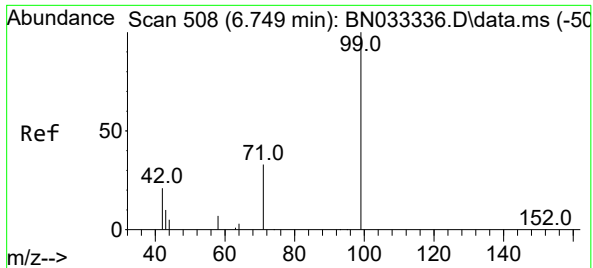
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#4
2-Fluorophenol
Concen: 0.342 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.007 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

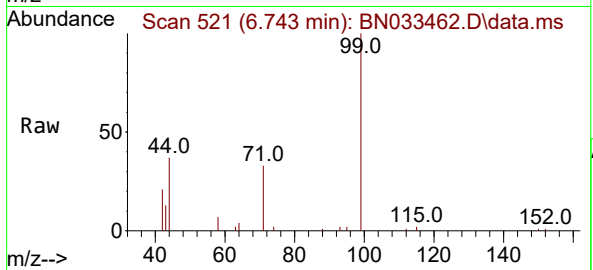
Tgt Ion:112 Resp: 9971
Ion Ratio Lower Upper
112 100
64 59.0 48.1 72.1
63 30.7 25.4 38.2





#5
Phenol-d6
Concen: 0.308 ng
RT: 6.743 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

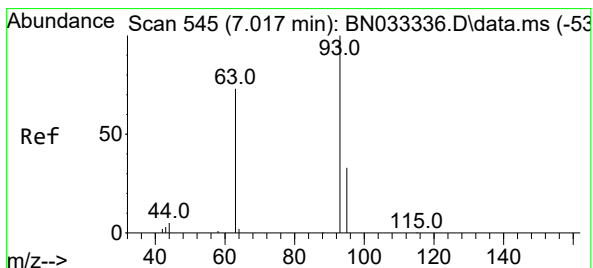
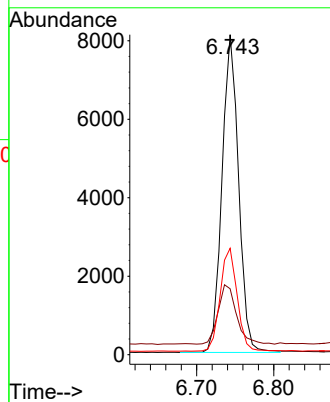
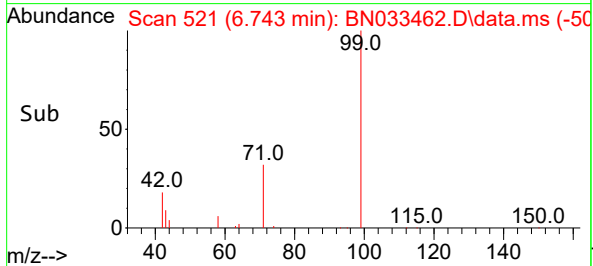
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



Tgt Ion: 99 Resp: 12100
Ion Ratio Lower Upper
99 100
42 20.6 18.5 27.7
71 33.4 26.2 39.2

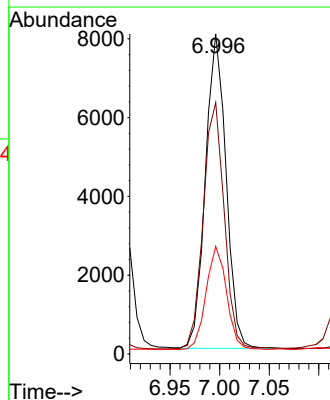
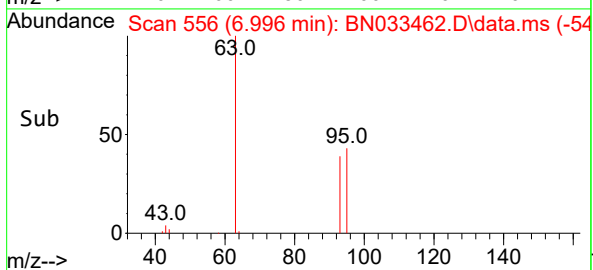
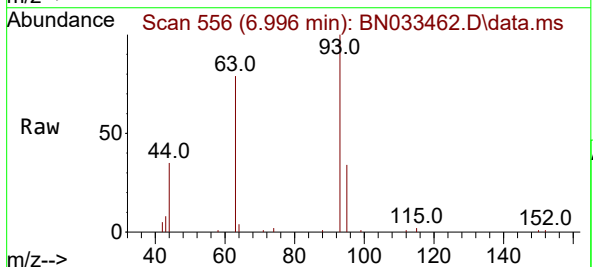
Manual Integrations
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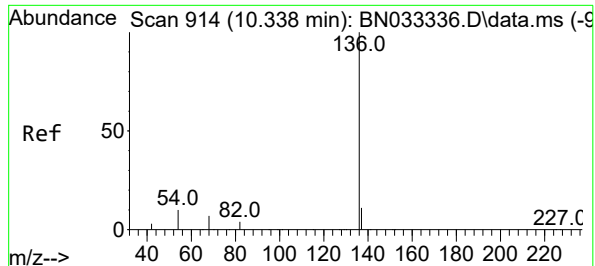
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.361 ng
RT: 6.996 min Scan# 556
Delta R.T. -0.007 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

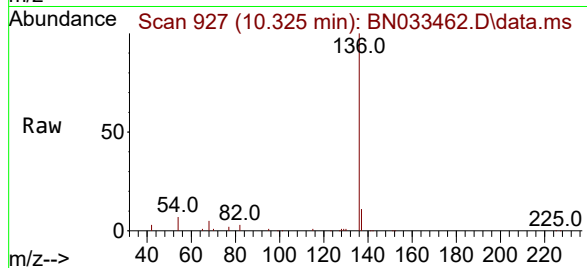
Tgt Ion: 93 Resp: 11513
Ion Ratio Lower Upper
93 100
63 80.0 65.2 97.8
95 32.5 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.325 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

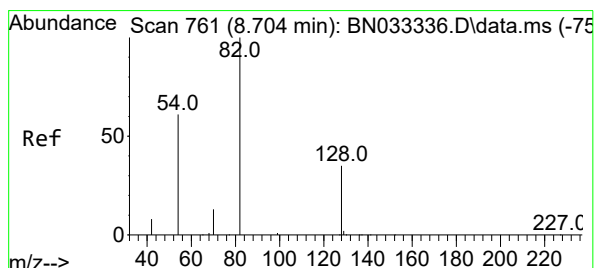
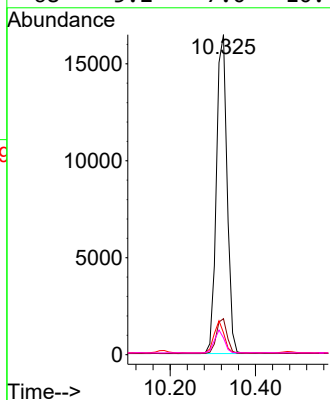
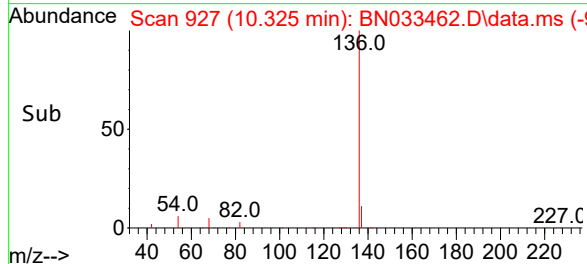
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



Tgt Ion: 136 Resp: 2859
Ion Ratio Lower Upper
136 100
137 11.3 9.1 13.7
54 6.9 9.4 14.0
68 5.2 7.0 10.4#

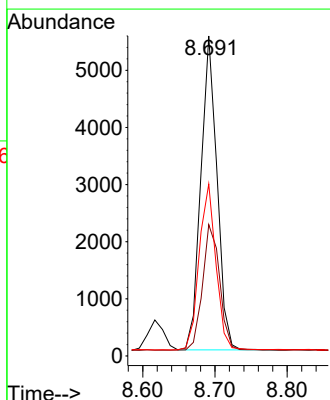
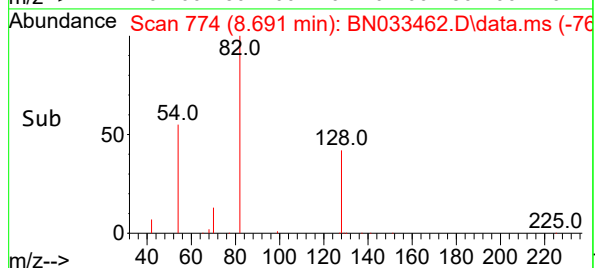
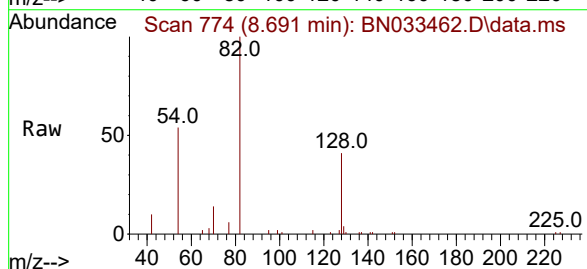
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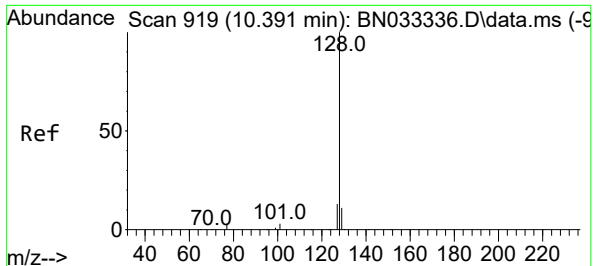
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.011 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

Tgt Ion: 82 Resp: 8580
Ion Ratio Lower Upper
82 100
128 41.0 29.0 43.4
54 53.7 50.2 75.4





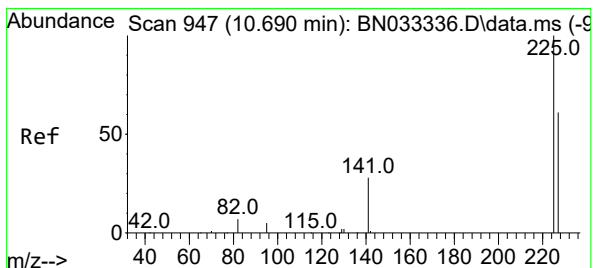
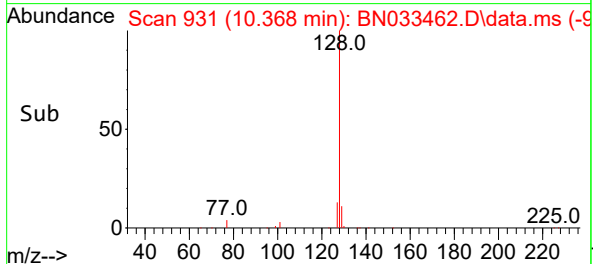
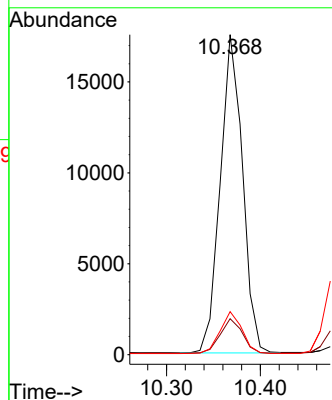
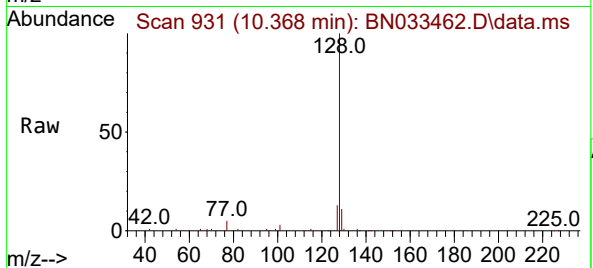
#9
Naphthalene
Concen: 0.366 ng
RT: 10.368 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

Instrument :
BNA_N
ClientSampleId :
PB162758BSD

Tgt Ion:128 Resp: 2884
Ion Ratio Lower Upper
128 100
129 11.3 9.2 13.8
127 13.4 10.6 15.8

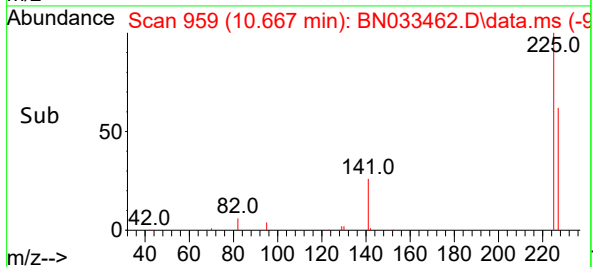
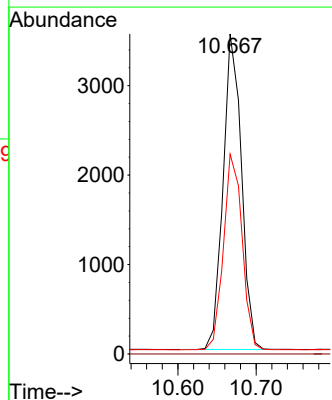
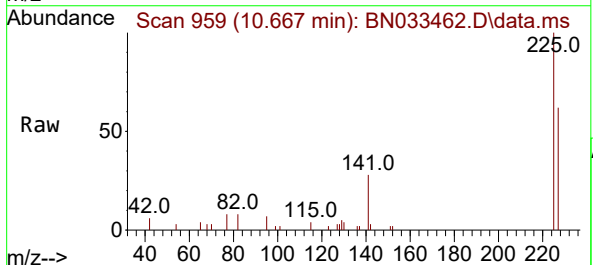
Manual Integrations
APPROVED

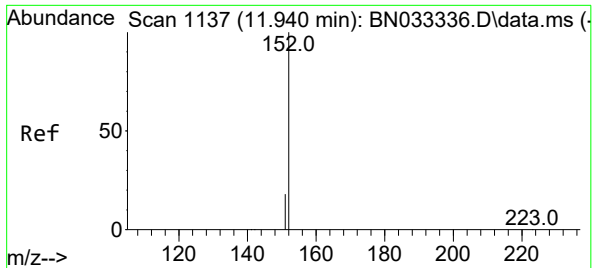
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#10
Hexachlorobutadiene
Concen: 0.381 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.021 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

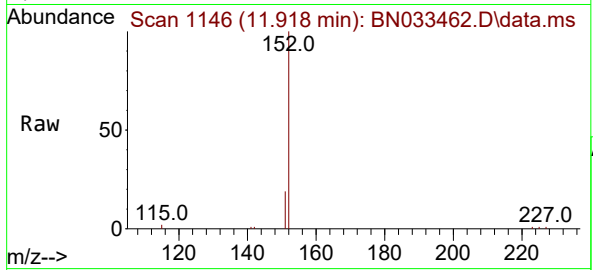
Tgt Ion:225 Resp: 5730
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.1 50.8 76.2





#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 11.918 min Scan# 1166
Delta R.T. -0.011 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

