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

Order ID : P3645

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
P3645-01	914-J-WS-081524
P3645-02	916-J-WS-081524
P3645-03	TB-02-081524

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

Signature : _____

Date: 8/28/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

JACOBS Engineering Group, Inc.
Project Name: Former Schlumberger Site Princeton NJ
Project # N/A
Chemtech Project # P3645
Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:
3 Water samples were received on 08/15/2024.

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.
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 BN033489.D met the requirements except for 2,4,6-Tribromophenol and 2-Fluorophenol, The failure compounds not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN033507.D met the requirements except for 2,4,6-Tribromophenol and 2-Fluorophenol, The failure compounds not associated with the client parameters list, therefore no corrective action was taken.
.
The Tuning criteria met requirements.

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E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
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_____

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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 is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

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

CHEMTECH PROJECT NUMBER: P3645 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 BN033489.D met the requirements except for 2,4,6-Tribromophenol and 2-Fluorophenol, The failure compounds not associated with the client parameters list, therefore no corrective action was taken. The Continuous Calibration File ID BN033507.D met the requirements except for 2,4,6-Tribromophenol and 2-Fluorophenol, The failure compounds 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.			
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.

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3645

	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 Castody	✓
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:** 08/28/2024

2nd Level QA Review Signature: _____ **Date:** _____

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LAB CHRONICLE

OrderID:	P3645	**OrderDate:**	8/15/2024 9:40:00 PM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	**Location:**	G21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3645-01	**914-J-WS-081524**	**Water**			**08/15/24**			**08/15/24**
			SVOCMS Group3	8270-Modified		08/16/24	08/20/24	
P3645-02	**916-J-WS-081524**	**Water**			**08/15/24**			**08/15/24**
			SVOCMS Group3	8270-Modified		08/16/24	08/20/24	

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Hit Summary Sheet
SW-846

SDG No.: P3645

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : 914-J-WS-081524								
P3645-01	914-J-WS-081524	WATER	Naphthalene	0.050	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Acenaphthene	0.190		0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Fluorene	0.180		0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Phenanthrene	0.030	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Anthracene	0.020	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Fluoranthene	0.060	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Pyrene	0.040	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Benzo(a)anthracene	0.040	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Chrysene	0.060	J	0.03	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Benzo(b)fluoranthene	0.060	J	0.03	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Benzo(k)fluoranthene	0.050	J	0.03	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Indeno(1,2,3-cd)pyrene	0.040	J	0.04	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Dibenzo(a,h)anthracene	0.040	J	0.04	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Benzo(g,h,i)perylene	0.040	J	0.04	0.1	ug/L
			Total Svoc :	**0.90**				
			Total Concentration:	**0.90**				
Client ID : 916-J-WS-081524								
P3645-02	916-J-WS-081524	WATER	Naphthalene	0.030	J	0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Acenaphthene	0.090	J	0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Fluorene	0.130		0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Phenanthrene	0.030	J	0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Fluoranthene	0.060	J	0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Pyrene	0.030	J	0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Chrysene	0.030	J	0.03	0.1	ug/L
			Total Svoc :	**0.40**				
			Total Concentration:	**0.40**				

QC
SUMMARY

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Surrogate Summary

SW-846

SDG No.: P3645

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P3645-01	914-J-WS-081524	2-Methylnaphthalene-d10	0.4	0.26	64		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.28	70		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.25	61		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.28	69		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.32	80		30 (35)	130 (157)
P3645-02	916-J-WS-081524	2-Methylnaphthalene-d10	0.4	0.27	68		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.33	83		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.27	68		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.31	76		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.29	73		30 (35)	130 (157)
PB162787BL	PB162787BL	2-Methylnaphthalene-d10	0.4	0.30	76		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.30	74		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.31	77		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.34	85		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.34	85		30 (35)	130 (157)
PB162787BS	PB162787BS	2-Methylnaphthalene-d10	0.4	0.41	101		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.31	77		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.33	83		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.36	91		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.36	90		30 (35)	130 (157)
PB162787BSD	PB162787BSD	2-Methylnaphthalene-d10	0.4	0.44	109		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.33	83		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.35	87		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.38	95		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.37	93		30 (35)	130 (157)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3645

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified **DataFile:** BN033493.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB162787BS	Naphthalene	0.4	0.36	ug/L	90				70 (67)	130 (120)	
	2-Methylnaphthalene	0.4	0.36	ug/L	90				70 (50)	130 (122)	
	Acenaphthylene	0.4	0.36	ug/L	90				70 (60)	130 (119)	
	Acenaphthene	0.4	0.36	ug/L	90				70 (65)	130 (119)	
	Fluorene	0.4	0.34	ug/L	85				70 (58)	130 (122)	
	Phenanthrene	0.4	0.38	ug/L	95				70 (65)	130 (117)	
	Anthracene	0.4	0.36	ug/L	90				70 (57)	130 (118)	
	Fluoranthene	0.4	0.33	ug/L	83				70 (53)	130 (126)	
	Pyrene	0.4	0.38	ug/L	95				70 (54)	130 (124)	
	Benzo(a)anthracene	0.4	0.38	ug/L	95				70 (54)	130 (130)	
	Chrysene	0.4	0.40	ug/L	100				70 (64)	130 (126)	
	Benzo(b)fluoranthene	0.4	0.38	ug/L	95				70 (65)	130 (121)	
	Benzo(k)fluoranthene	0.4	0.39	ug/L	98				70 (72)	130 (119)	
	Benzo(a)pyrene	0.4	0.40	ug/L	100				70 (68)	130 (120)	
	Indeno(1,2,3-cd)pyrene	0.4	0.44	ug/L	110				70 (70)	130 (127)	
	Dibenz(a,h)anthracene	0.4	0.43	ug/L	108				70 (65)	130 (121)	
	Benzo(g,h,i)perylene	0.4	0.41	ug/L	103				70 (76)	130 (117)	
	1,4-Dioxane	0.4	0.29	ug/L	73				20 (42)	160 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3645

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified **DataFile:** BN033494.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB162787BSD	Naphthalene	0.4	0.38	ug/L	95	5			70 (67)	130 (120)	20 (20)
	2-Methylnaphthalene	0.4	0.37	ug/L	93	3			70 (50)	130 (122)	20 (20)
	Acenaphthylene	0.4	0.37	ug/L	93	3			70 (60)	130 (119)	20 (20)
	Acenaphthene	0.4	0.38	ug/L	95	5			70 (65)	130 (119)	20 (20)
	Fluorene	0.4	0.35	ug/L	88	3			70 (58)	130 (122)	20 (20)
	Phenanthrene	0.4	0.39	ug/L	98	3			70 (65)	130 (117)	20 (20)
	Anthracene	0.4	0.38	ug/L	95	5			70 (57)	130 (118)	20 (20)
	Fluoranthene	0.4	0.35	ug/L	88	6			70 (53)	130 (126)	20 (20)
	Pyrene	0.4	0.39	ug/L	98	3			70 (54)	130 (124)	20 (20)
	Benzo(a)anthracene	0.4	0.42	ug/L	105	10			70 (54)	130 (130)	20 (20)
	Chrysene	0.4	0.46	ug/L	115	14			70 (64)	130 (126)	20 (20)
	Benzo(b)fluoranthene	0.4	0.44	ug/L	110	15			70 (65)	130 (121)	20 (20)
	Benzo(k)fluoranthene	0.4	0.43	ug/L	108	10			70 (72)	130 (119)	20 (20)
	Benzo(a)pyrene	0.4	0.46	ug/L	115	14			70 (68)	130 (120)	20 (20)
	Indeno(1,2,3-cd)pyrene	0.4	0.49	ug/L	123	11			70 (70)	130 (127)	20 (20)
	Dibenz(a,h)anthracene	0.4	0.48	ug/L	120	11			70 (65)	130 (121)	20 (20)
	Benzo(g,h,i)perylene	0.4	0.47	ug/L	117	14			70 (76)	130 (117)	20 (20)
	1,4-Dioxane	0.4	0.31	ug/L	78	7			20 (42)	160 (127)	20 (20)

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162787BL

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3645 SAS No.: P3645 SDG NO.: P3645

Lab File ID: BN033508.D Lab Sample ID: PB162787BL

Instrument ID: BNA_N Date Extracted: 08/16/2024

Matrix: (soil/water) Water Date Analyzed: 08/20/2024

Level: (low/med) LOW Time Analyzed: 16:28

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
914-J-WS-081524	P3645-01	BN033512.D	08/20/2024
916-J-WS-081524	P3645-02	BN033513.D	08/20/2024
PB162787BS	PB162787BS	BN033493.D	08/20/2024
PB162787BSD	PB162787BSD	BN033494.D	08/20/2024

COMMENTS:

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM SAS No.: P3645 SDG NO.: P3645

Lab File ID: BN033478.D DFTPP Injection Date: 08/19/2024

Instrument ID: BNA_N DFTPP Injection Time: 15:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.6
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	37.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	49.1
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	11.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.8 (20) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN033479.D	08/19/2024	16:16
SSTDICC0.2	SSTDICC0.2	BN033480.D	08/19/2024	16:52
SSTDICCC0.4	SSTDICCC0.4	BN033481.D	08/19/2024	17:28
SSTDICC0.8	SSTDICC0.8	BN033482.D	08/19/2024	18:05
SSTDICC1.6	SSTDICC1.6	BN033483.D	08/19/2024	18:41
SSTDICC3.2	SSTDICC3.2	BN033484.D	08/19/2024	19:17
SSTDICC5.0	SSTDICC5.0	BN033485.D	08/19/2024	19:53

Alliance TECHNICAL GROUP
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM SAS No.: P3645 SDG NO.: P3645

Lab File ID: BN033488.D DFTPP Injection Date: 08/20/2024

Instrument ID: BNA_N DFTPP Injection Time: 04:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.7
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.9
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	6.8
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.8
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	12.7 (17.9) 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	BN033489.D	08/20/2024	04:44
PB162787BS	PB162787BS	BN033493.D	08/20/2024	07:08
PB162787BSD	PB162787BSD	BN033494.D	08/20/2024	07:44

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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM SAS No.: P3645 SDG NO.: P3645

Lab File ID: BN033506.D DFTPP Injection Date: 08/20/2024

Instrument ID: BNA_N DFTPP Injection Time: 15:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.1
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	37.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47.5
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	11.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.2 (18.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN033507.D	08/20/2024	15:51
PB162787BL	PB162787BL	BN033508.D	08/20/2024	16:28
914-J-WS-081524	P3645-01	BN033512.D	08/20/2024	18:52
916-J-WS-081524	P3645-02	BN033513.D	08/20/2024	19:28

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3645 SAS No.: P3645 SDG NO.: P3645

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/20/2024

Lab File ID: BN033489.D Time Analyzed: 04:44

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	9356	7.552	25244	10.31	13324	14.19
	UPPER LIMIT	18712	8.052	50488	10.814	26648	14.689
	LOWER LIMIT	4678	7.052	12622	9.814	6662	13.689
	EPA SAMPLE NO.						
01	PB162787BS	7475	7.55	18804	10.31	8660	14.19
02	PB162787BSD	6965	7.55	17427	10.31	7934	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3645 SAS No.: P3645 SDG NO.: P3645

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/20/2024

Lab File ID: BN033489.D Time Analyzed: 04:44

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	27326	16.942	15982	21.148	15401	23.315
	UPPER LIMIT	54652	17.442	31964	21.648	30802	23.815
	LOWER LIMIT	13663	16.442	7991	20.648	7700.5	22.815
	EPA SAMPLE NO.						
01	PB162787BS	16363	16.94	9727	21.15	9901	23.31
02	PB162787BSD	14715	16.94	9170	21.15	9473	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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3645 SAS No.: P3645 SDG NO.: P3645

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/20/2024

Lab File ID: BN033507.D Time Analyzed: 15:51

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	8554	7.552	22897	10.31	11496	14.19
	UPPER LIMIT	17108	8.052	45794	10.814	22992	14.689
	LOWER LIMIT	4277	7.052	11448.5	9.814	5748	13.689
	EPA SAMPLE NO.						
01	914-J-WS-081524	7581	7.55	20168	10.31	10160	14.19
02	916-J-WS-081524	7720	7.55	19614	10.31	9099	14.19
03	PB162787BL	8441	7.55	21567	10.31	9670	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3645 SAS No.: P3645 SDG NO.: P3645

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/20/2024

Lab File ID: BN033507.D Time Analyzed: 15:51

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	22430	16.942	13701	21.148	14151	23.317
	UPPER LIMIT	44860	17.442	27402	21.648	28302	23.817
	LOWER LIMIT	11215	16.442	6850.5	20.648	7075.5	22.817
	EPA SAMPLE NO.						
01	914-J-WS-081524	20244	16.93	12892	21.15	12153	23.32
02	916-J-WS-081524	17960	16.93	14746	21.14	14922	23.31
03	PB162787BL	18285	16.94	11101	21.15	11428	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.

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SAMPLE DATA

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/15/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/15/24
Client Sample ID:	914-J-WS-081524	SDG No.:	P3645
Lab Sample ID:	P3645-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	980 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
BN033512.D	1	08/16/24 10:33	08/20/24 18:52	PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.050	J	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	0.19		0.020	0.10	ug/L
86-73-7	Fluorene	0.18		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.030	J	0.020	0.10	ug/L
120-12-7	Anthracene	0.020	J	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	0.040	J	0.020	0.10	ug/L
218-01-9	Chrysene	0.060	J	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.060	J	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.050	J	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	J	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	J	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	J	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	0.26		30 (20) - 150 (139)	64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 (30) - 150 (150)	70%	SPK: 0.4
367-12-4	2-Fluorophenol	0.12		15 (10) - 110 (100)	31%	SPK: 0.4
13127-88-3	Phenol-d6	0.088		15 (10) - 110 (100)	22%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		30 (27) - 130 (123)	61%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		30 (34) - 130 (132)	69%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.21		15 (10) - 110 (131)	53%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		30 (35) - 130 (157)	80%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7580	7.552			

Raw Data: **BN033512.D**

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/15/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/15/24
Client Sample ID:	914-J-WS-081524	SDG No.:	P3645
Lab Sample ID:	P3645-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	980 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
BN033512.D	1	08/16/24 10:33	08/20/24 18:52	PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1146-65-2	Naphthalene-d8	20200	10.314			
15067-26-2	Acenaphthene-d10	10200	14.189			
1517-22-2	Phenanthrene-d10	20200	16.929			
1719-03-5	Chrysene-d12	12900	21.148			
1520-96-3	Perylene-d12	12200	23.315			

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\BN082024\
Data File : BN033512.D
Acq On : 20 Aug 2024 18:52
Operator : MA/JU
Sample : P3645-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Quant Time: Aug 20 23:21:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

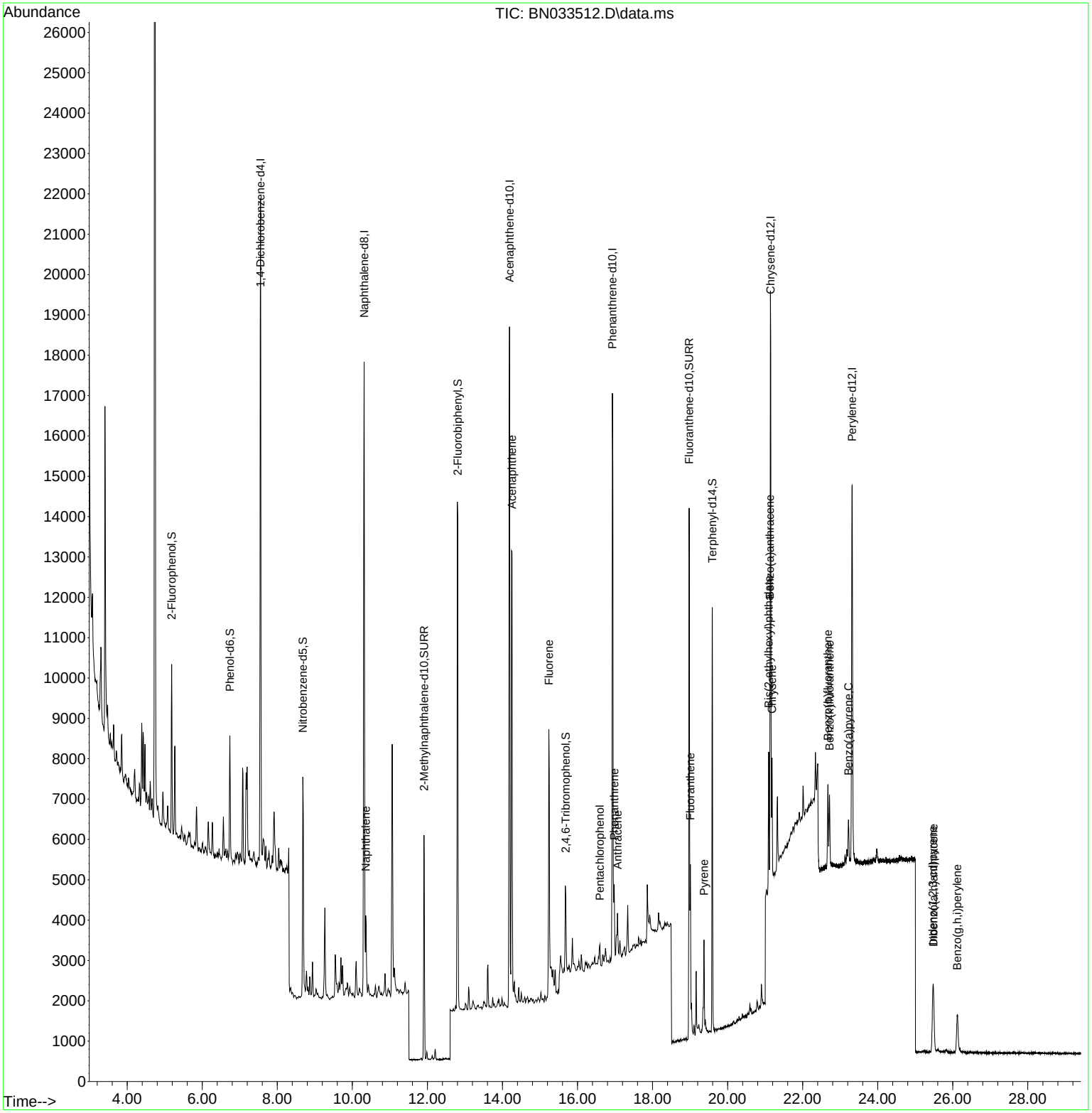
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	7581	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	20168	0.400	ng	# 0.00
13) Acenaphthene-d10	14.189	164	10160	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	20244	0.400	ng	#-0.01
29) Chrysene-d12	21.148	240	12892	0.400	ng	# 0.00
35) Perylene-d12	23.315	264	12153	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	2994	0.124	ng	0.00
5) Phenol-d6	6.736	99	2517	0.088	ng	0.00
8) Nitrobenzene-d5	8.681	82	4096	0.245	ng	-0.01
11) 2-Methylnaphthalene-d10	11.911	152	7412	0.257	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	1161	0.213	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	11438	0.276	ng	0.00
27) Fluoranthene-d10	18.975	212	13730	0.282	ng	0.00
31) Terphenyl-d14	19.593	244	9371	0.320	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.357	128	2463	0.046	ng	# 92
17) Acenaphthene	14.253	154	5851	0.187	ng	97
18) Fluorene	15.236	166	6857	0.174	ng	# 62
24) Pentachlorophenol	16.594	266	252	0.043	ng	96
25) Phenanthrene	16.979	178	1898	0.034	ng	96
26) Anthracene	17.066	178	1043	0.021	ng	# 83
28) Fluoranthene	19.008	202	3827	0.061	ng	99
30) Pyrene	19.370	202	2090	0.036	ng	# 95
32) Benzo(a)anthracene	21.130	228	1869	0.040	ng	# 90
33) Chrysene	21.184	228	2847	0.061	ng	# 91
34) Bis(2-ethylhexyl)phtha...	21.095	149	3035	0.103	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.469	276	2092	0.041	ng	97
37) Benzo(b)fluoranthene	22.671	252	2441	0.054	ng	# 43
38) Benzo(k)fluoranthene	22.715	252	2037	0.046	ng	# 38
39) Benzo(a)pyrene	23.221	252	1545	0.041	ng	# 11
40) Dibenzo(a,h)anthracene	25.487	278	1593	0.039	ng	# 54
41) Benzo(g,h,i)perylene	26.121	276	1802	0.042	ng	# 74

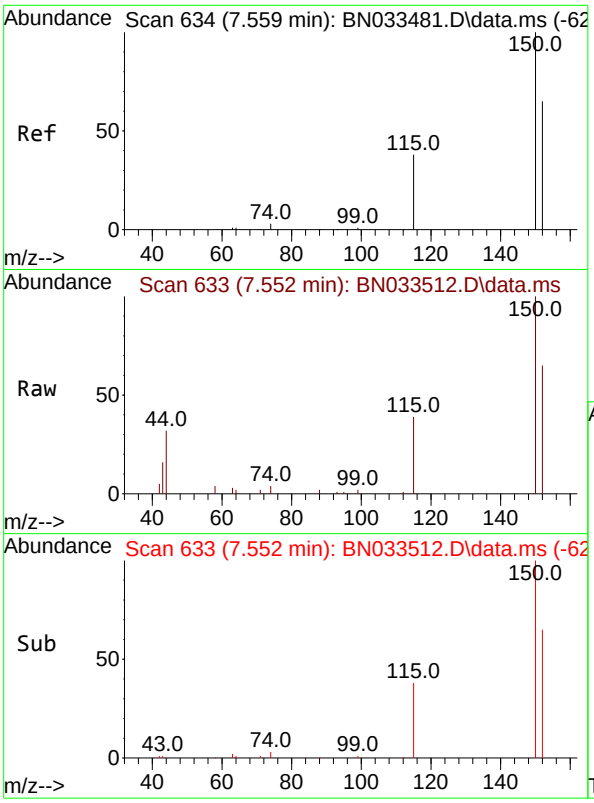
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082024\
Data File : BN033512.D
Acq On : 20 Aug 2024 18:52
Operator : MA/JU
Sample : P3645-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Quant Time: Aug 20 23:21:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration



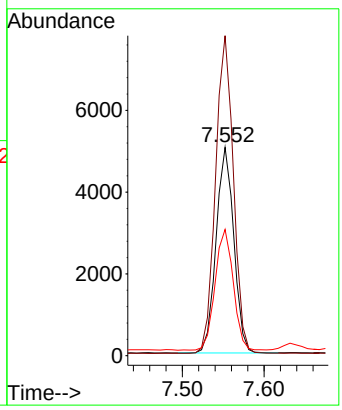


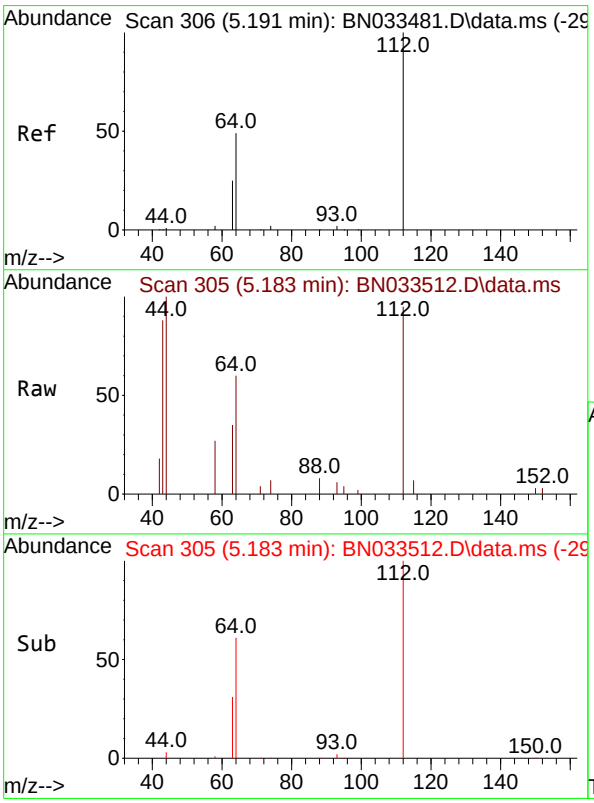
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.552 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:152 Resp: 7581

Ion	Ratio	Lower	Upper
152	100		
150	153.6	122.2	183.2
115	60.6	47.2	70.8

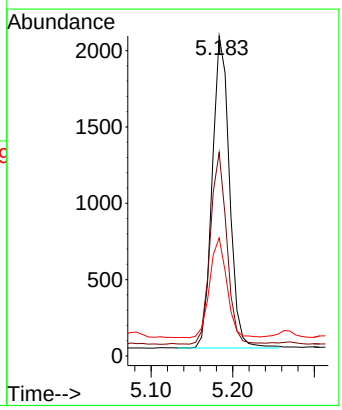


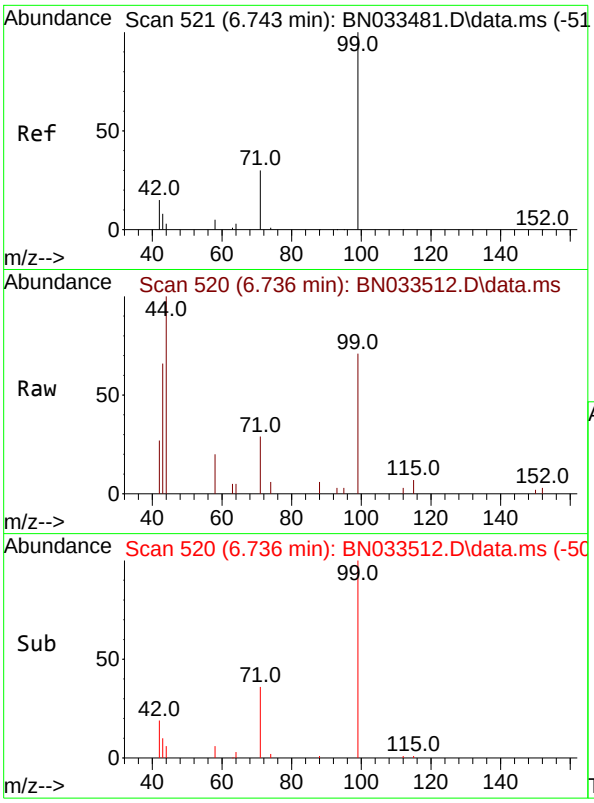


#4
2-Fluorophenol
Concen: 0.124 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.007 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:112 Resp: 2994

Ion	Ratio	Lower	Upper
112	100		
64	58.8	47.1	70.7
63	31.8	24.9	37.3



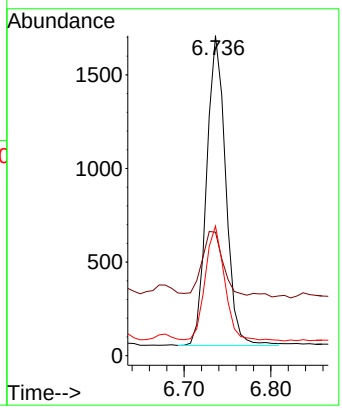


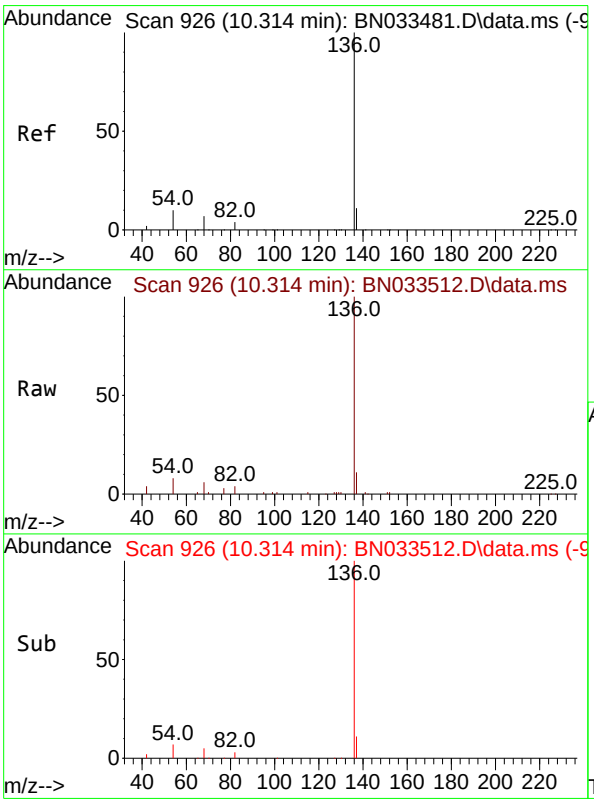
#5
Phenol-d6
Concen: 0.088 ng
RT: 6.736 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion: 99 Resp: 2517

Ion	Ratio	Lower	Upper
99	100		
42	22.1	16.6	24.8
71	37.2	26.2	39.4

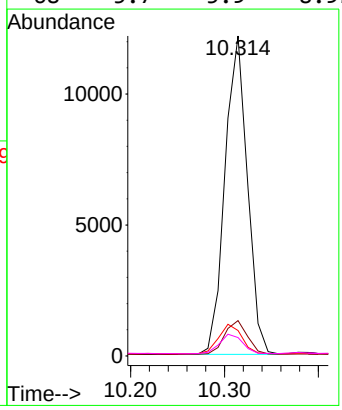


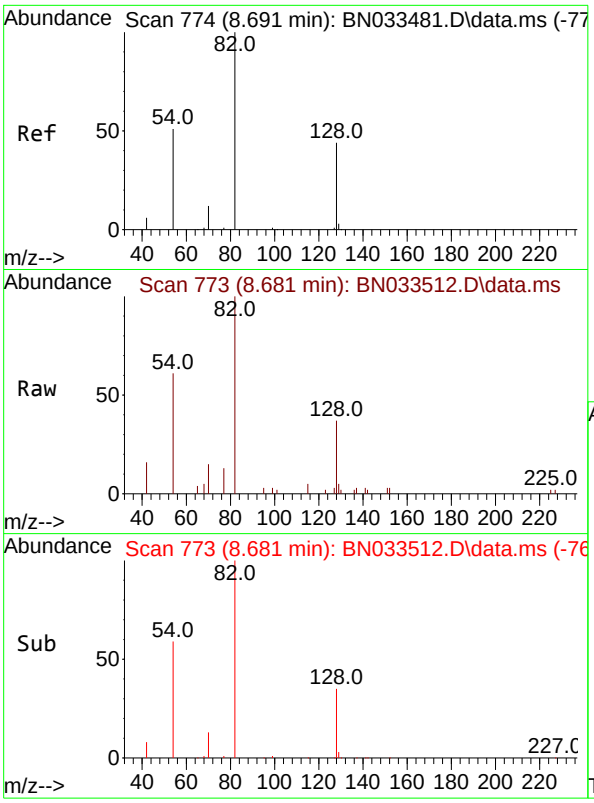


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 926
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:136 Resp: 20168

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.6
54	8.0	8.3	12.5#
68	5.7	5.9	8.9#



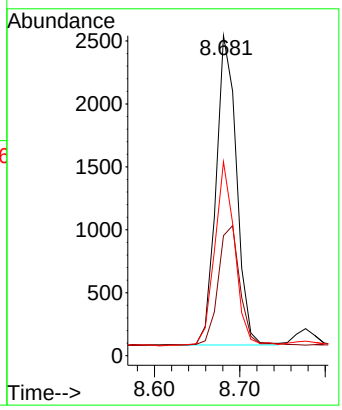


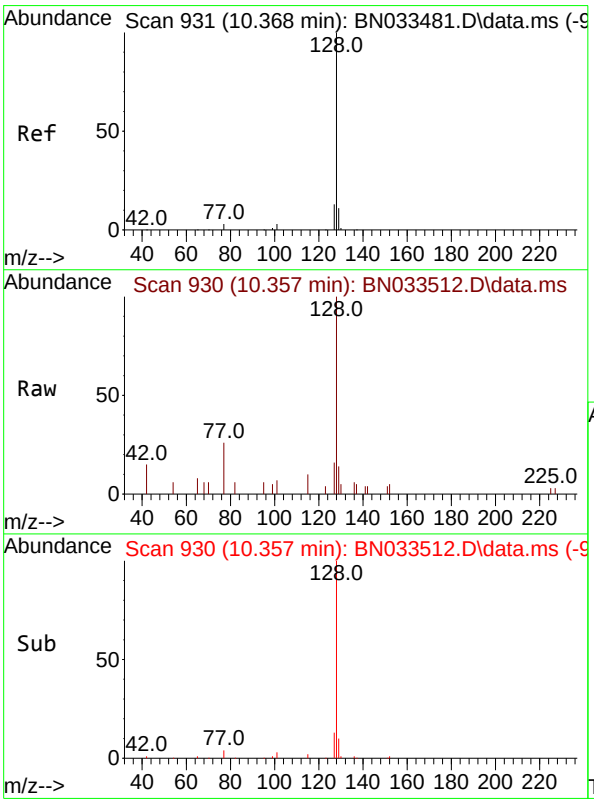
#8
Nitrobenzene-d5
Concen: 0.245 ng
RT: 8.681 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion: 82 Resp: 4096

Ion	Ratio	Lower	Upper
82	100		
128	37.5	36.0	54.0
54	60.6	42.0	63.0

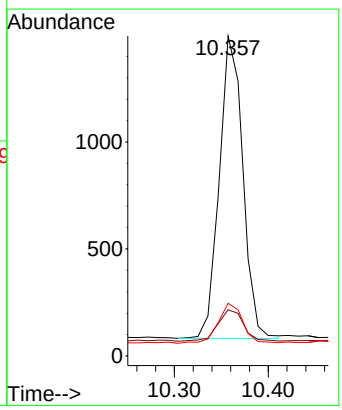


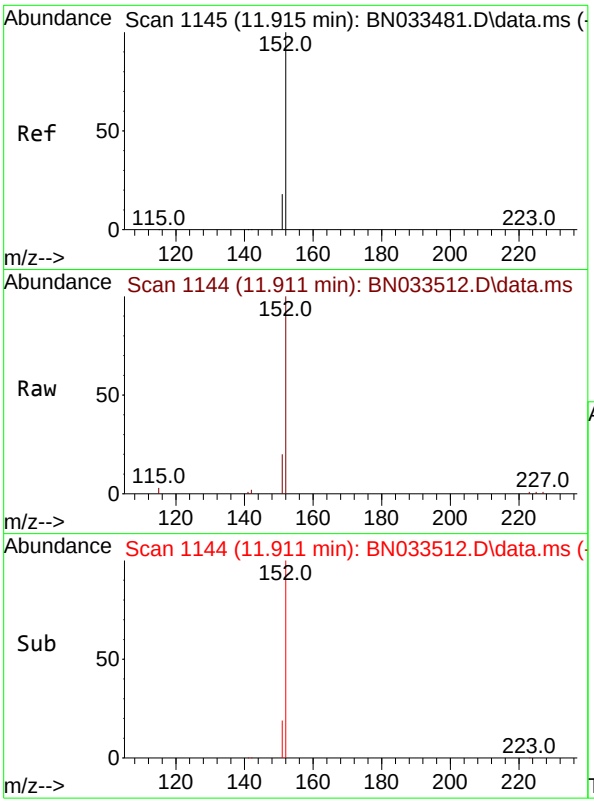


#9
Naphthalene
Concen: 0.046 ng
RT: 10.357 min Scan# 930
Delta R.T. -0.011 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:128 Resp: 2463

Ion	Ratio	Lower	Upper
128	100		
129	14.4	9.1	13.7#
127	16.4	10.7	16.1#



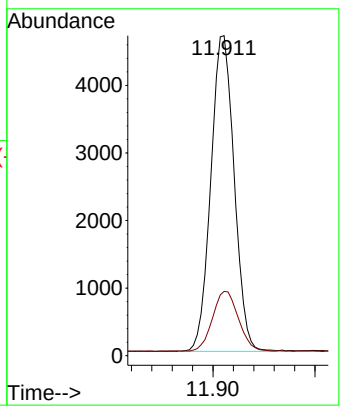


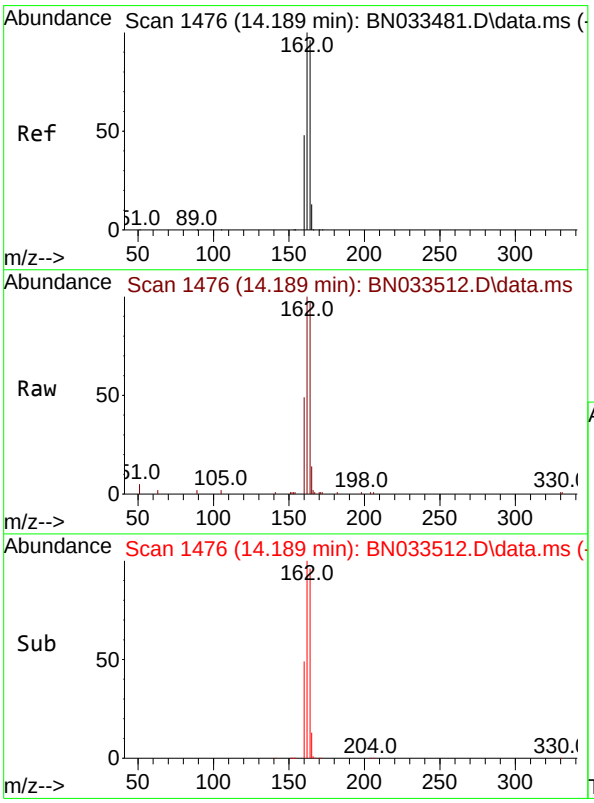
#11
2-Methylnaphthalene-d10
Concen: 0.257 ng
RT: 11.911 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:152 Resp: 7412

Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.6	25.0

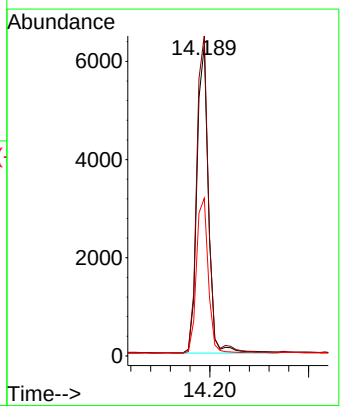


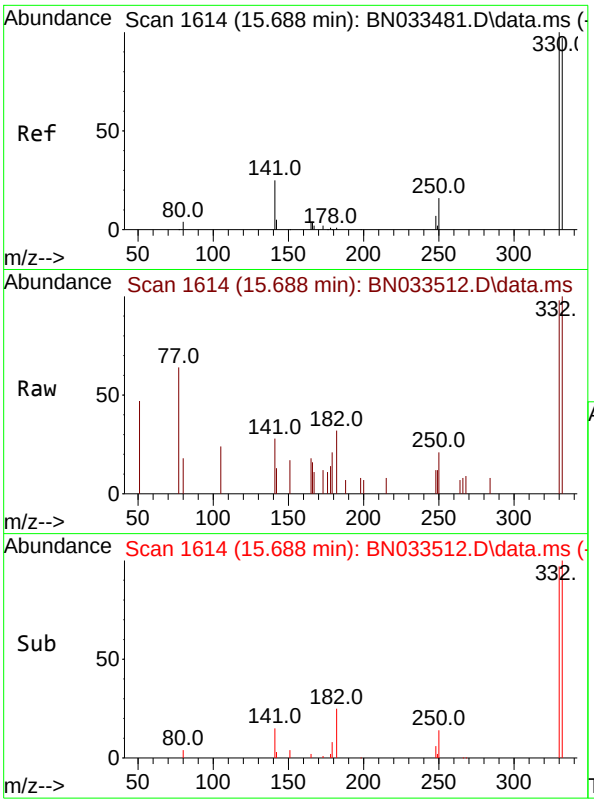


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:164 Resp: 10160

Ion	Ratio	Lower	Upper
164	100		
162	103.1	83.5	125.3
160	50.8	40.2	60.4



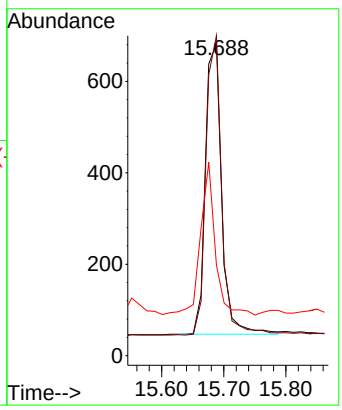


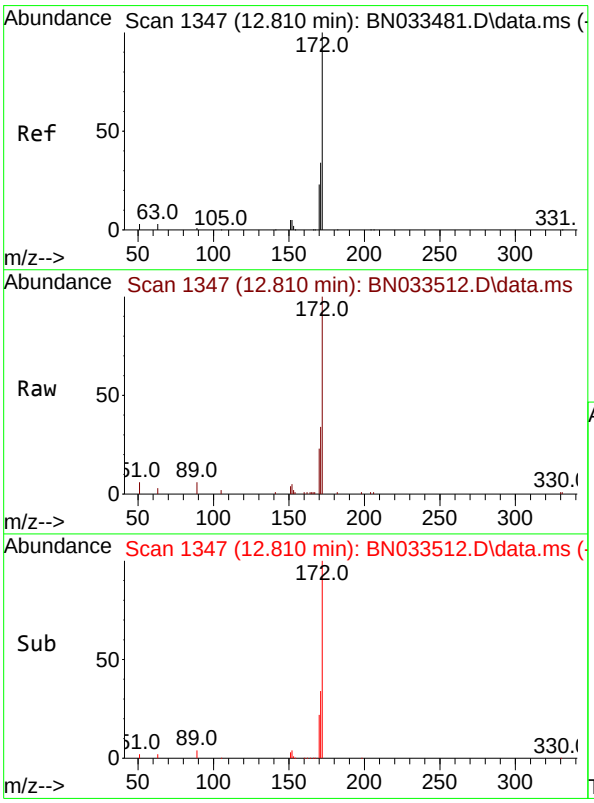
#14
2,4,6-Tribromophenol
Concen: 0.213 ng
RT: 15.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:330 Resp: 1161

Ion	Ratio	Lower	Upper
330	100		
332	99.3	77.5	116.3
141	47.0	33.9	50.9

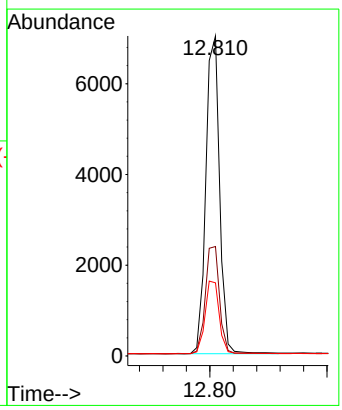


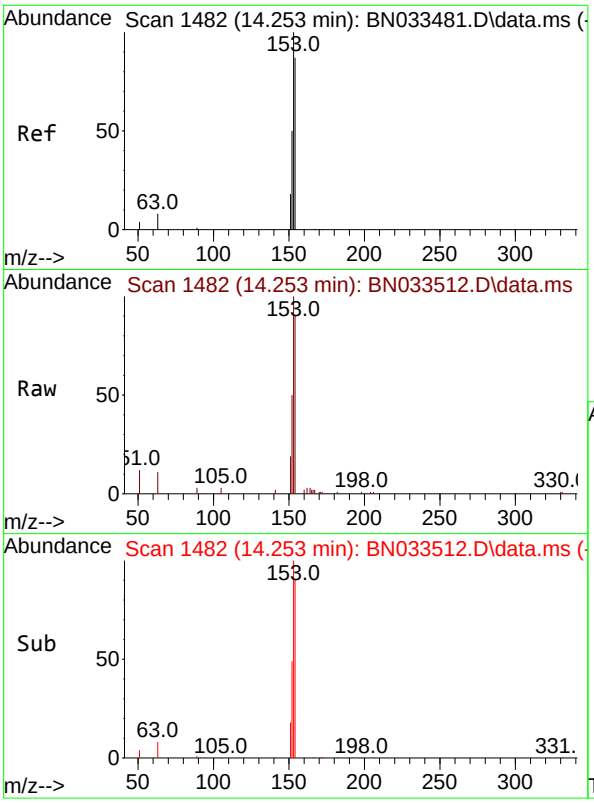


#15
2-Fluorobiphenyl
Concen: 0.276 ng
RT: 12.810 min Scan# 1347
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:172 Resp: 11438

Ion	Ratio	Lower	Upper
172	100		
171	34.2	27.7	41.5
170	22.9	18.3	27.5



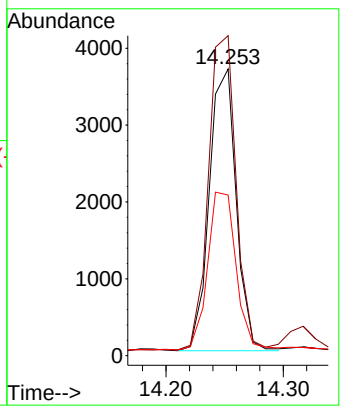


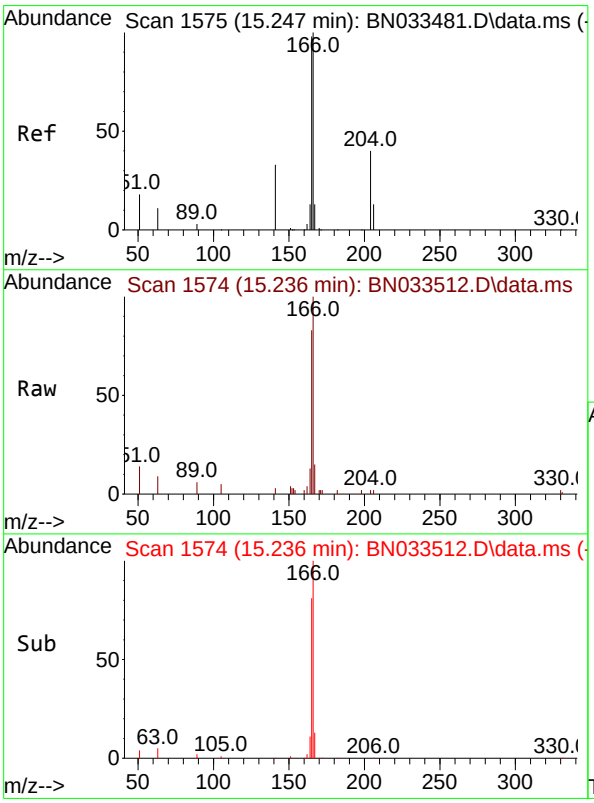
#17
Acenaphthene
Concen: 0.187 ng
RT: 14.253 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:154 Resp: 5851

Ion	Ratio	Lower	Upper
154	100		
153	114.0	89.0	133.6
152	58.8	45.2	67.8

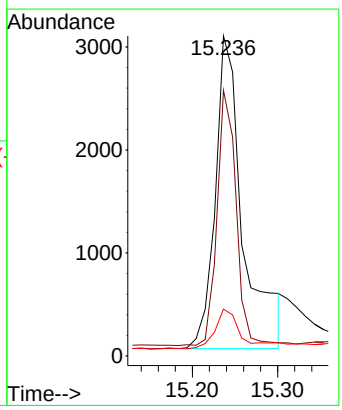


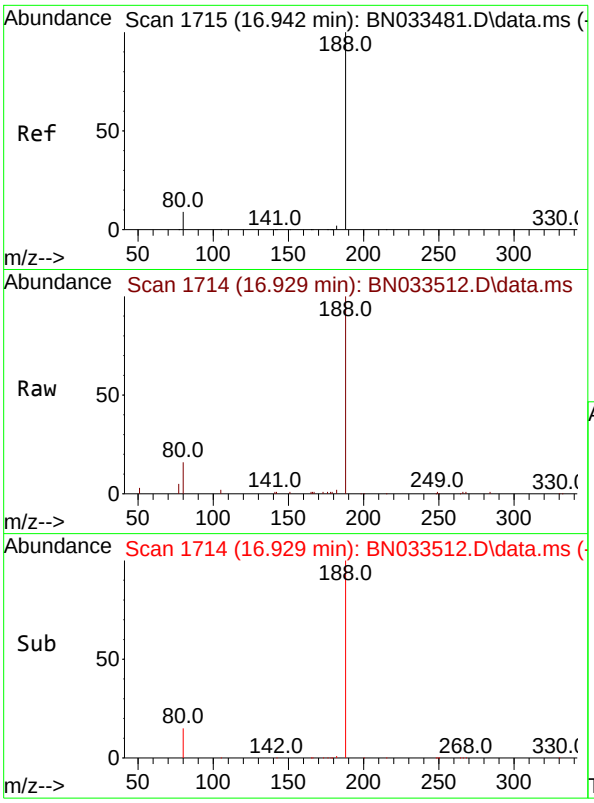


#18
Fluorene
Concen: 0.174 ng
RT: 15.236 min Scan# 1574
Delta R.T. -0.011 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:166 Resp: 6857

Ion	Ratio	Lower	Upper
166	100		
165	56.0	78.2	117.4#
167	11.0	10.6	16.0



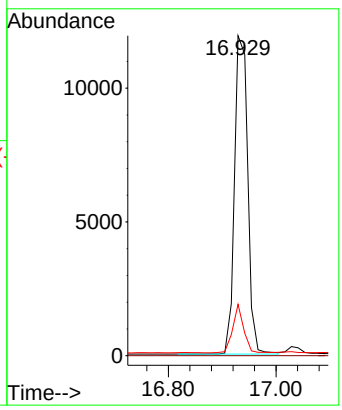


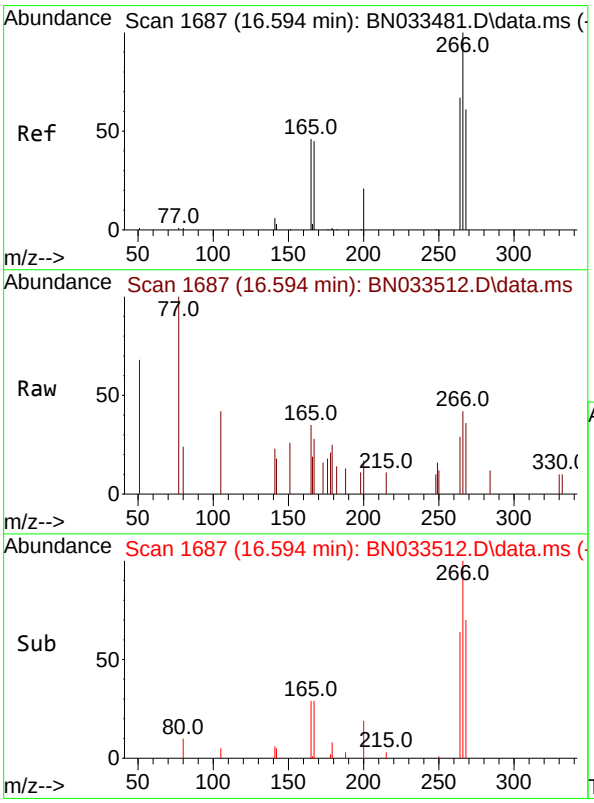
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:188 Resp: 20244

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.0	7.8	11.8#

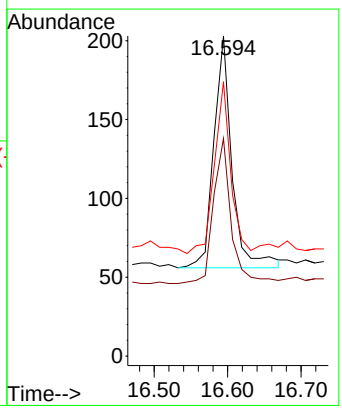


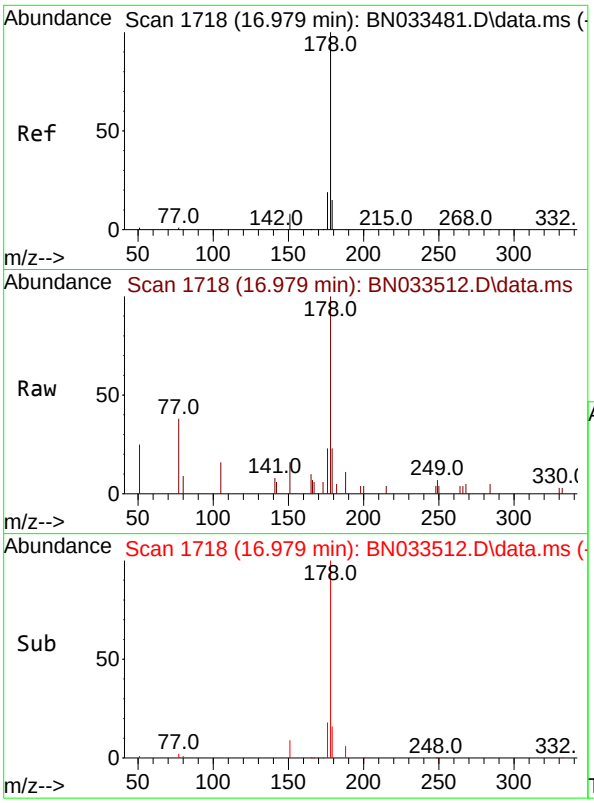


#24
Pentachlorophenol
Concen: 0.043 ng
RT: 16.594 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:266 Resp: 252

Ion	Ratio	Lower	Upper
266	100		
264	61.1	51.9	77.9
268	66.3	51.0	76.4



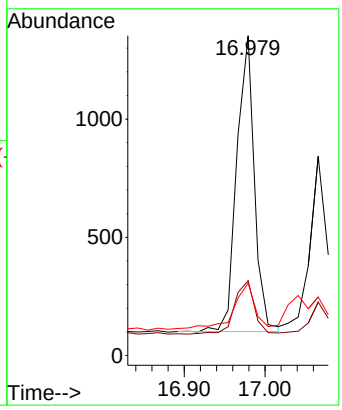


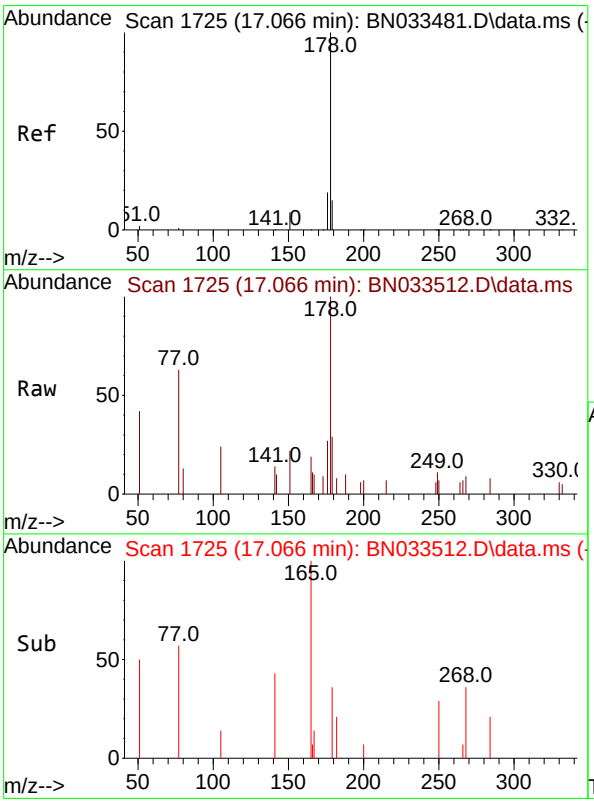
#25
Phenanthrene
Concen: 0.034 ng
RT: 16.979 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:178 Resp: 1898

Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.3	22.9
179	17.4	12.3	18.5

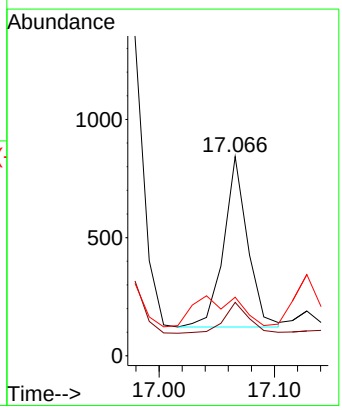


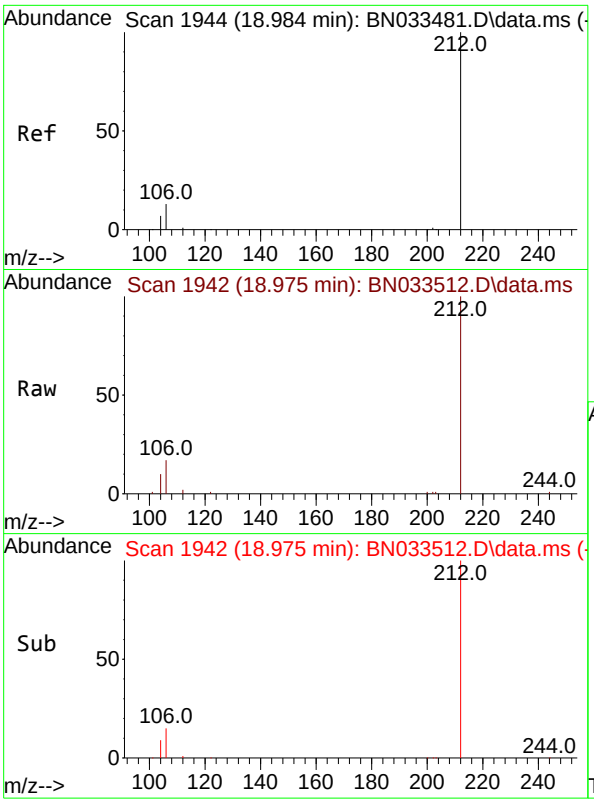


#26
Anthracene
Concen: 0.021 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:178 Resp: 1043

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.6
179	0.0	12.4	18.6#



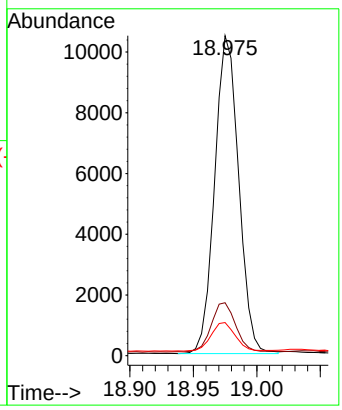


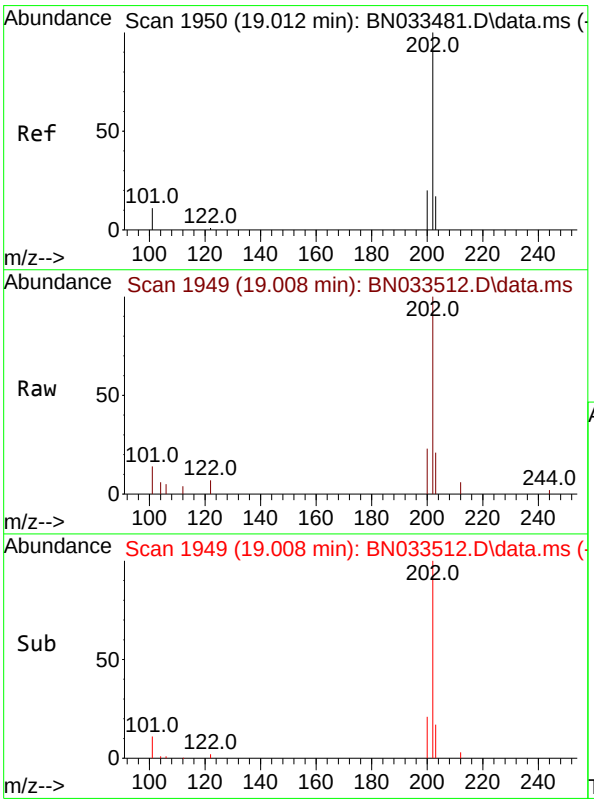
#27
Fluoranthene-d10
Concen: 0.282 ng
RT: 18.975 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:212 Resp: 13730

Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.3	18.5
104	9.0	7.0	10.4

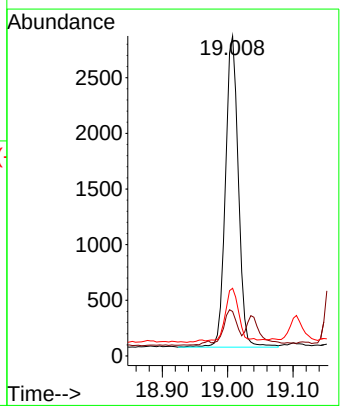


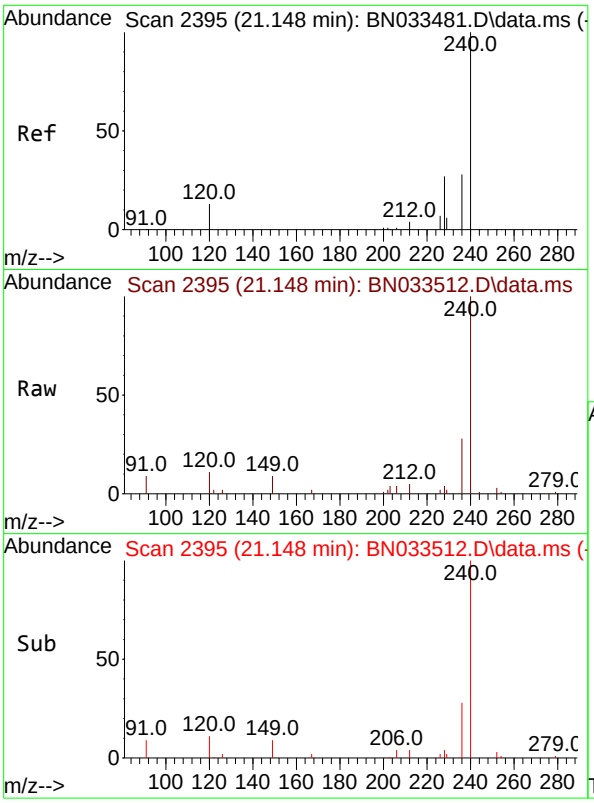


#28
Fluoranthene
Concen: 0.061 ng
RT: 19.008 min Scan# 1949
Delta R.T. -0.005 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:202 Resp: 3827

Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.5	14.3
203	17.3	13.8	20.6



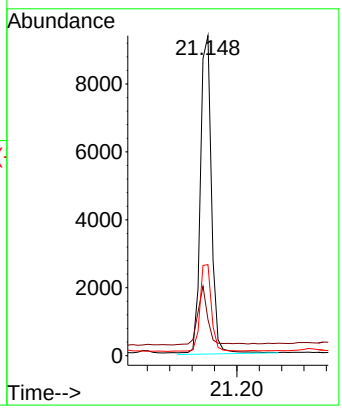


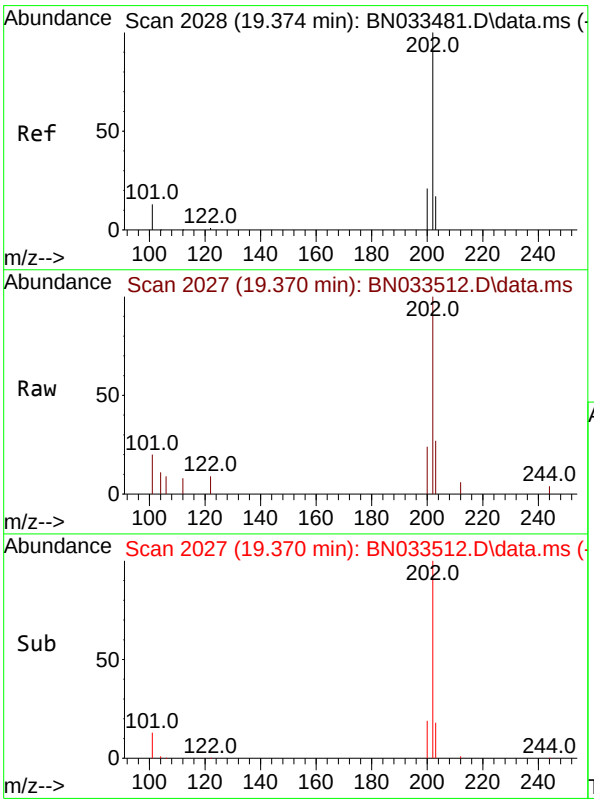
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:240 Resp: 12892

Ion	Ratio	Lower	Upper
240	100		
120	11.3	12.4	18.6#
236	28.4	23.0	34.6

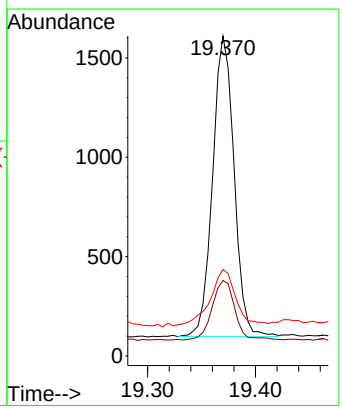


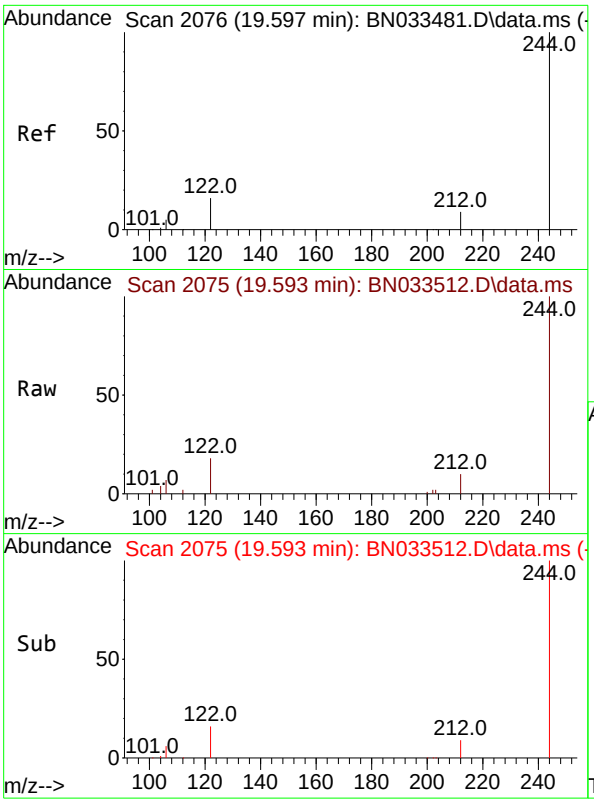


#30
Pyrene
Concen: 0.036 ng
RT: 19.370 min Scan# 2027
Delta R.T. -0.005 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:202 Resp: 2090

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	22.5	14.2	21.4#



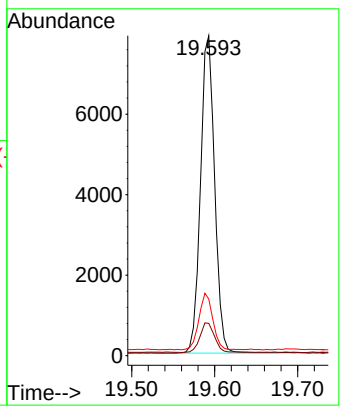


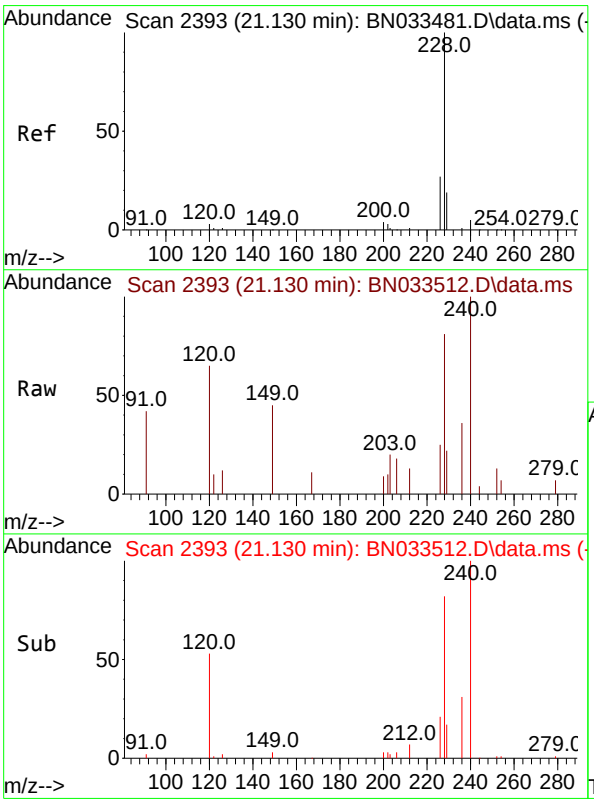
#31
Terphenyl-d14
Concen: 0.320 ng
RT: 19.593 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:244 Resp: 9371

Ion	Ratio	Lower	Upper
244	100		
212	10.1	7.8	11.6
122	17.7	13.3	19.9

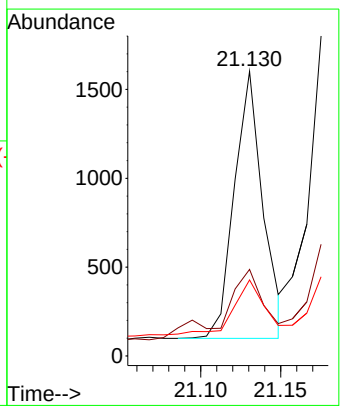


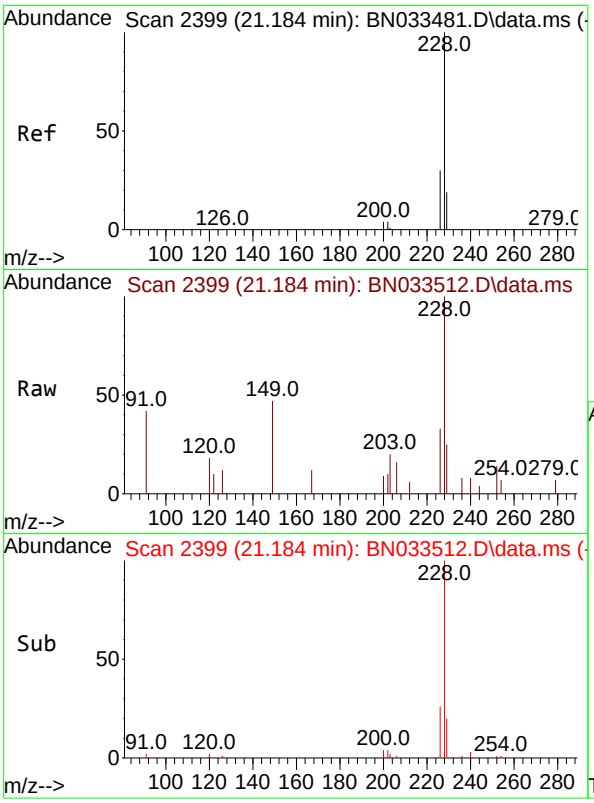


#32
Benzo(a)anthracene
Concen: 0.040 ng
RT: 21.130 min Scan# 2393
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:228 Resp: 1869

Ion	Ratio	Lower	Upper
228	100		
226	30.4	21.8	32.6
229	26.7	15.8	23.6#



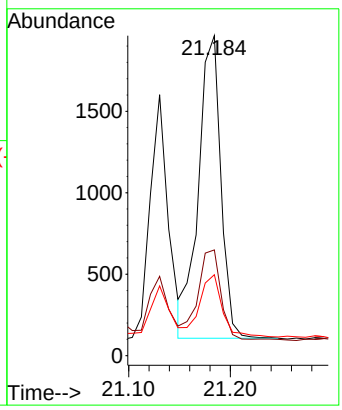


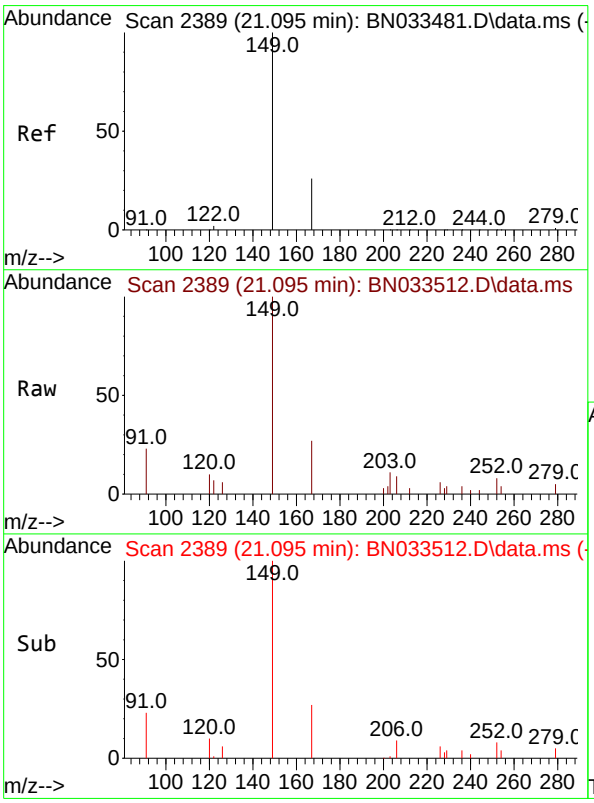
#33
Chrysene
Concen: 0.061 ng
RT: 21.184 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:228 Resp: 2847

Ion	Ratio	Lower	Upper
228	100		
226	33.0	23.8	35.8
229	25.3	15.6	23.4#

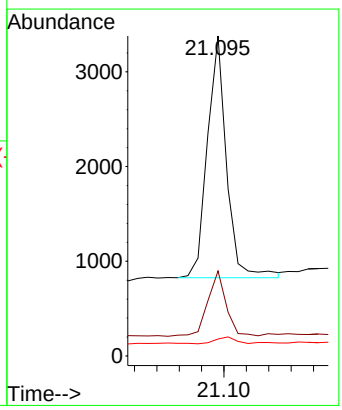


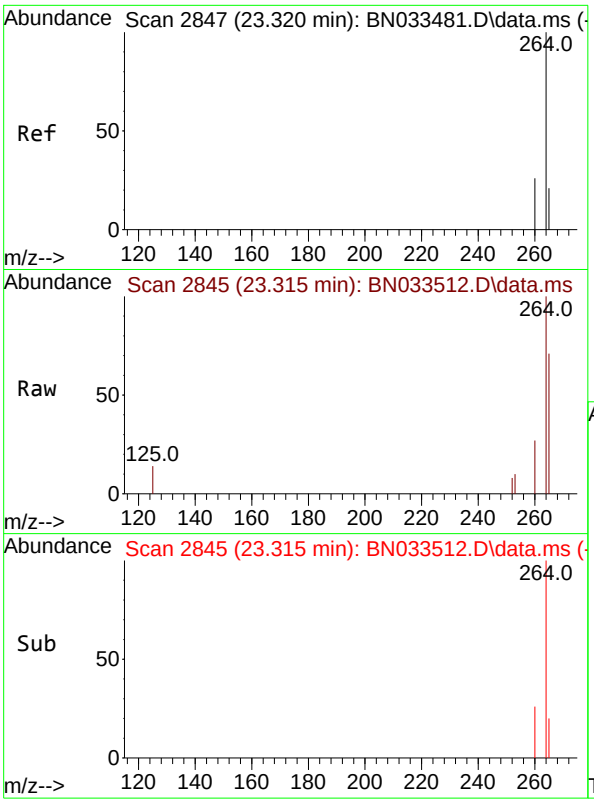


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.103 ng
RT: 21.095 min Scan# 2389
Delta R.T. 0.000 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:149 Resp: 3035

Ion	Ratio	Lower	Upper
149	100		
167	24.7	21.5	32.3
279	3.5	2.2	3.2#



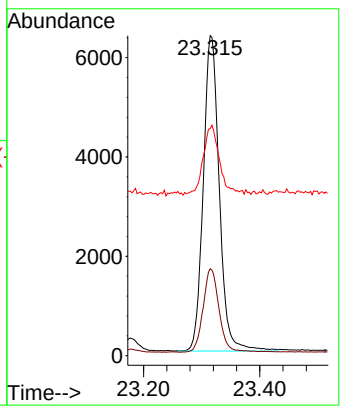


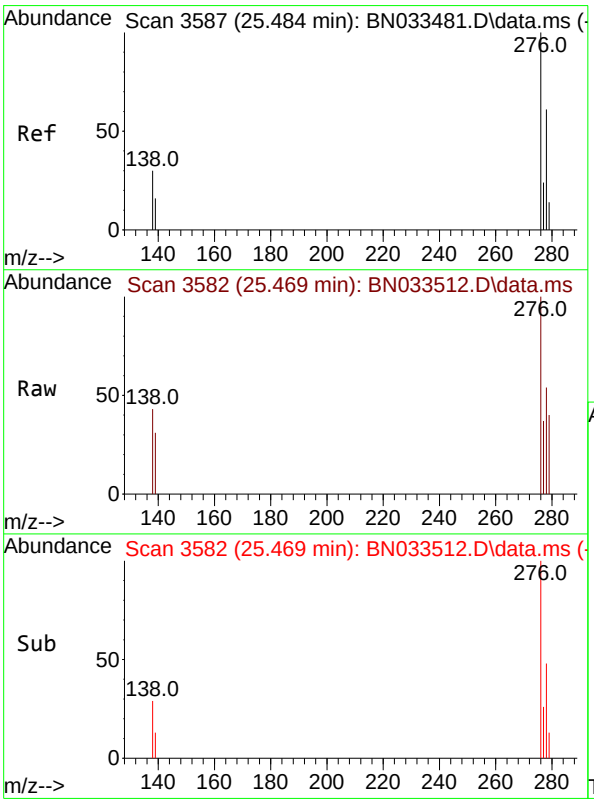
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.315 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:264 Resp: 12153

Ion	Ratio	Lower	Upper
264	100		
260	27.2	20.8	31.2
265	70.9	52.2	78.2

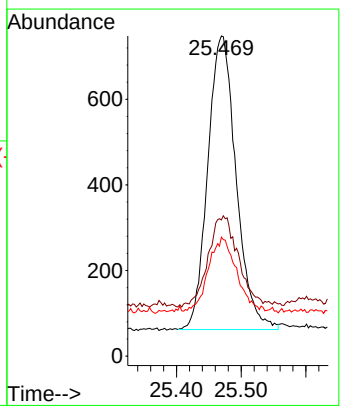


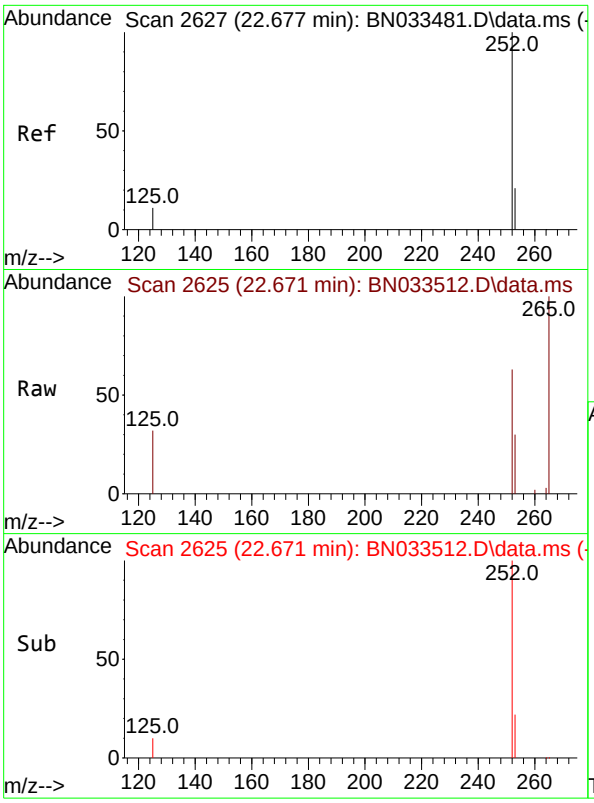


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.041 ng
RT: 25.469 min Scan# 3582
Delta R.T. -0.015 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:276 Resp: 2092

Ion	Ratio	Lower	Upper
276	100		
138	32.8	24.4	36.6
277	25.0	19.8	29.6



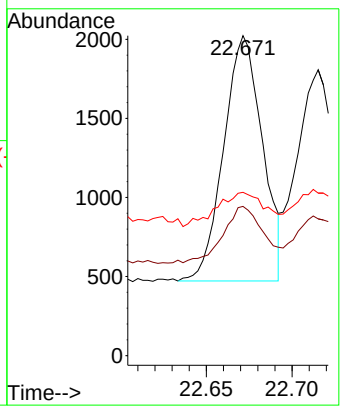


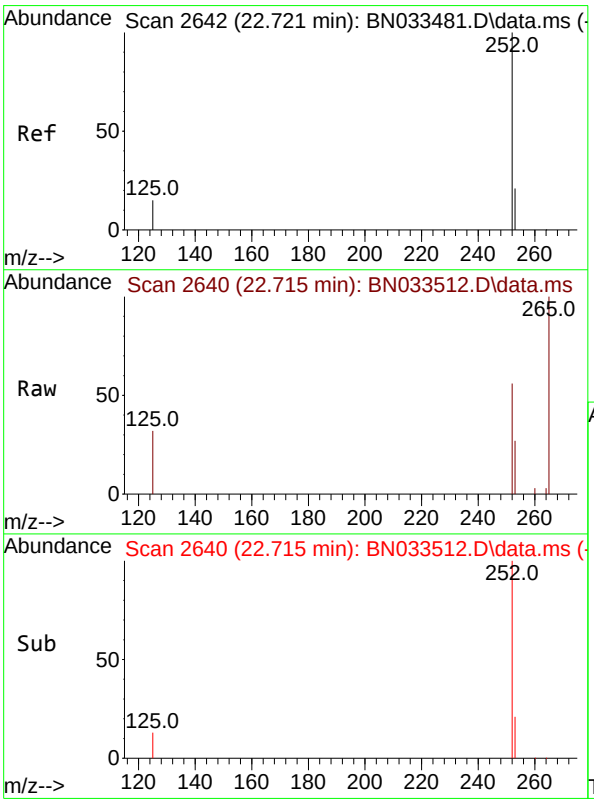
#37
Benzo(b)fluoranthene
Concen: 0.054 ng
RT: 22.671 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:252 Resp: 2441

Ion	Ratio	Lower	Upper
252	100		
253	46.7	19.8	29.8#
125	51.1	13.9	20.9#

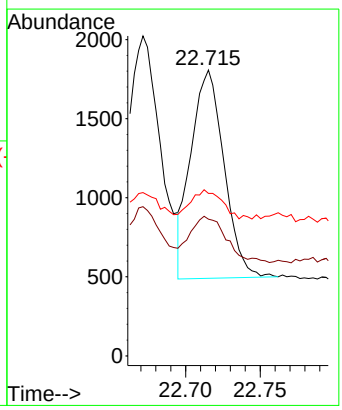


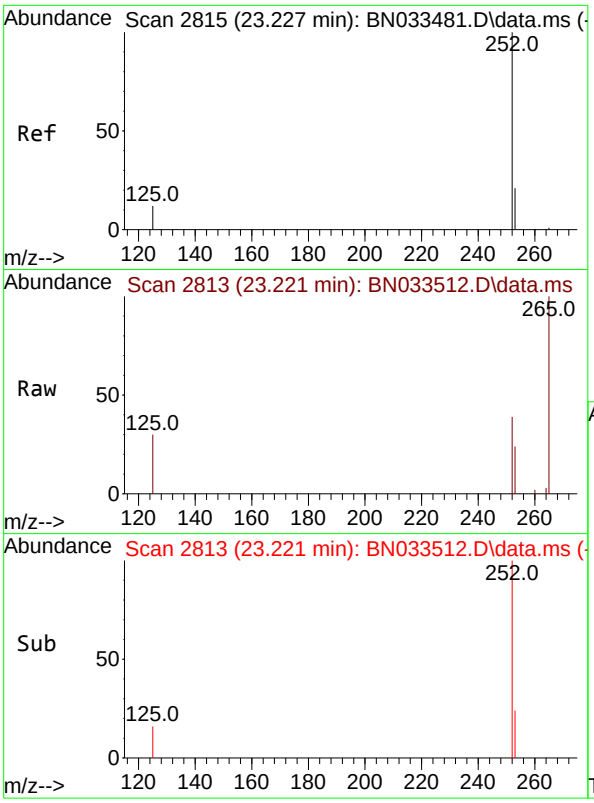


#38
Benzo(k)fluoranthene
Concen: 0.046 ng
RT: 22.715 min Scan# 2640
Delta R.T. -0.006 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:252 Resp: 2037

Ion	Ratio	Lower	Upper
252	100		
253	47.8	19.8	29.8#
125	56.9	15.8	23.8#



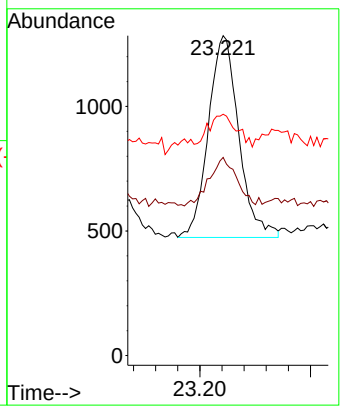


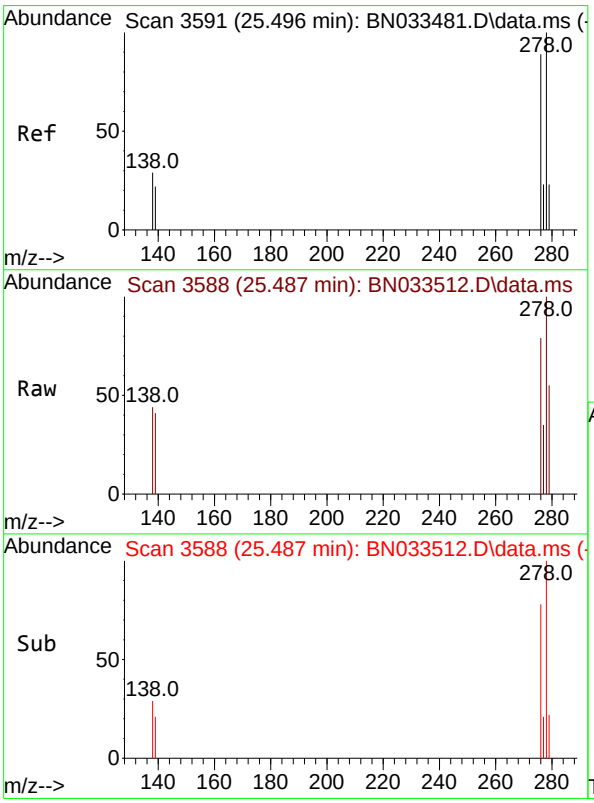
#39
Benzo(a)pyrene
Concen: 0.041 ng
RT: 23.221 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:252 Resp: 1545

Ion	Ratio	Lower	Upper
252	100		
253	61.9	21.5	32.3#
125	75.5	17.0	25.4#

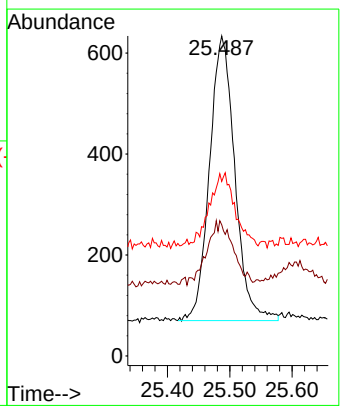


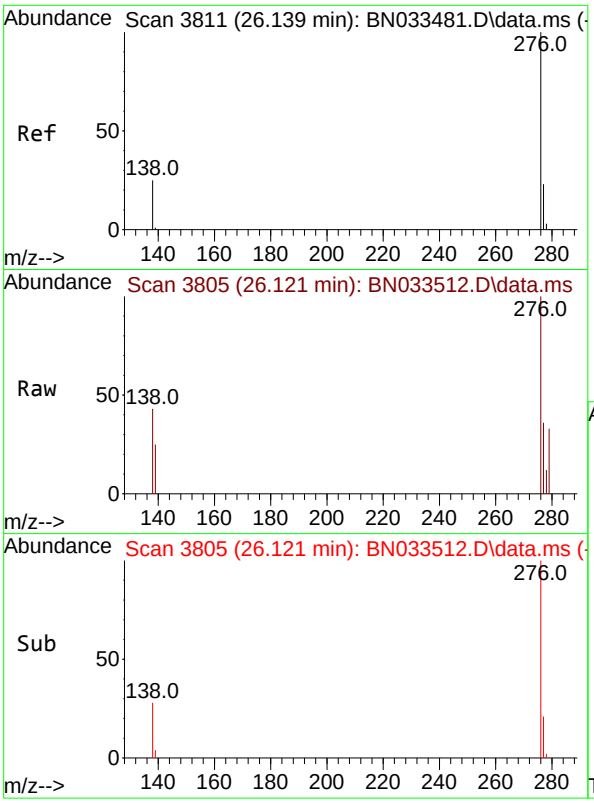


#40
Dibenzo(a,h)anthracene
Concen: 0.039 ng
RT: 25.487 min Scan# 3588
Delta R.T. -0.009 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Tgt Ion:278 Resp: 1593

Ion	Ratio	Lower	Upper
278	100		
139	41.0	19.1	28.7#
279	54.6	21.0	31.4#



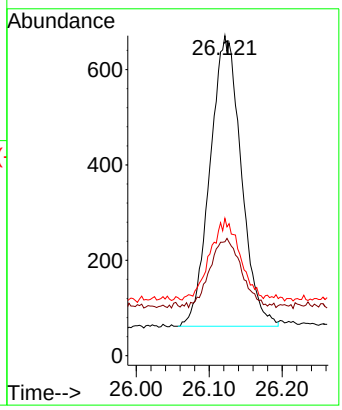


#41
Benzo(g,h,i)perylene
Concen: 0.042 ng
RT: 26.121 min Scan# 3
Delta R.T. -0.017 min
Lab File: BN033512.D
Acq: 20 Aug 2024 18:52

Instrument :
BNA_N
ClientSampleId :
914-J-WS-081524

Tgt Ion:276 Resp: 1802

Ion	Ratio	Lower	Upper
276	100		
277	35.6	19.7	29.5#
138	42.9	21.8	32.6#



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/15/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/15/24
Client Sample ID:	916-J-WS-081524	SDG No.:	P3645
Lab Sample ID:	P3645-02	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	990 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
BN033513.D	1	08/16/24 10:33	08/20/24 19:28	PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.030	J	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	0.090	J	0.020	0.10	ug/L
86-73-7	Fluorene	0.13		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.030	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	0.030	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	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	0.27		30 (20) - 150 (139)	68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 (30) - 150 (150)	83%	SPK: 0.4
367-12-4	2-Fluorophenol	0.14		15 (10) - 110 (100)	34%	SPK: 0.4
13127-88-3	Phenol-d6	0.089		15 (10) - 110 (100)	22%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		30 (27) - 130 (123)	68%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		30 (34) - 130 (132)	76%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.23		15 (10) - 110 (131)	57%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.29		30 (35) - 130 (157)	73%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7720	7.552			

Raw Data: **BN033513.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/15/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/15/24
Client Sample ID:	916-J-WS-081524	SDG No.:	P3645
Lab Sample ID:	P3645-02	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	990 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
BN033513.D	1	08/16/24 10:33	08/20/24 19:28	PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1146-65-2	Naphthalene-d8	19600	10.314			
15067-26-2	Acenaphthene-d10	9100	14.188			
1517-22-2	Phenanthrene-d10	18000	16.929			
1719-03-5	Chrysene-d12	14700	21.139			
1520-96-3	Perylene-d12	14900	23.311			

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\BN082024\
Data File : BN033513.D
Acq On : 20 Aug 2024 19:28
Operator : MA/JU
Sample : P3645-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Quant Time: Aug 20 23:21:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

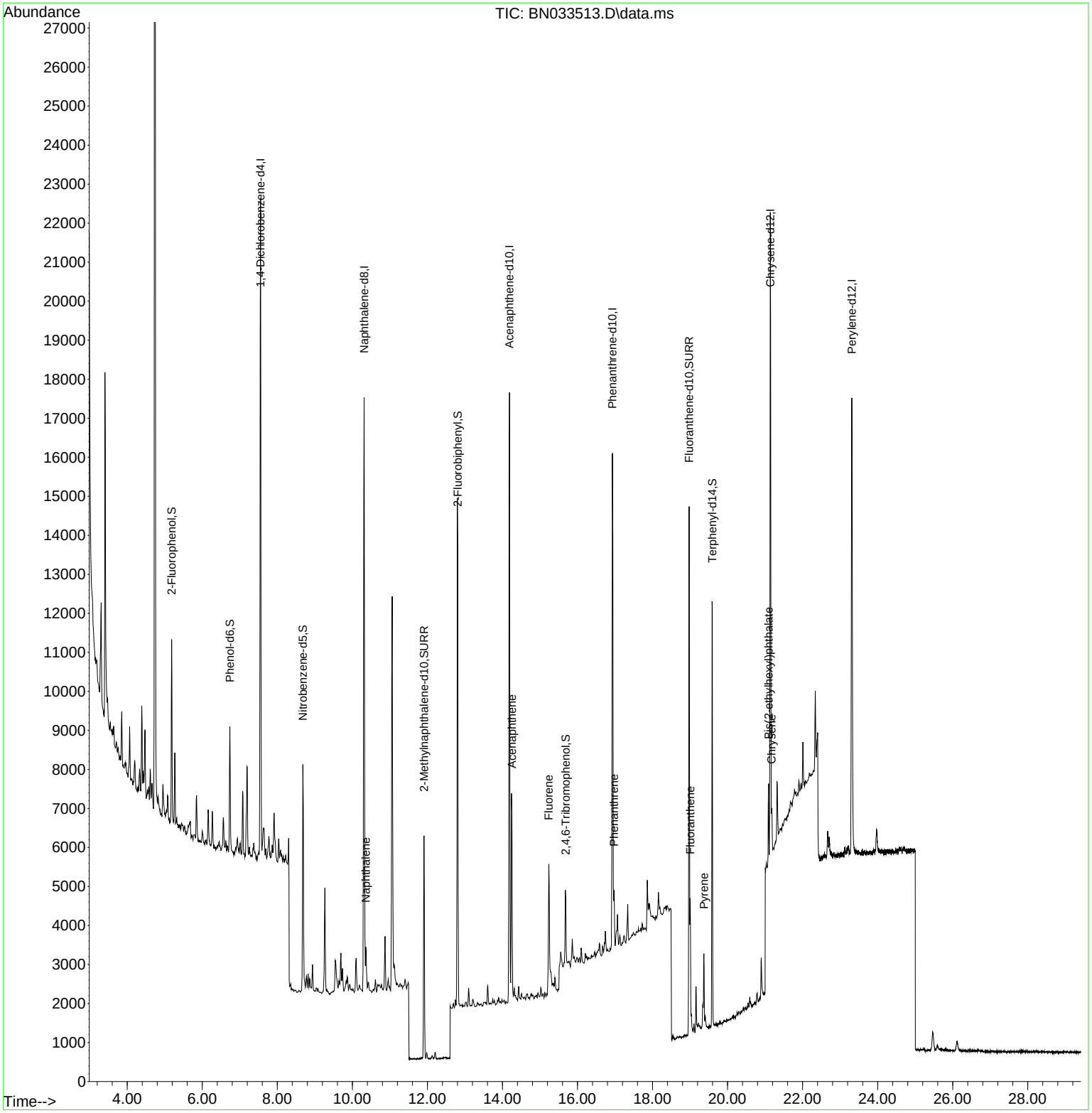
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	7720	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	19614	0.400	ng	# 0.00
13) Acenaphthene-d10	14.188	164	9099	0.400	ng	0.00
19) Phenanthrene-d10	16.929	188	17960	0.400	ng	#-0.01
29) Chrysene-d12	21.139	240	14746	0.400	ng	# 0.00
35) Perylene-d12	23.311	264	14922	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	3347	0.136	ng	0.00
5) Phenol-d6	6.736	99	2604	0.089	ng	0.00
8) Nitrobenzene-d5	8.680	82	4387	0.270	ng	-0.01
11) 2-Methylnaphthalene-d10	11.910	152	7589	0.270	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	1116	0.228	ng	0.00
15) 2-Fluorobiphenyl	12.809	172	11357	0.306	ng	0.00
27) Fluoranthene-d10	18.975	212	14225	0.330	ng	0.00
31) Terphenyl-d14	19.592	244	9803	0.293	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.357	128	1311	0.025	ng	# 83
17) Acenaphthene	14.252	154	2555	0.091	ng	95
18) Fluorene	15.236	166	4422	0.125	ng	# 46
25) Phenanthrene	16.979	178	1589	0.032	ng	94
28) Fluoranthene	19.002	202	3031	0.055	ng	99
30) Pyrene	19.369	202	1640	0.025	ng	# 91
33) Chrysene	21.175	228	1356m	0.026	ng	
34) Bis(2-ethylhexyl)phtha...	21.094	149	1979m	0.059	ng	

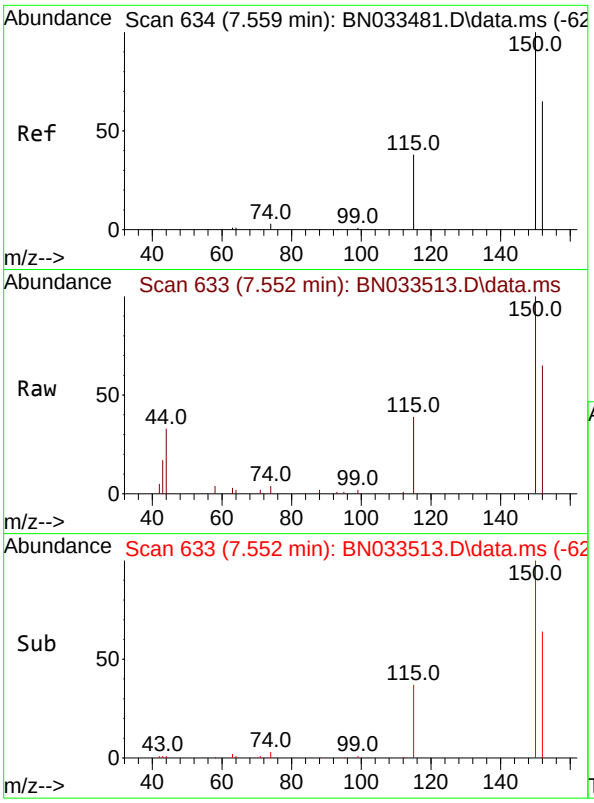
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082024\
Data File : BN033513.D
Acq On : 20 Aug 2024 19:28
Operator : MA/JU
Sample : P3645-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Quant Time: Aug 20 23:21:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration



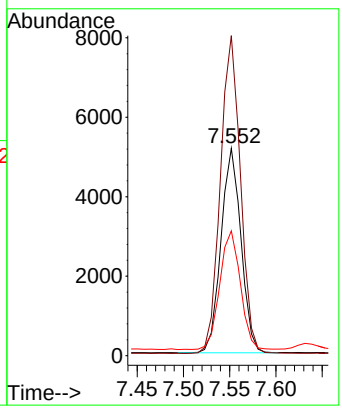


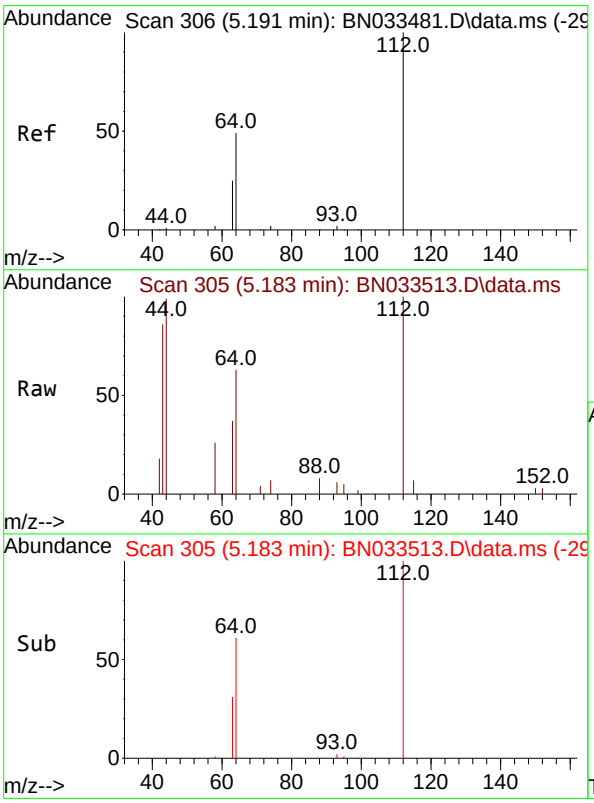
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.552 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Tgt Ion:152 Resp: 7720

Ion	Ratio	Lower	Upper
152	100		
150	154.3	122.2	183.2
115	60.2	47.2	70.8

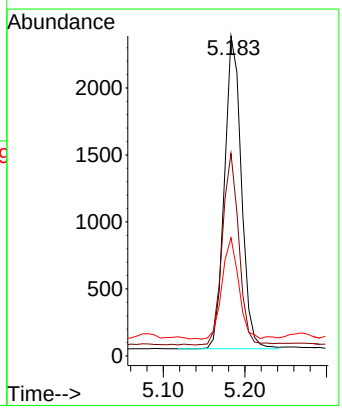


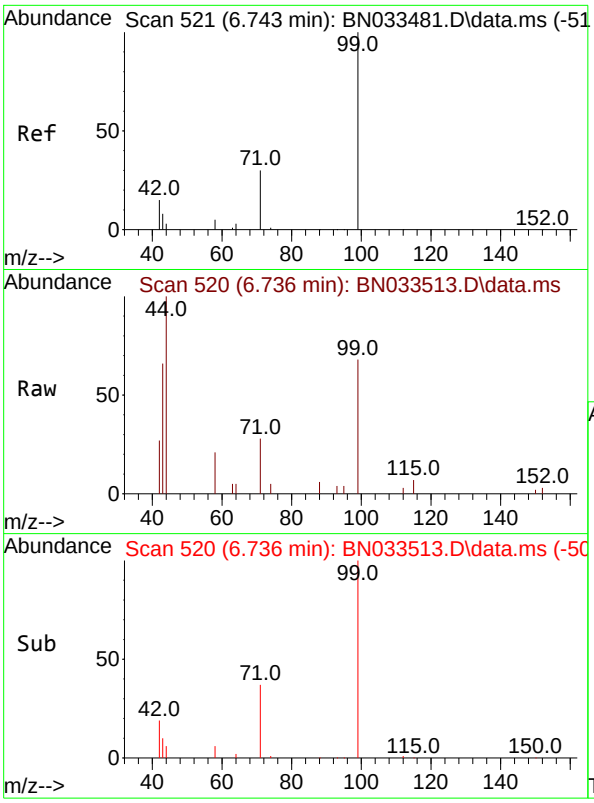


#4
2-Fluorophenol
Concen: 0.136 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.008 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Tgt Ion:112 Resp: 3347

Ion	Ratio	Lower	Upper
112	100		
64	59.5	47.1	70.7
63	32.3	24.9	37.3



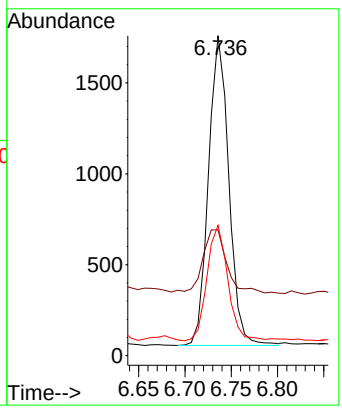


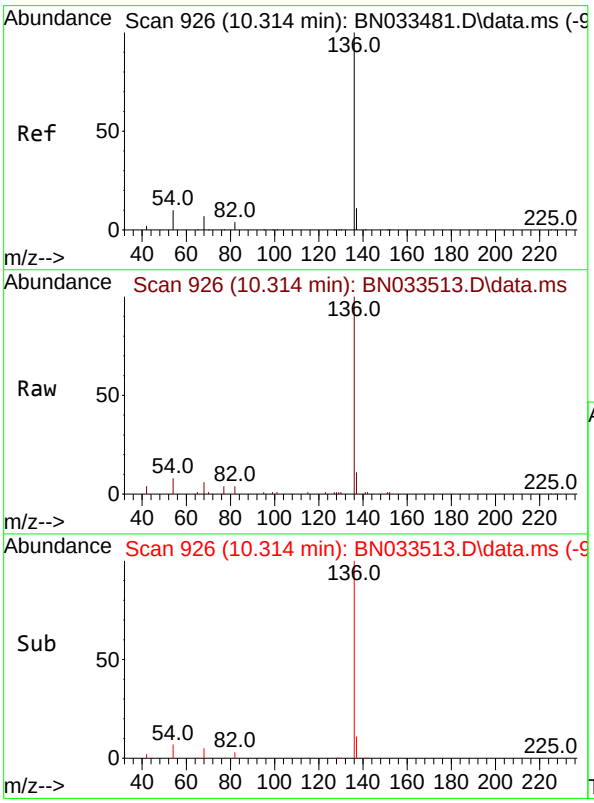
#5
Phenol-d6
Concen: 0.089 ng
RT: 6.736 min Scan# 5
Delta R.T. -0.008 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Tgt Ion: 99 Resp: 2604

Ion	Ratio	Lower	Upper
99	100		
42	24.5	16.6	24.8
71	38.4	26.2	39.4

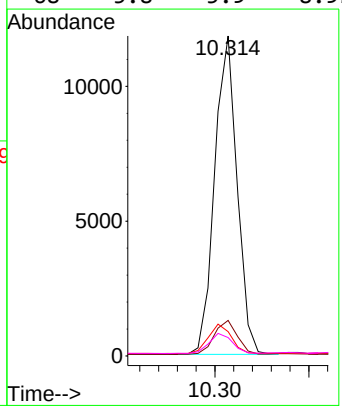


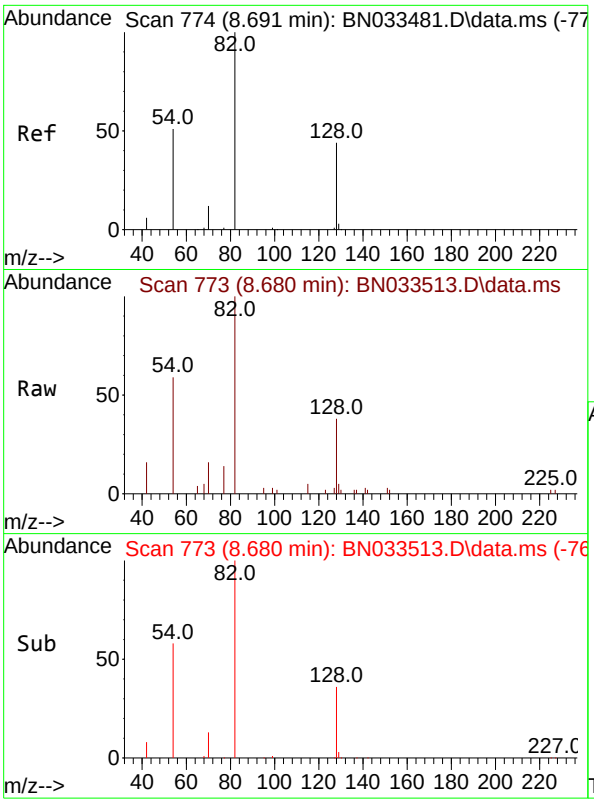


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 926
Delta R.T. -0.000 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Tgt Ion:136 Resp: 19614

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	7.6	8.3	12.5#
68	5.8	5.9	8.9#



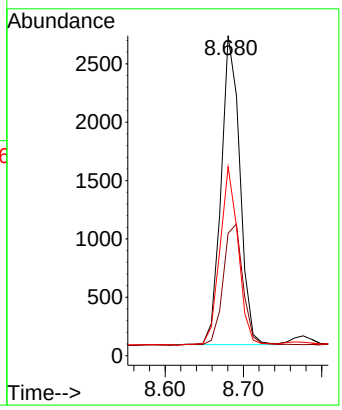


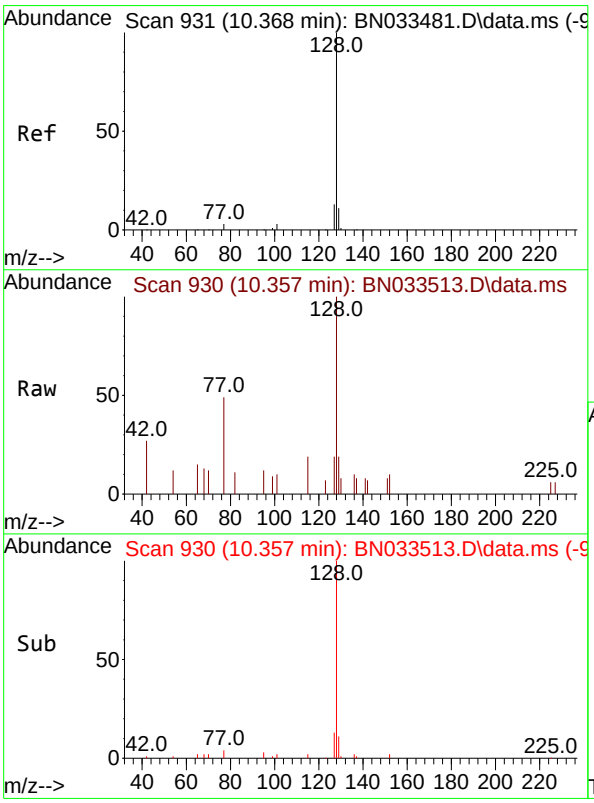
#8
Nitrobenzene-d5
Concen: 0.270 ng
RT: 8.680 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Tgt Ion: 82 Resp: 4387

Ion	Ratio	Lower	Upper
82	100		
128	38.2	36.0	54.0
54	59.0	42.0	63.0

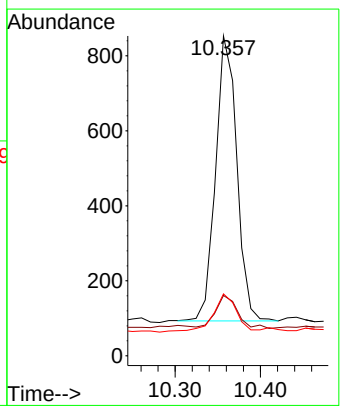


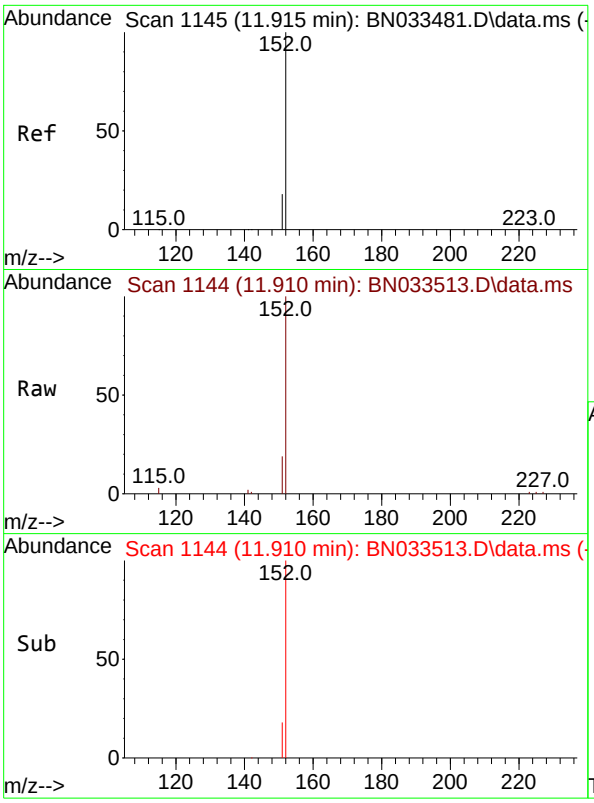


#9
Naphthalene
Concen: 0.025 ng
RT: 10.357 min Scan# 930
Delta R.T. -0.011 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Tgt Ion:128 Resp: 1311

Ion	Ratio	Lower	Upper
128	100		
129	18.9	9.1	13.7#
127	19.3	10.7	16.1#



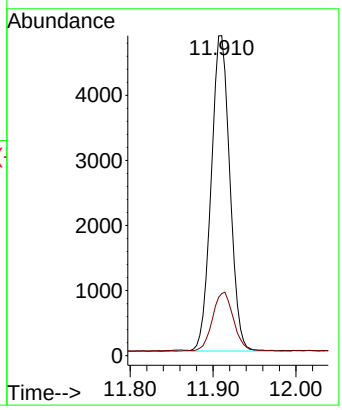


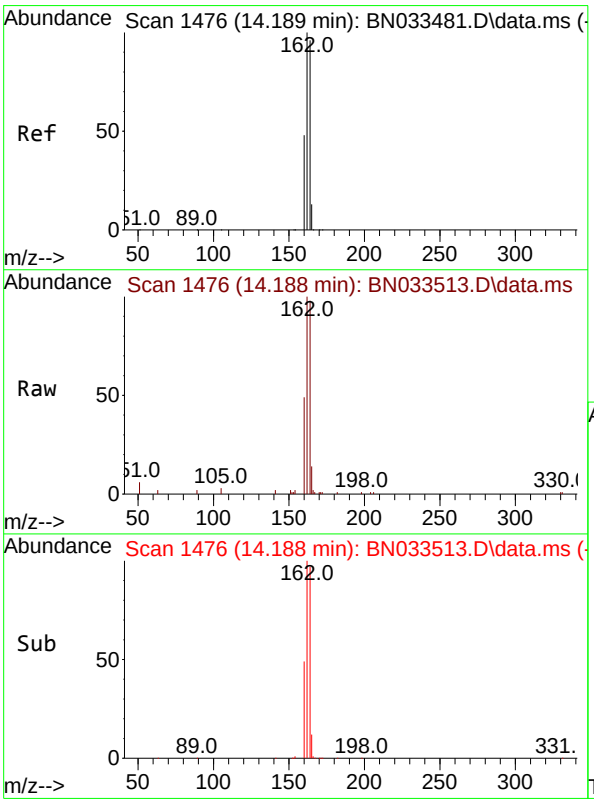
#11
2-Methylnaphthalene-d10
Concen: 0.270 ng
RT: 11.910 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Tgt Ion:152 Resp: 7589