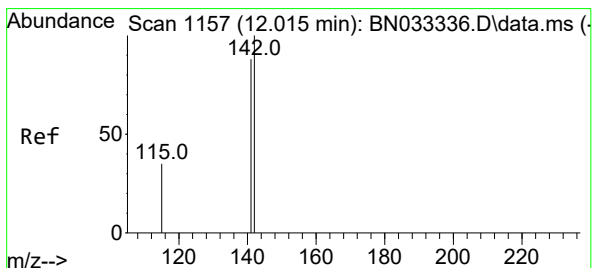
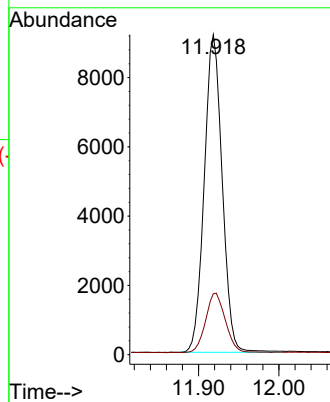
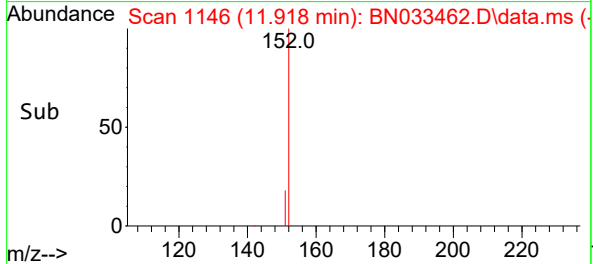
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



Tgt Ion:152 Resp: 14208
Ion Ratio Lower Upper
152 100
151 20.6 16.7 25.1

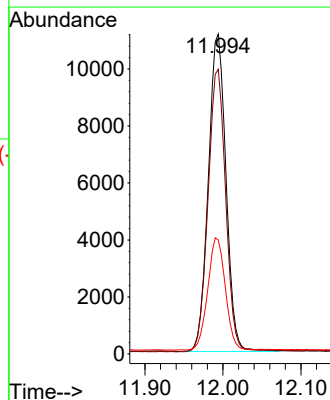
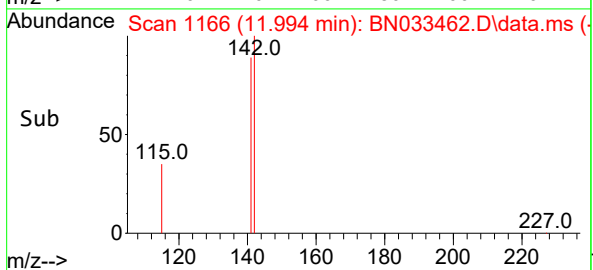
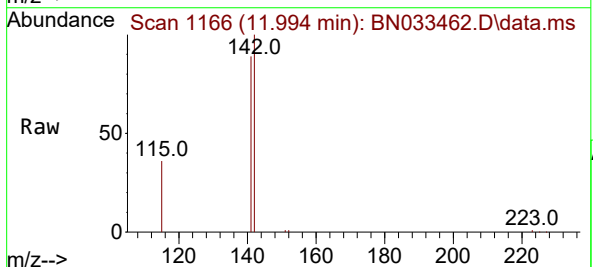
Manual Integrations
APPROVED

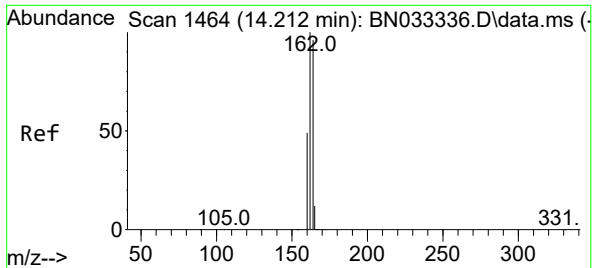
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#12
2-Methylnaphthalene
Concen: 0.330 ng
RT: 11.994 min Scan# 1166
Delta R.T. -0.011 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

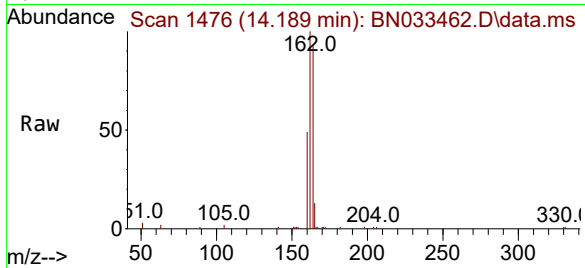
Tgt Ion:142 Resp: 17562
Ion Ratio Lower Upper
142 100
141 89.0 70.2 105.4
115 35.6 29.3 43.9





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

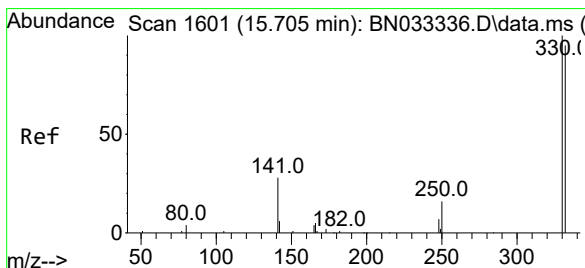
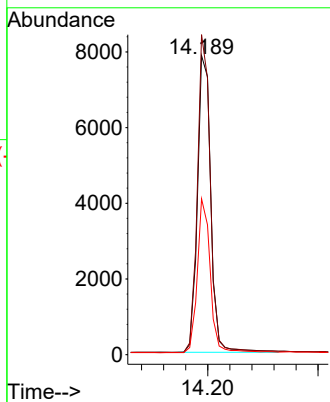
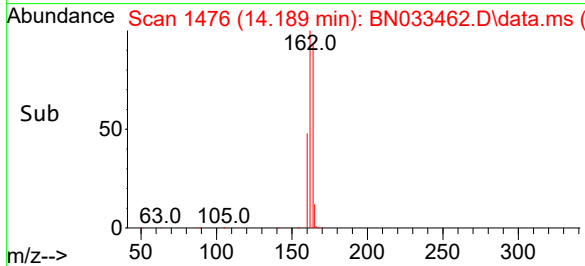
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



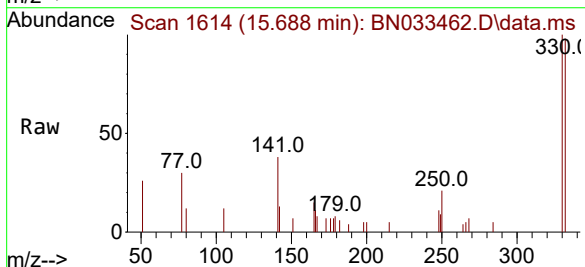
Tgt Ion:164 Resp: 13210
Ion Ratio Lower Upper
164 100
162 107.0 83.1 124.7
160 52.1 41.1 61.7

Manual Integrations
APPROVED

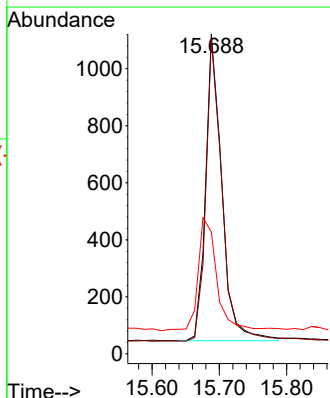
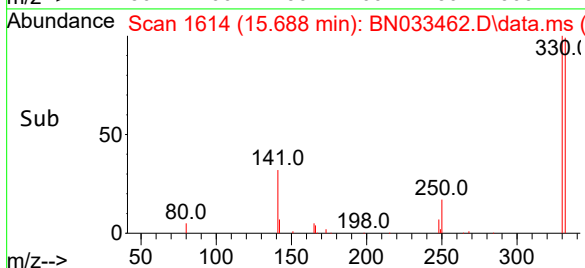
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

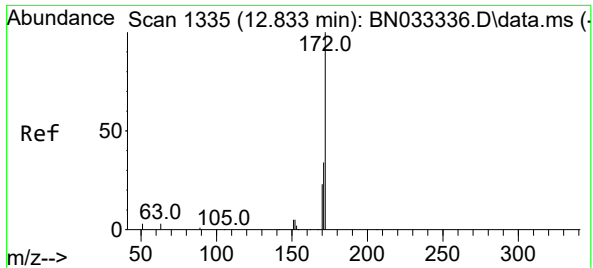


#14
2,4,6-Tribromophenol
Concen: 0.266 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.012 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52



Tgt Ion:330 Resp: 1802
Ion Ratio Lower Upper
330 100
332 97.8 77.1 115.7
141 43.0 33.4 50.0





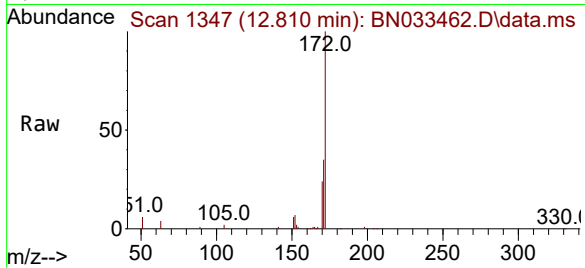
#15
2-Fluorobiphenyl
Concen: 0.380 ng
RT: 12.810 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

Instrument :

BNA_N

ClientSampleId :

PB162758BSD

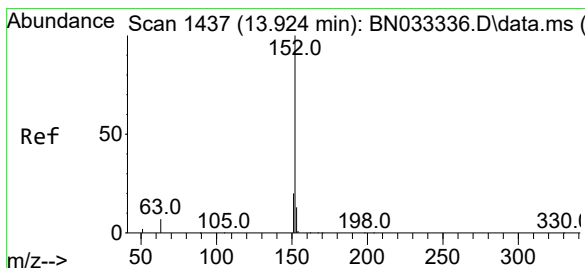
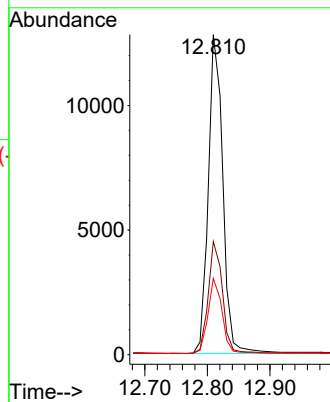
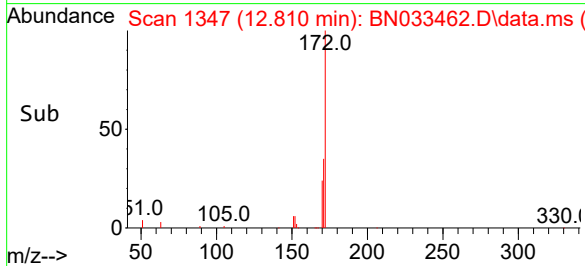


Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	27.8	41.8
170	23.8	18.7	28.1

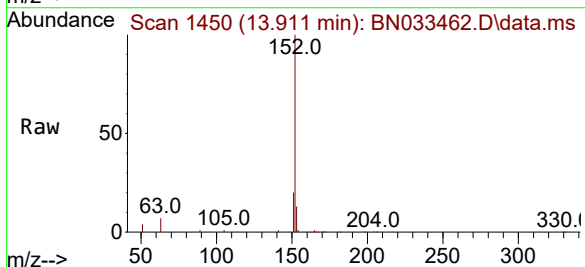
Manual Integrations

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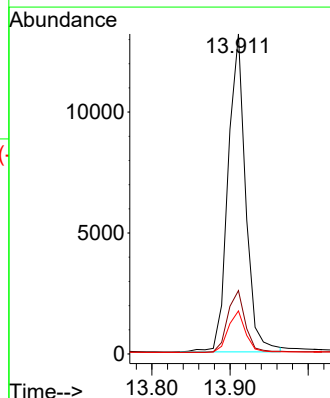
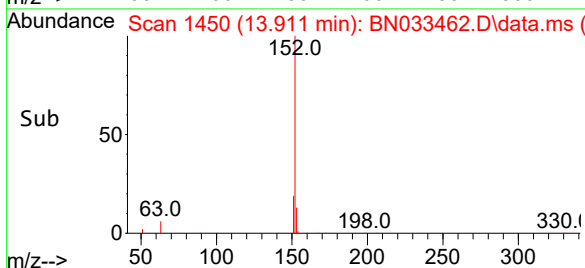
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

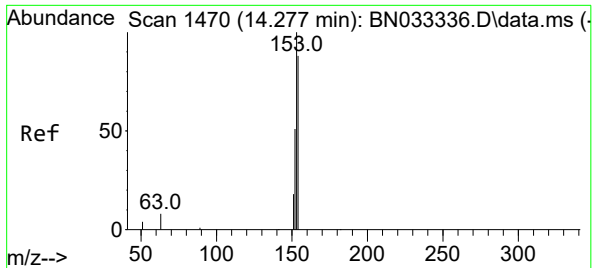


#16
Acenaphthylene
Concen: 0.333 ng
RT: 13.911 min Scan# 1450
Delta R.T. -0.011 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52



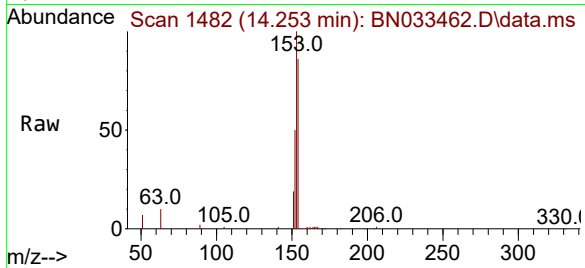
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.7	23.5
153	12.9	10.4	15.6





#17
Acenaphthene
Concen: 0.345 ng
RT: 14.253 min Scan# 1482
Delta R.T. -0.011 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

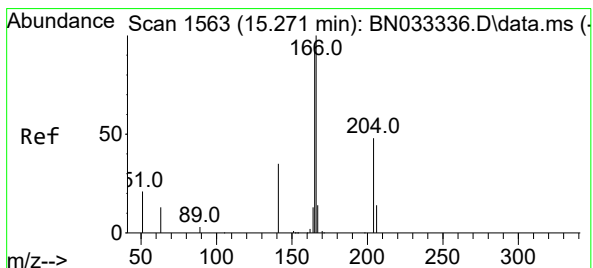
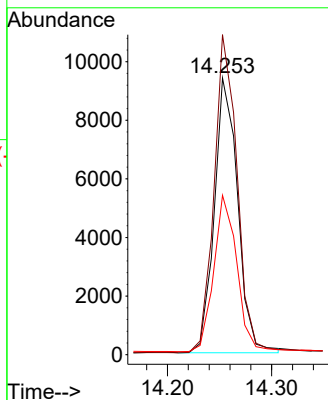
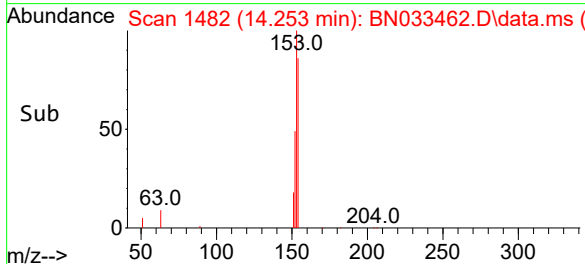
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



Tgt Ion:154 Resp: 14609
Ion Ratio Lower Upper
154 100
153 113.5 89.7 134.5
152 56.2 47.2 70.8