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

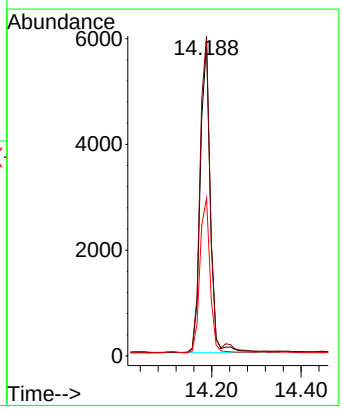


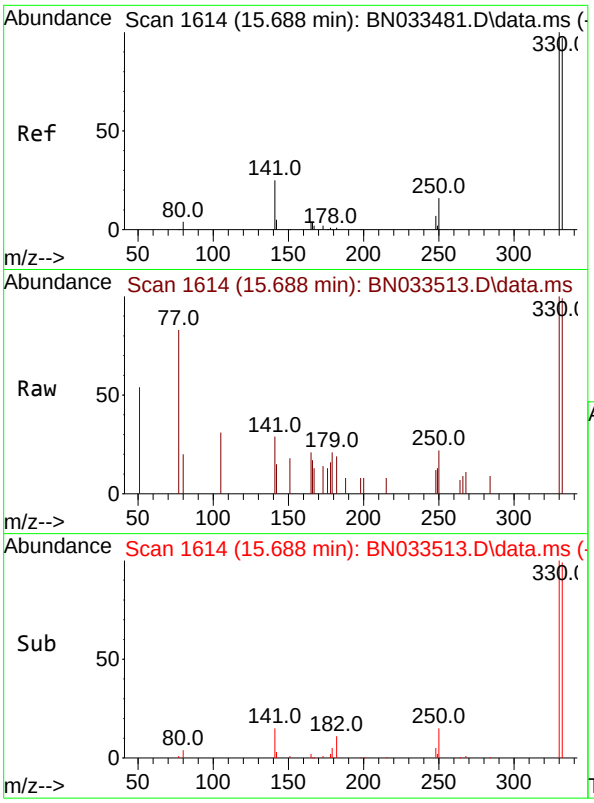


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.188 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Tgt Ion:164 Resp: 9099

Ion	Ratio	Lower	Upper
164	100		
162	102.4	83.5	125.3
160	50.4	40.2	60.4



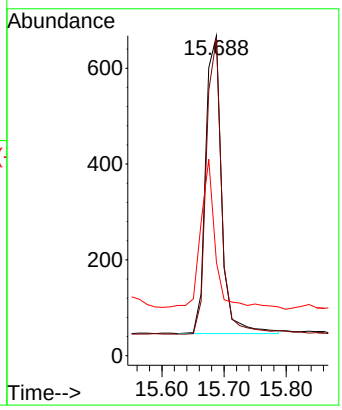


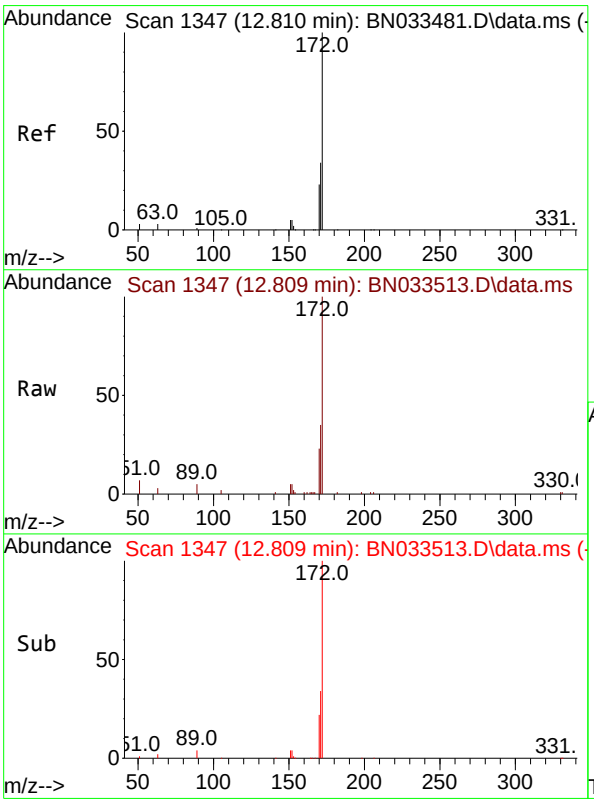
#14
2,4,6-Tribromophenol
Concen: 0.228 ng
RT: 15.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Tgt Ion:330 Resp: 1116

Ion	Ratio	Lower	Upper
330	100		
332	95.1	77.5	116.3
141	43.2	33.9	50.9

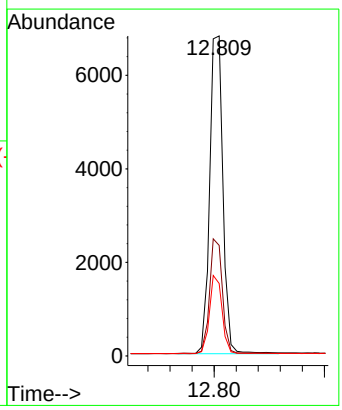


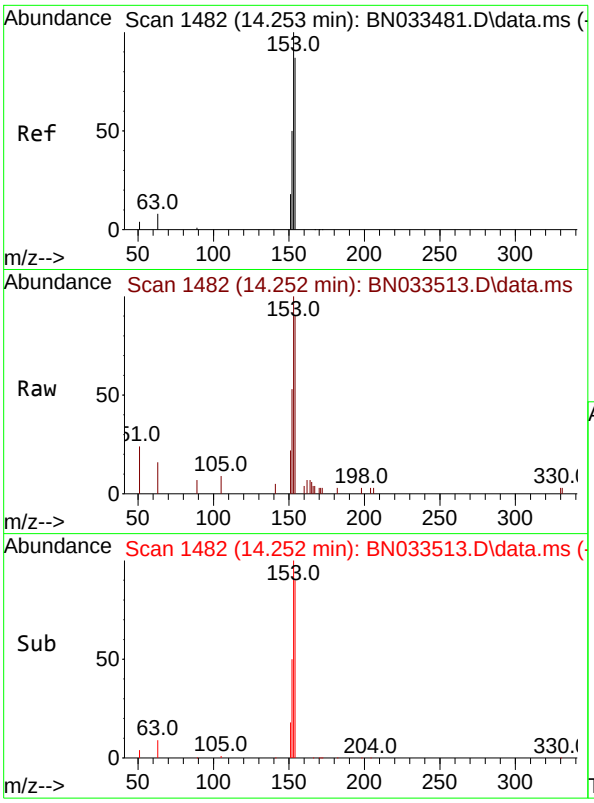


#15
2-Fluorobiphenyl
Concen: 0.306 ng
RT: 12.809 min Scan# 1347
Delta R.T. -0.000 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Tgt Ion:172 Resp: 11357

Ion	Ratio	Lower	Upper
172	100		
171	34.5	27.7	41.5
170	22.6	18.3	27.5



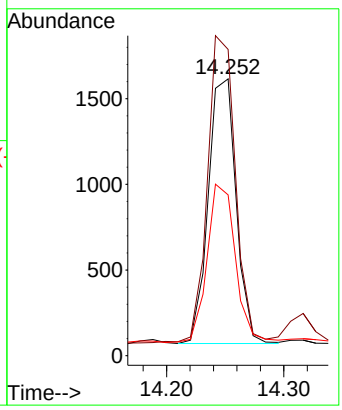


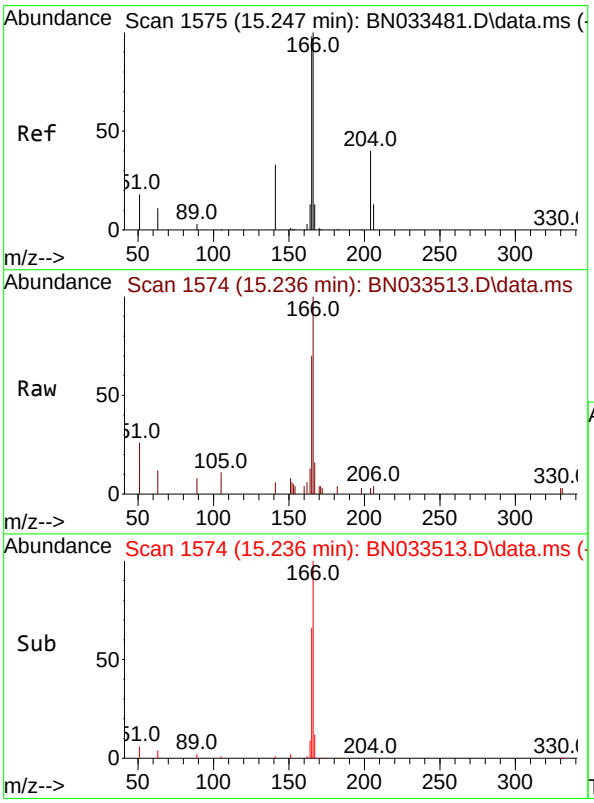
#17
Acenaphthene
Concen: 0.091 ng
RT: 14.252 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Tgt Ion:154 Resp: 2555

Ion	Ratio	Lower	Upper
154	100		
153	115.8	89.0	133.6
152	60.5	45.2	67.8

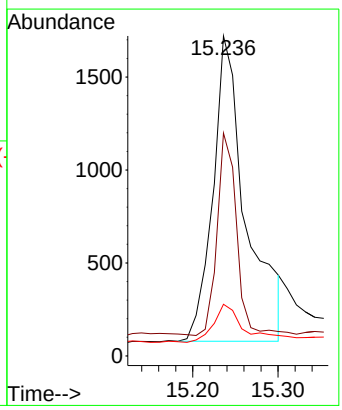


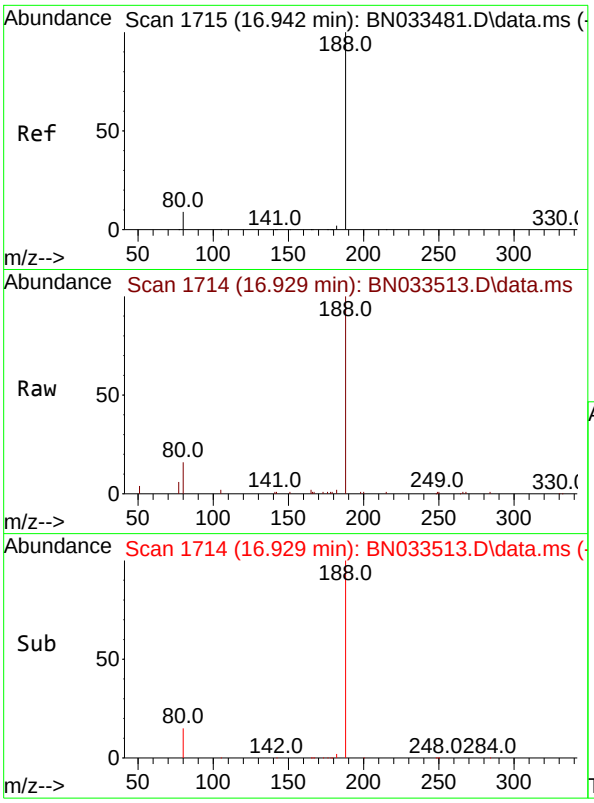


#18
Fluorene
Concen: 0.125 ng
RT: 15.236 min Scan# 1574
Delta R.T. -0.011 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Tgt Ion:166 Resp: 4422

Ion	Ratio	Lower	Upper
166	100		
165	38.3	78.2	117.4#
167	11.4	10.6	16.0



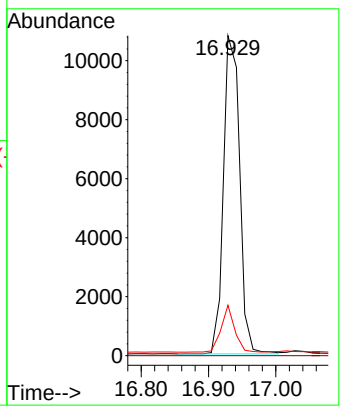


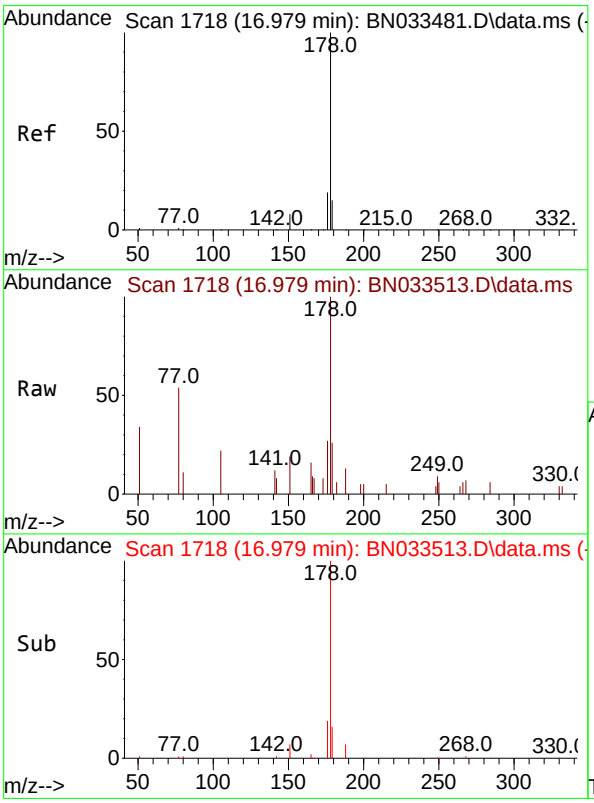
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.929 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Tgt Ion:188 Resp: 17960

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.7	7.8	11.8#

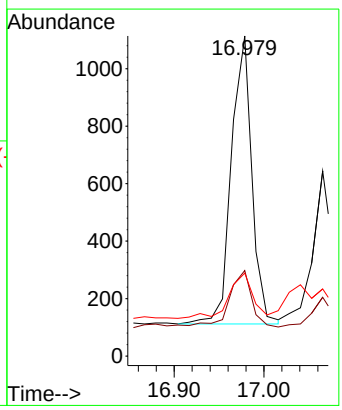


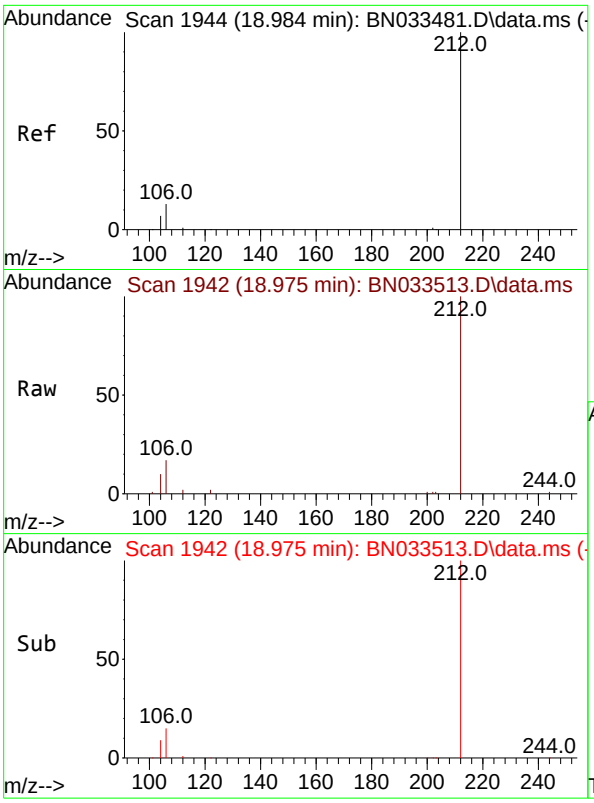


#25
Phenanthrene
Concen: 0.032 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Tgt Ion:178 Resp: 1589

Ion	Ratio	Lower	Upper
178	100		
176	21.6	15.3	22.9
179	18.4	12.3	18.5



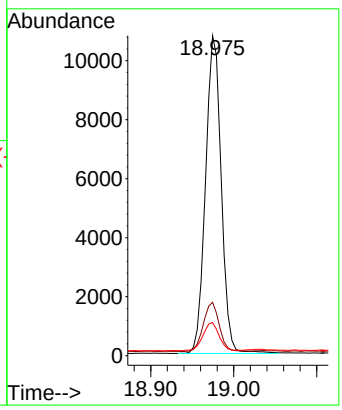


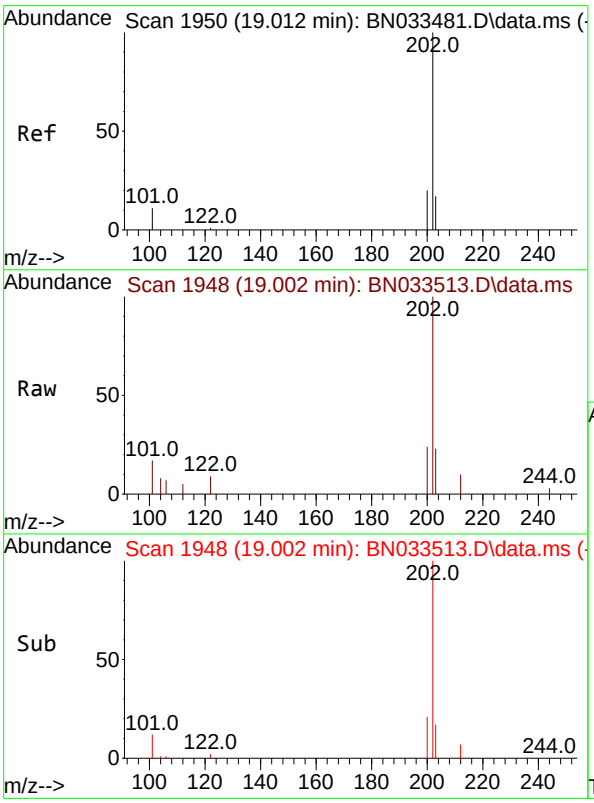
#27
Fluoranthene-d10
Concen: 0.330 ng
RT: 18.975 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Tgt Ion:212 Resp: 14225

Ion	Ratio	Lower	Upper
212	100		
106	15.6	12.3	18.5
104	9.1	7.0	10.4

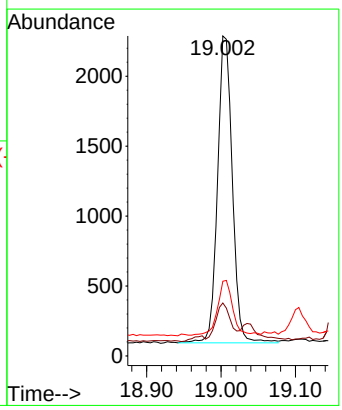


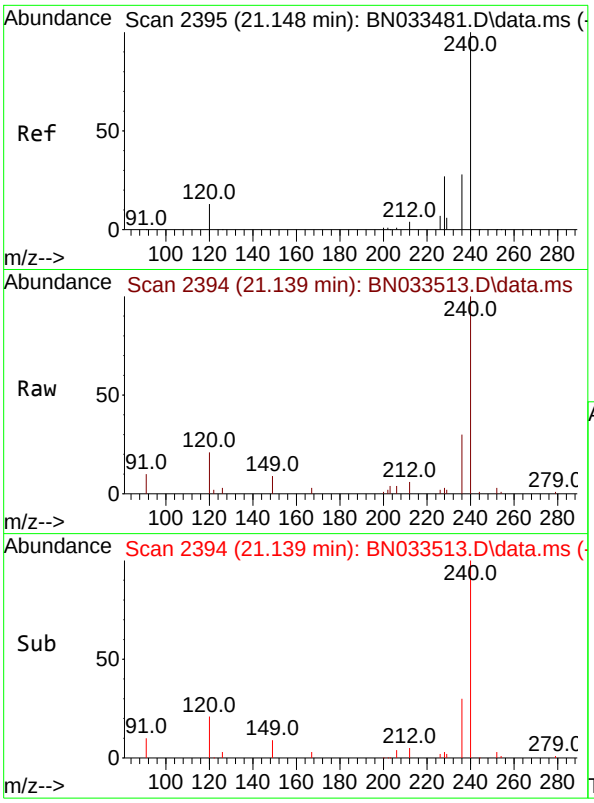


#28
Fluoranthene
Concen: 0.055 ng
RT: 19.002 min Scan# 1948
Delta R.T. -0.010 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Tgt Ion:202 Resp: 3031

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.5	14.3
203	18.0	13.8	20.6



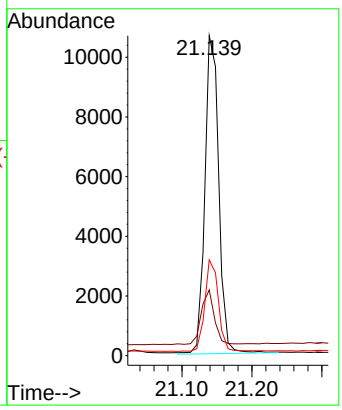


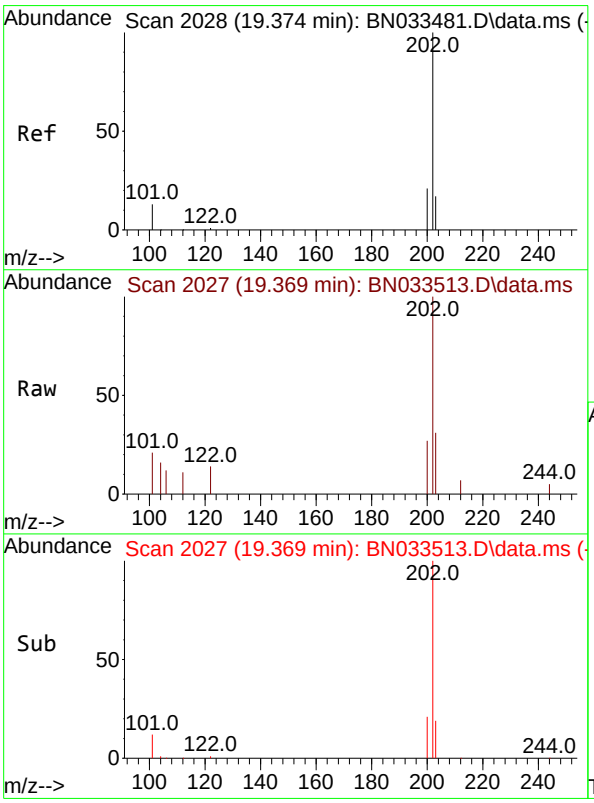
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.139 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Tgt Ion:240 Resp: 14746

Ion	Ratio	Lower	Upper
240	100		
120	20.6	12.4	18.6#
236	29.9	23.0	34.6

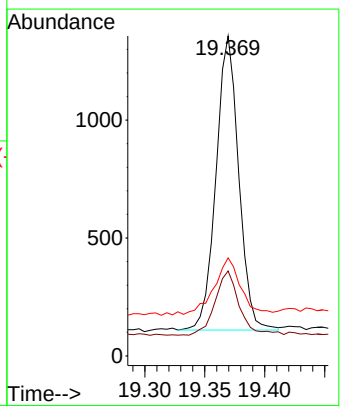


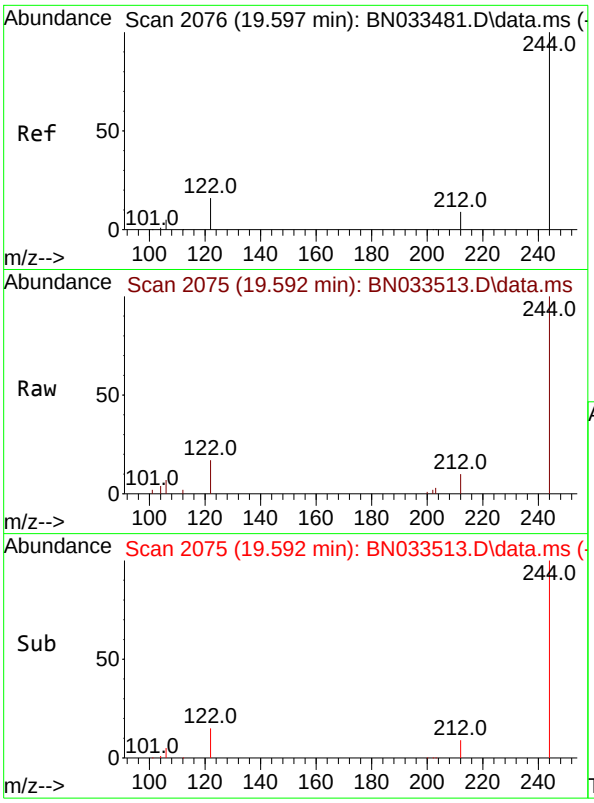


#30
Pyrene
Concen: 0.025 ng
RT: 19.369 min Scan# 2027
Delta R.T. -0.005 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Tgt Ion:202 Resp: 1640

Ion	Ratio	Lower	Upper
202	100		
200	23.2	16.6	24.8
203	23.7	14.2	21.4#



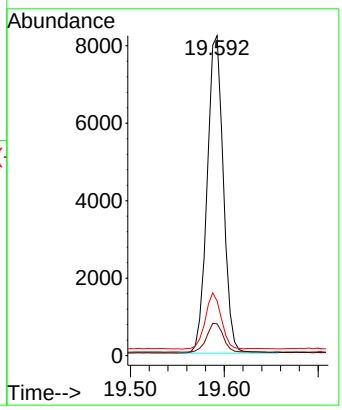


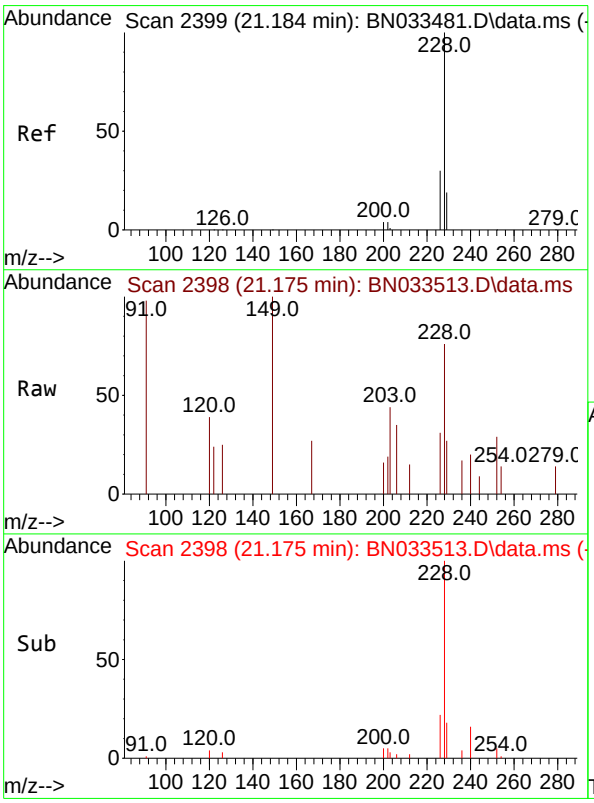
#31
Terphenyl-d14
Concen: 0.293 ng
RT: 19.592 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Tgt Ion:244 Resp: 9803

Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.8	11.6
122	17.1	13.3	19.9

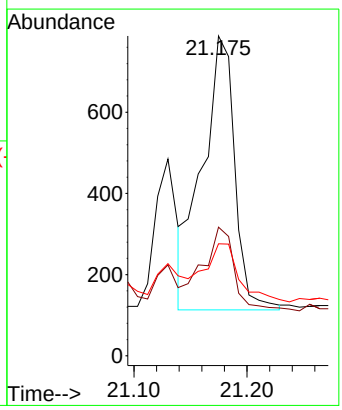


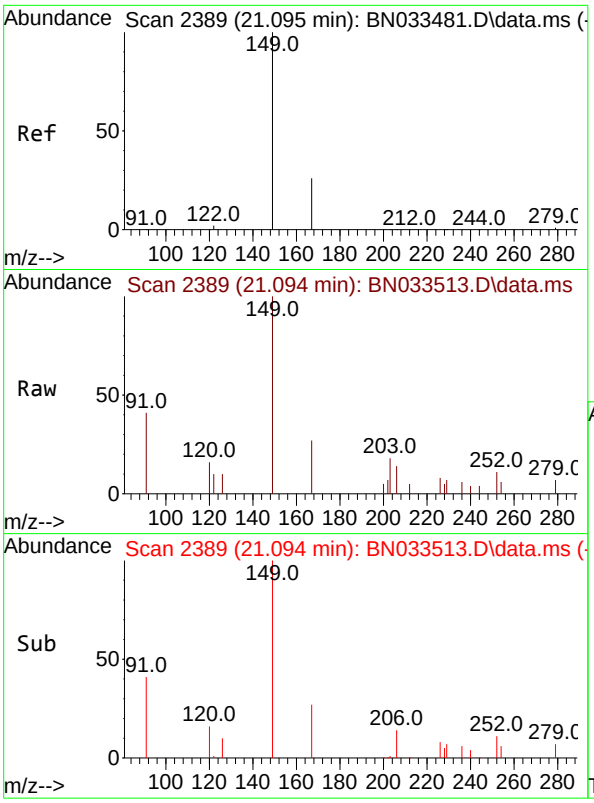


#33
Chrysene
Concen: 0.026 ng m
RT: 21.175 min Scan# 2398
Delta R.T. -0.009 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Tgt Ion:228 Resp: 1356

Ion	Ratio	Lower	Upper
228	100		
226	40.2	23.8	35.8#
229	35.0	15.6	23.4#



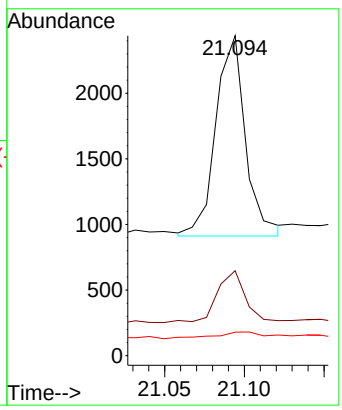


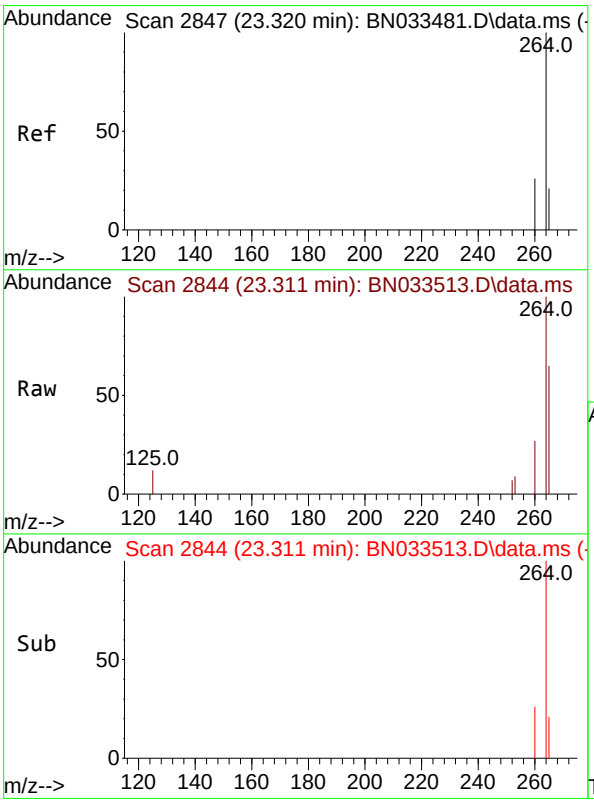
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.059 ng m
RT: 21.094 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Instrument :
BNA_N
ClientSampleId :
916-J-WS-081524

Tgt Ion:149 Resp: 1979

Ion	Ratio	Lower	Upper
149	100		
167	31.6	21.5	32.3
279	0.0	2.2	3.2#

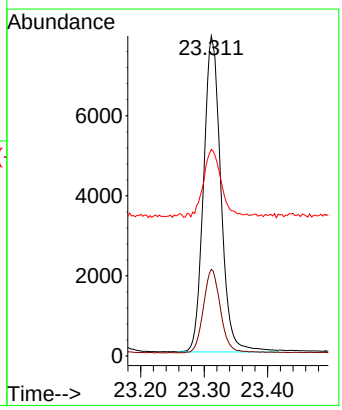




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.311 min Scan# 2844
Delta R.T. -0.009 min
Lab File: BN033513.D
Acq: 20 Aug 2024 19:28

Tgt Ion:264 Resp: 14922

Ion	Ratio	Lower	Upper
264	100		
260	27.0	20.8	31.2
265	64.6	52.2	78.2



CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN081924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 19 23:32:18 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN033479.D 0.2 =BN033480.D 0.4 =BN033481.D 0.8 =BN033482.D 1.6 =BN033483.D 3.2 =BN033484.D 5.0 =BN033485.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.523	0.513	0.329	0.524	0.488	0.452	0.393	0.460	16.21
3)		n-Nitrosodimet...	0.545	0.550	0.456	0.615	0.575	0.521	0.485	0.535	10.02
4)	S	2-Fluorophenol	1.276	1.281	1.267	1.350	1.327	1.196	1.202	1.271	4.52
5)	S	Phenol-d6	1.555	1.576	1.360	1.677	1.598	1.464	1.357	1.512	8.10
6)		bis(2-Chloroet...	1.170	1.144	0.753	1.227	1.166	1.067	0.980	1.072	15.13
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.341	0.324	0.303	0.352	0.345	0.322	0.334	0.332	4.96
9)		Naphthalene	1.082	1.068	0.947	1.155	1.127	1.042	1.062	1.069	6.23
10)		Hexachlorobuta...	0.217	0.213	0.192	0.230	0.225	0.207	0.209	0.213	5.86
11)	SURR	2-Methylnaphth...	0.577	0.566	0.492	0.616	0.603	0.566	0.585	0.572	6.97
12)		2-Methylnaphth...	0.665	0.667	0.586	0.732	0.716	0.678	0.693	0.677	6.98
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.212	0.202	0.185	0.220	0.226	0.223	0.237	0.215	8.02
15)	S	2-Fluorobiphenyl	1.627	1.601	1.487	1.761	1.731	1.609	1.621	1.634	5.52
16)		Acenaphthylene	1.626	1.609	1.535	1.870	1.893	1.837	1.911	1.754	9.00
17)		Acenaphthene	1.185	1.177	1.104	1.325	1.322	1.249	1.277	1.234	6.67
18)		Fluorene	1.558	1.483	1.381	1.667	1.647	1.567	1.584	1.555	6.30
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.051	0.051	0.051	0.064	0.069	0.072	0.079	0.062	18.77
21)		4-Bromophenyl-...	0.241	0.231	0.222	0.255	0.255	0.246	0.250	0.243	5.16
22)		Hexachlorobenzene	0.271	0.260	0.249	0.281	0.280	0.266	0.271	0.268	4.22
23)		Atrazine	0.188	0.184	0.173	0.201	0.203	0.198	0.210	0.194	6.52
24)		Pentachlorophenol	0.114	0.098	0.097	0.118	0.122	0.128	0.137	0.116	12.80
25)		Phenanthrene	1.093	1.067	1.033	1.177	1.168	1.113	1.139	1.113	4.73
26)		Anthracene	0.931	0.912	0.876	1.035	1.046	1.035	1.057	0.985	7.65
27)	SURR	Fluoranthene-d10	0.947	0.919	0.870	1.011	1.015	0.968	1.000	0.961	5.55
28)		Fluoranthene	1.178	1.153	1.106	1.303	1.313	1.266	1.288	1.230	6.71
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.756	1.763	1.704	1.901	1.855	1.751	1.767	1.785	3.82
31)	S	Terphenyl-d14	0.907	0.896	0.862	0.966	0.943	0.890	0.900	0.909	3.80
32)		Benzo(a)anthra...	1.485	1.369	1.317	1.525	1.529	1.426	1.472	1.446	5.53
33)		Chrysene	1.435	1.392	1.331	1.557	1.514	1.403	1.430	1.437	5.30
34)		Bis(2-ethylhex...	1.206	0.914	0.814	0.870	0.869	0.845	0.889	0.915	14.43
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN081924.M

36)		Indeno(1,2,3-c...	1.616	1.580	1.535	1.779	1.759	1.661	1.694	1.661	5.45
37)		Benzo(b)fluora...	1.524	1.432	1.336	1.578	1.573	1.480	1.533	1.494	5.78
38)		Benzo(k)fluora...	1.439	1.393	1.324	1.556	1.576	1.492	1.512	1.470	6.14
39)	C	Benzo(a)pyrene	1.228	1.162	1.096	1.309	1.317	1.251	1.290	1.236	6.63
40)		Dibenzo(a,h)an...	1.283	1.264	1.231	1.426	1.410	1.329	1.352	1.328	5.56
41)		Benzo(g,h,i)pe...	1.399	1.372	1.296	1.518	1.506	1.413	1.436	1.420	5.42

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033479.D
Acq On : 19 Aug 2024 16:16
Operator : MA/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Aug 19 23:22:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.559	152	7803	0.400	ng		0.00
7) Naphthalene-d8	10.314	136	20827	0.400	ng		0.00
13) Acenaphthene-d10	14.189	164	10562	0.400	ng		0.00
19) Phenanthrene-d10	16.942	188	22120	0.400	ng		0.00
29) Chrysene-d12	21.148	240	15512	0.400	ng		0.00
35) Perylene-d12	23.323	264	15840	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.190	112	2489	0.113	ng		0.00
5) Phenol-d6	6.743	99	3034	0.106	ng		0.00
8) Nitrobenzene-d5	8.691	82	1778	0.113	ng		0.00
11) 2-Methylnaphthalene-d10	11.915	152	3002	0.096	ng		0.00
14) 2,4,6-Tribromophenol	15.688	330	561	0.104	ng		0.00
15) 2-Fluorobiphenyl	12.809	172	4295	0.100	ng		0.00
27) Fluoranthene-d10	18.984	212	5237	0.090	ng		0.00
31) Terphenyl-d14	19.597	244	3516	0.118	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.190	88	1020	0.121	ng	#	89
3) n-Nitrosodimethylamine	3.479	42	1063	0.098	ng	#	97
6) bis(2-Chloroethyl)ether	6.996	93	2282	0.102	ng		99
9) Naphthalene	10.368	128	5632	0.100	ng		97
10) Hexachlorobutadiene	10.667	225	1131	0.104	ng	#	100
12) 2-Methylnaphthalene	11.990	142	3460	0.091	ng		97
16) Acenaphthylene	13.900	152	4294	0.088	ng		100
17) Acenaphthene	14.253	154	3128	0.094	ng		99
18) Fluorene	15.247	166	4115	0.094	ng		97
20) 4,6-Dinitro-2-methylph...	15.322	198	282	0.102	ng	#	1
21) 4-Bromophenyl-phenylether	16.147	248	1335	0.101	ng		96
22) Hexachlorobenzene	16.247	284	1497	0.102	ng		100
23) Atrazine	16.420	200	1042	0.099	ng		95
24) Pentachlorophenol	16.594	266	633	0.105	ng		94
25) Phenanthrene	16.979	178	6046	0.096	ng		99
26) Anthracene	17.066	178	5150	0.092	ng		100
28) Fluoranthene	19.012	202	6515	0.085	ng		97
30) Pyrene	19.374	202	6809	0.109	ng		98
32) Benzo(a)anthracene	21.139	228	5757	0.100	ng		98
33) Chrysene	21.184	228	5565	0.097	ng		97
34) Bis(2-ethylhexyl)phtha...	21.103	149	4678	0.170	ng		97
36) Indeno(1,2,3-cd)pyrene	25.478	276	6399	0.097	ng		99
37) Benzo(b)fluoranthene	22.680	252	6036	0.102	ng	#	69
38) Benzo(k)fluoranthene	22.721	252	5699	0.095	ng	#	70
39) Benzo(a)pyrene	23.230	252	4861	0.097	ng	#	66
40) Dibenzo(a,h)anthracene	25.498	278	5079	0.098	ng	#	85
41) Benzo(g,h,i)perylene	26.133	276	5542	0.097	ng	#	88

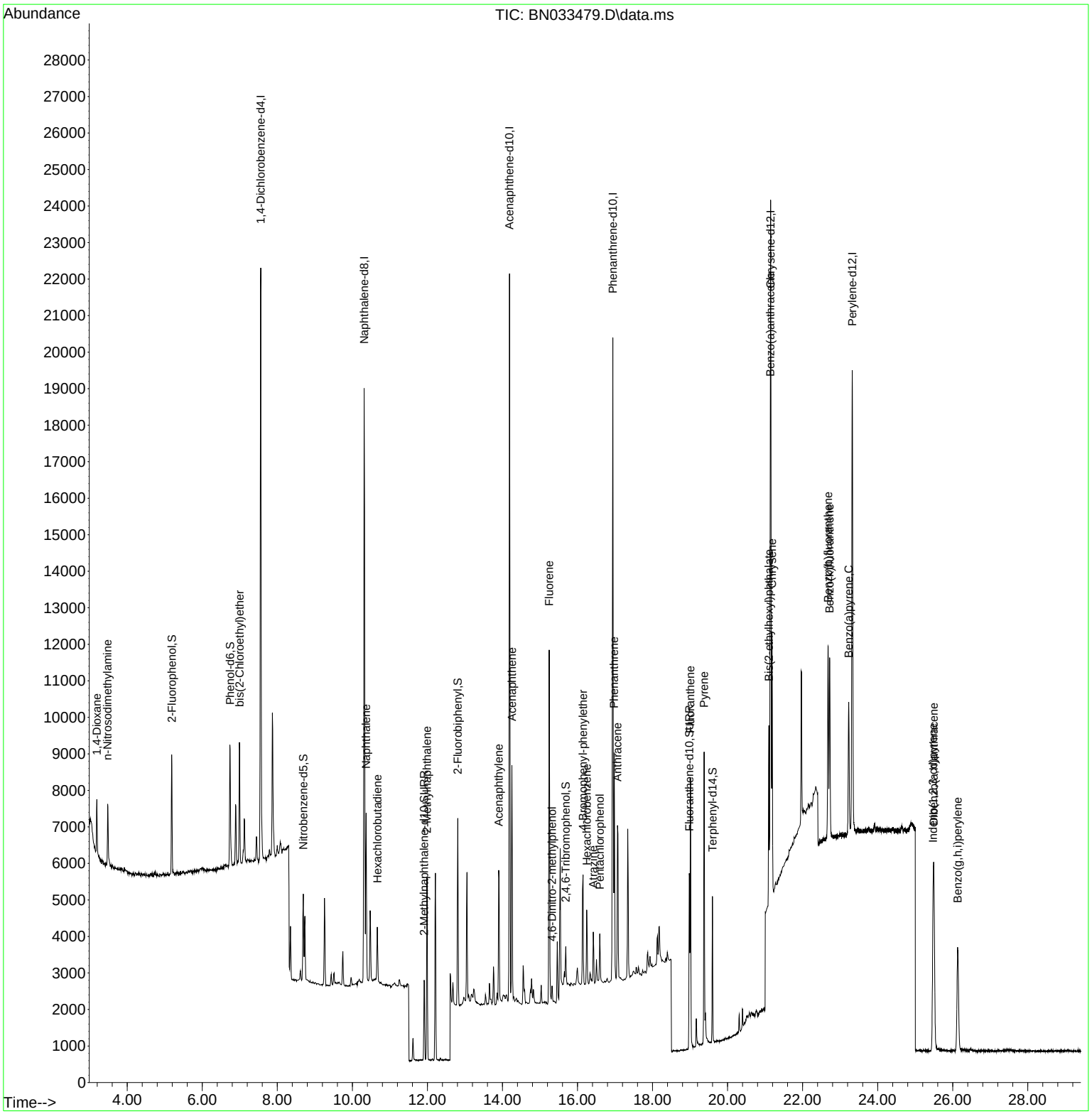
(#) = qualifier out of range (m) = manual integration (+) = signals summed

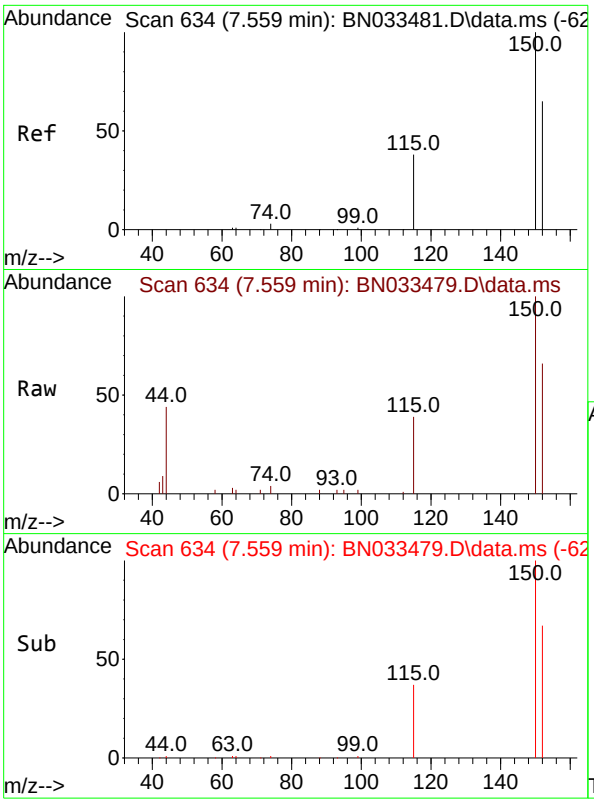
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033479.D
Acq On : 19 Aug 2024 16:16
Operator : MA/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Aug 19 23:22:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration



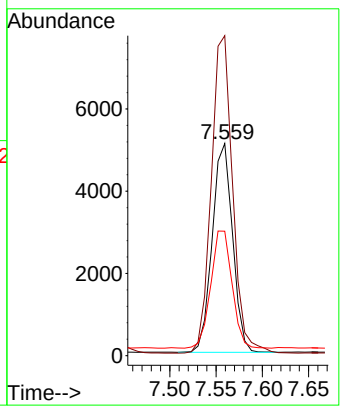


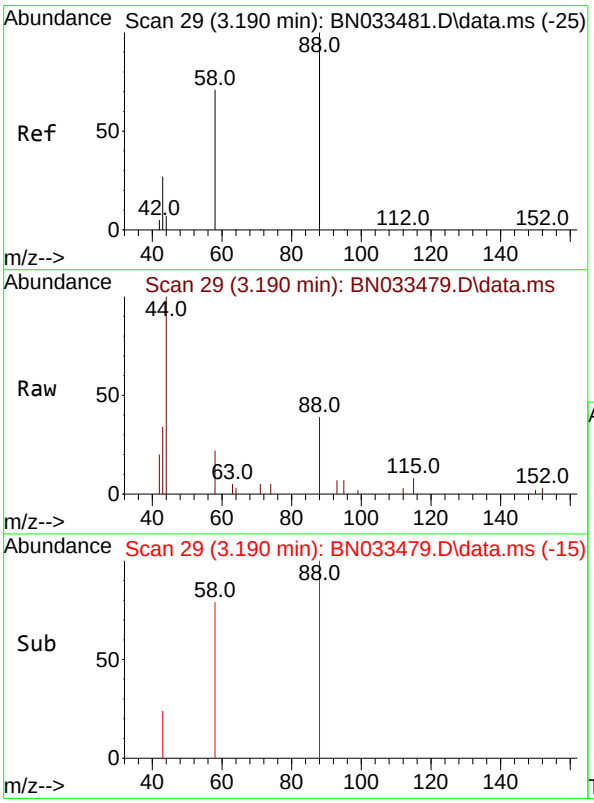
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 7803

Ion	Ratio	Lower	Upper
152	100		
150	150.8	122.2	183.2
115	58.6	47.2	70.8

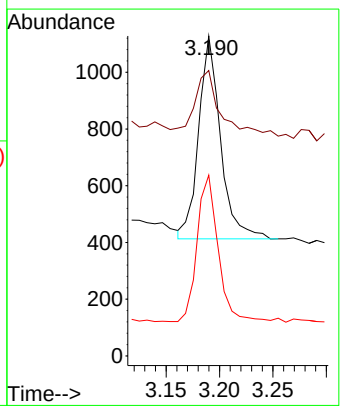


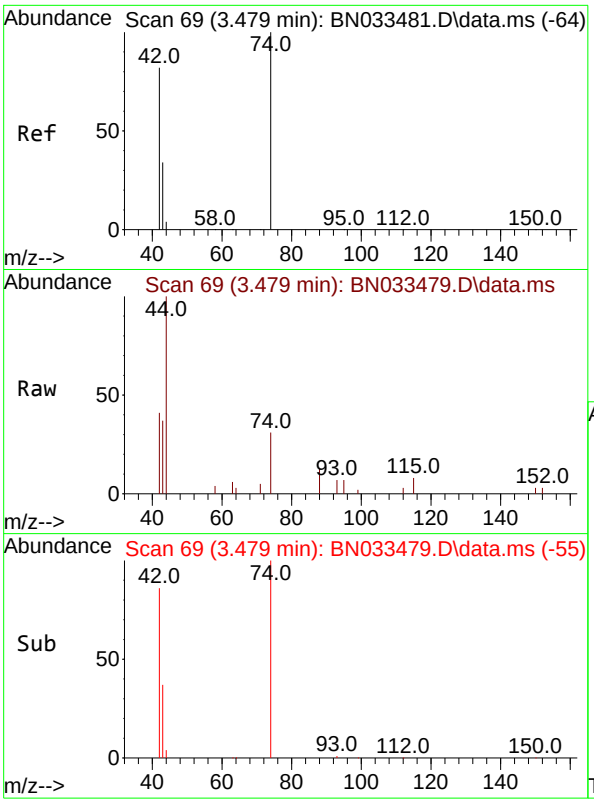


#2
1,4-Dioxane
Concen: 0.121 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion: 88 Resp: 1020

Ion	Ratio	Lower	Upper
88	100		
43	38.9	25.0	37.4#
58	69.0	62.5	93.7



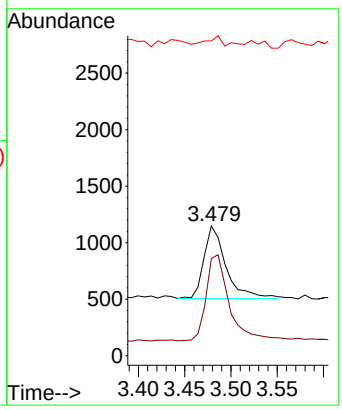


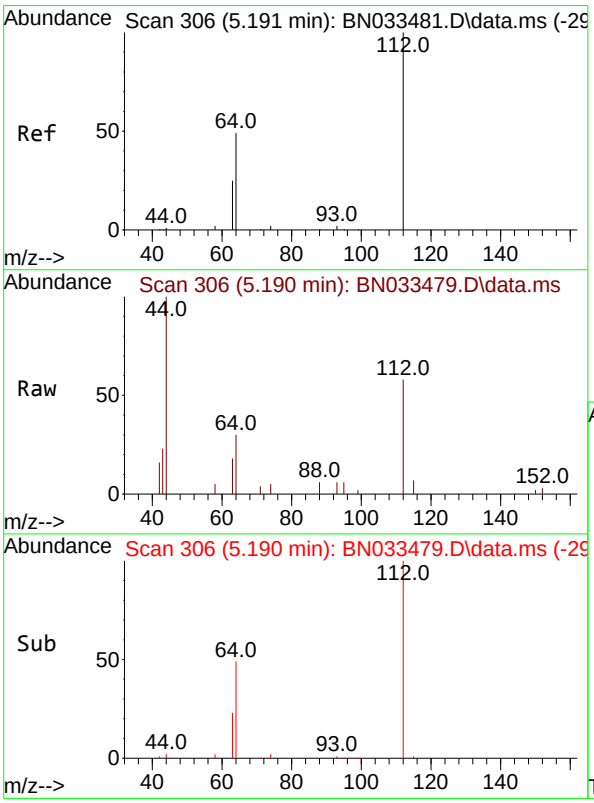
#3
n-Nitrosodimethylamine
Concen: 0.098 ng
RT: 3.479 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 1063

Ion	Ratio	Lower	Upper
42	100		
74	123.1	100.2	150.2
44	14.2	5.3	7.9#

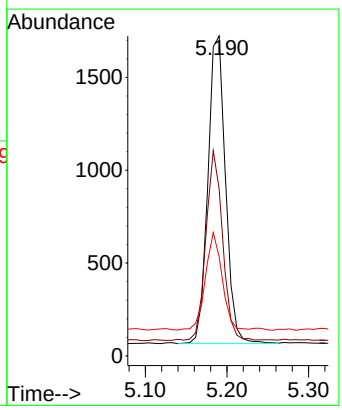


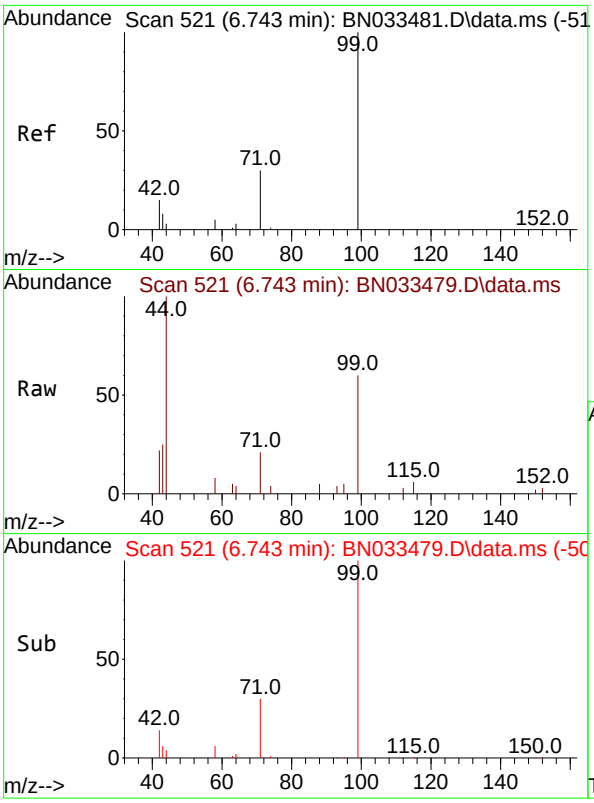


#4
2-Fluorophenol
Concen: 0.113 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:112 Resp: 2489

Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.1	70.7
63	29.9	24.9	37.3



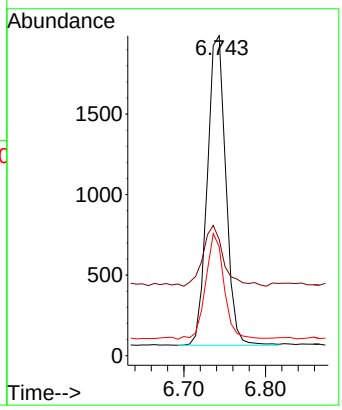


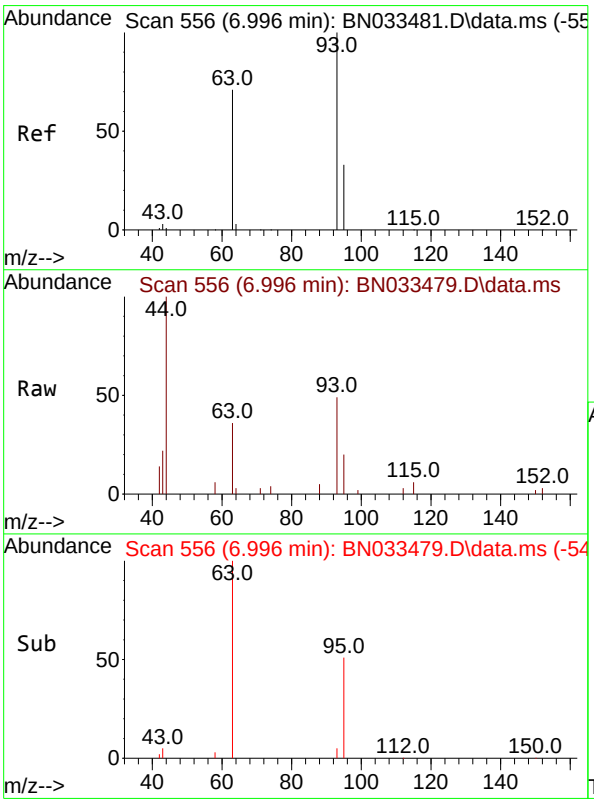
#5
Phenol-d6
Concen: 0.106 ng
RT: 6.743 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 3034

Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.6	24.8
71	34.0	26.2	39.4

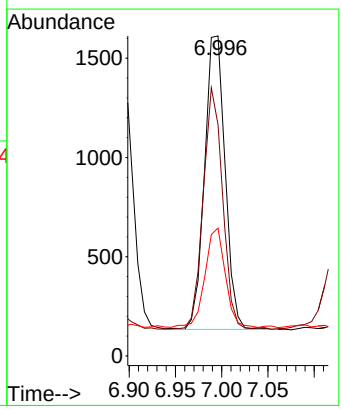


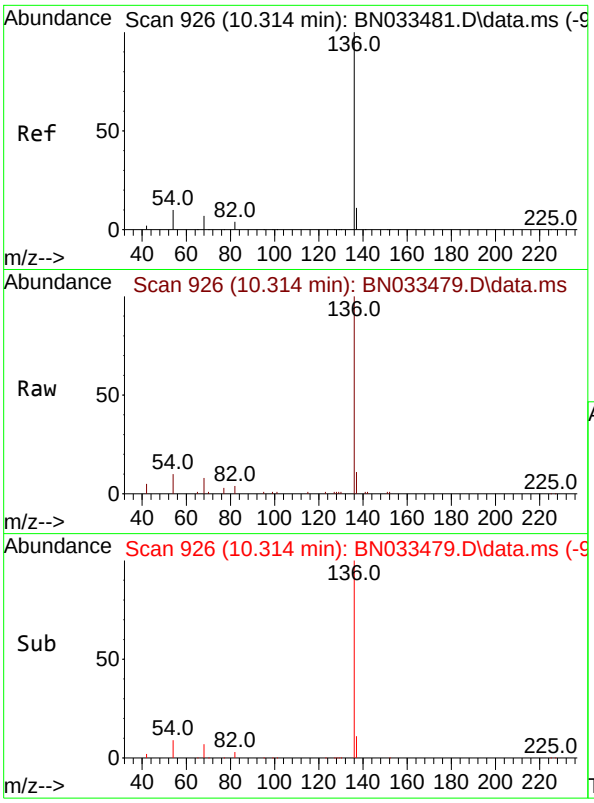


#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 6.996 min Scan# 556
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion: 93 Resp: 2282

Ion	Ratio	Lower	Upper
93	100		
63	78.0	63.0	94.4
95	33.4	26.0	39.0



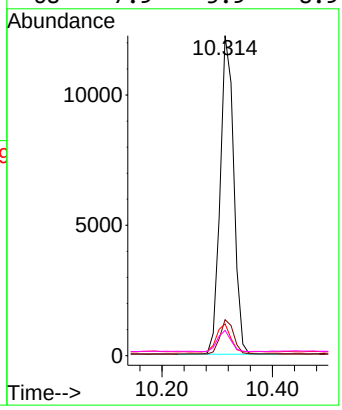


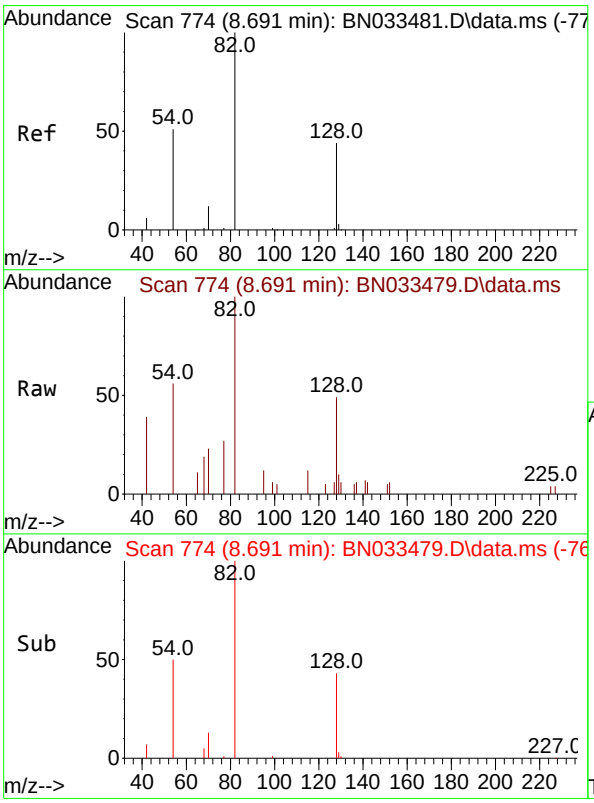
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 20827

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	10.0	8.3	12.5
68	7.9	5.9	8.9

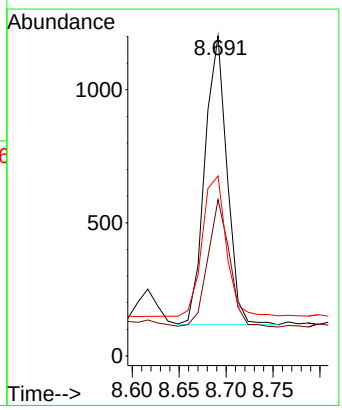


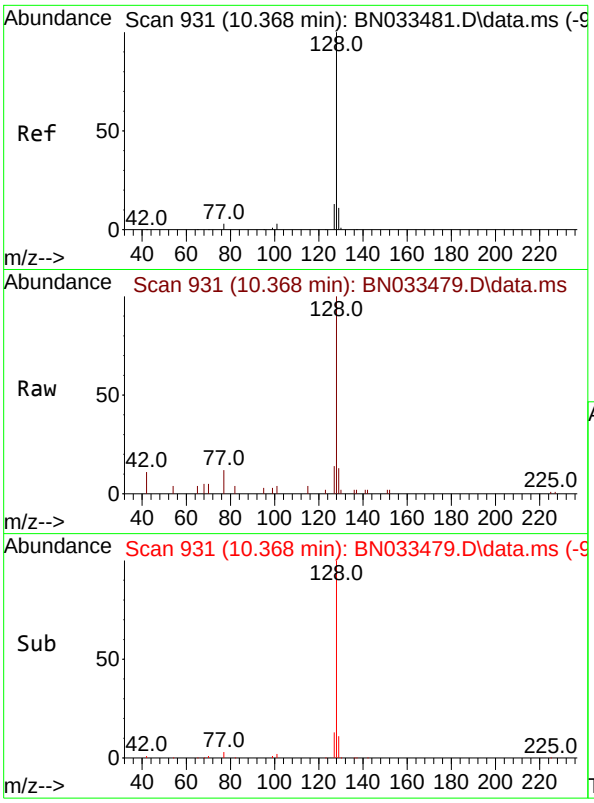


#8
Nitrobenzene-d5
Concen: 0.113 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion: 82 Resp: 1778

Ion	Ratio	Lower	Upper
82	100		
128	48.8	36.0	54.0
54	56.2	42.0	63.0



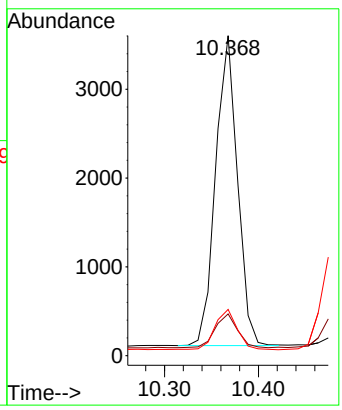


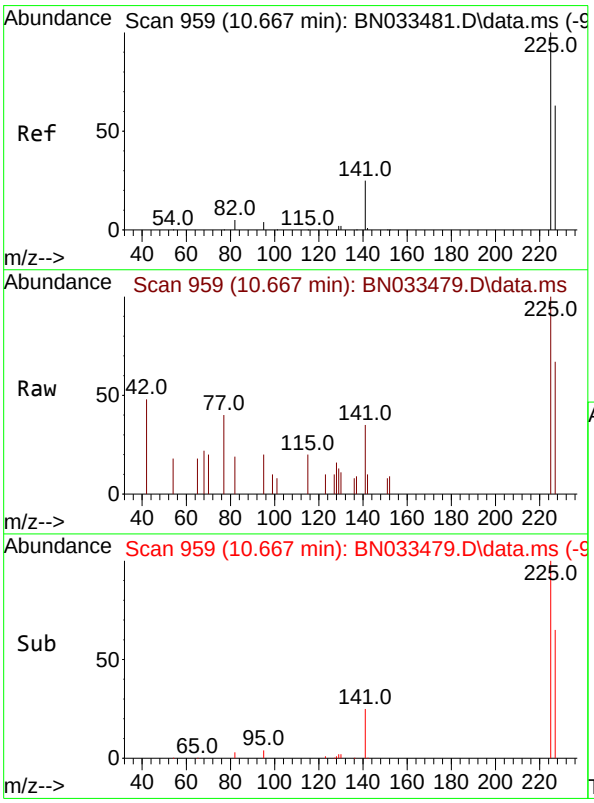
#9
Naphthalene
Concen: 0.100 ng
RT: 10.368 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 5632

Ion	Ratio	Lower	Upper
128	100		
129	13.1	9.1	13.7
127	14.5	10.7	16.1

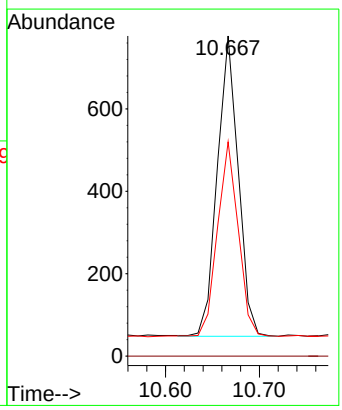


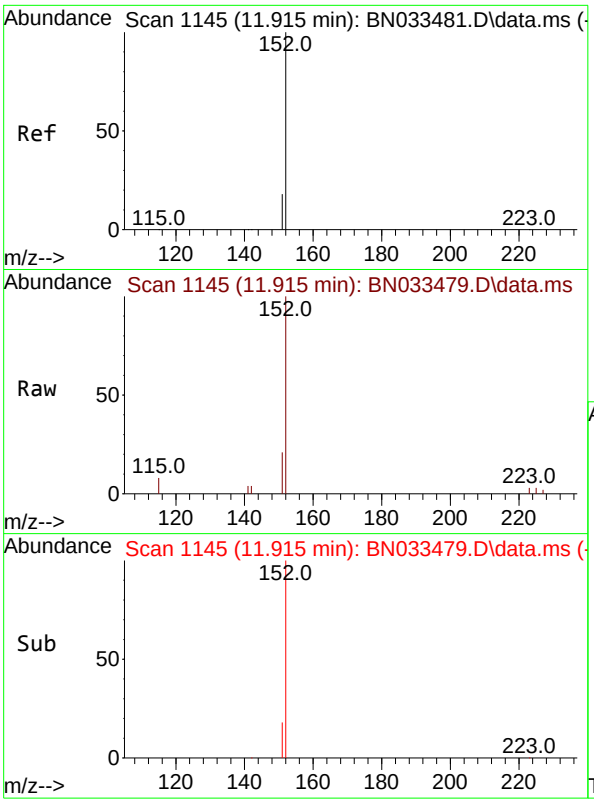


#10
Hexachlorobutadiene
Concen: 0.104 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:225 Resp: 1131

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.2	76.8



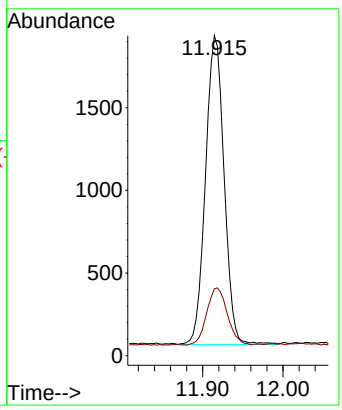


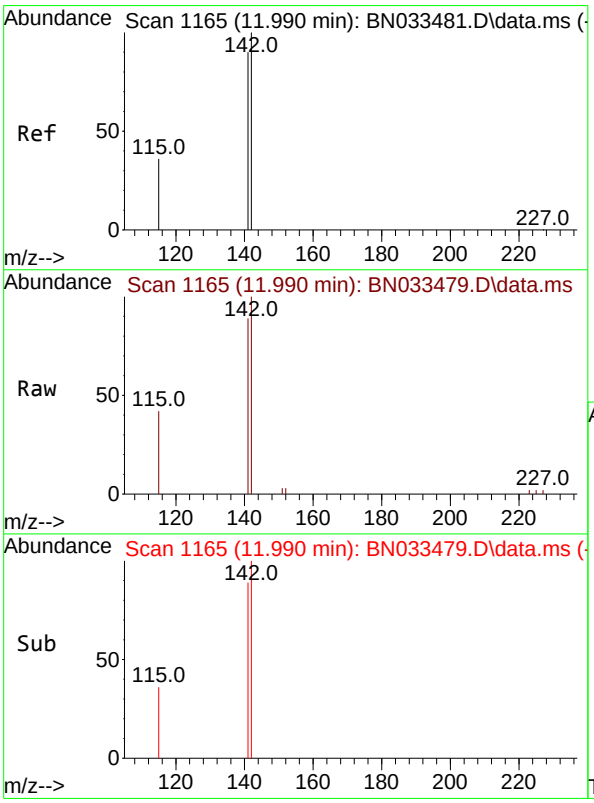
#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 11.915 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 3002

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

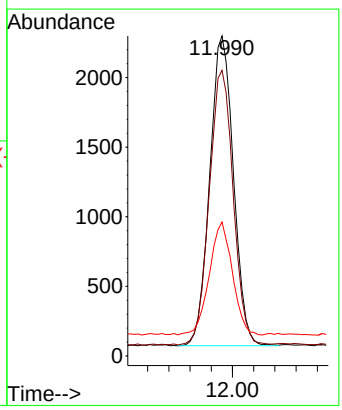


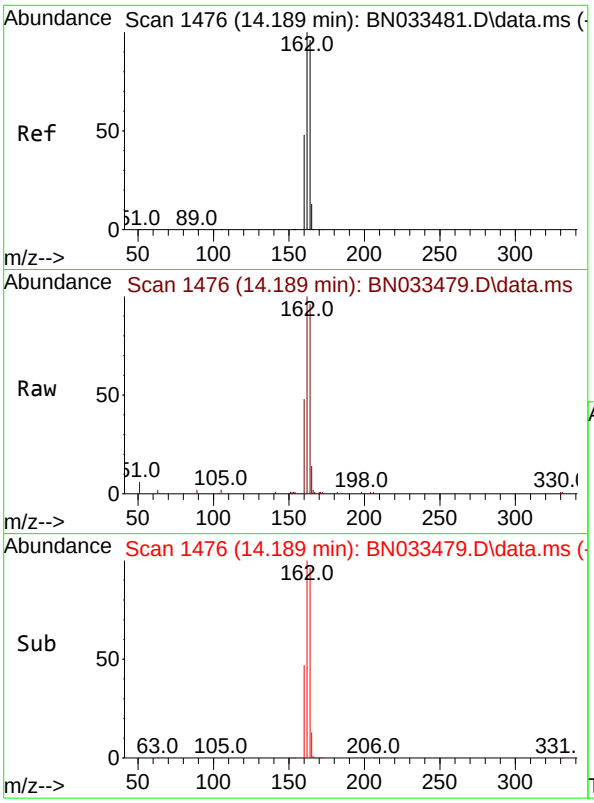


#12
2-Methylnaphthalene
Concen: 0.091 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:142 Resp: 3460

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.7	107.5
115	41.8	29.4	44.2



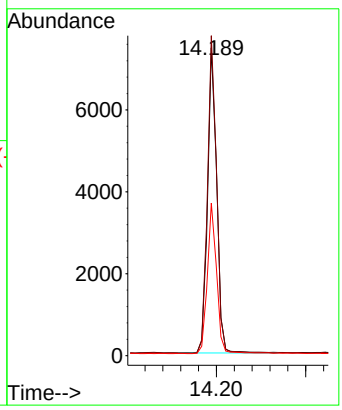


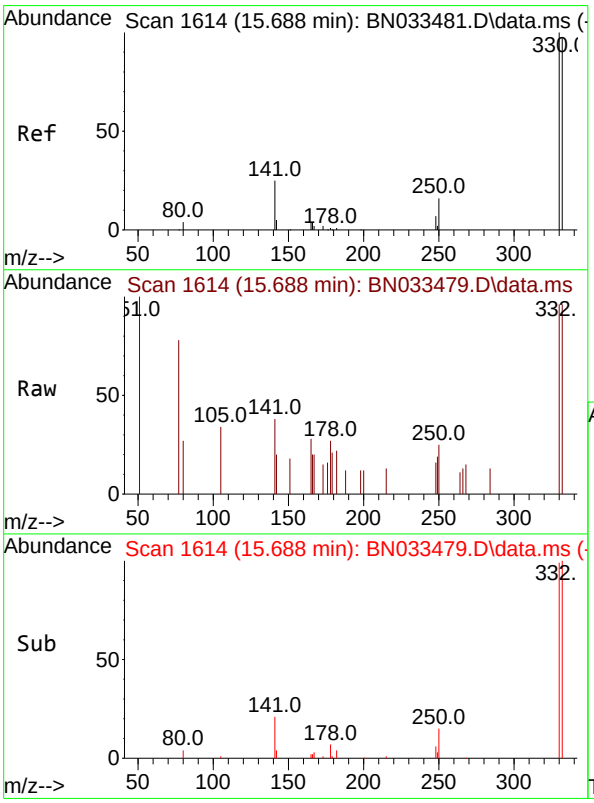
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 10562

Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.5	125.3
160	49.6	40.2	60.4

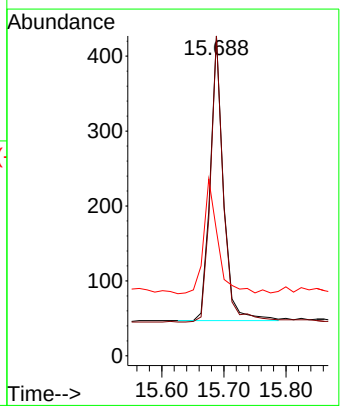


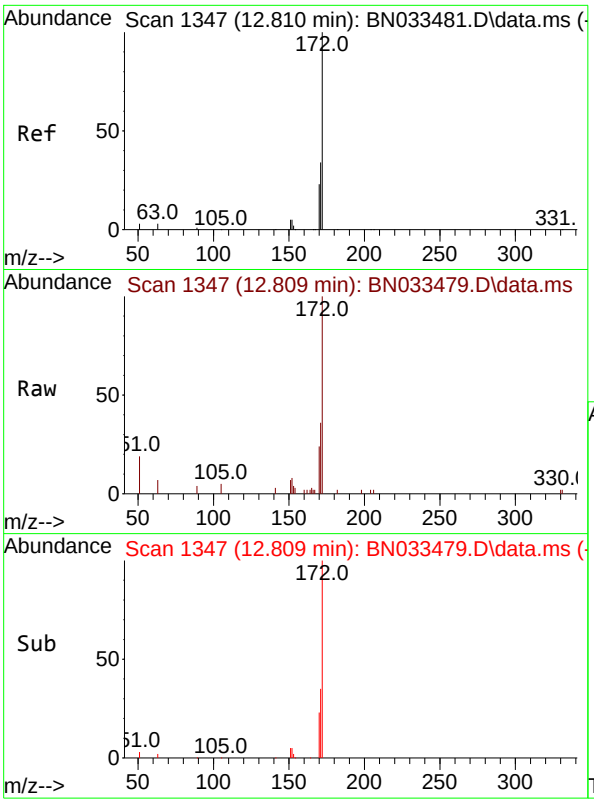


#14
2,4,6-Tribromophenol
Concen: 0.104 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:330 Resp: 561

Ion	Ratio	Lower	Upper
330	100		
332	99.1	77.5	116.3
141	43.9	33.9	50.9



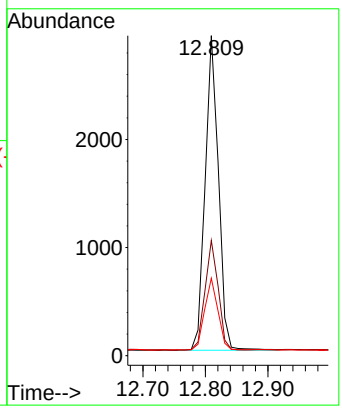


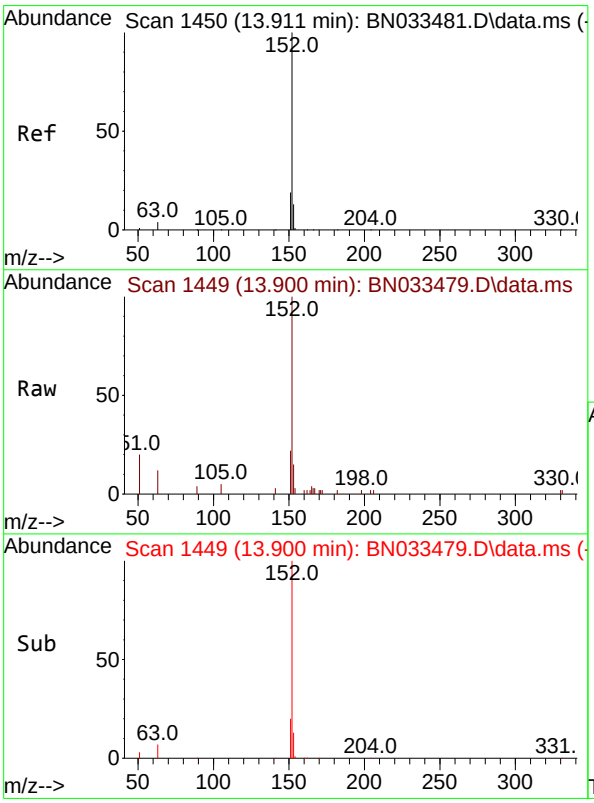
#15
2-Fluorobiphenyl
Concen: 0.100 ng
RT: 12.809 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 4295