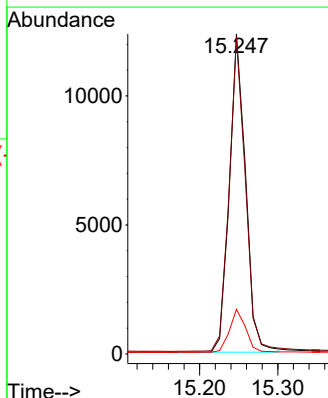
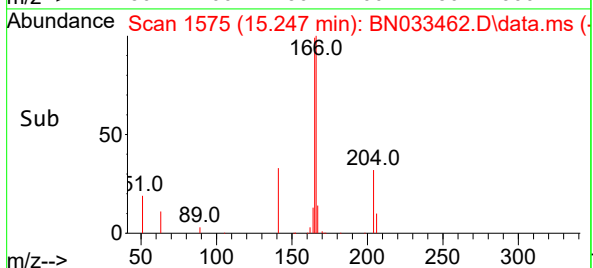
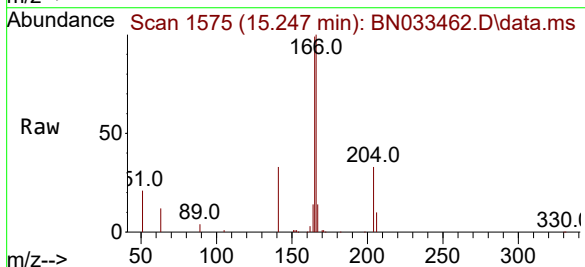
Manual Integrations
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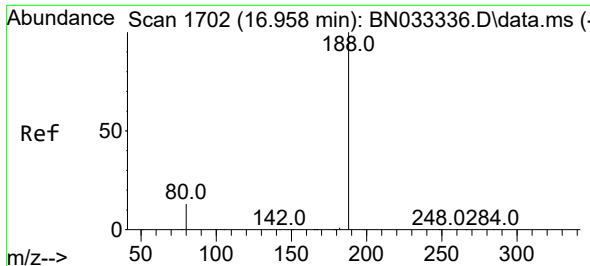
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#18
Fluorene
Concen: 0.317 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

Tgt Ion:166 Resp: 17715
Ion Ratio Lower Upper
166 100
165 98.3 78.0 117.0
167 13.6 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 11

Delta R.T. -0.012 min

Lab File: BN033462.D

Acq: 17 Aug 2024 10:52

Instrument :

BNA_N

ClientSampleId :

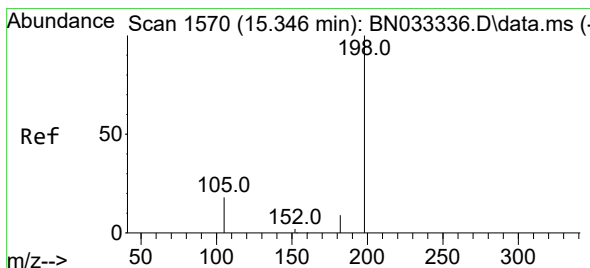
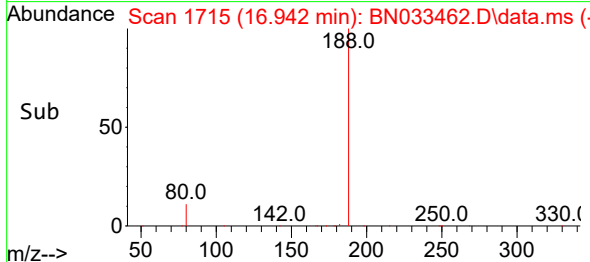
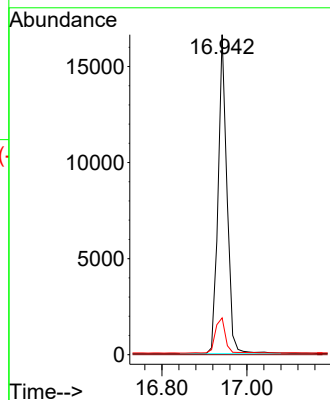
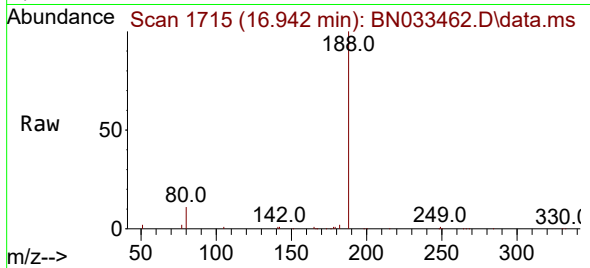
PB162758BSD

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.5	10.7	16.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.199 ng

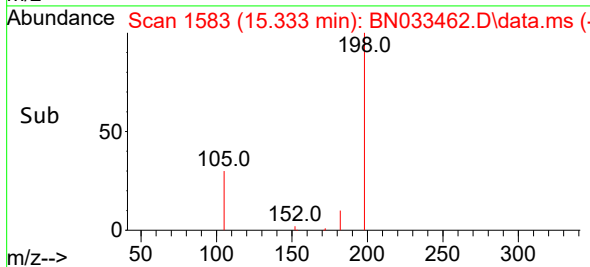
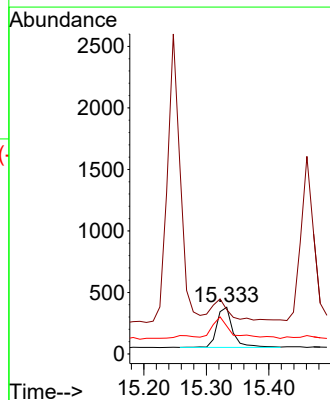
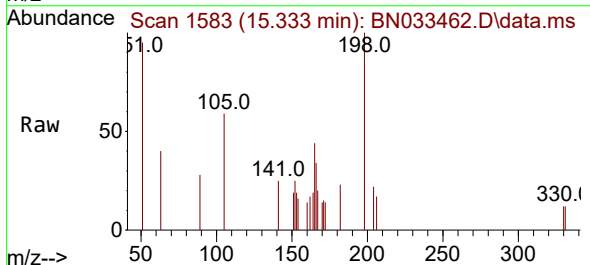
RT: 15.333 min Scan# 1583

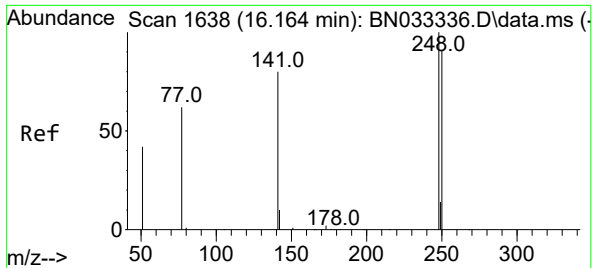
Delta R.T. -0.000 min

Lab File: BN033462.D

Acq: 17 Aug 2024 10:52

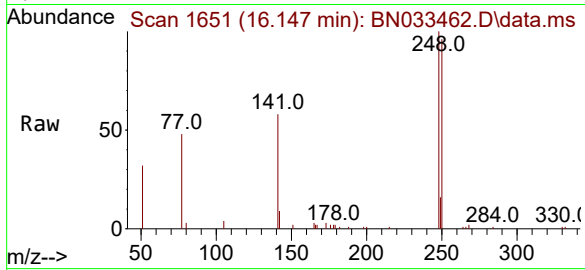
Tgt Ion	Ratio	Lower	Upper
198	100		
51	94.7	62.8	94.2#
105	59.5	34.1	51.1#





#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.012 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

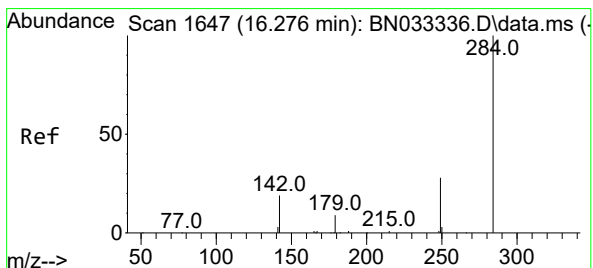
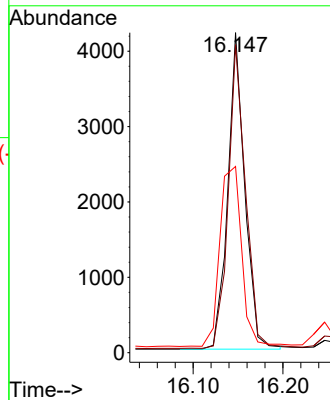
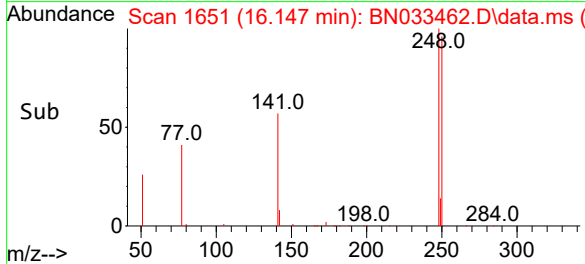
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



Tgt Ion:248 Resp: 5529
Ion Ratio Lower Upper
248 100
250 96.3 73.0 109.4
141 58.2 64.6 96.8

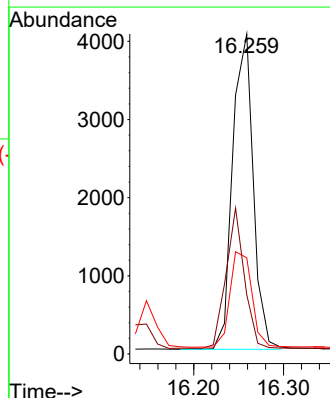
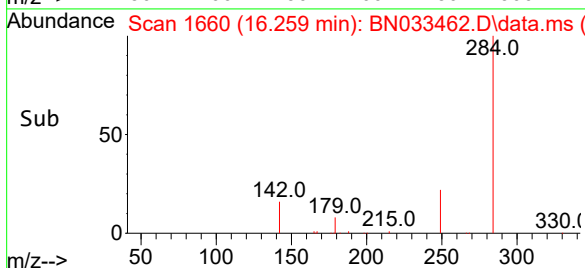
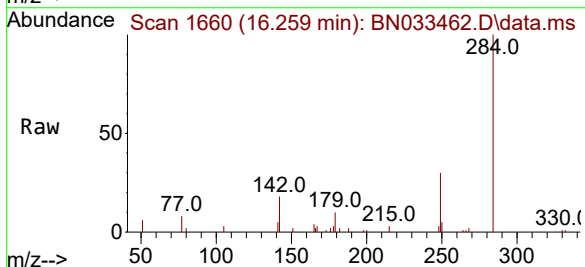
Manual Integrations
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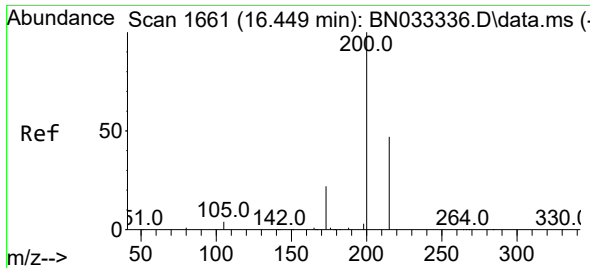
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#22
Hexachlorobenzene
Concen: 0.398 ng
RT: 16.259 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

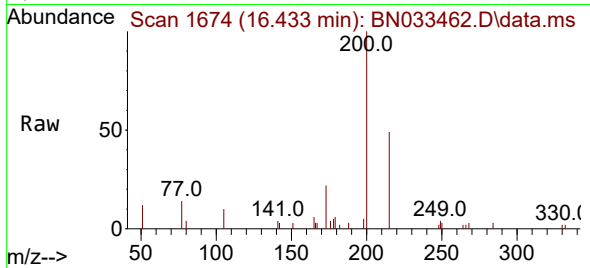
Tgt Ion:284 Resp: 6442
Ion Ratio Lower Upper
284 100
142 39.5 32.2 48.4
249 32.1 25.3 37.9





#23
Atrazine
Concen: 0.337 ng
RT: 16.433 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

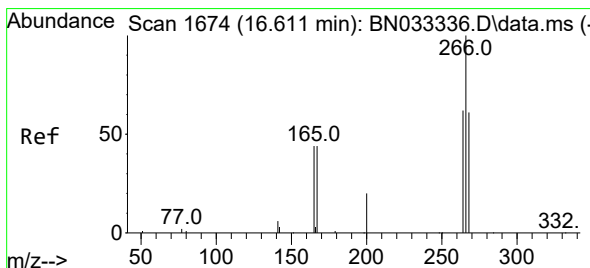
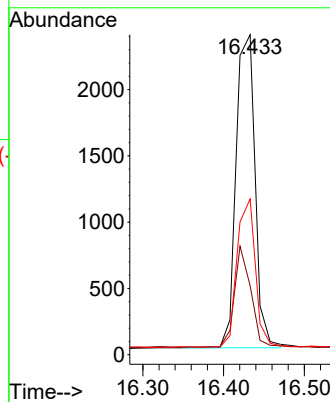
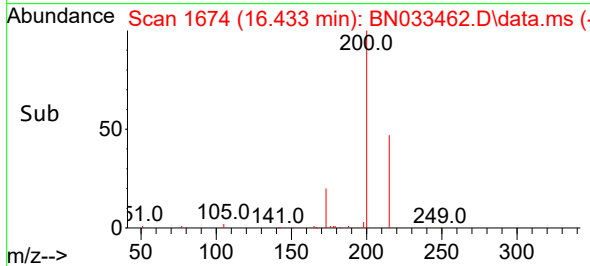
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



Tgt Ion:200 Resp: 385
Ion Ratio Lower Upper
200 100
173 21.5 18.7 28.1
215 48.7 38.6 58.0

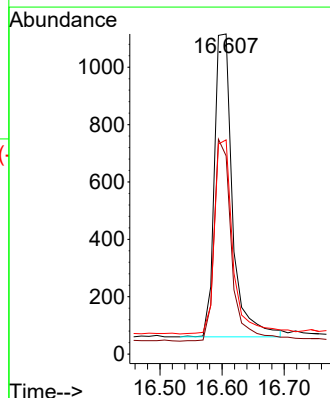
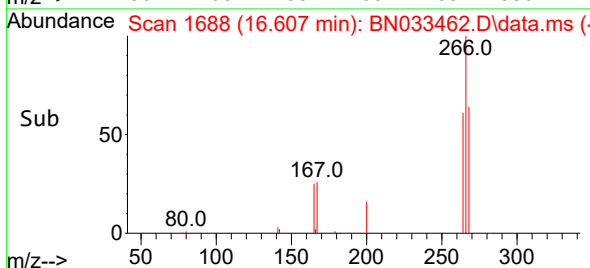
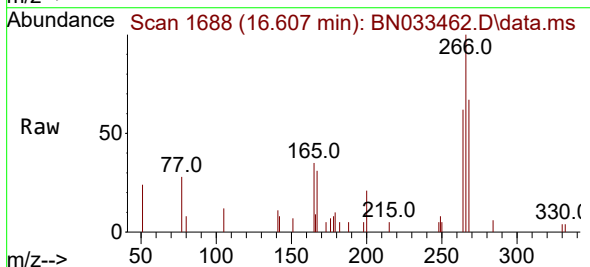
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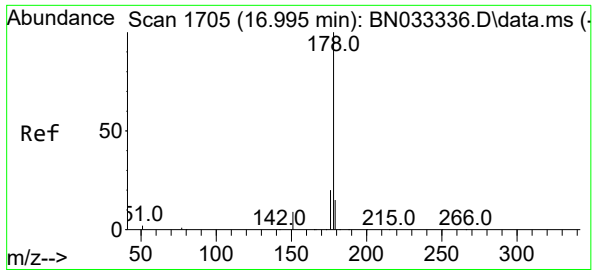
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#24
Pentachlorophenol
Concen: 0.328 ng
RT: 16.607 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