Ion	Ratio	Lower	Upper
172	100		
171	36.0	27.7	41.5
170	24.2	18.3	27.5

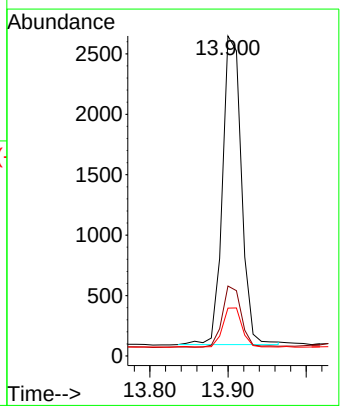


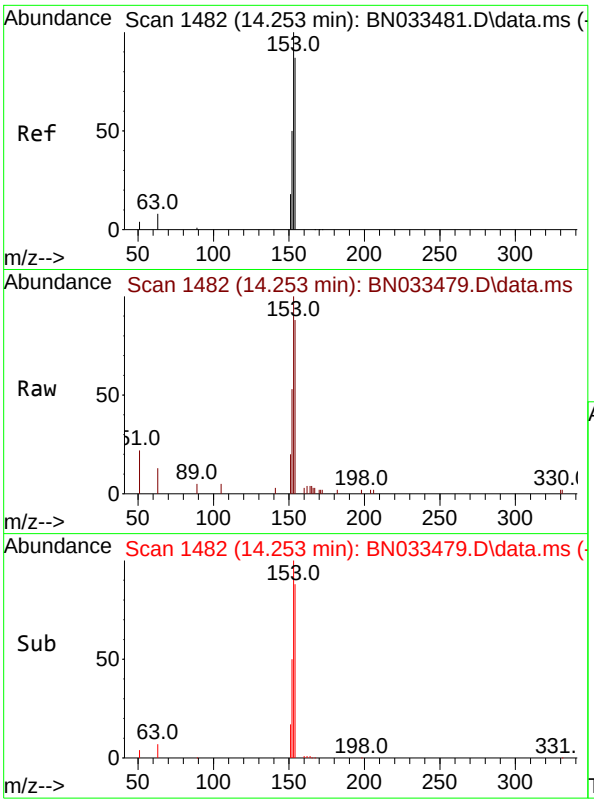


#16
Acenaphthylene
Concen: 0.088 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:152 Resp: 4294

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.7	23.5
153	12.8	10.3	15.5



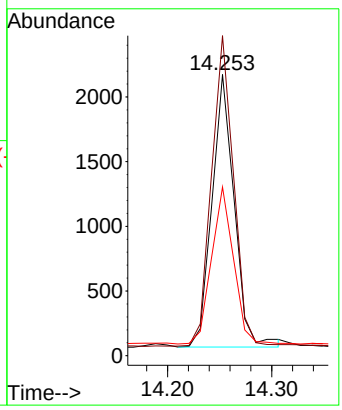


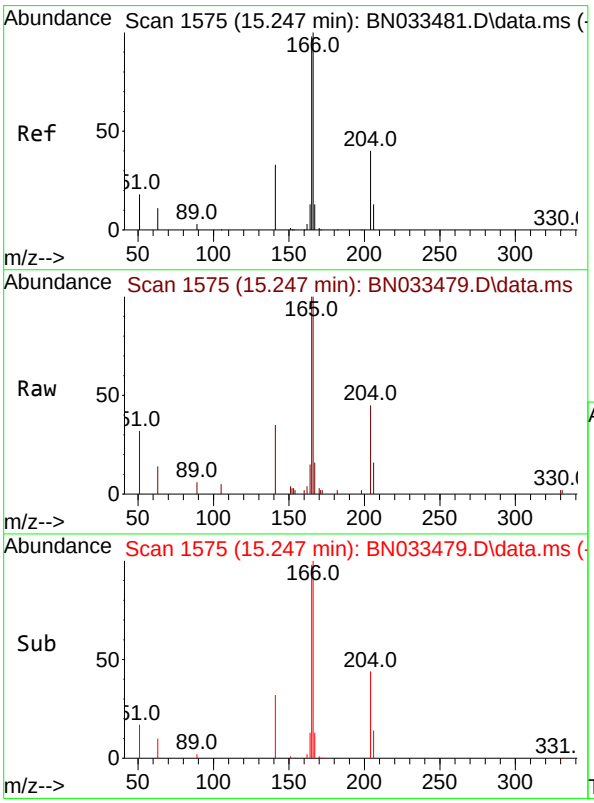
#17
Acenaphthene
Concen: 0.094 ng
RT: 14.253 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 3128

Ion	Ratio	Lower	Upper
154	100		
153	113.0	89.0	133.6
152	56.8	45.2	67.8

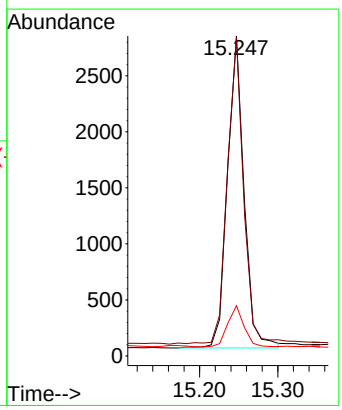


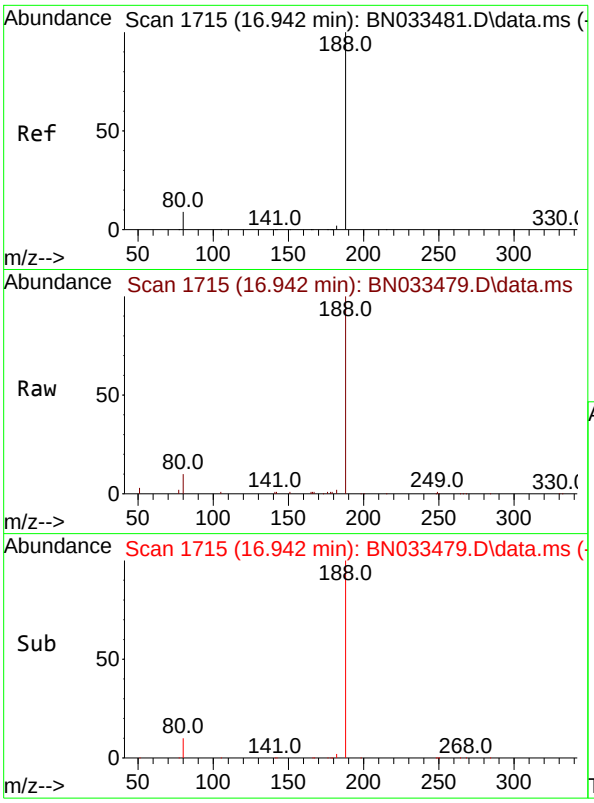


#18
Fluorene
Concen: 0.094 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:166 Resp: 4115

Ion	Ratio	Lower	Upper
166	100		
165	94.1	78.2	117.4
167	12.9	10.6	16.0



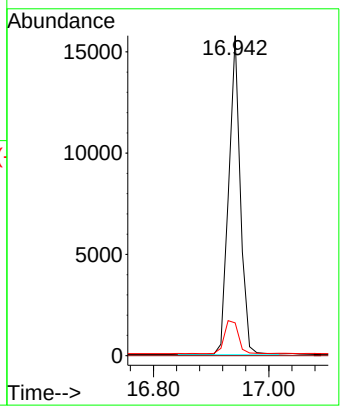


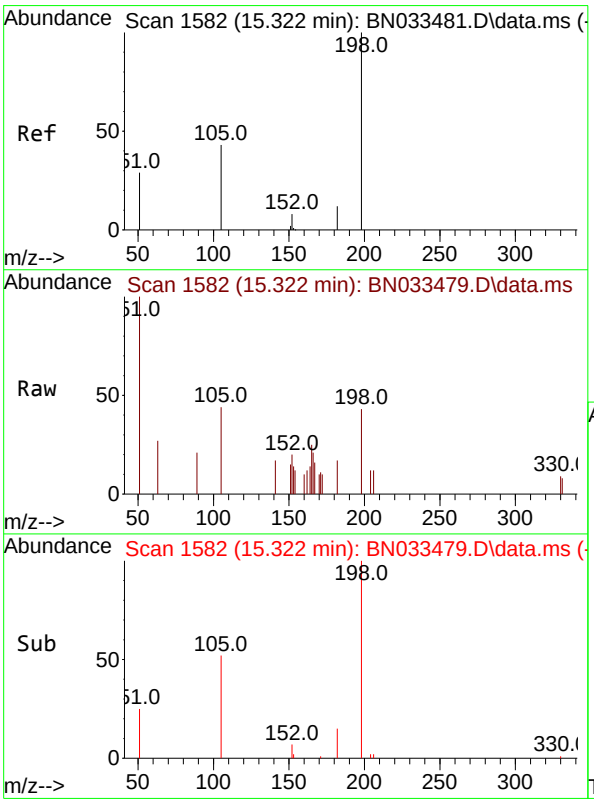
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 22120

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	7.8	11.8

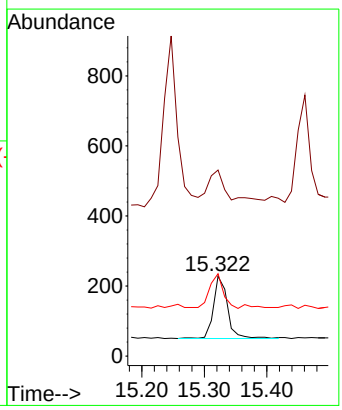


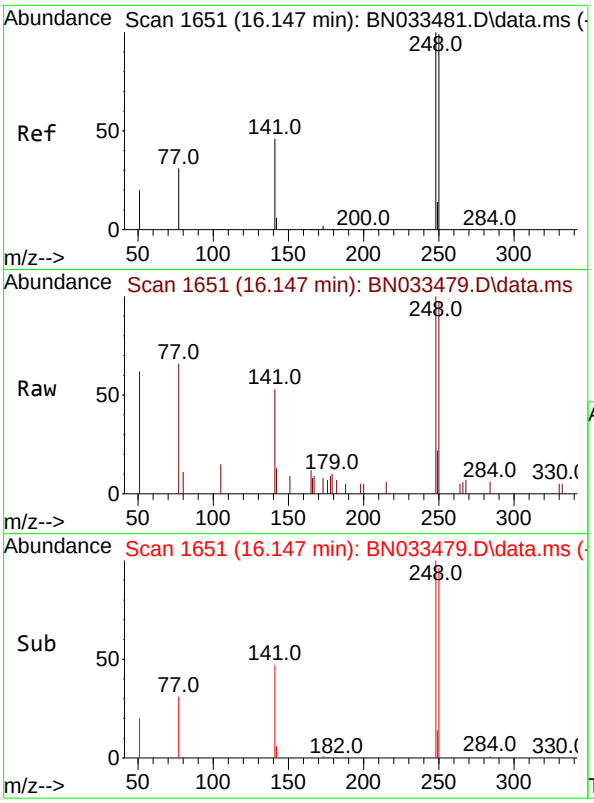


#20
4,6-Dinitro-2-methylphenol
Concen: 0.102 ng
RT: 15.322 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:198 Resp: 282

Ion	Ratio	Lower	Upper
198	100		
51	232.9	65.1	97.7#
105	103.1	44.8	67.2#



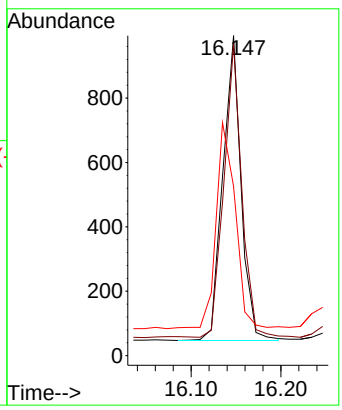


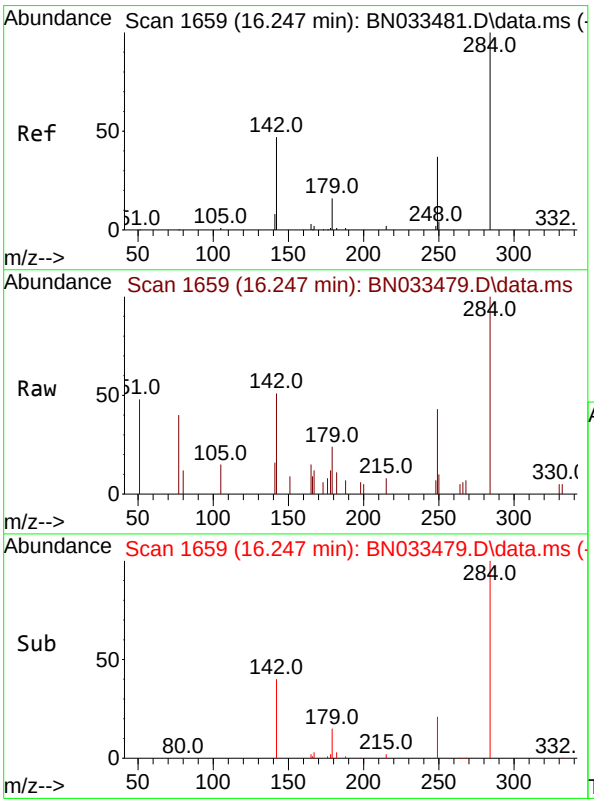
#21
4-Bromophenyl-phenylether
Concen: 0.101 ng
RT: 16.147 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 1335

Ion	Ratio	Lower	Upper
248	100		
250	97.4	79.2	118.8
141	52.9	37.9	56.9

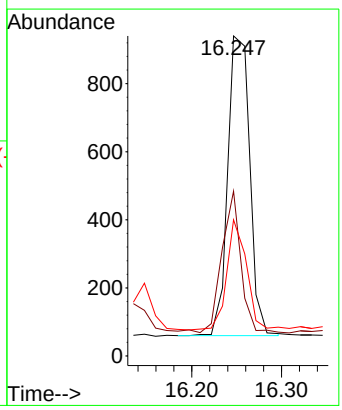


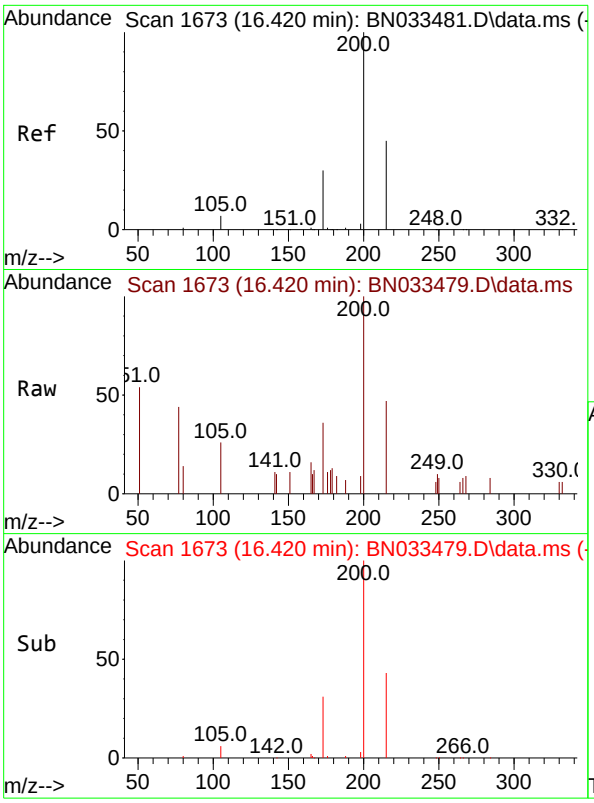


#22
Hexachlorobenzene
Concen: 0.102 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:284 Resp: 1497

Ion	Ratio	Lower	Upper
284	100		
142	40.0	31.8	47.6
249	32.6	26.0	39.0



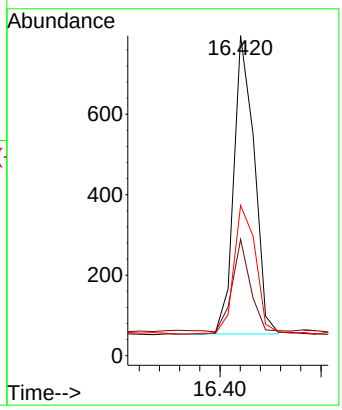


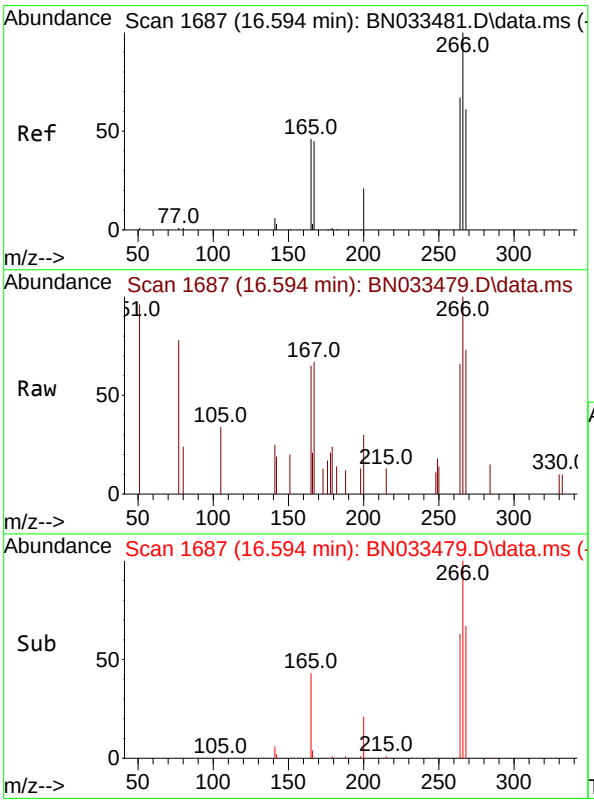
#23
Atrazine
Concen: 0.099 ng
RT: 16.420 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 1042

Ion	Ratio	Lower	Upper
200	100		
173	36.4	25.3	37.9
215	46.9	36.6	54.8

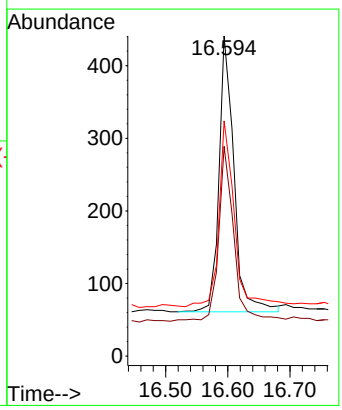


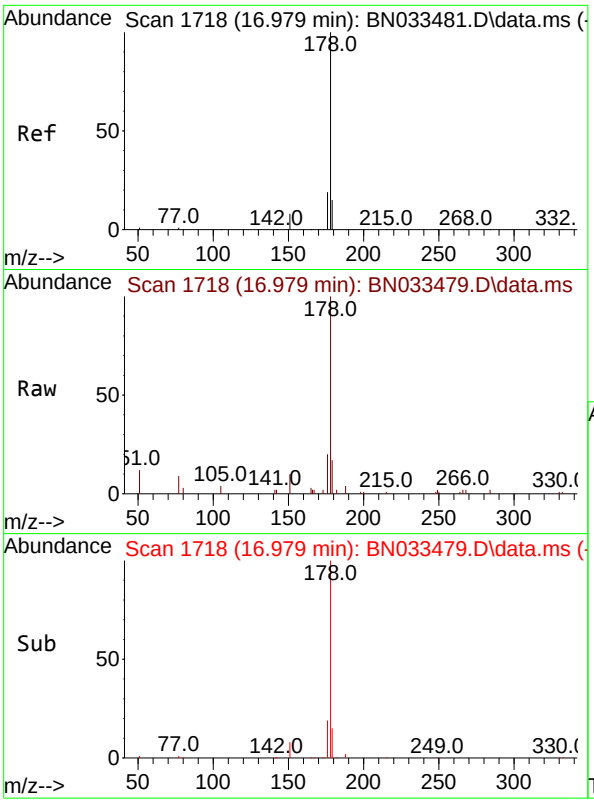


#24
Pentachlorophenol
Concen: 0.105 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:266 Resp: 633

Ion	Ratio	Lower	Upper
266	100		
264	61.3	51.9	77.9
268	69.5	51.0	76.4



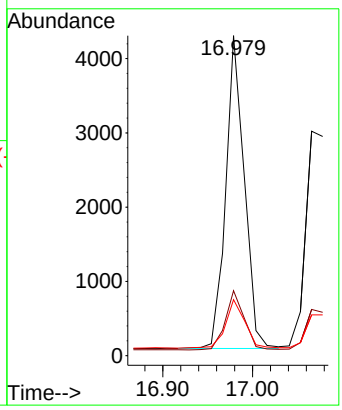


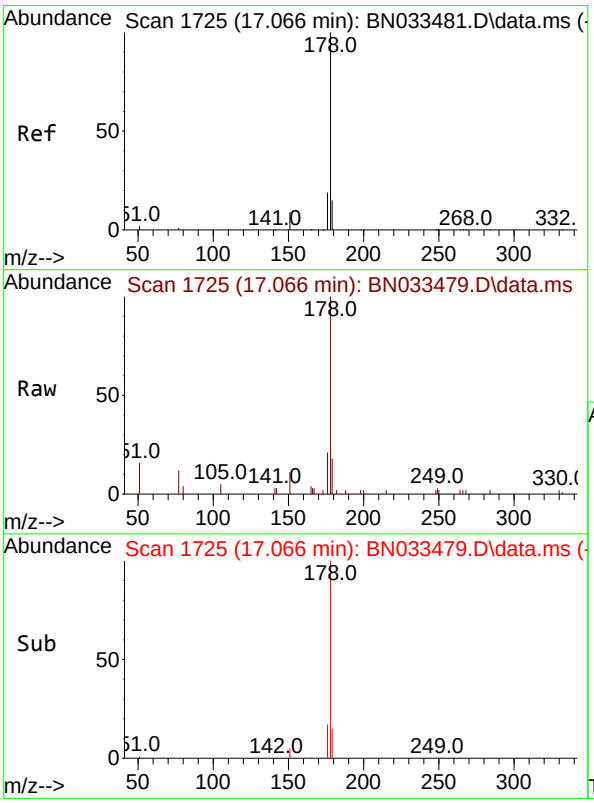
#25
Phenanthrene
Concen: 0.096 ng
RT: 16.979 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 6046

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	16.1	12.3	18.5

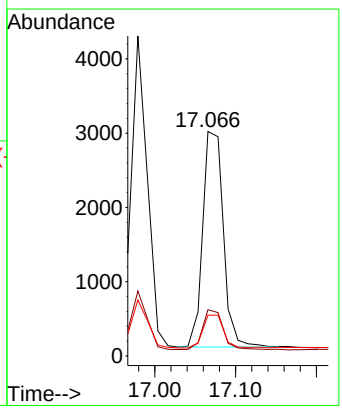


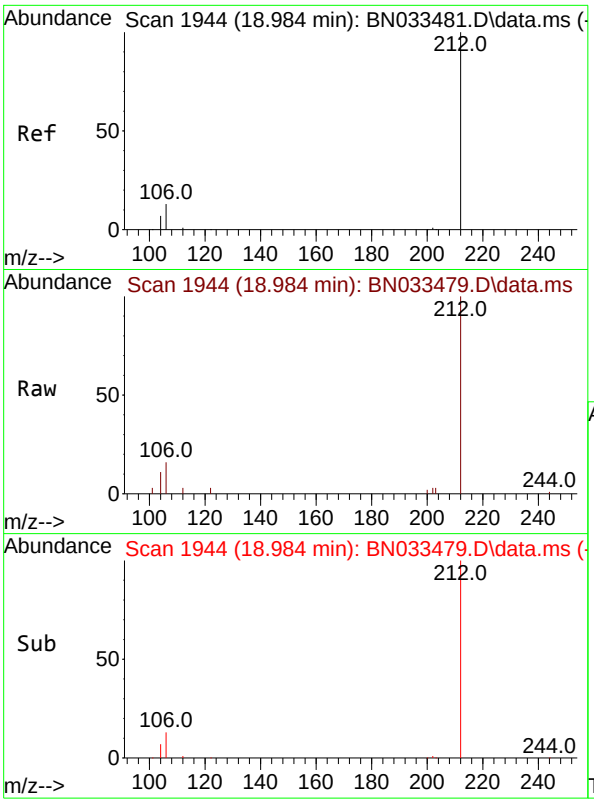


#26
Anthracene
Concen: 0.092 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:178 Resp: 5150

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.4	12.4	18.6



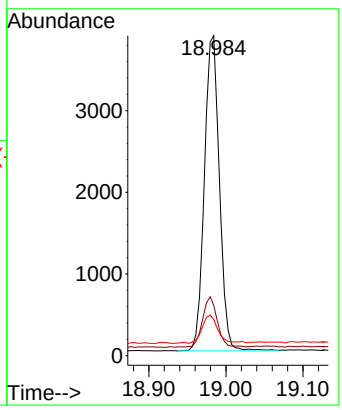


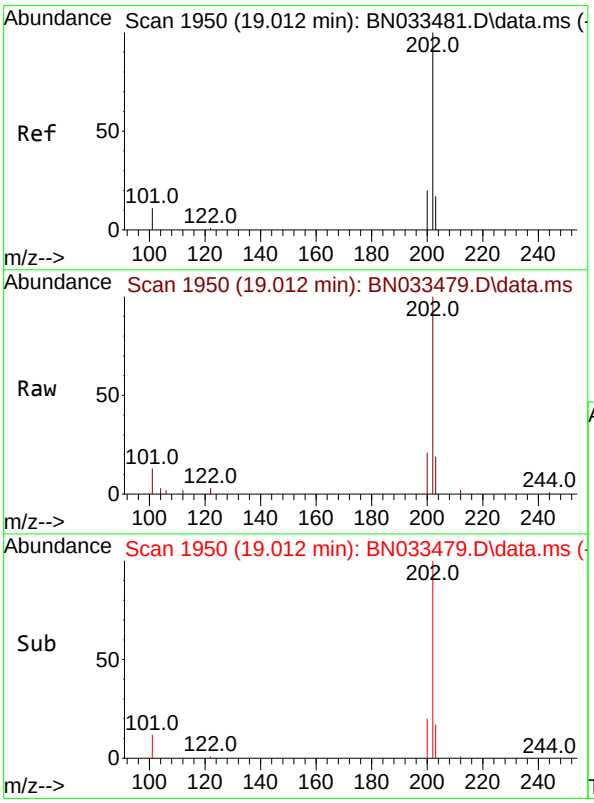
#27
Fluoranthene-d10
Concen: 0.090 ng
RT: 18.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 5237

Ion	Ratio	Lower	Upper
212	100		
106	15.6	12.3	18.5
104	9.8	7.0	10.4

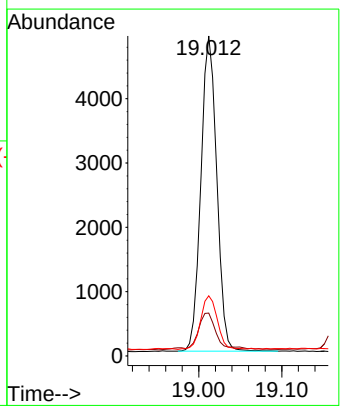


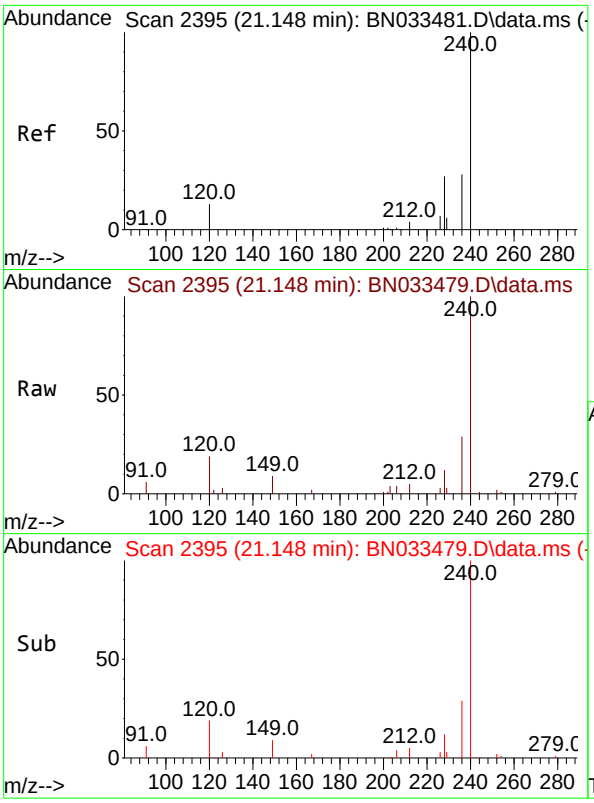


#28
Fluoranthene
Concen: 0.085 ng
RT: 19.012 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:202 Resp: 6515

Ion	Ratio	Lower	Upper
202	100		
101	14.2	9.5	14.3
203	17.8	13.8	20.6



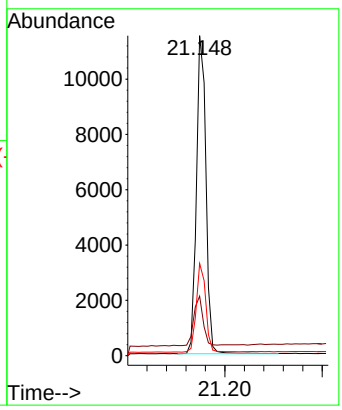


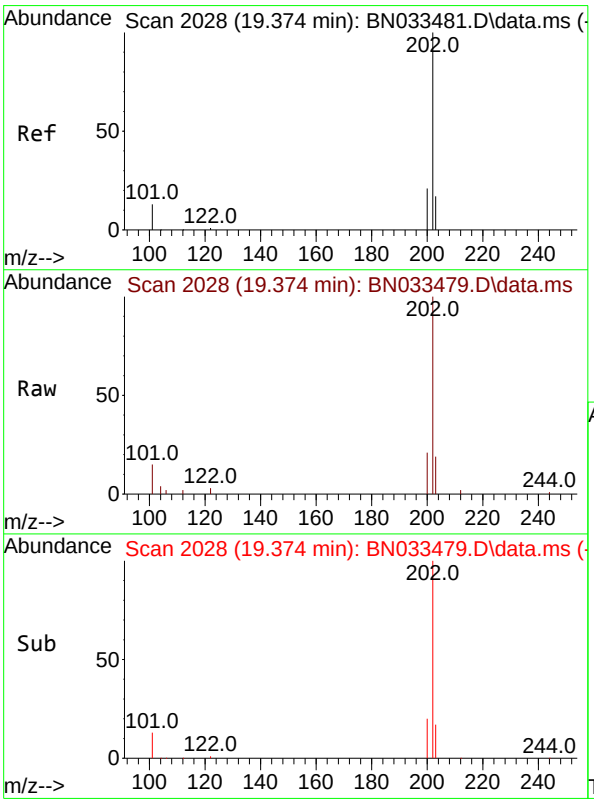
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 15512

Ion	Ratio	Lower	Upper
240	100		
120	18.6	12.4	18.6
236	28.8	23.0	34.6

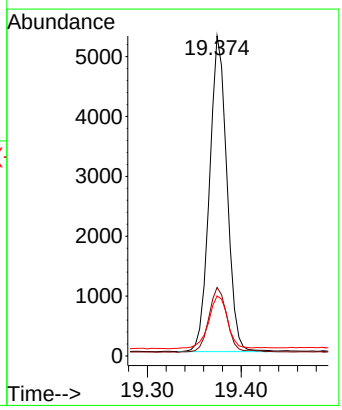


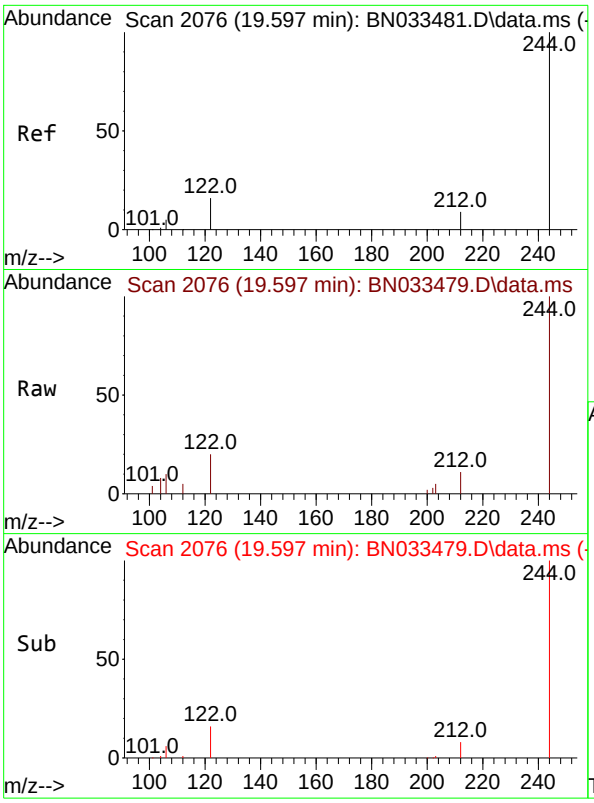


#30
Pyrene
Concen: 0.109 ng
RT: 19.374 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:202 Resp: 6809

Ion	Ratio	Lower	Upper
202	100		
200	21.6	16.6	24.8
203	18.4	14.2	21.4



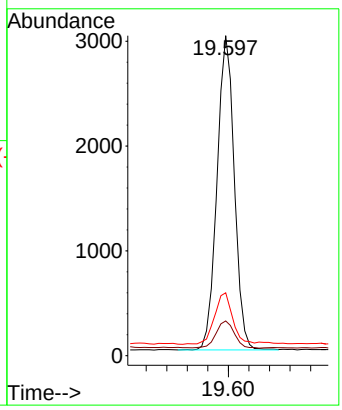


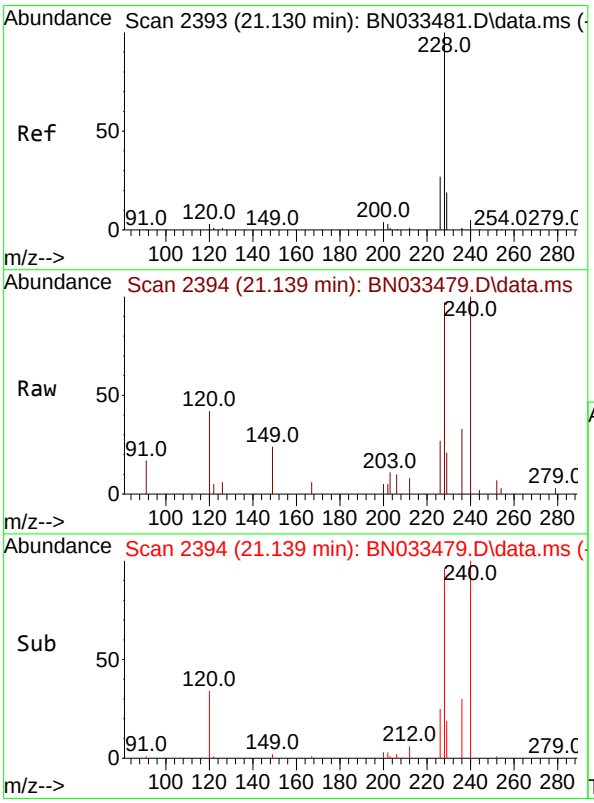
#31
Terphenyl-d14
Concen: 0.118 ng
RT: 19.597 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 3516

Ion	Ratio	Lower	Upper
244	100		
212	10.8	7.8	11.6
122	19.7	13.3	19.9

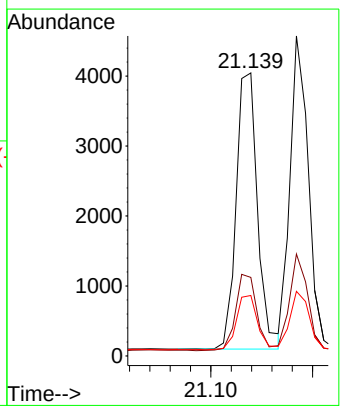


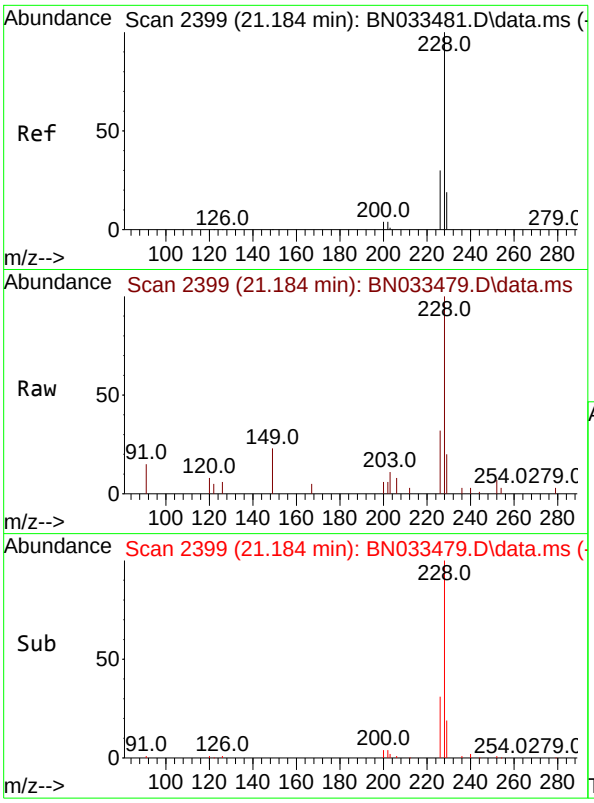


#32
Benzo(a)anthracene
Concen: 0.100 ng
RT: 21.139 min Scan# 2394
Delta R.T. 0.009 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:228 Resp: 5757

Ion	Ratio	Lower	Upper
228	100		
226	27.8	21.8	32.6
229	21.4	15.8	23.6



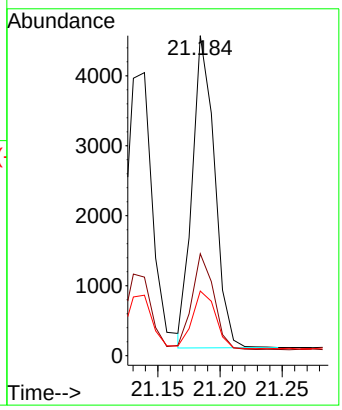


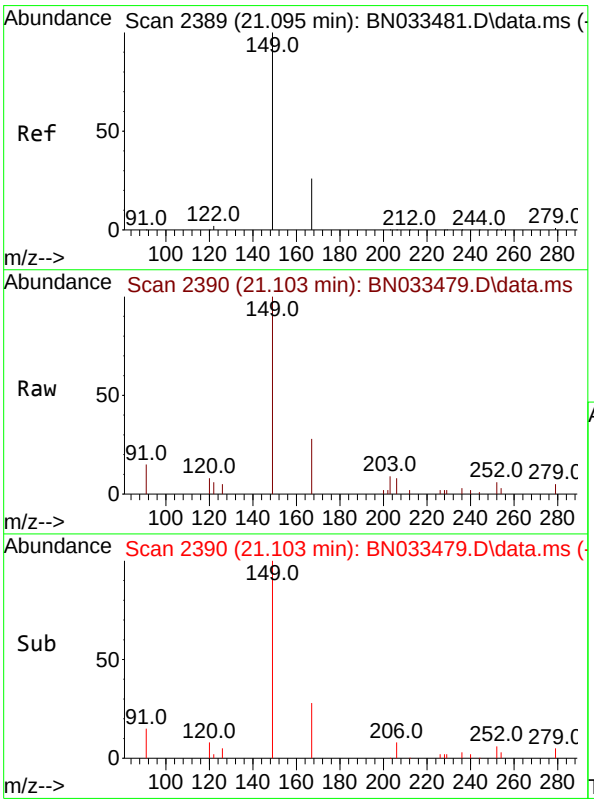
#33
Chrysene
Concen: 0.097 ng
RT: 21.184 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 5565

Ion	Ratio	Lower	Upper
228	100		
226	31.9	23.8	35.8
229	20.2	15.6	23.4

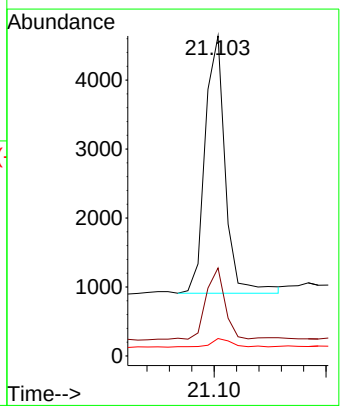


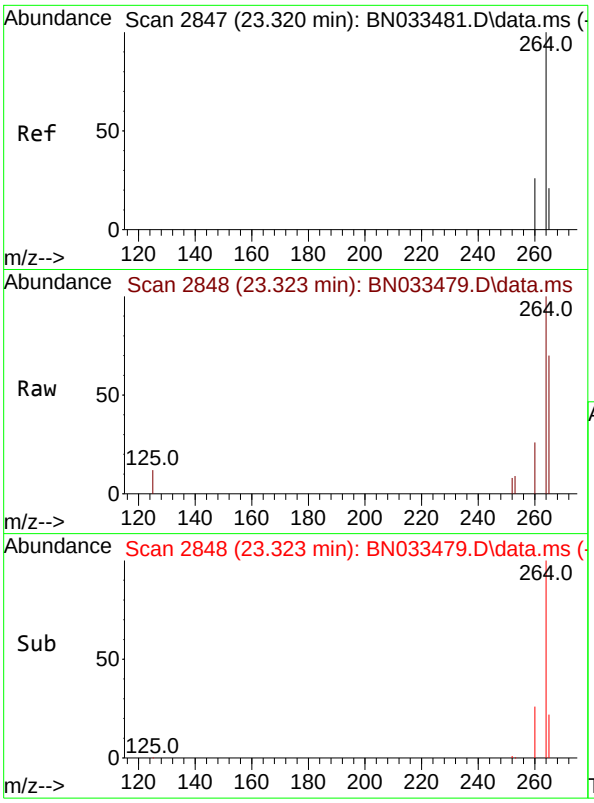


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.170 ng
RT: 21.103 min Scan# 2390
Delta R.T. 0.009 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:149 Resp: 4678

Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.5	32.3
279	3.1	2.2	3.2



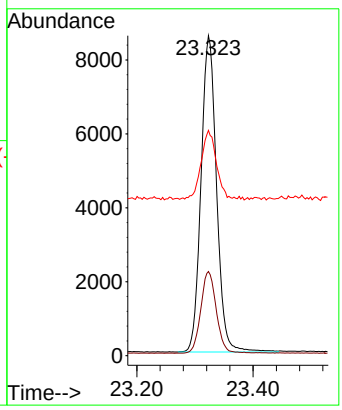


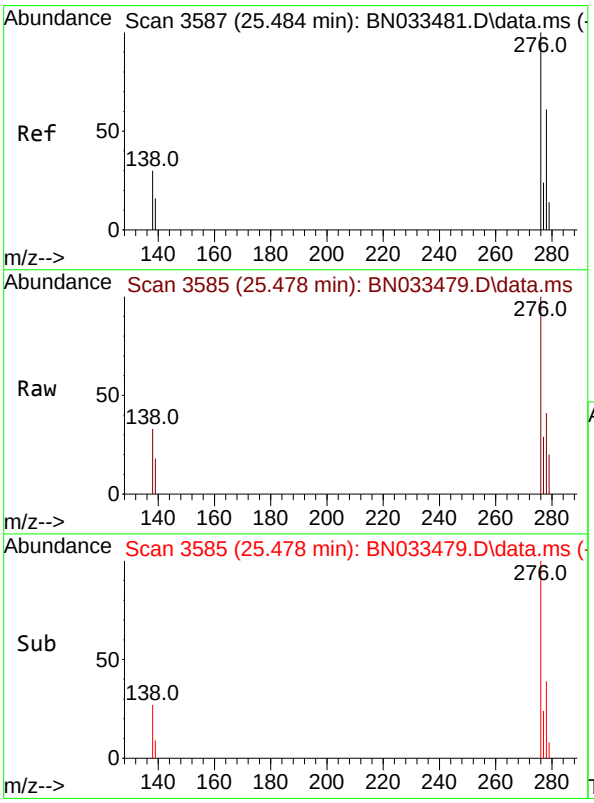
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.323 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 15840

Ion	Ratio	Lower	Upper
264	100		
260	26.3	20.8	31.2
265	70.4	52.2	78.2

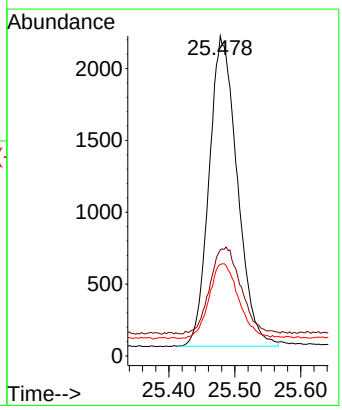


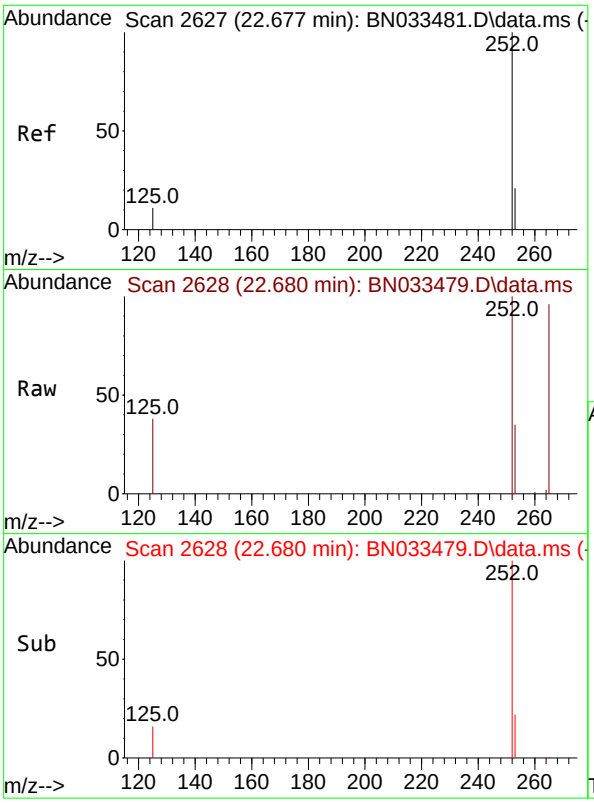


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.097 ng
RT: 25.478 min Scan# 3585
Delta R.T. -0.006 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:276 Resp: 6399

Ion	Ratio	Lower	Upper
276	100		
138	30.6	24.4	36.6
277	25.2	19.8	29.6



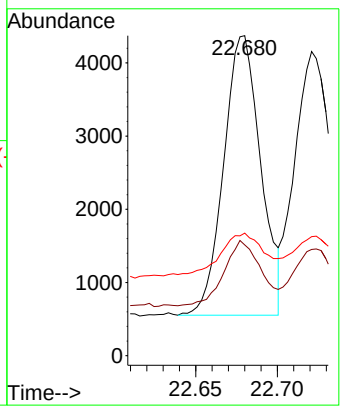


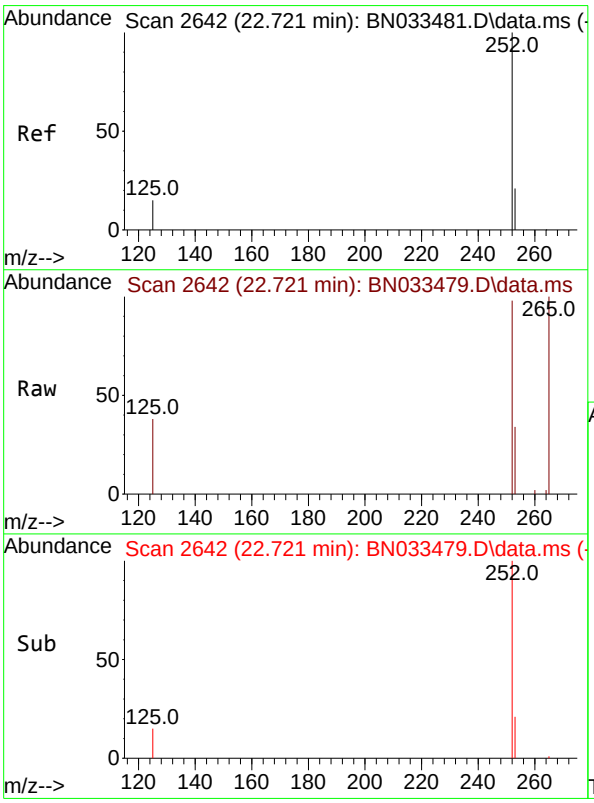
#37
Benzo(b)fluoranthene
Concen: 0.102 ng
RT: 22.680 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 6036

Ion	Ratio	Lower	Upper
252	100		
253	34.6	19.8	29.8#
125	38.3	13.9	20.9#

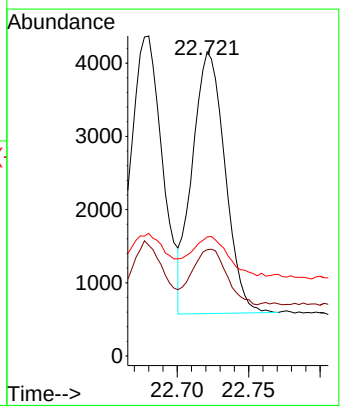


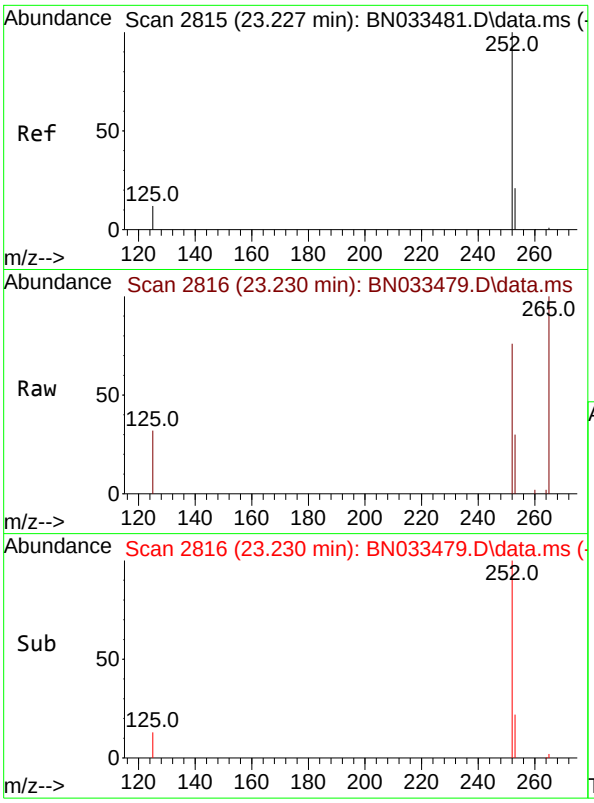


#38
Benzo(k)fluoranthene
Concen: 0.095 ng
RT: 22.721 min Scan# 2642
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:252 Resp: 5699

Ion	Ratio	Lower	Upper
252	100		
253	34.9	19.8	29.8#
125	39.1	15.8	23.8#



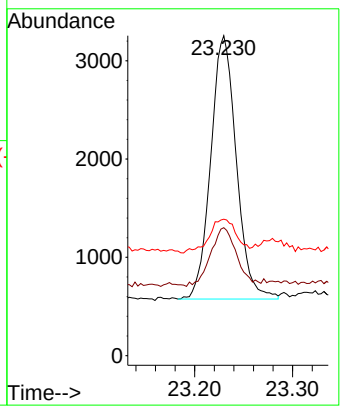


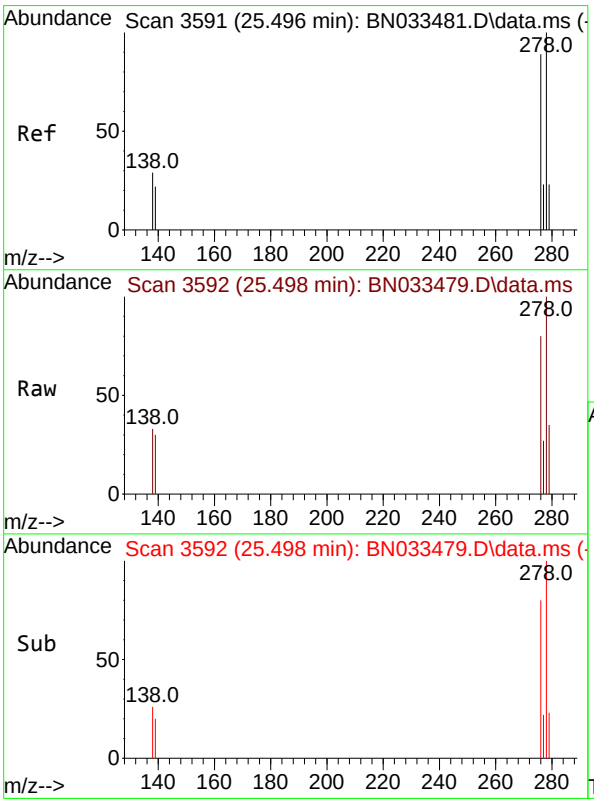
#39
Benzo(a)pyrene
Concen: 0.097 ng
RT: 23.230 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 4861

Ion	Ratio	Lower	Upper
252	100		
253	40.0	21.5	32.3#
125	42.6	17.0	25.4#

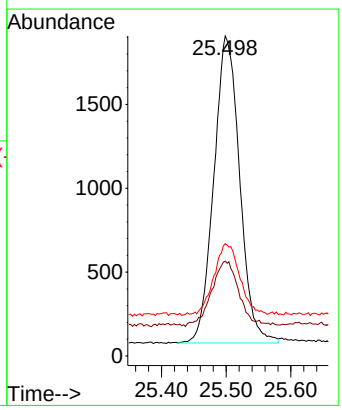


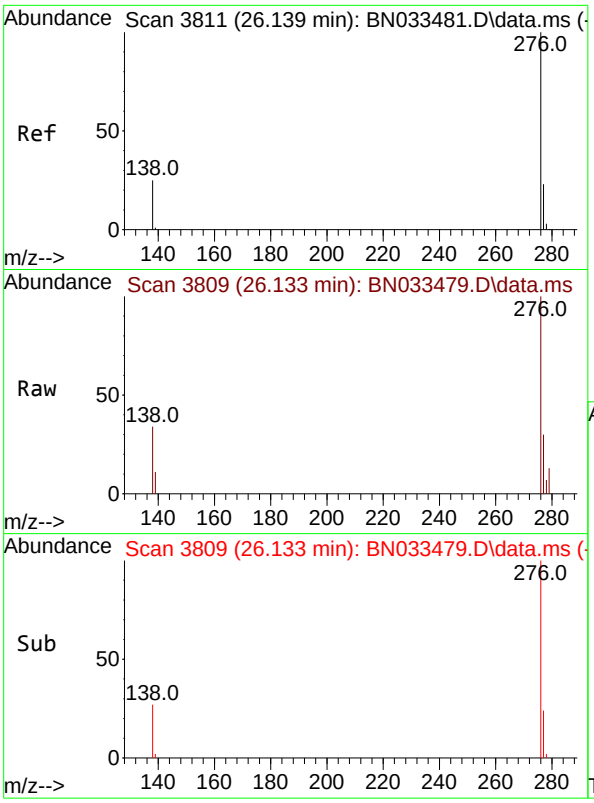


#40
Dibenzo(a,h)anthracene
Concen: 0.098 ng
RT: 25.498 min Scan# 3592
Delta R.T. 0.003 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:278 Resp: 5079

Ion	Ratio	Lower	Upper
278	100		
139	29.7	19.1	28.7#
279	35.1	21.0	31.4#



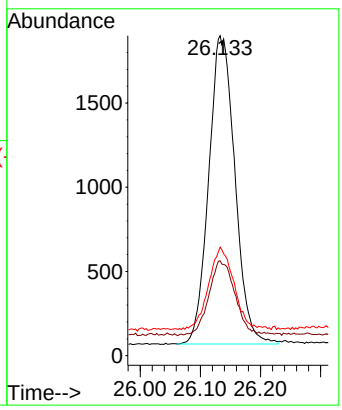


#41
Benzo(g,h,i)perylene
Concen: 0.097 ng
RT: 26.133 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 5542

Ion	Ratio	Lower	Upper
276	100		
277	29.6	19.7	29.5#
138	33.9	21.8	32.6#



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033480.D
Acq On : 19 Aug 2024 16:52
Operator : MA/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

Quant Time: Aug 19 23:22:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.560	152	7894	0.400	ng		0.00
7) Naphthalene-d8	10.314	136	21153	0.400	ng		0.00
13) Acenaphthene-d10	14.189	164	11095	0.400	ng		0.00
19) Phenanthrene-d10	16.942	188	23305	0.400	ng		0.00
29) Chrysene-d12	21.148	240	15592	0.400	ng		0.00
35) Perylene-d12	23.323	264	15116	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.191	112	5055	0.228	ng		0.00
5) Phenol-d6	6.743	99	6221	0.214	ng		0.00
8) Nitrobenzene-d5	8.692	82	3428	0.214	ng		0.00
11) 2-Methylnaphthalene-d10	11.915	152	5985	0.188	ng		0.00
14) 2,4,6-Tribromophenol	15.688	330	1123	0.198	ng		0.00
15) 2-Fluorobiphenyl	12.810	172	8881	0.198	ng		0.00
27) Fluoranthene-d10	18.980	212	10713	0.175	ng		0.00
31) Terphenyl-d14	19.598	244	6989	0.233	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.190	88	2026	0.238	ng		95
3) n-Nitrosodimethylamine	3.479	42	2169	0.197	ng	#	99
6) bis(2-Chloroethyl)ether	6.996	93	4514	0.200	ng		99
9) Naphthalene	10.368	128	11298	0.197	ng		99
10) Hexachlorobutadiene	10.667	225	2251	0.204	ng	#	100
12) 2-Methylnaphthalene	11.990	142	7058	0.184	ng		99
16) Acenaphthylene	13.911	152	8927	0.175	ng		100
17) Acenaphthene	14.253	154	6529	0.186	ng		100
18) Fluorene	15.247	166	8225	0.179	ng		99
20) 4,6-Dinitro-2-methylph...	15.322	198	589	0.203	ng	#	58
21) 4-Bromophenyl-phenylether	16.147	248	2696	0.194	ng		97
22) Hexachlorobenzene	16.247	284	3027	0.195	ng		100
23) Atrazine	16.421	200	2139	0.193	ng		98
24) Pentachlorophenol	16.594	266	1137	0.179	ng		97
25) Phenanthrene	16.979	178	12438	0.187	ng		100
26) Anthracene	17.078	178	10626	0.180	ng		100
28) Fluoranthene	19.012	202	13434	0.166	ng		99
30) Pyrene	19.375	202	13742	0.219	ng		99
32) Benzo(a)anthracene	21.131	228	10672	0.184	ng		99
33) Chrysene	21.184	228	10851	0.188	ng		98
34) Bis(2-ethylhexyl)phtha...	21.104	149	7125	0.257	ng		99
36) Indeno(1,2,3-cd)pyrene	25.481	276	11942	0.191	ng		99
37) Benzo(b)fluoranthene	22.677	252	10821	0.192	ng	#	90
38) Benzo(k)fluoranthene	22.721	252	10527m	0.184	ng		
39) Benzo(a)pyrene	23.227	252	8779	0.184	ng	#	87
40) Dibenzo(a,h)anthracene	25.496	278	9553	0.193	ng		95
41) Benzo(g,h,i)perylene	26.136	276	10368	0.190	ng		97

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

ICAL Form

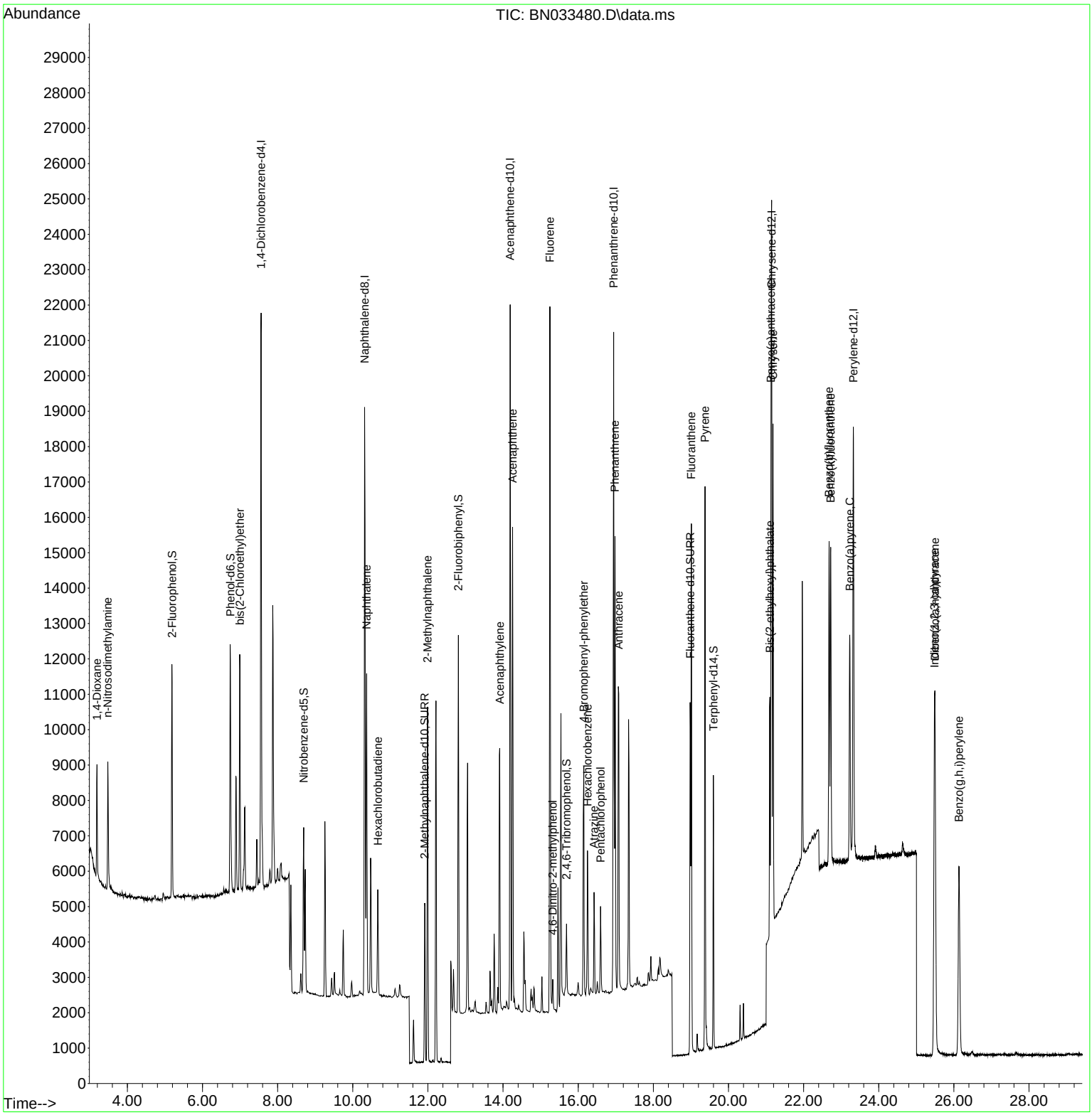
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033480.D
Acq On : 19 Aug 2024 16:52
Operator : MA/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

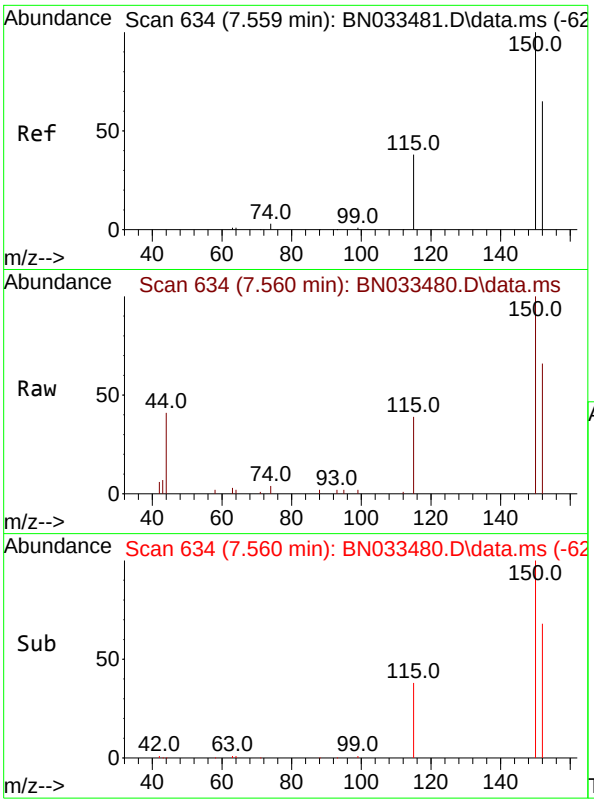
Quant Time: Aug 19 23:22:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

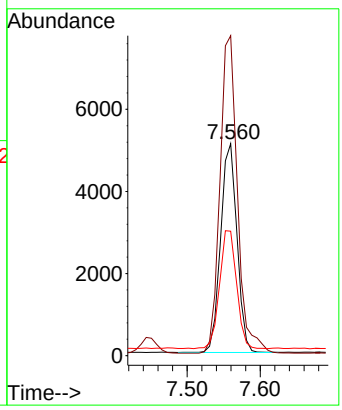




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:152 Resp: 789

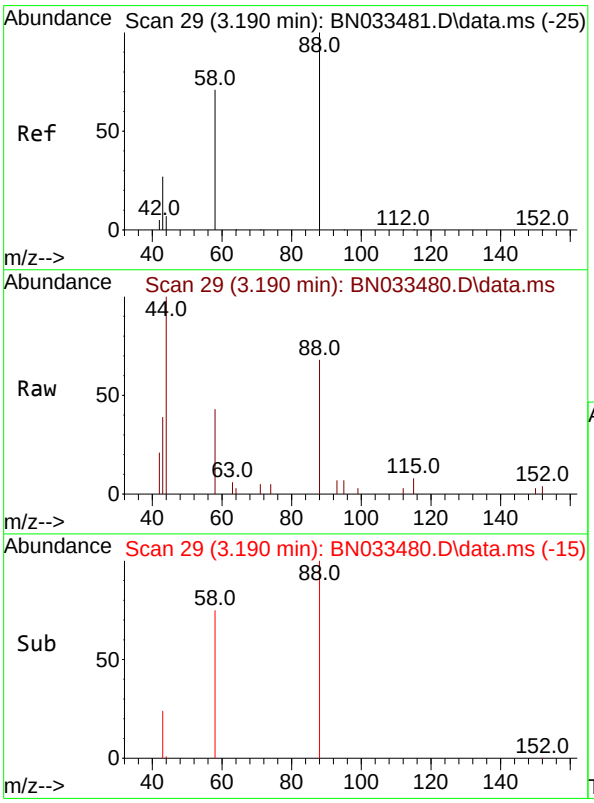
Ion	Ratio	Lower	Upper
152	100		
150	150.9	122.2	183.2
115	58.7	47.2	70.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

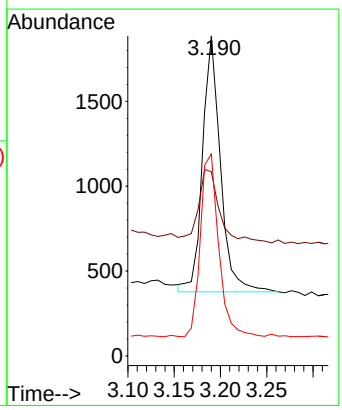
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

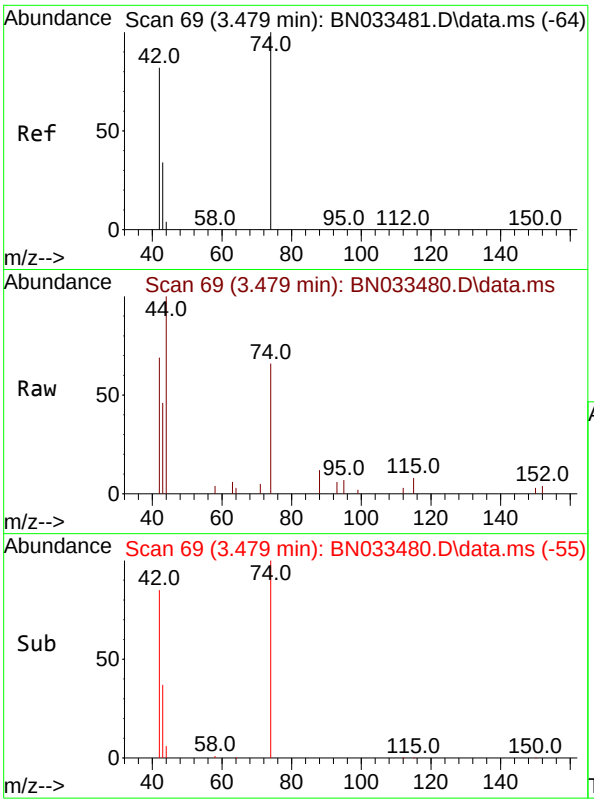


#2
1,4-Dioxane
Concen: 0.238 ng
RT: 3.190 min Scan# 29
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion: 88 Resp: 2026

Ion	Ratio	Lower	Upper
88	100		
43	34.3	25.0	37.4
58	73.6	62.5	93.7

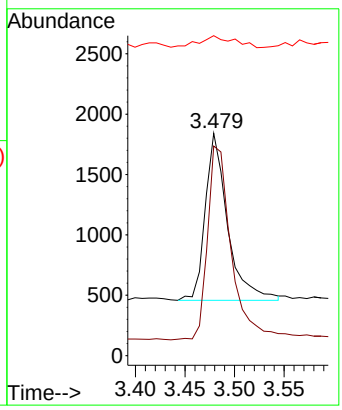




#3
n-Nitrosodimethylamine
Concen: 0.197 ng
RT: 3.479 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion: 42 Resp: 216

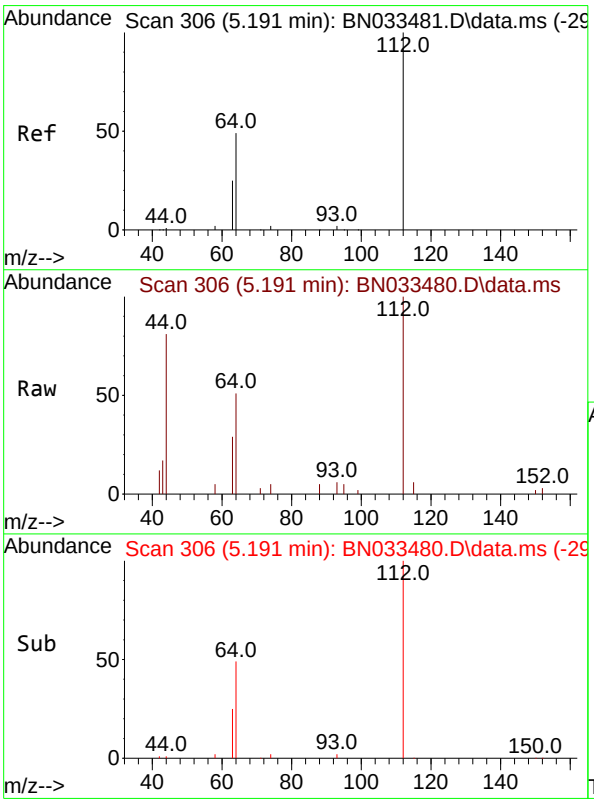
Ion	Ratio	Lower	Upper
42	100		
74	124.3	100.2	150.2
44	10.2	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

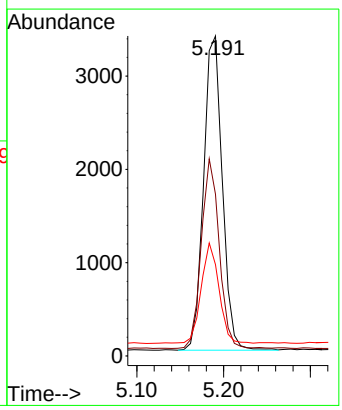
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

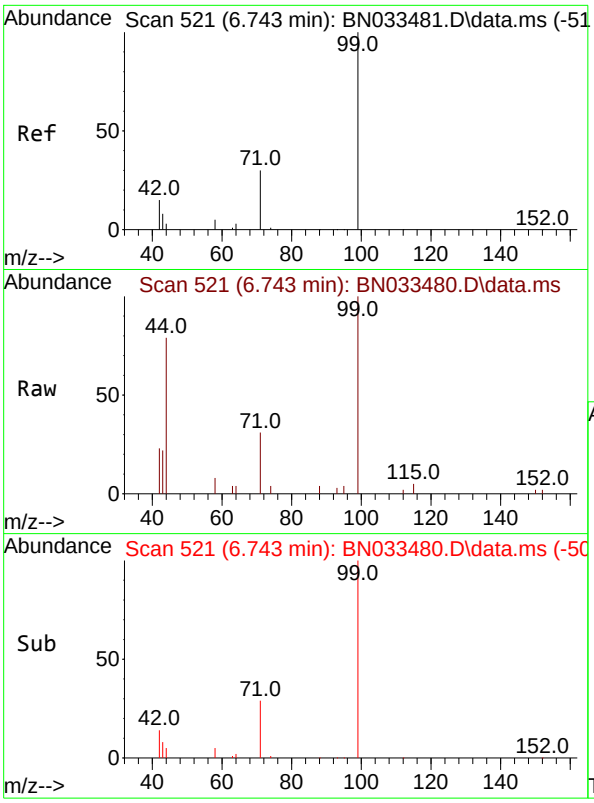


#4
2-Fluorophenol
Concen: 0.228 ng
RT: 5.191 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:112 Resp: 5055

Ion	Ratio	Lower	Upper
112	100		
64	57.6	47.1	70.7
63	30.5	24.9	37.3





#5
Phenol-d6
Concen: 0.214 ng
RT: 6.743 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

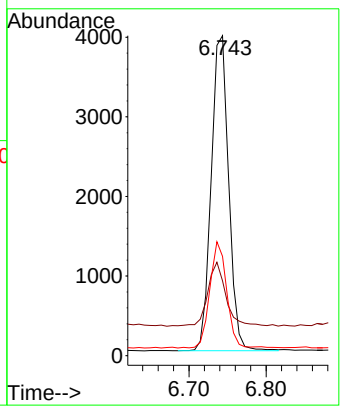
Tgt Ion: 99 Resp: 622

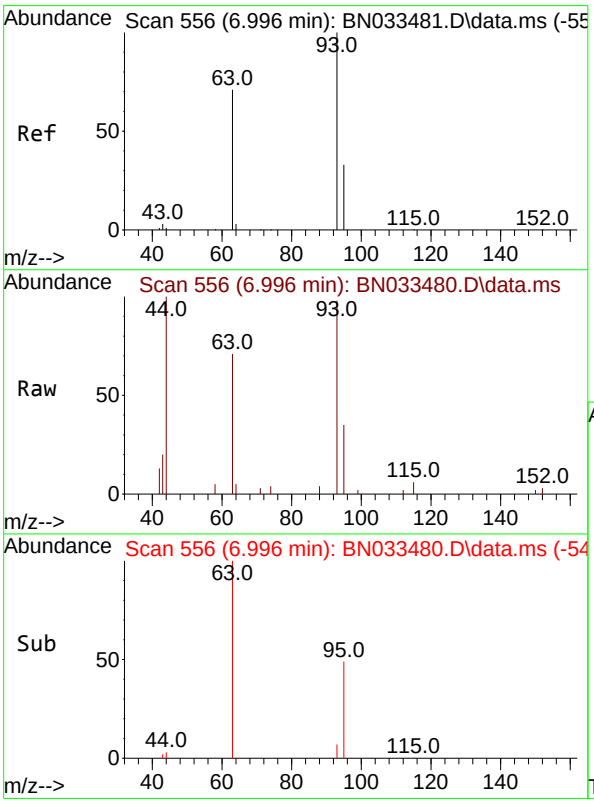
Ion	Ratio	Lower	Upper
99	100		
42	21.1	16.6	24.8
71	32.5	26.2	39.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