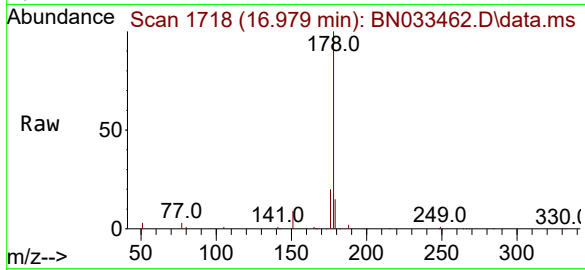
Tgt Ion:266 Resp: 2142
Ion Ratio Lower Upper
266 100
264 64.3 49.2 73.8
268 64.5 51.2 76.8





#25
Phenanthrene
Concen: 0.361 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.012 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

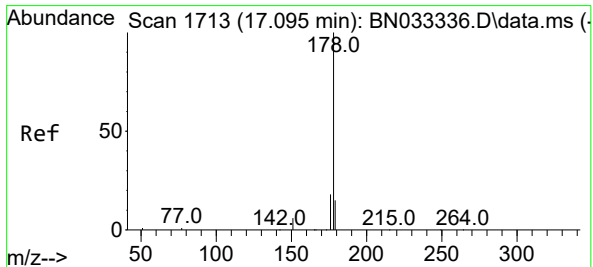
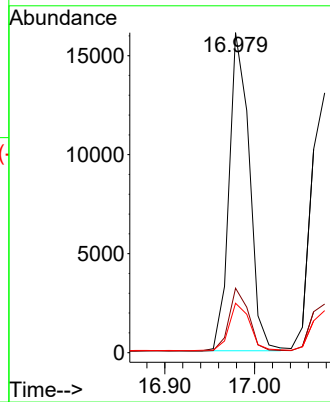
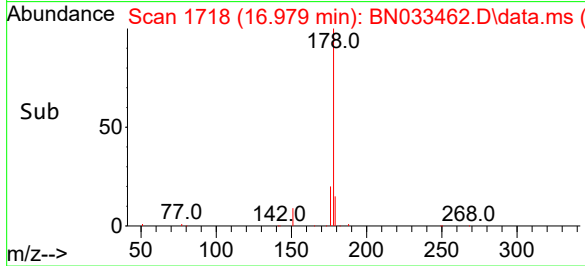
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



Tgt Ion:178 Resp: 2513
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.3 12.2 18.2

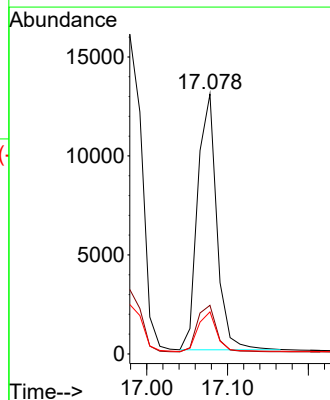
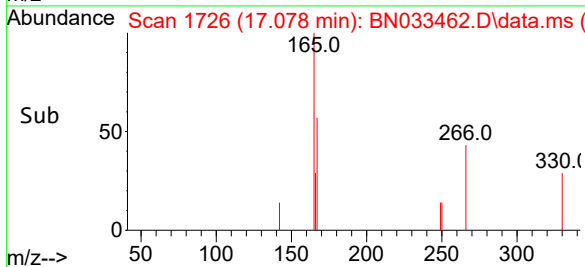
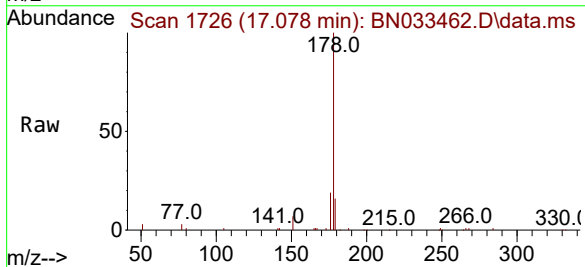
Manual Integrations
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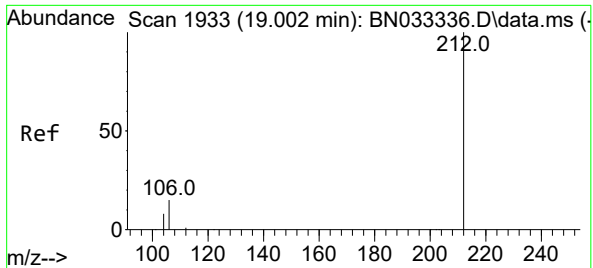
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#26
Anthracene
Concen: 0.346 ng
RT: 17.078 min Scan# 1726
Delta R.T. -0.000 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

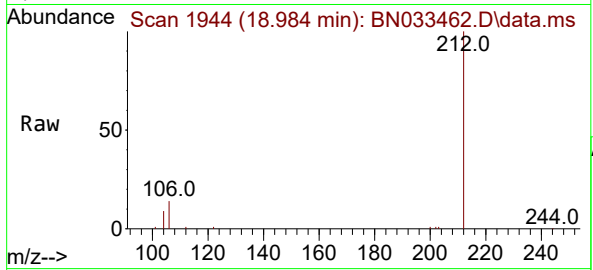
Tgt Ion:178 Resp: 21341
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 15.4 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.318 ng
RT: 18.984 min Scan# 1944
Delta R.T. -0.009 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

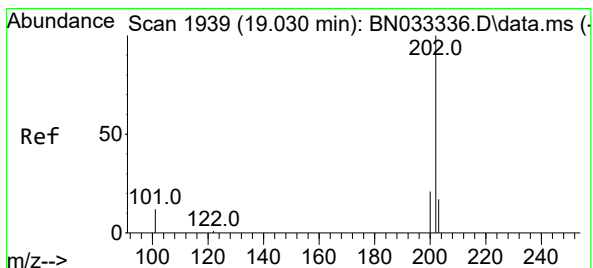
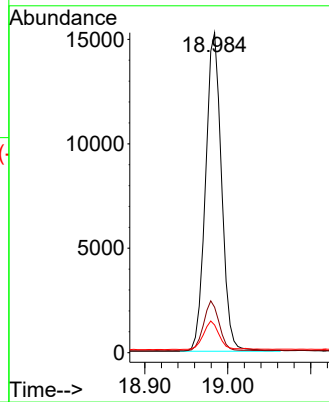
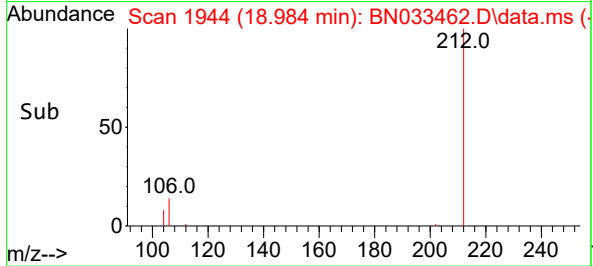
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



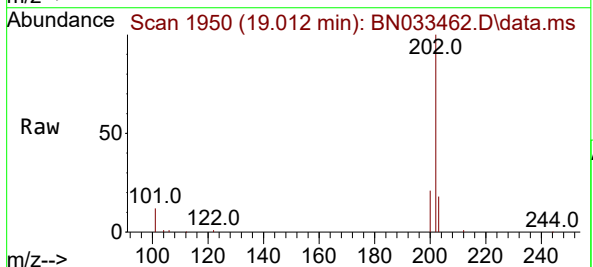
Tgt Ion:212 Resp: 20474
Ion Ratio Lower Upper
212 100
106 15.4 12.8 19.2
104 9.1 7.1 10.7

Manual Integrations
APPROVED

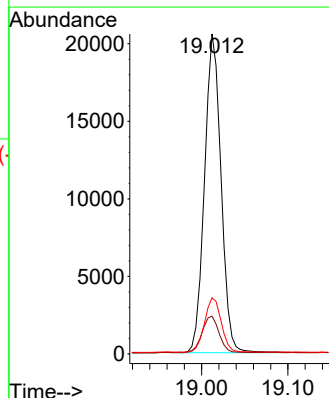
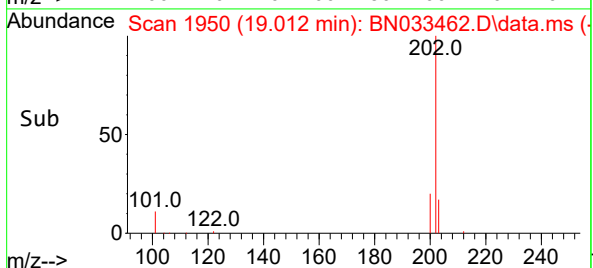
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

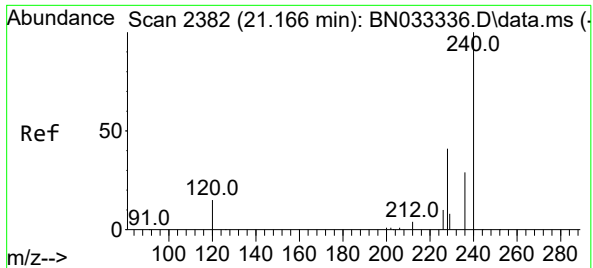


#28
Fluoranthene
Concen: 0.319 ng
RT: 19.012 min Scan# 1950
Delta R.T. -0.009 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52



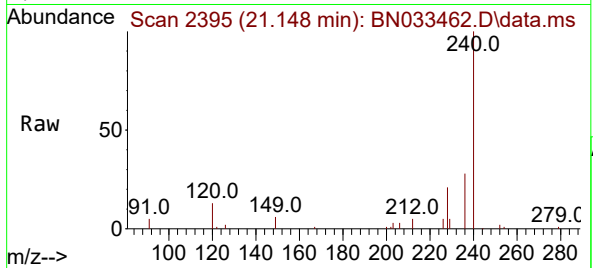
Tgt Ion:202 Resp: 27331
Ion Ratio Lower Upper
202 100
101 12.0 9.8 14.6
203 17.2 13.8 20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

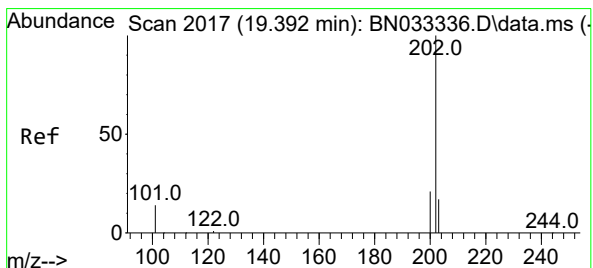
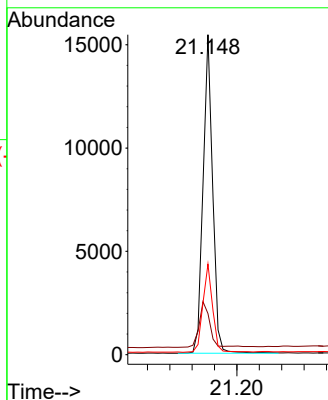
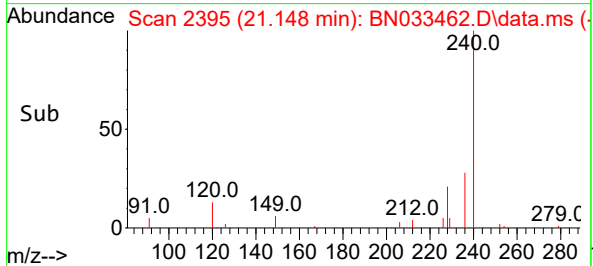
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



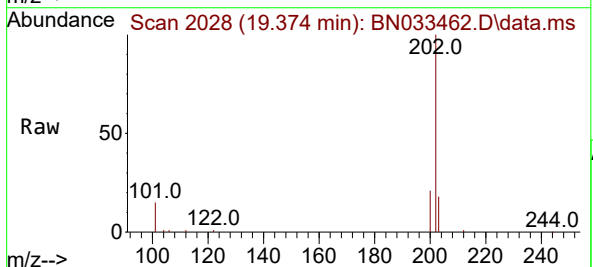
Tgt Ion:240 Resp: 1828
Ion Ratio Lower Upper
240 100
120 12.9 13.0 19.6
236 28.3 23.2 34.8

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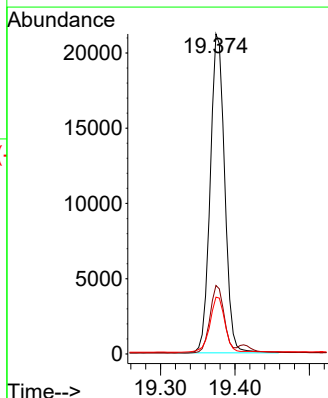
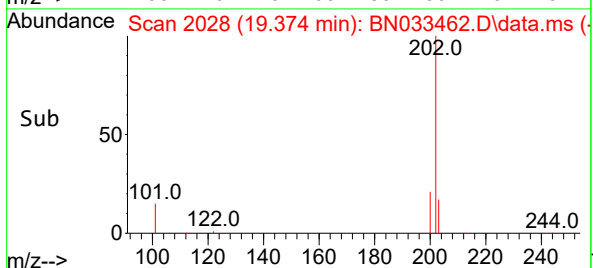
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

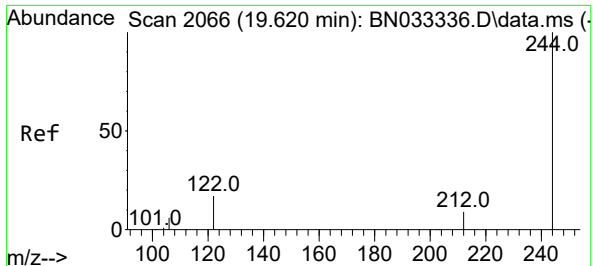


#30
Pyrene
Concen: 0.393 ng
RT: 19.374 min Scan# 2028
Delta R.T. -0.009 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52



Tgt Ion:202 Resp: 28596
Ion Ratio Lower Upper
202 100
200 21.1 16.7 25.1
203 18.0 14.2 21.4





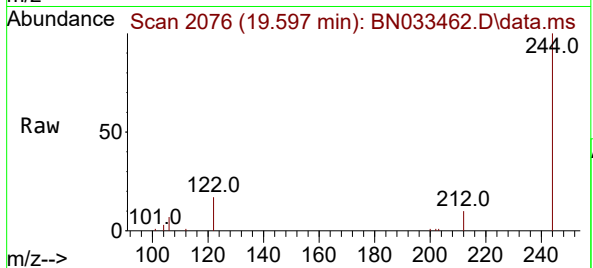
#31
Terphenyl-d14
Concen: 0.391 ng
RT: 19.597 min Scan# 2066
Delta R.T. -0.009 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

Instrument :

BNA_N

ClientSampleId :

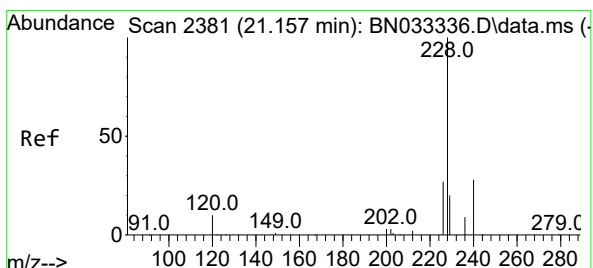
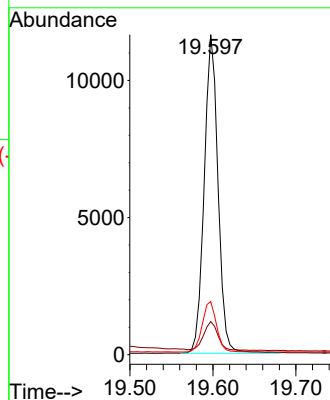
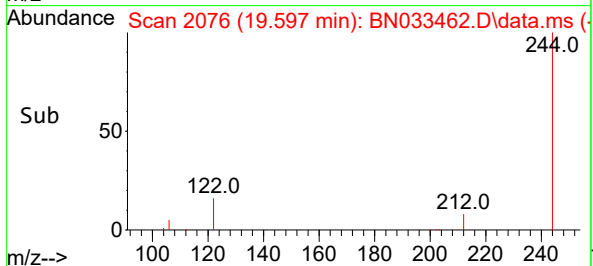
PB162758BSD



Tgt Ion:244 Resp: 13488
Ion Ratio Lower Upper
244 100
212 10.3 7.7 11.5
122 16.6 14.0 21.0

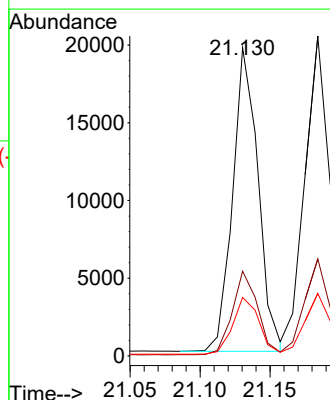
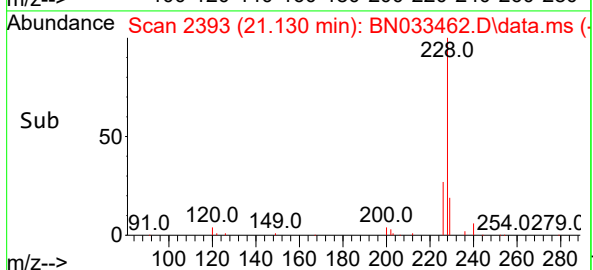
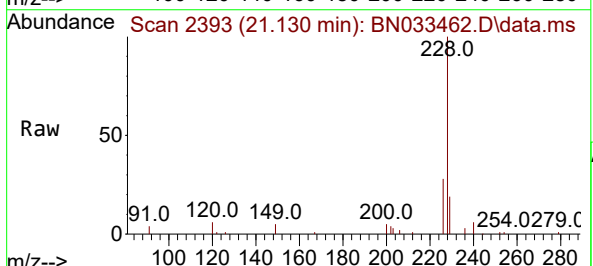
Manual Integrations
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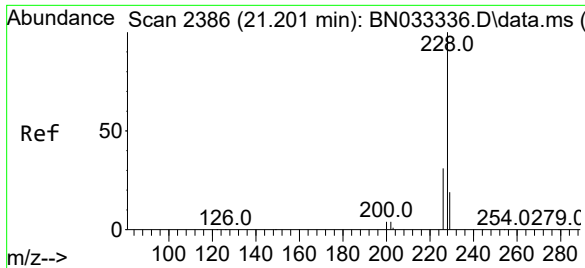
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#32
Benzo(a)anthracene
Concen: 0.360 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.009 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

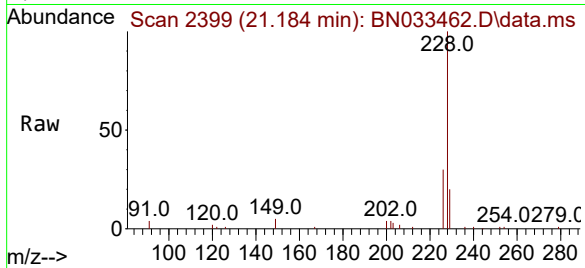
Tgt Ion:228 Resp: 24613
Ion Ratio Lower Upper
228 100
226 27.5 21.6 32.4
229 19.0 15.9 23.9





#33
Chrysene
Concen: 0.366 ng
RT: 21.184 min Scan# 21184
Delta R.T. -0.009 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

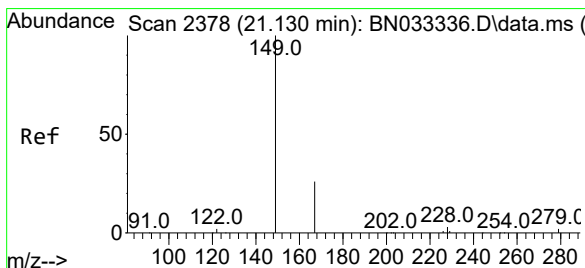
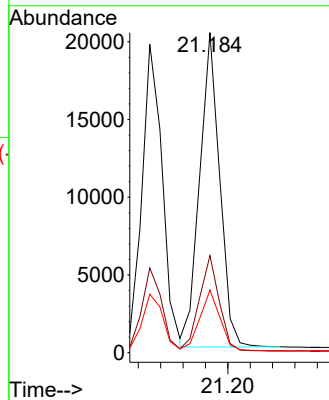
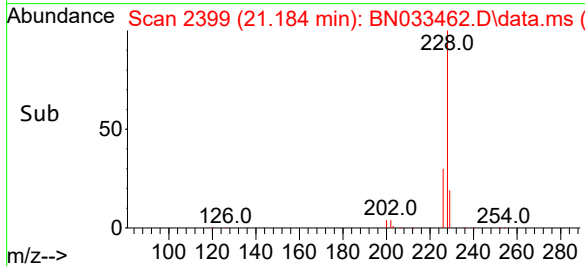
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



Tgt Ion: 228 Resp: 25178
Ion Ratio Lower Upper
228 100
226 30.3 24.7 37.1
229 19.6 15.4 23.2

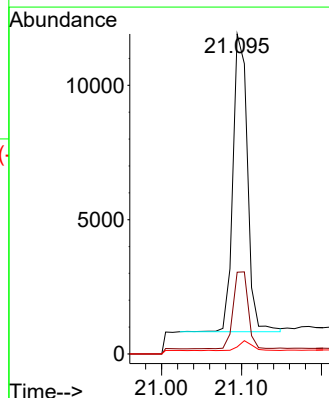
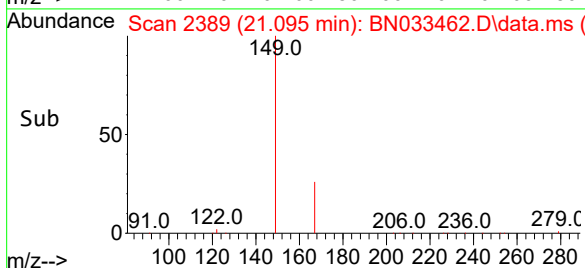
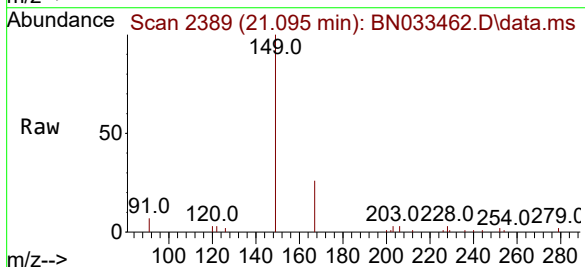
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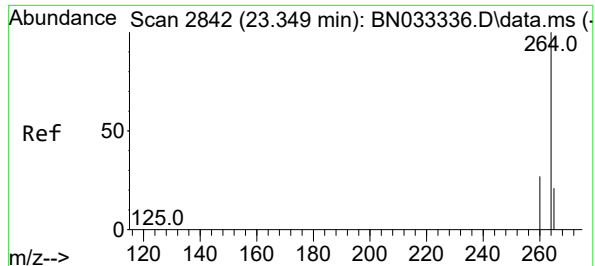
Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.449 ng
RT: 21.095 min Scan# 2389
Delta R.T. -0.018 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

Tgt Ion: 149 Resp: 13922
Ion Ratio Lower Upper
149 100
167 26.6 20.9 31.3
279 3.1 2.2 3.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.317 min Scan# 2846

Delta R.T. -0.015 min

Lab File: BN033462.D

Acq: 17 Aug 2024 10:52

Instrument :

BNA_N

ClientSampleId :

PB162758BSD

Tgt Ion:264 Resp: 1979

Ion Ratio Lower Upper

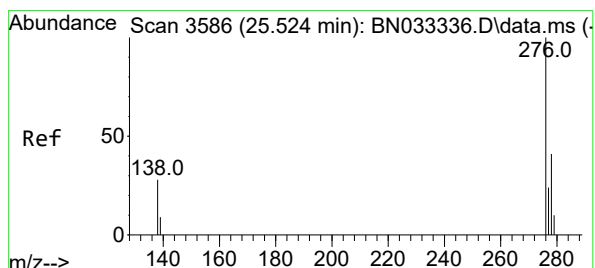
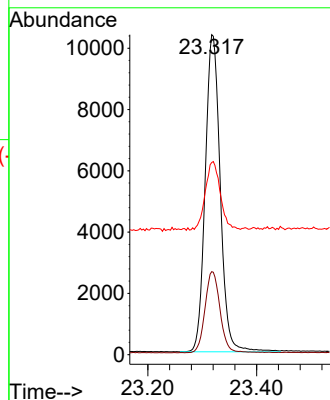
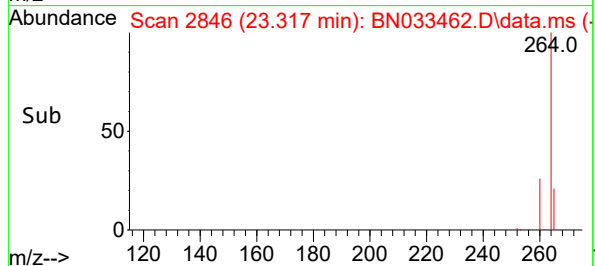
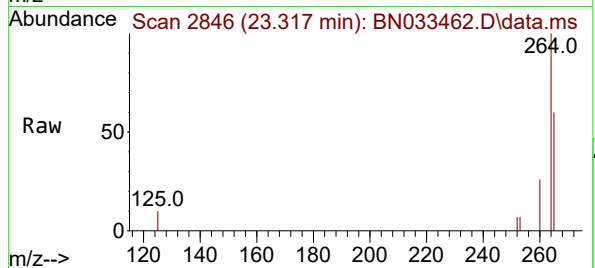
264 100

260 26.0 21.6 32.4

265 60.0 29.3 43.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024

#36

Indeno(1,2,3-cd)pyrene

Concen: 0.376 ng

RT: 25.478 min Scan# 3585

Delta R.T. -0.020 min

Lab File: BN033462.D

Acq: 17 Aug 2024 10:52

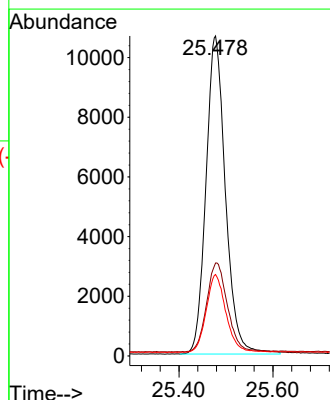
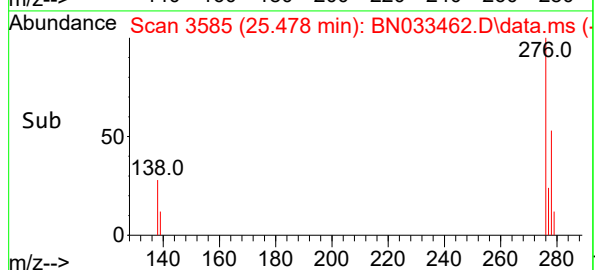
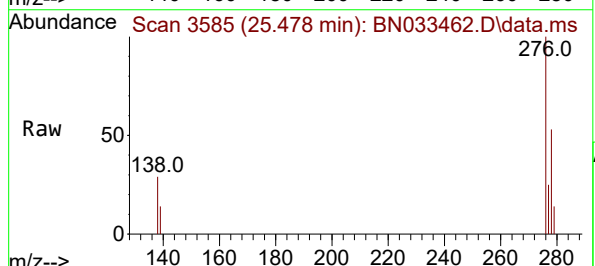
Tgt Ion:276 Resp: 30724

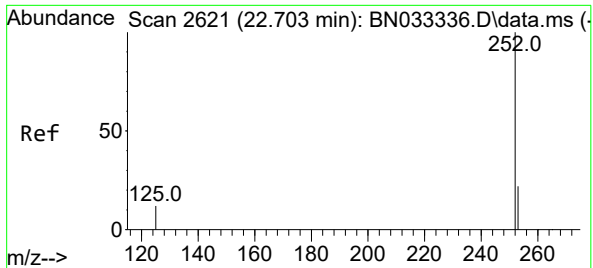
Ion Ratio Lower Upper

276 100

138 29.7 24.9 37.3

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.358 ng

RT: 22.674 min Scan# 2641

Delta R.T. -0.012 min

Lab File: BN033462.D

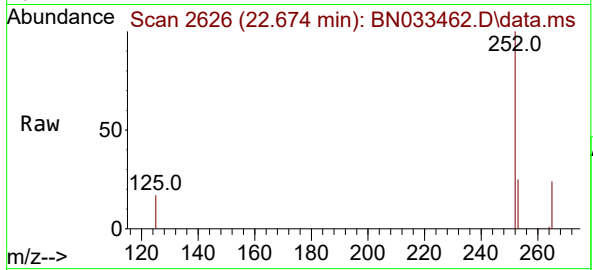
Acq: 17 Aug 2024 10:52

Instrument :

BNA_N

ClientSampleId :

PB162758BSD



Tgt Ion:252 Resp: 26660

Ion Ratio Lower Upper

252 100

253 25.4 18.2 27.2

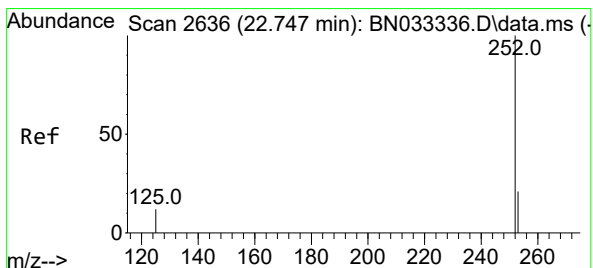
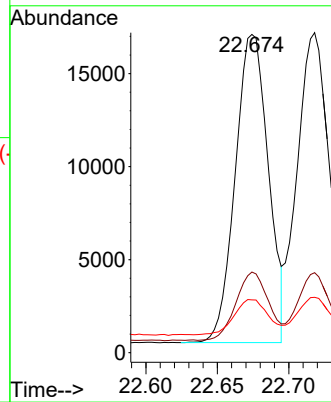
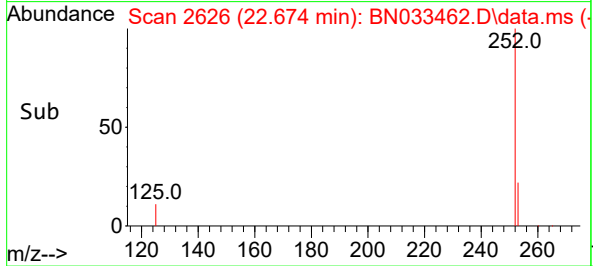
125 16.6 11.3 16.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/19/2024

Supervised By :mohammad ahmed 08/21/2024



#38

Benzo(k)fluoranthene

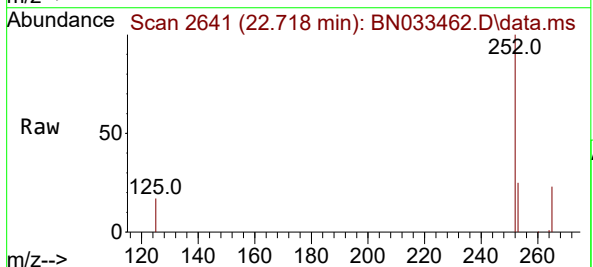
Concen: 0.349 ng m

RT: 22.718 min Scan# 2641

Delta R.T. -0.012 min

Lab File: BN033462.D

Acq: 17 Aug 2024 10:52



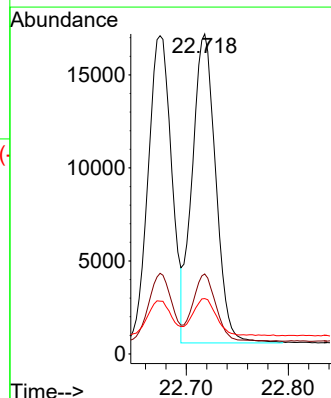
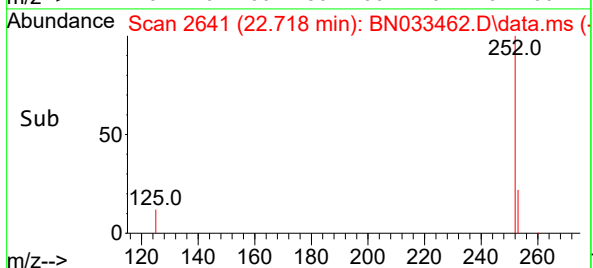
Tgt Ion:252 Resp: 26568

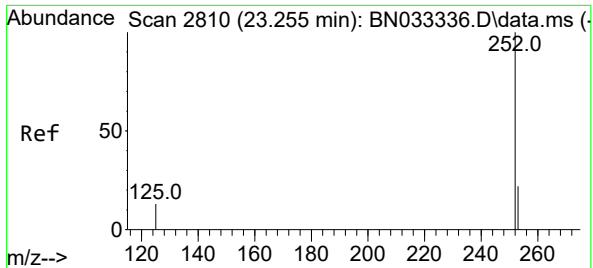
Ion Ratio Lower Upper

252 100

253 25.0 17.9 26.9

125 17.3 11.3 16.9#





#39

Benzo(a)pyrene

Concen: 0.365 ng

RT: 23.224 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN033462.D

Acq: 17 Aug 2024 10:52

Instrument :

BNA_N

ClientSampleId :

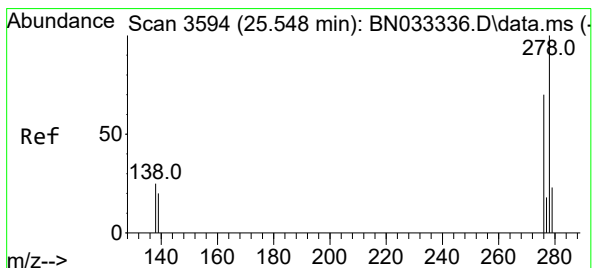
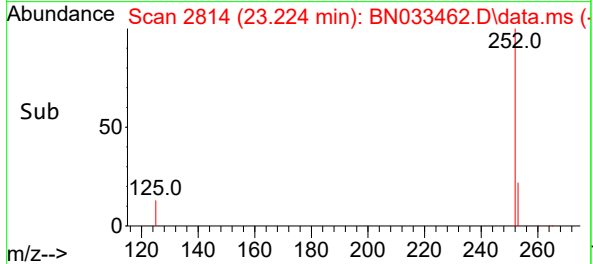
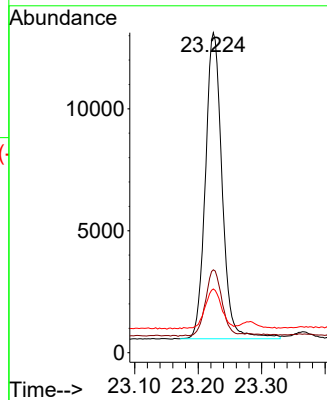
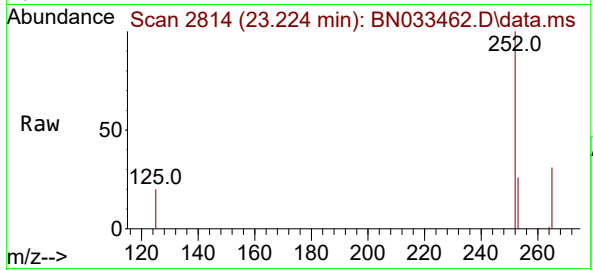
PB162758BSD

Tgt Ion:	252	Resp:	22930
Ion Ratio	Lower	Upper	
252	100		
253	25.9	18.6	28.0
125	19.9	12.6	19.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.379 ng

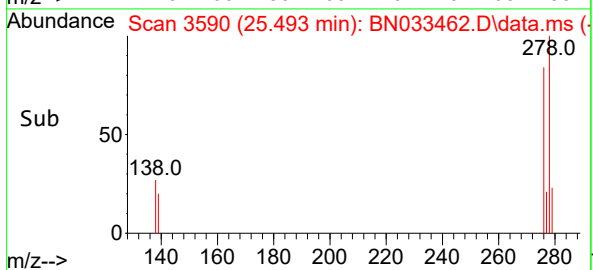
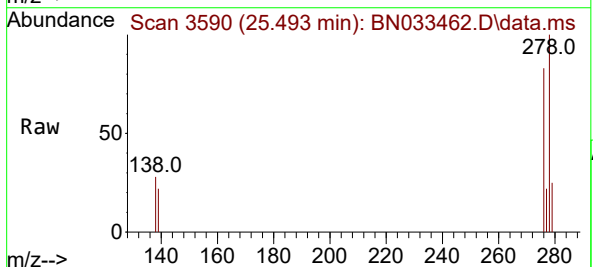
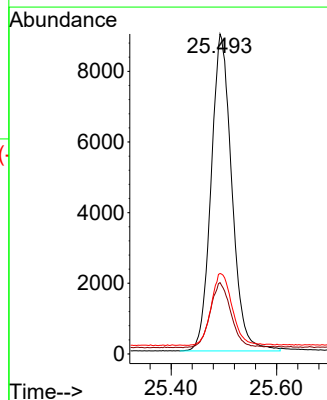
RT: 25.493 min Scan# 3590

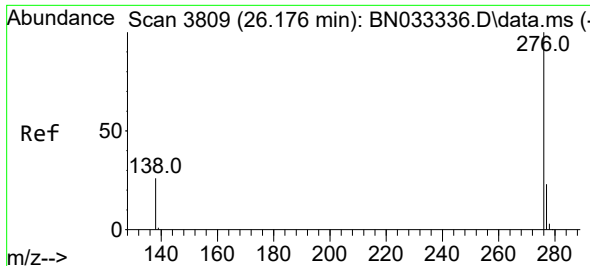
Delta R.T. -0.023 min

Lab File: BN033462.D

Acq: 17 Aug 2024 10:52

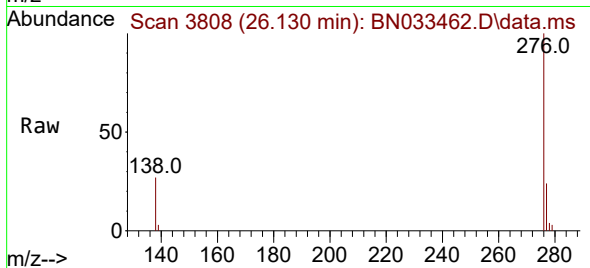
Tgt Ion:	278	Resp:	24466
Ion Ratio	Lower	Upper	
278	100		
139	22.3	17.0	25.6
279	25.1	20.0	30.0





#41
Benzo(g,h,i)perylene
Concen: 0.368 ng
RT: 26.130 min Scan# 3808
Delta R.T. -0.020 min
Lab File: BN033462.D
Acq: 17 Aug 2024 10:52

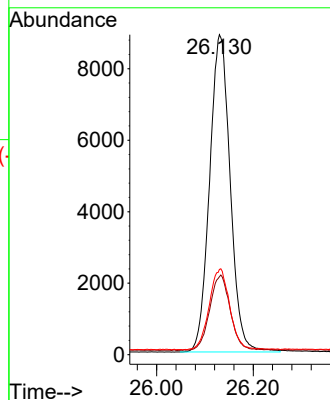
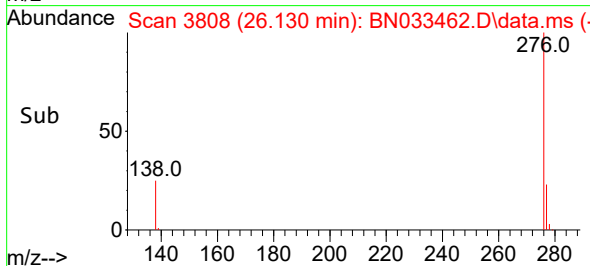
Instrument :
BNA_N
ClientSampleId :
PB162758BSD



Tgt Ion: 276 Resp: 26330
Ion Ratio Lower Upper
276 100
277 24.3 19.4 29.2
138 26.7 21.6 32.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/19/2024
Supervised By :mohammad ahmed 08/21/2024



Manual Integration Report

Sequence:	BN081024	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICV0.4	BN033341.D	2,4,6-Tribromophenol	yogesh	8/13/2024 5:11:22 AM	mohammad	8/13/2024 5:17:38 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:

BN081724

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN033447.D	Benzo(k)fluoranthene	yogesh	8/17/2024 4:59:27 AM	mohammad	8/21/2024 1:23:52 AM	Peak Integrated by Software incorrectly
PB162758BS	BN033461.D	Benzo(k)fluoranthene	Jagrut	8/19/2024 9:20:02 AM	mohammad	8/21/2024 1:23:52 AM	Peak Integrated by Software incorrectly
PB162758BSD	BN033462.D	Benzo(k)fluoranthene	Jagrut	8/19/2024 9:20:04 AM	mohammad	8/21/2024 1:23:52 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033463.D	Benzo(k)fluoranthene	Jagrut	8/19/2024 9:20:07 AM	mohammad	8/21/2024 1:23:52 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN081824	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN033465.D	Benzo(k)fluoranthene	Jagrut	8/19/2024 9:18:16 AM	mohammad	8/21/2024 1:24:00 AM	Peak Integrated by Software incorrectly
P3609-01	BN033471.D	Fluorene	Jagrut	8/19/2024 9:18:28 AM	mohammad	8/21/2024 1:24:00 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033475.D	Benzo(k)fluoranthene	Jagrut	8/19/2024 9:18:38 AM	mohammad	8/21/2024 1:24:00 AM	Peak Integrated by Software incorrectly

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081024

Review By	yogesh	Review On	8/13/2024 5:11:28 AM
Supervise By	mohammad	Supervise On	8/13/2024 5:17:38 AM
SubDirectory	BN081024	HP Acquire Method	BNA_N, 8270_SiM 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	BN033333.D	10 Aug 2024 12:56	MA/JU	Ok
2	SSTDIC0.1	BN033334.D	10 Aug 2024 13:40	MA/JU	Ok
3	SSTDIC0.2	BN033335.D	10 Aug 2024 14:16	MA/JU	Ok
4	SSTDIC0.4	BN033336.D	10 Aug 2024 14:53	MA/JU	Ok
5	SSTDIC0.8	BN033337.D	10 Aug 2024 15:29	MA/JU	Ok
6	SSTDIC1.6	BN033338.D	10 Aug 2024 16:05	MA/JU	Ok
7	SSTDIC3.2	BN033339.D	10 Aug 2024 16:41	MA/JU	Ok
8	SSTDIC5.0	BN033340.D	10 Aug 2024 17:17	MA/JU	Ok
9	SSTDICV0.4	BN033341.D	10 Aug 2024 17:54	MA/JU	Ok,M
10	PB162604BL	BN033342.D	10 Aug 2024 19:06	MA/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081724

Review By	yogesh	Review On	8/17/2024 4:59:53 AM
Supervise By	mohammad	Supervise On	8/21/2024 1:23:52 AM
SubDirectory	BN081724	HP Acquire Method	BNA_N, 8270_SiM 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	BN033427.D	16 Aug 2024 12:55	MA/JU	Ok
2	SSTDCCC0.4	BN033428.D	16 Aug 2024 13:34	MA/JU	Ok
3	PB162692BL	BN033429.D	16 Aug 2024 14:10	MA/JU	Ok
4	P3440-02MS	BN033430.D	16 Aug 2024 14:50	MA/JU	Ok
5	P3440-03MSD	BN033431.D	16 Aug 2024 15:26	MA/JU	Ok
6	P3430-01	BN033432.D	16 Aug 2024 16:02	MA/JU	Ok,M
7	P3430-02	BN033433.D	16 Aug 2024 16:39	MA/JU	Ok,M
8	P3430-03	BN033434.D	16 Aug 2024 17:15	MA/JU	Ok
9	P3430-04	BN033435.D	16 Aug 2024 17:51	MA/JU	Ok
10	P3430-05	BN033436.D	16 Aug 2024 18:27	MA/JU	Ok
11	P3450-01	BN033437.D	16 Aug 2024 19:03	MA/JU	Ok,M
12	P3450-02	BN033438.D	16 Aug 2024 19:39	MA/JU	Ok,M
13	P3450-03	BN033439.D	16 Aug 2024 20:15	MA/JU	Ok,M
14	P3466-01	BN033440.D	16 Aug 2024 20:52	MA/JU	Ok,M
15	P3466-04	BN033441.D	16 Aug 2024 21:28	MA/JU	Ok
16	P3466-05	BN033442.D	16 Aug 2024 22:04	MA/JU	Ok,M
17	P3620-01	BN033443.D	16 Aug 2024 22:40	MA/JU	Ok
18	P3620-02	BN033444.D	16 Aug 2024 23:16	MA/JU	Ok
19	SSTDCCC0.4	BN033445.D	16 Aug 2024 23:53	MA/JU	Ok
20	DFTPP	BN033446.D	17 Aug 2024 01:08	MA/JU	Ok
21	SSTDCCC0.4	BN033447.D	17 Aug 2024 01:48	MA/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081724

Review By	yogesh	Review On	8/17/2024 4:59:53 AM
Supervise By	mohammad	Supervise On	8/21/2024 1:23:52 AM
SubDirectory	BN081724	HP Acquire Method	BNA_N, 8270_SiM 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	PB162758BL	BN033448.D	17 Aug 2024 02:24	MA/JU	Ok
23	P3601-02	BN033449.D	17 Aug 2024 03:01	MA/JU	Ok
24	P3580-02	BN033450.D	17 Aug 2024 03:37	MA/JU	Ok,M
25	P3580-04	BN033451.D	17 Aug 2024 04:14	MA/JU	ReRun
26	P3580-08	BN033452.D	17 Aug 2024 04:49	MA/JU	Ok
27	P3580-03	BN033453.D	17 Aug 2024 05:26	MA/JU	Ok,M
28	P3609-02	BN033454.D	17 Aug 2024 06:02	MA/JU	Ok
29	P3580-06	BN033455.D	17 Aug 2024 06:38	MA/JU	Ok,M
30	P3580-07	BN033456.D	17 Aug 2024 07:15	MA/JU	Ok,M
31	P3580-05	BN033457.D	17 Aug 2024 07:51	MA/JU	Ok,M
32	P3596-01	BN033458.D	17 Aug 2024 08:27	MA/JU	Ok,M
33	P3596-02	BN033459.D	17 Aug 2024 09:04	MA/JU	Ok,M
34	P3601-01	BN033460.D	17 Aug 2024 09:40	MA/JU	Ok
35	PB162758BS	BN033461.D	17 Aug 2024 10:16	MA/JU	Ok,M
36	PB162758BSD	BN033462.D	17 Aug 2024 10:52	MA/JU	Ok,M
37	SSTDCCC0.4	BN033463.D	17 Aug 2024 11:28	MA/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081824

Review By	Jagrut	Review On	8/19/2024 9:18:56 AM
Supervise By	mohammad	Supervise On	8/21/2024 1:24:00 AM
SubDirectory	BN081824	HP Acquire Method	BNA_N, 8270_SiM 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	BN033464.D	17 Aug 2024 12:05	MA/JU	Ok
2	SSTDCCC0.4	BN033465.D	17 Aug 2024 12:44	MA/JU	Ok,M
3	PB162723BL	BN033466.D	17 Aug 2024 13:56	MA/JU	Ok
4	PB162723BS	BN033467.D	17 Aug 2024 14:32	MA/JU	Ok,M
5	PB162723BSD	BN033468.D	17 Aug 2024 15:09	MA/JU	Ok,M
6	PB162692BS	BN033469.D	17 Aug 2024 15:45	MA/JU	Ok,M
7	P3619-01	BN033470.D	17 Aug 2024 16:21	MA/JU	Not Ok
8	P3609-01	BN033471.D	17 Aug 2024 16:57	MA/JU	Ok,M
9	P3580-01	BN033472.D	17 Aug 2024 17:33	MA/JU	Dilution
10	P3580-01MS	BN033473.D	17 Aug 2024 18:09	MA/JU	Ok,M
11	P3580-01MSD	BN033474.D	17 Aug 2024 18:45	MA/JU	Ok,M
12	SSTDCCC0.4	BN033475.D	17 Aug 2024 19:22	MA/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081024

Review By	yogesh	Review On	8/13/2024 5:11:28 AM
Supervise By	mohammad	Supervise On	8/13/2024 5:17:38 AM
SubDirectory	BN081024	HP Acquire Method	BNA_N, 8270_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	BN033333.D	10 Aug 2024 12:56		MA/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN033334.D	10 Aug 2024 13:40		MA/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN033335.D	10 Aug 2024 14:16		MA/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN033336.D	10 Aug 2024 14:53	Method is Good For DOD	MA/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN033337.D	10 Aug 2024 15:29		MA/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN033338.D	10 Aug 2024 16:05		MA/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN033339.D	10 Aug 2024 16:41		MA/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN033340.D	10 Aug 2024 17:17		MA/JU	Ok
9	SSTDICV0.4	ICVBN081024	BN033341.D	10 Aug 2024 17:54		MA/JU	Ok,M
10	PB162604BL	PB162604BL	BN033342.D	10 Aug 2024 19:06		MA/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081724

Review By	yogesh	Review On	8/17/2024 4:59:53 AM
Supervise By	mohammad	Supervise On	8/21/2024 1:23:52 AM
SubDirectory	BN081724	HP Acquire Method	BNA_N, 8270_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	BN033427.D	16 Aug 2024 12:55		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033428.D	16 Aug 2024 13:34		MA/JU	Ok
3	PB162692BL	PB162692BL	BN033429.D	16 Aug 2024 14:10		MA/JU	Ok
4	P3440-02MS	923-K1-WS-080124MS	BN033430.D	16 Aug 2024 14:50		MA/JU	Ok
5	P3440-03MSD	923-K1-WS-080124MS	BN033431.D	16 Aug 2024 15:26		MA/JU	Ok
6	P3430-01	927-K1-WPO-0-0.25-07	BN033432.D	16 Aug 2024 16:02		MA/JU	Ok,M
7	P3430-02	927-K1-WPO-0-0.25-07	BN033433.D	16 Aug 2024 16:39		MA/JU	Ok,M
8	P3430-03	926-K1-WPO-0-0.25-07	BN033434.D	16 Aug 2024 17:15		MA/JU	Ok
9	P3430-04	931-K1-WPO-0-0.25-07	BN033435.D	16 Aug 2024 17:51		MA/JU	Ok
10	P3430-05	925-K1-WPO-0-0.25-07	BN033436.D	16 Aug 2024 18:27		MA/JU	Ok
11	P3450-01	921-J-WPO-0.25-08012	BN033437.D	16 Aug 2024 19:03		MA/JU	Ok,M
12	P3450-02	923-K1-WPO-0.25-0801	BN033438.D	16 Aug 2024 19:39		MA/JU	Ok,M
13	P3450-03	922-K1-WPO-0.25-0801	BN033439.D	16 Aug 2024 20:15		MA/JU	Ok,M
14	P3466-01	924-K1-WPO-0.25-0802	BN033440.D	16 Aug 2024 20:52		MA/JU	Ok,M
15	P3466-04	932-K1-WPO-0.25-0802	BN033441.D	16 Aug 2024 21:28		MA/JU	Ok
16	P3466-05	919-J-WPO-0.25-08022	BN033442.D	16 Aug 2024 22:04		MA/JU	Ok,M
17	P3620-01	915-J-WPO-0.25-08142	BN033443.D	16 Aug 2024 22:40		MA/JU	Ok
18	P3620-02	920-J-WPO-0.25-08142	BN033444.D	16 Aug 2024 23:16		MA/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081724

Review By	yogesh	Review On	8/17/2024 4:59:53 AM
Supervise By	mohammad	Supervise On	8/21/2024 1:23:52 AM
SubDirectory	BN081724	HP Acquire Method	BNA_N, 8270_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	SSTDCCC0.4EC	BN033445.D	16 Aug 2024 23:53		MA/JU	Ok
20	DFTPP	DFTPP	BN033446.D	17 Aug 2024 01:08		MA/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN033447.D	17 Aug 2024 01:48		MA/JU	Ok,M
22	PB162758BL	PB162758BL	BN033448.D	17 Aug 2024 02:24		MA/JU	Ok
23	P3601-02	918-J-WPO-0.25-08132	BN033449.D	17 Aug 2024 03:01		MA/JU	Ok
24	P3580-02	926-KI-SD-0.5-1-08122	BN033450.D	17 Aug 2024 03:37		MA/JU	Ok,M
25	P3580-04	925-KI-SD-0.5-1-08122	BN033451.D	17 Aug 2024 04:14	Surrogate Fail	MA/JU	ReRun
26	P3580-08	922-KI-SD-0.5-1-08122	BN033452.D	17 Aug 2024 04:49		MA/JU	Ok
27	P3580-03	925-KI-SD-0.5-08122	BN033453.D	17 Aug 2024 05:26		MA/JU	Ok,M
28	P3609-02	920-J-WS-081424	BN033454.D	17 Aug 2024 06:02		MA/JU	Ok
29	P3580-06	923-KI-SD-0.5-1-08122	BN033455.D	17 Aug 2024 06:38		MA/JU	Ok,M
30	P3580-07	922-KI-SD-0.5-08122	BN033456.D	17 Aug 2024 07:15		MA/JU	Ok,M
31	P3580-05	923-KI-SD-0.5-08122	BN033457.D	17 Aug 2024 07:51		MA/JU	Ok,M
32	P3596-01	918-J-WS-081324	BN033458.D	17 Aug 2024 08:27		MA/JU	Ok,M
33	P3596-02	918-J-WS-081324-FD	BN033459.D	17 Aug 2024 09:04		MA/JU	Ok,M
34	P3601-01	918-J-WPO-0.25-08132	BN033460.D	17 Aug 2024 09:40		MA/JU	Ok
35	PB162758BS	PB162758BS	BN033461.D	17 Aug 2024 10:16		MA/JU	Ok,M
36	PB162758BSD	PB162758BSD	BN033462.D	17 Aug 2024 10:52		MA/JU	Ok,M
37	SSTDCCC0.4	SSTDCCC0.4EC	BN033463.D	17 Aug 2024 11:28		MA/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081724

Review By	yogesh	Review On	8/17/2024 4:59:53 AM
Supervise By	mohammad	Supervise On	8/21/2024 1:23:52 AM
SubDirectory	BN081724	HP Acquire Method	BNA_N, 8270_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			

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081824

Review By	Jagrut	Review On	8/19/2024 9:18:56 AM
Supervise By	mohammad	Supervise On	8/21/2024 1:24:00 AM
SubDirectory	BN081824	HP Acquire Method	BNA_N, 8270_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	BN033464.D	17 Aug 2024 12:05		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033465.D	17 Aug 2024 12:44		MA/JU	Ok,M
3	PB162723BL	PB162723BL	BN033466.D	17 Aug 2024 13:56		MA/JU	Ok
4	PB162723BS	PB162723BS	BN033467.D	17 Aug 2024 14:32		MA/JU	Ok,M
5	PB162723BSD	PB162723BSD	BN033468.D	17 Aug 2024 15:09		MA/JU	Ok,M
6	PB162692BS	PB162692BS	BN033469.D	17 Aug 2024 15:45		MA/JU	Ok,M
7	P3619-01	917-J-WS-081424	BN033470.D	17 Aug 2024 16:21	Sample Removed From login Page	MA/JU	Not Ok
8	P3609-01	915-J-WS-081424	BN033471.D	17 Aug 2024 16:57		MA/JU	Ok,M
9	P3580-01	926-KI-SD-0-0.5-08122	BN033472.D	17 Aug 2024 17:33	Need 5X Dilution	MA/JU	Dilution
10	P3580-01MS	926-KI-SD-0-0.5-08122	BN033473.D	17 Aug 2024 18:09	Recovery Fail for Many Compound	MA/JU	Ok,M
11	P3580-01MSD	926-KI-SD-0-0.5-08122	BN033474.D	17 Aug 2024 18:45	Recovery Fail for Many Compound	MA/JU	Ok,M
12	SSTDCCC0.4	SSTDCCC0.4EC	BN033475.D	17 Aug 2024 19:22		MA/JU	Ok,M

M : Manual Integration

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

Clean Up SOP #: N/A **Extraction Start Date :** 08/15/2024

Matrix : Water **Extraction Start Time :** 08:23

Wegh By: N/A **Extraction By:** RP **Extraction End Date :** 08/15/2024

Balance check: N/A **Filter By:** RP **Extraction End Time :** 15:20

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: E3574 **Hood ID:** 4,6,7 **Supervisor By :** rajesh

Extraction Method: ☒ Separatory Funne ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standarded 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	SP6586
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3787
Baked Na2SO4	N/A	EP2521
10N NaOH	N/A	EP2523
H2SO4 1:1	N/A	EP2524
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with1:1 H2SO4 &>11 with 10 N NaOH. p3619,3620 Added in batch at10:20.

KD Bath ID: Water bath -01 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/15/24	RP (Ext 104)	RC/SVOC
15:25	Preparation Group	Analysis Group

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

Concentration Date: 08/15/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol.(mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB162758BL	SBLK758	SVOCMS Group3	1000	6	RUPESH	rajesh	1			SEP-7
PB162758BS	SLCS758	SVOCMS Group3	1000	6	RUPESH	rajesh	1			8
PB162758BS D	SLCSD758	SVOCMS Group3	1000	6	RUPESH	rajesh	1			9
P3609-01	915-J-WS-081424	SVOCMS Group3	960	6	RUPESH	rajesh	1	F		10
P3609-02	920-J-WS-081424	SVOCMS Group3	1000	6	RUPESH	rajesh	1	F		11
P3619-01	917-J-WS-081424	SVOCMS Group3	980	6	RUPESH	rajesh	1	F		12
P3620-01	915-J-WPO-0.25-081424	SVOC-SIMGro up1	990	6	RUPESH	rajesh	1	C		13
P3620-02	920-J-WPO-0.25-081424	SVOC-SIMGro up1	960	6	RUPESH	rajesh	1	C		14

* Extracts relinquished on the same date as received.

8/15/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3609 WorkList ID : 182678 Department : Extraction Date : 08-15-2024 08:06:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3609-01	915-J-WS-081424	Water	SVOCMS Group3	Cool 4 deg C	JACO05	D21	08/14/2024	8270-Modified
P3609-01	915-J-WS-081424	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D21	08/14/2024	8270E
P3609-02	920-J-WS-081424	Water	SVOCMS Group3	Cool 4 deg C	JACO05	D21	08/14/2024	8270-Modified
P3609-02	920-J-WS-081424	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D21	08/14/2024	8270E

Date/Time 08/15/24 8:20
Raw Sample Received by: As (per lab)
Raw Sample Relinquished by: Rm Sm

Date/Time 08/15/24 8:45
Raw Sample Received by: Rm Sm
Raw Sample Relinquished by: Rm (per lab)

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WORKLIST(Hardcopy Internal Chain)

WorkList Name : p3619 WorkList ID : 182686 Department : Extraction Date : 08-15-2024 10:20:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3619-01	917-J-WS-081424	Water	SVOCMS Group3	Cool 4 deg C	JACO05	G11	08/14/2024	8270-Modified
P3619-01	917-J-WS-081424	Water	SVOCMS Group6	Cool 4 deg C	JACO05	G11	08/14/2024	8270E
P3620-01	915-J-WPO-0.25-081424	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	G11	08/14/2024	8270-Modified
P3620-02	920-J-WPO-0.25-081424	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	G11	08/14/2024	8270-Modified

Date/Time 08/15/24 10:20
Raw Sample Received by: RS (Ext 243)
Raw Sample Relinquished by: JD (SM)

Date/Time 08/15/24 10:40
Raw Sample Received by: JD (SM)
Raw Sample Relinquished by: RS (Ext 103)

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Prep Standard - Chemical Standard Summary

Order ID : P3609
Test : SVOCMS Group3
Prepbatch ID : PB162758,
Sequence ID/Qc Batch ID: BN081724,BN081824,

Standard ID :
EP2521,EP2523,EP2524,SP6527,SP6547,SP6548,SP6572,SP6573,SP6586,SP6596,SP6597,SP6598,SP6599,SP6600,S
P6601,SP6602,SP6603,

Chemical ID :
E3551,E3657,E3746,E3759,E3768,E3769,E3772,E3786,E3787,M5037,S10103,S10247,S10782,S10977,S 11003,S11012,S
11097,S11494,S11566,S11766,S11767,S12029,S12077,S12096,S12097,S12112,S12113,S12117,S12118,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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>
1874	10 N SODIUM HYDROXIDE SOLN	EP2523	08/14/2024	02/14/2025	Rajesh Parikh	Extraction_SC ALE_2	None	RUPESHKUMAR SHAH 08/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml (EX-SC-2)

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2524	08/14/2024	12/15/2024	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 08/14/2024

FROM 1000.00000ml of M5037 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024
FROM SOURCE 0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6548	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024
FROM SOURCE 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6572	07/12/2024	10/26/2024	Rahul Chavli	None	None	Yogesh Patel
07/30/2024								

FROM 0.00080ml of S11012 + 0.01000ml of S11767 + 0.02000ml of S11566 + 0.02000ml of S12097 + 0.02000ml of S12118 +
49.92920ml of E3769 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel
07/17/2024								

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6586	08/02/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/14/2024

FROM 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3772 = Final Quantity: 100.000 ml

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/25/2024	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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	22L2862006	02/01/2025	08/01/2024 / Rajesh	07/19/2024 / Rajesh	E3772

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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/a mpul	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	10/26/2024	04/26/2024 / Rahul	01/13/2023 / Christian	S11012

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	01/12/2025	07/12/2024 / Rahul	11/21/2023 / Rahul	S11767

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0201320	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]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	01/09/2025	07/09/2024 / Jagrut	02/05/2024 / Rahul	S12097

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

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

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

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

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

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
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

Shelf S11096
to
S11099

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.



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

Received on
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)

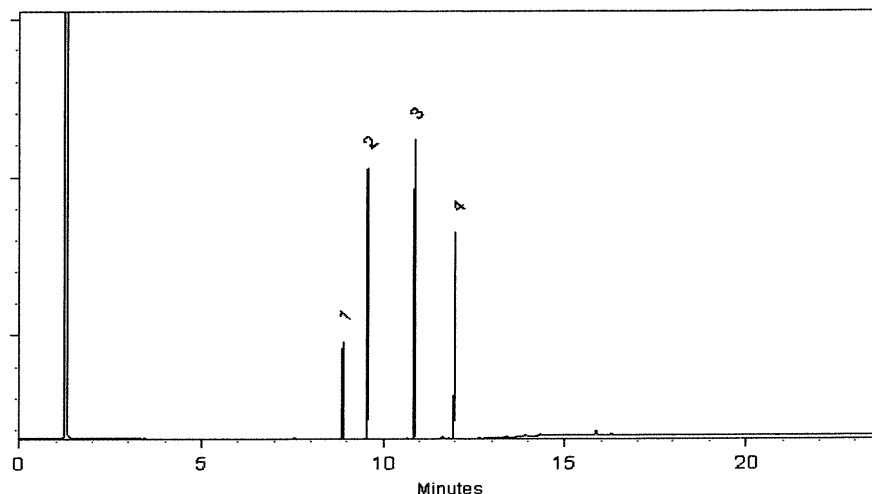
Carrier Gas:
hydrogen-constant pressure 10 psi.

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
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Received on
09/07/22
by
CG
S10778
to
S10782

Catalog No. : 33913 **Lot No.:** A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Methylnaphthalene-d10 CAS # 7297-45-2 (Lot EF-135) Purity 96%	2,015.0 µg/mL	+/- 11.8254 µg/mL Gravimetric +/- 90.7728 µg/mL Unstressed +/- 100.7207 µg/mL Stressed
2	Fluoranthene-d10 CAS # 93951-69-0 (Lot PR-20668) Purity 99%	2,007.0 µg/mL	+/- 11.7782 µg/mL Gravimetric +/- 90.4107 µg/mL Unstressed +/- 100.3188 µg/mL Stressed
Solvent:	Methylene chloride CAS # 75-09-2 Purity 99%		

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

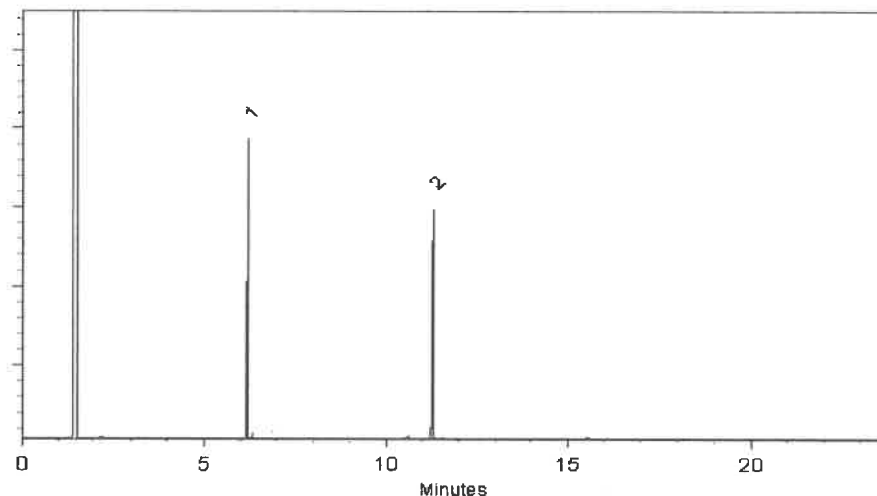
250°C

Det. Temp:

330°C

Det. Type:

FID



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

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022

Balance: B442140311

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 13-Jun-2022

Manufactured under Restek's ISO 9001:2015
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Received by
CG on
12/28/22
S10951
to
S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

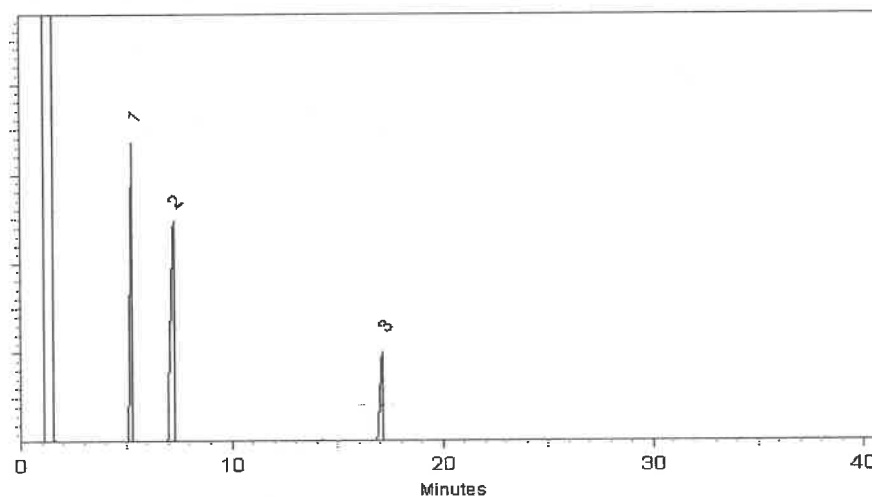
250°C

Det. Temp:

330°C

Det. Type:

FID



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


Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

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



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Certificate of Analysis



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

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)

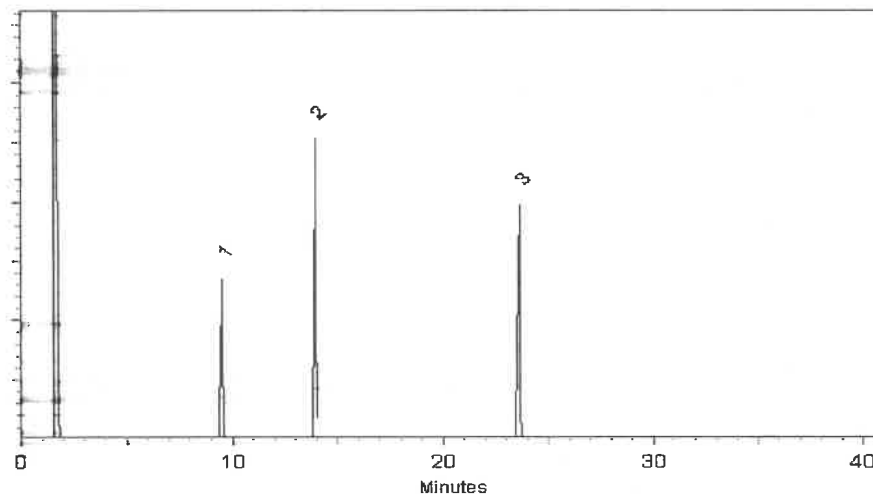
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

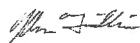
Inj. Temp:
250°C

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
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Certificate #FM 80397



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Certificate of Analysis

gravimetric



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

Catalog No. : 555872 **Lot No.:** A0193449

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

Received on
01/13/23
by
CG
S11011
+0
S11015

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Jan-2023

Balance: B442140311

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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MONTERREY, N.L. MEXICO
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www.pqm.com.mx

CERTIFICATE OF ANALYSIS

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

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

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

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

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

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

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

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

Storage: Room Temperature

Pellets

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

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

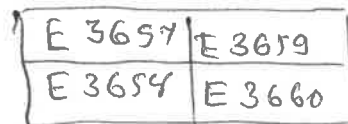
This document has been electronically produced and is valid without a signature.

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

Additional Information

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

Product meets analytical specifications of the grades listed.



Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
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: 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



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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 22L2862006
Manufactured Date: 2022-12-19
Expiration Date: 2025-12-18
Revision No.: 0

Certificate of Analysis

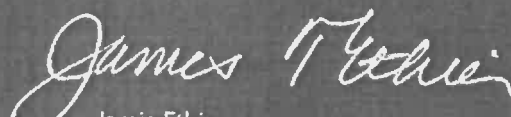
Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	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	4

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 7/19/24

E3772


Jamie Ethier
Vice President Global Quality

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	$\leq 1.0 \text{ ppm}$	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: 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)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 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: MG24F05012

E 3787

Jamie Croak
Director Quality Operations, Bioscience Production

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantorsm



Material No.: 9673-33

Batch No.: 0000250349

Manufactured Date: 2019/12/17

Retest Date: 2024/12/15

Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO ₂)	<= 2 ppm	< 2
Ammonium (NH ₄)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO ₃)	<= 0.2 ppm	< 0.1
Phosphate (PO ₄)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

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

Test	Specification	Result
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	≤ 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	≤ 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	≤ 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	≤ 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

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

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



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

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
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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:

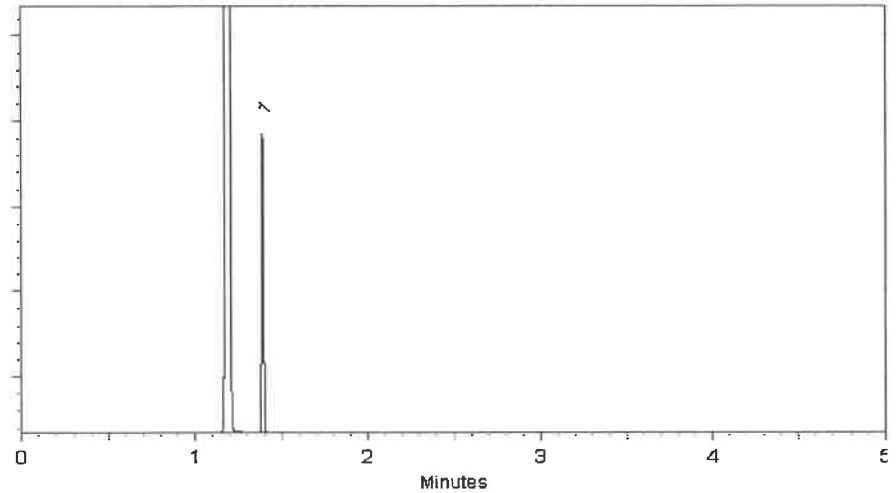
FID

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.

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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:

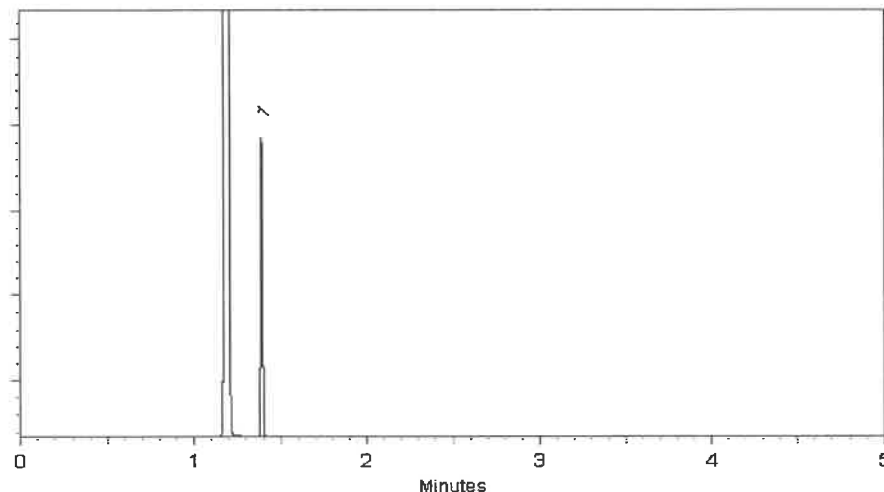
FID

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.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31206 **Lot No.:** A0201320

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013
↓
S12042 } RC
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

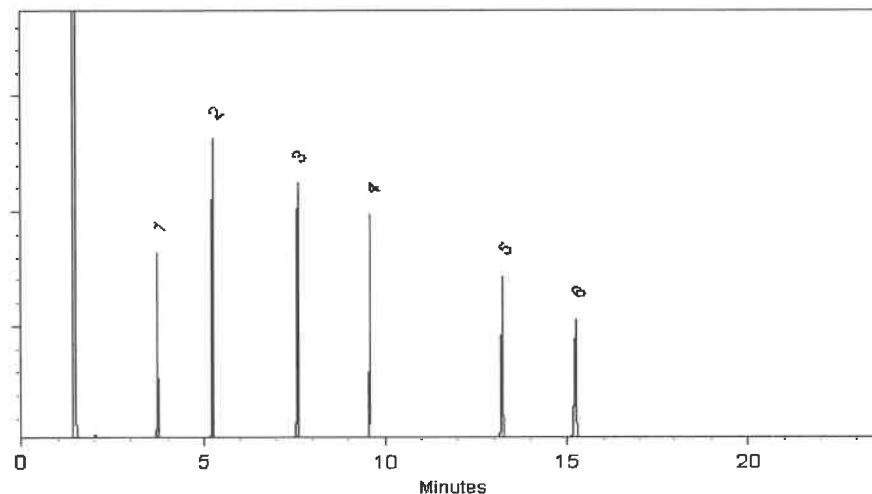
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

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



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Santa Rosa, CA 95403

(707)525-5788
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(707)545-7901 Fax

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

912075 } RC
↓
912079 } 02/01/24

*Not a certified value

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

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

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

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

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

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

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

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

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

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

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

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

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

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

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SHIPPING DOCUMENTS

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CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. **P3609**
QUOTE NO.
COC Number **2041350**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **Jacobs**
ADDRESS: **412 Mt Kimple Ave Suite 4100**
CITY **Morrisstown** STATE: **NJ** ZIP: **07960**
ATTENTION: **John Yufank**
PHONE: **(281) 414-1719** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **STC PTC**
PROJECT NO.: **D3779922** LOCATION: **Princeton Junction**
PROJECT MANAGER: **Mary Murphy**
e-mail: **Mary.Murphy@Jacobs.com**
PHONE: **(201) 936-0586** FAX:

CLIENT BILLING INFORMATION

BILL TO: **Mary Murphy** PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) **Standard TAT** DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

**WGS 5-2008 S160D
SWIS + TATE 8270E
8270E SUM
Metals 6020B, Hg
Cv (0.7) TRCA
SW 3060A**

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS ← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER
			COMP	GRAB	DATE	TIME		A/E	E	B/E	E						
1.	915-J-WS-081424	WS		X	8-14-24	1025	8	2	4	1	1						
2.	920-J-WS-081424	WS		X	8-14-24	1120	8	2	4	1	1						
3.	TB-01-081424	DI		X	8-14-24	1125	1	1									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <i>[Signature]</i>	DATE/TIME: 8-14-24 1227	RECEIVED BY: <i>[Signature]</i>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 2.9°C Comments: See attached table for required analytes list of ~~EEO~~ VOCs, ~~EEO~~ SVOCs, and ~~EEO~~ metals (CA) 2 L of extra volume for SVOCs + PAH analysis
RELINQUISHED BY SAMPLER: 2. <i>[Signature]</i>	DATE/TIME:	RECEIVED BY:	
RELINQUISHED BY SAMPLER: 3. <i>[Signature]</i>	DATE/TIME: 8-14-2024 1415	RECEIVED BY: <i>[Signature]</i>	

Page **1** of **1**
CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488