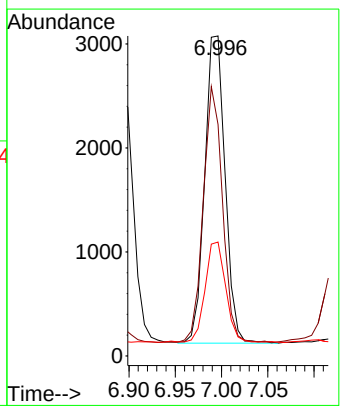


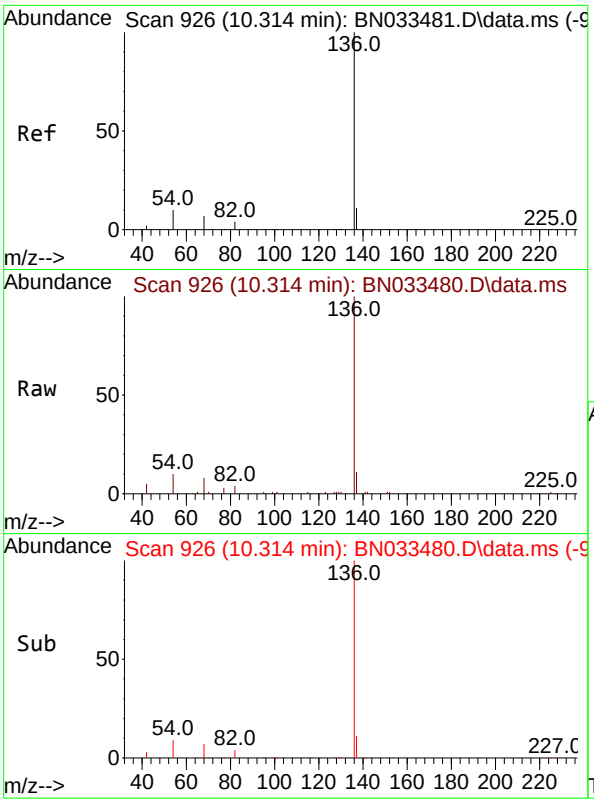


#6
bis(2-Chloroethyl)ether
Concen: 0.200 ng
RT: 6.996 min Scan# 556
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion: 93 Resp: 4514

Ion	Ratio	Lower	Upper
93	100		
63	79.2	63.0	94.4
95	32.9	26.0	39.0

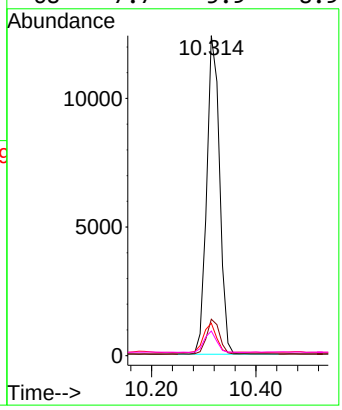




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:136 Resp: 2115

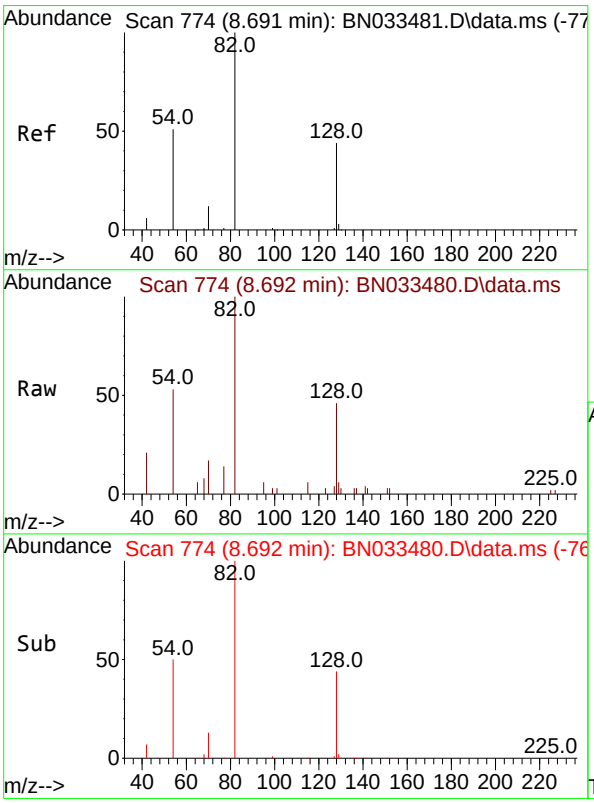
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	10.1	8.3	12.5
68	7.7	5.9	8.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

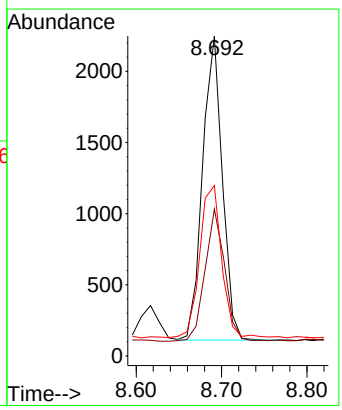
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

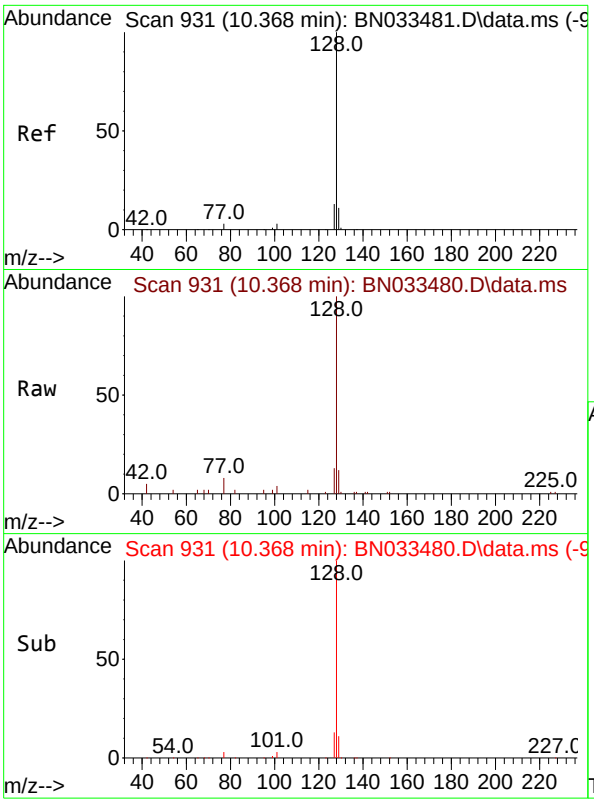


#8
Nitrobenzene-d5
Concen: 0.214 ng
RT: 8.692 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion: 82 Resp: 3428

Ion	Ratio	Lower	Upper
82	100		
128	45.9	36.0	54.0
54	53.2	42.0	63.0

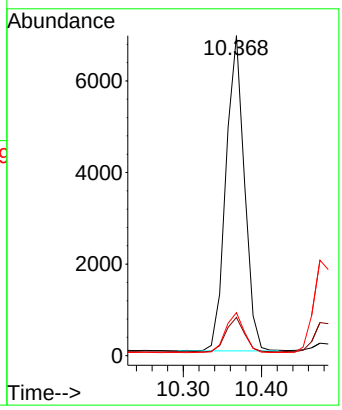




#9
Naphthalene
Concen: 0.197 ng
RT: 10.368 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:128 Resp: 1129

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.1	13.7
127	13.5	10.7	16.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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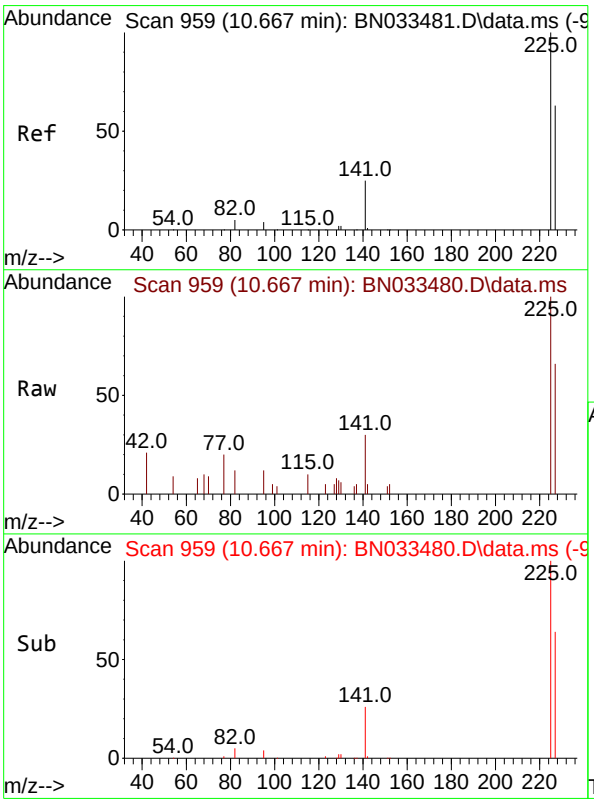
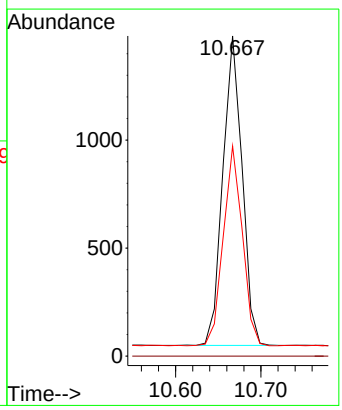
Supervised By :mohammad ahmed 08/22/2024

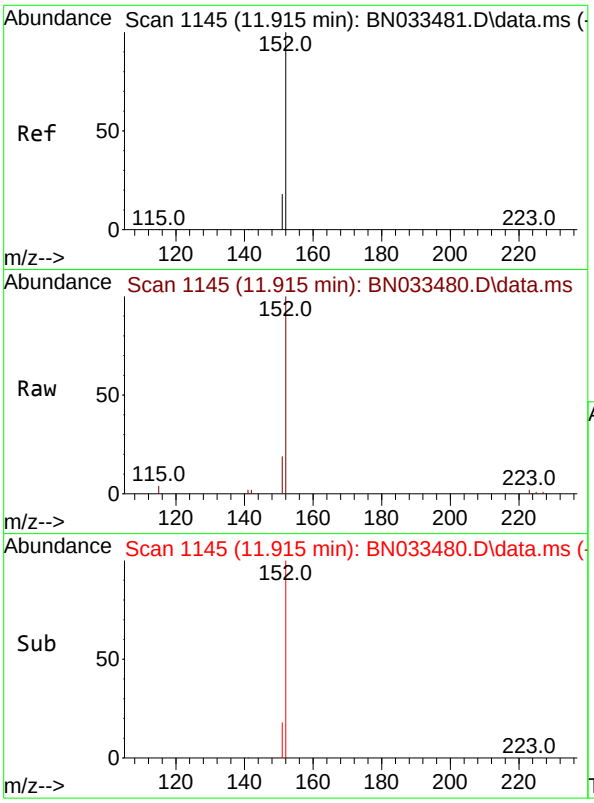


#10
Hexachlorobutadiene
Concen: 0.204 ng
RT: 10.667 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:225 Resp: 2251

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.2	76.8





#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 11.915 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:152 Resp: 598

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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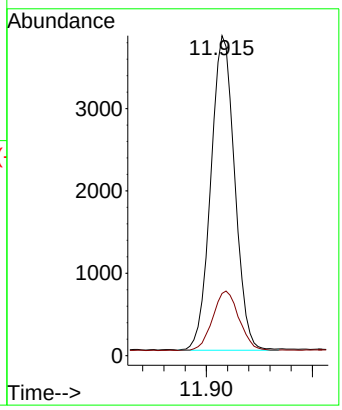
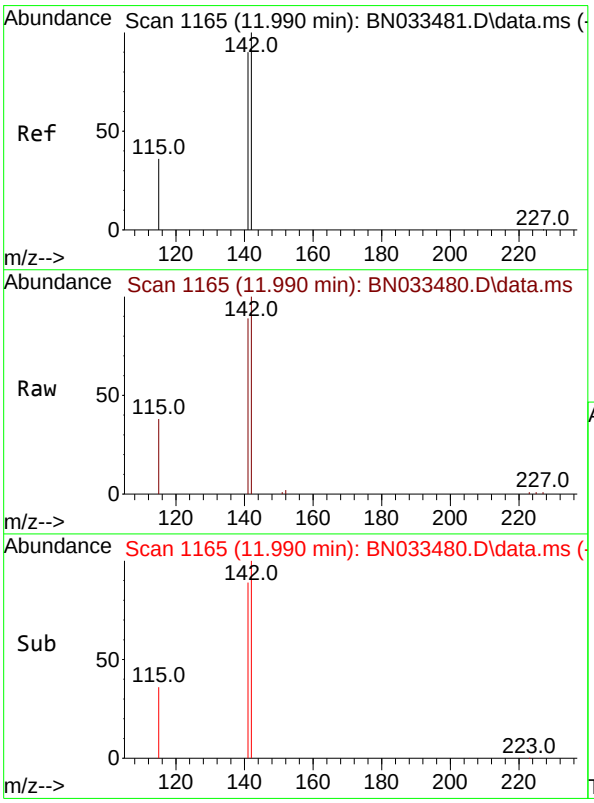
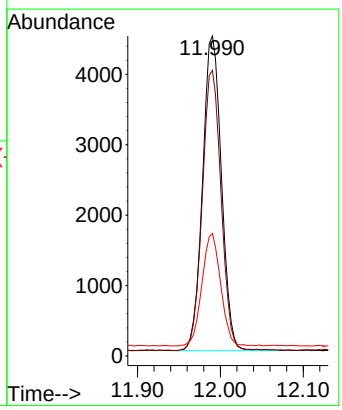


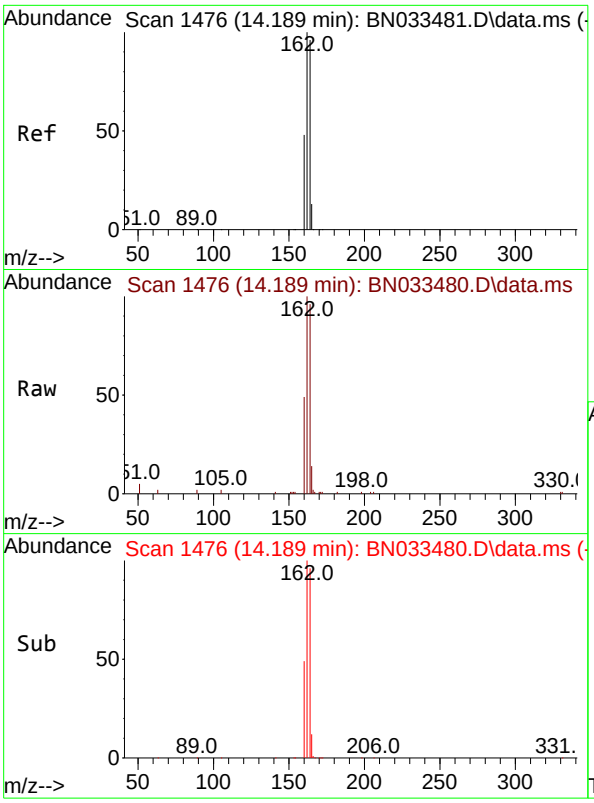


#12
2-Methylnaphthalene
Concen: 0.184 ng
RT: 11.990 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:142 Resp: 7058

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.7	107.5
115	38.3	29.4	44.2

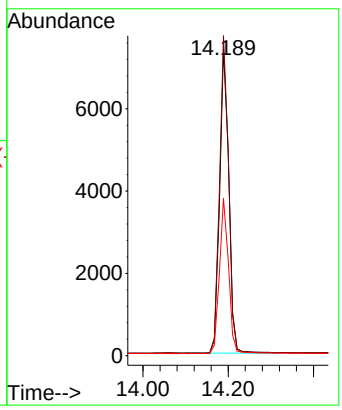




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:164 Resp: 1109

Ion	Ratio	Lower	Upper
164	100		
162	104.3	83.5	125.3
160	51.3	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
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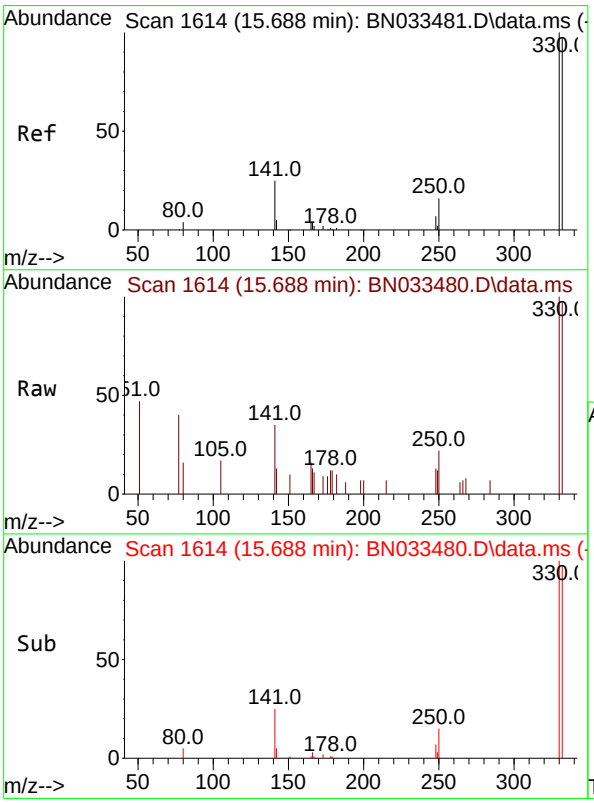
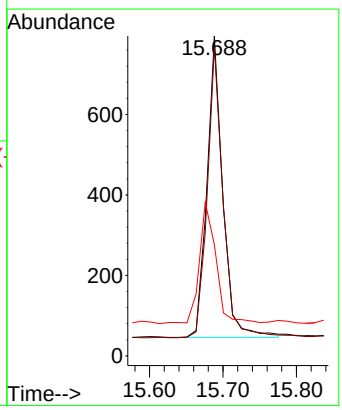
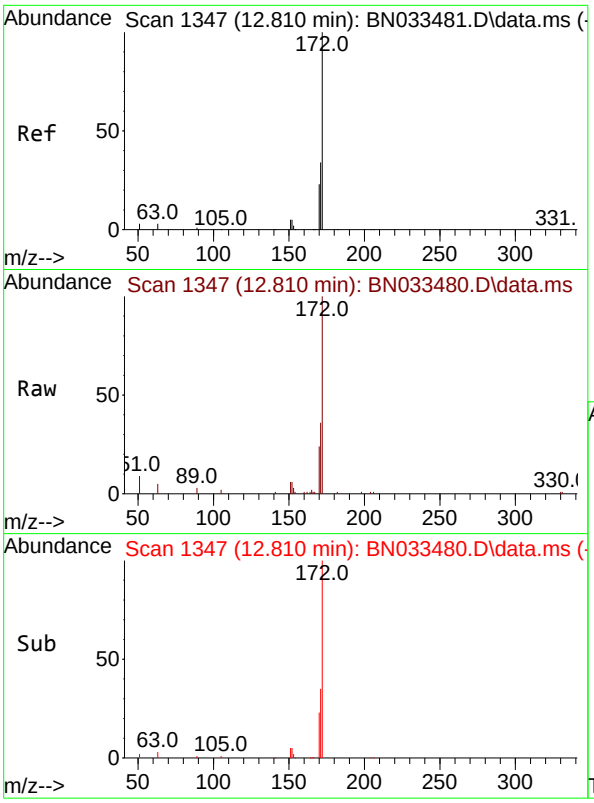


#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:330 Resp: 1123

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.5	116.3
141	42.3	33.9	50.9

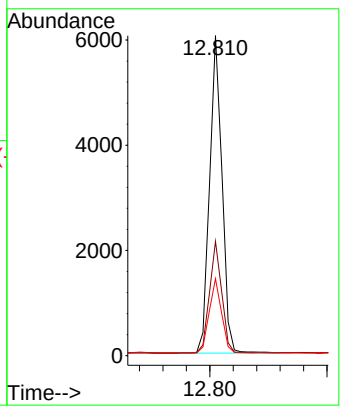




#15
2-Fluorobiphenyl
Concen: 0.198 ng
RT: 12.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:172 Resp: 888

Ion	Ratio	Lower	Upper
172	100		
171	35.7	27.7	41.5
170	24.0	18.3	27.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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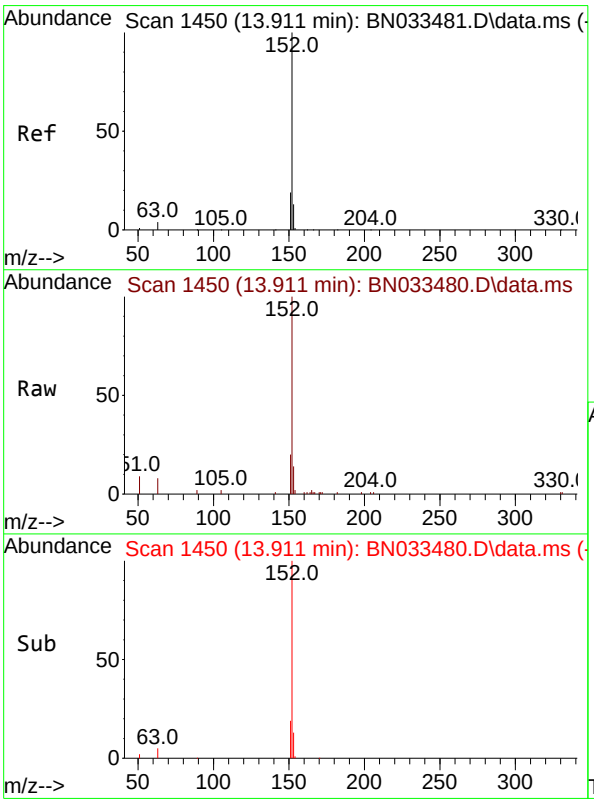
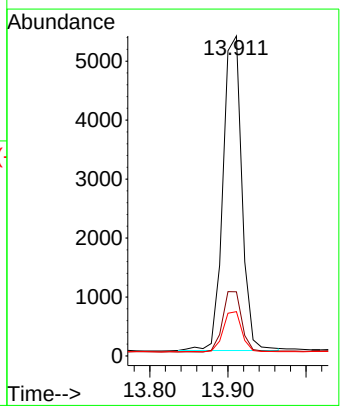
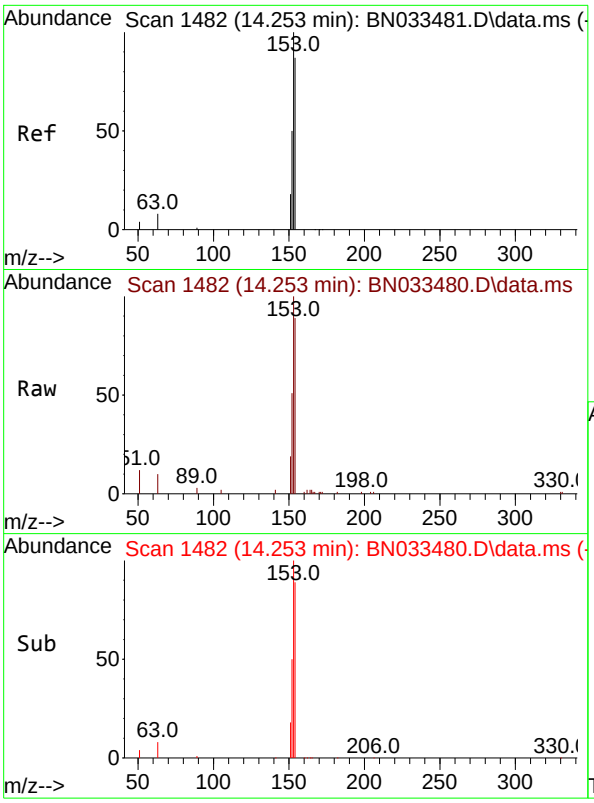


#16
Acenaphthylene
Concen: 0.175 ng
RT: 13.911 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:152 Resp: 8927

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.7	23.5
153	12.7	10.3	15.5

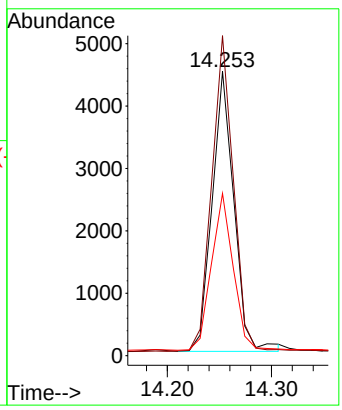




#17
Acenaphthene
Concen: 0.186 ng
RT: 14.253 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:154 Resp: 652

Ion	Ratio	Lower	Upper
154	100		
153	111.0	89.0	133.6
152	55.9	45.2	67.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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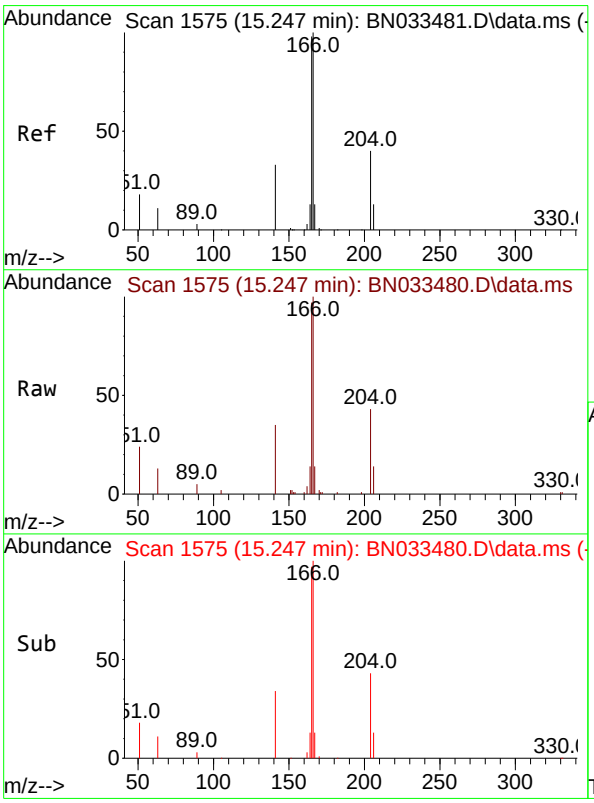
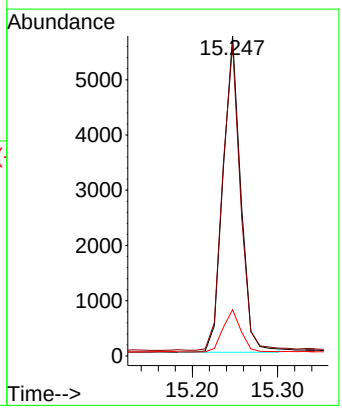
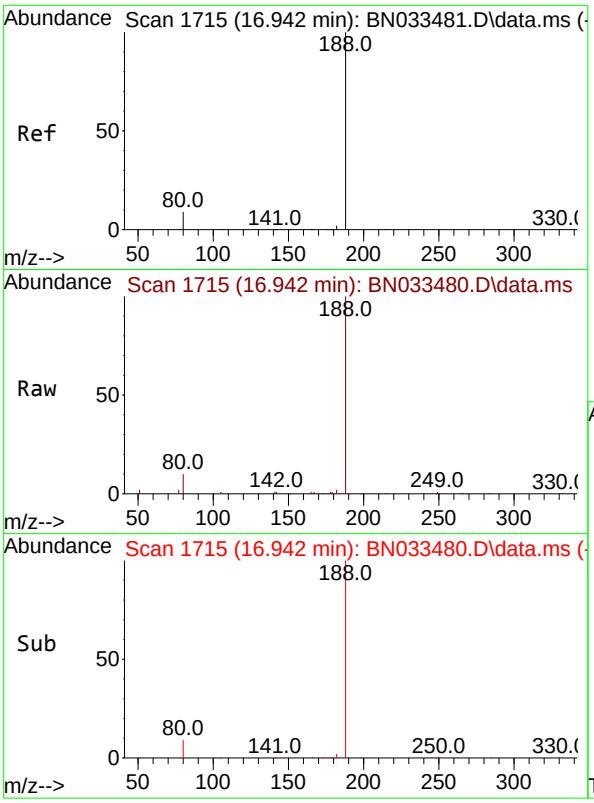


#18
Fluorene
Concen: 0.179 ng
RT: 15.247 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:166 Resp: 8225

Ion	Ratio	Lower	Upper
166	100		
165	96.7	78.2	117.4
167	13.5	10.6	16.0

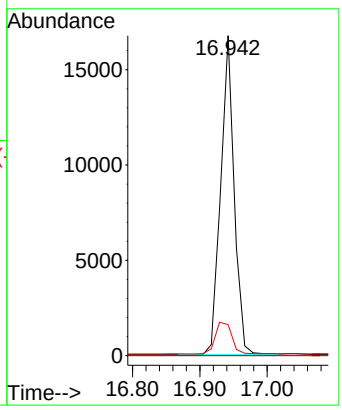




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:188 Resp: 2330

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	7.8	11.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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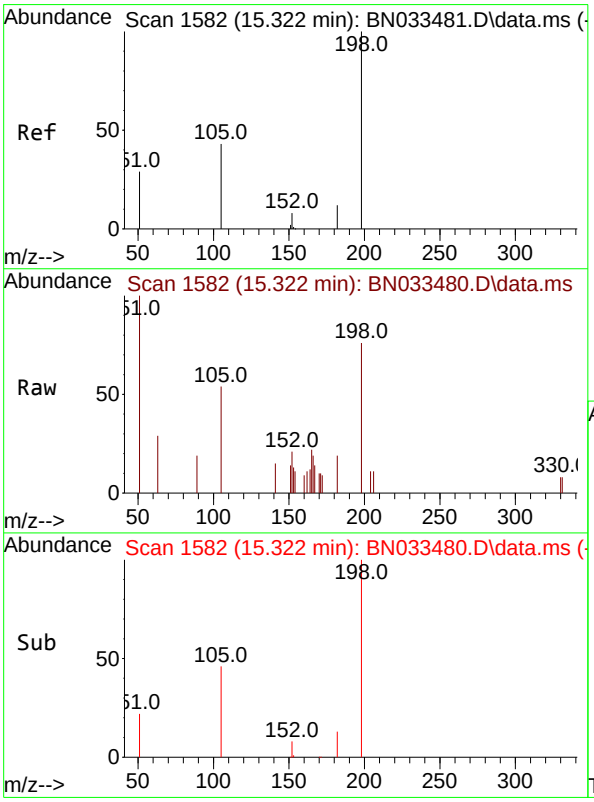
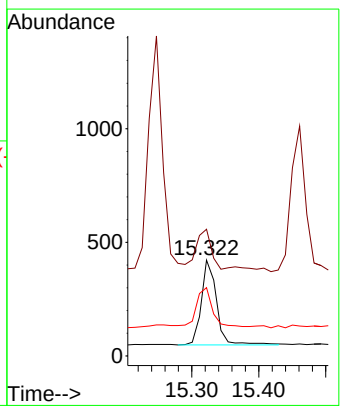
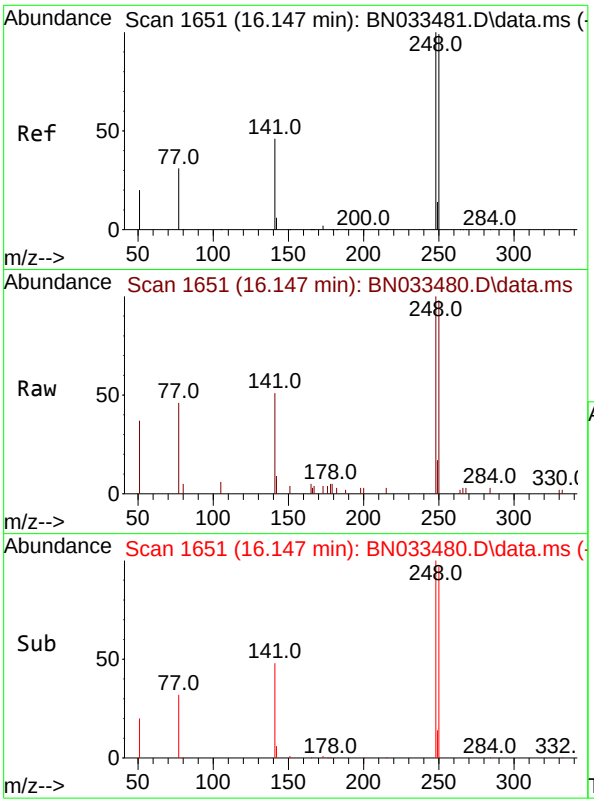


#20
4,6-Dinitro-2-methylphenol
Concen: 0.203 ng
RT: 15.322 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:198 Resp: 589

Ion	Ratio	Lower	Upper
198	100		
51	132.2	65.1	97.7#
105	71.3	44.8	67.2#





#21
4-Bromophenyl-phenylether
Concen: 0.194 ng
RT: 16.147 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:248 Resp: 269(

Ion	Ratio	Lower	Upper
248	100		
250	97.7	79.2	118.8
141	51.0	37.9	56.9

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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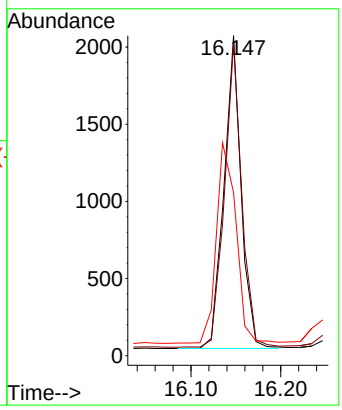
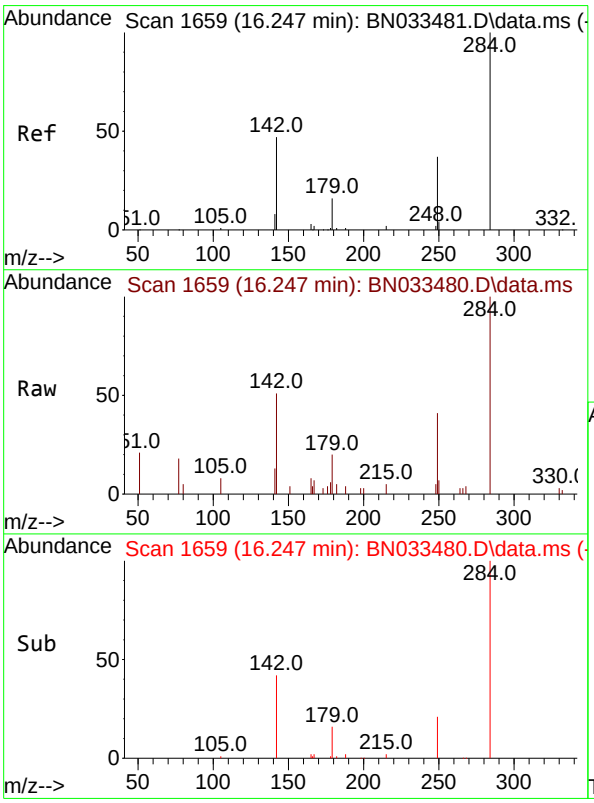
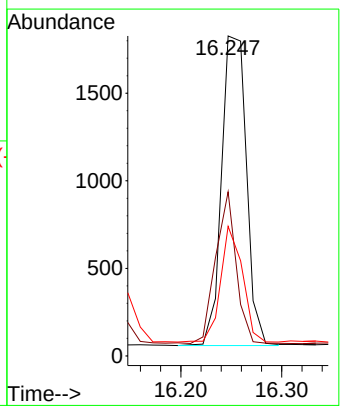


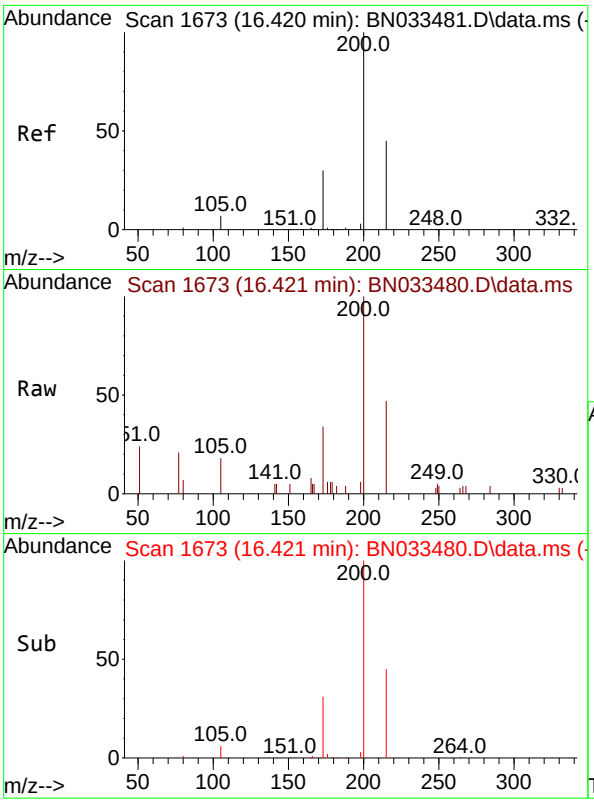


#22
Hexachlorobenzene
Concen: 0.195 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:284 Resp: 3027

Ion	Ratio	Lower	Upper
284	100		
142	40.0	31.8	47.6
249	32.7	26.0	39.0

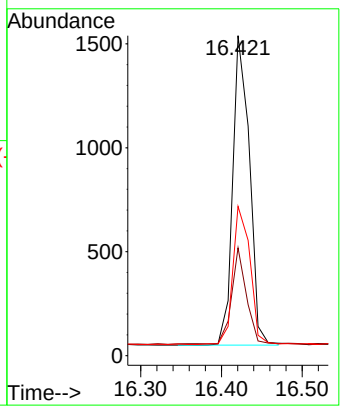




#23
Atrazine
Concen: 0.193 ng
RT: 16.421 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:200 Resp: 213

Ion	Ratio	Lower	Upper
200	100		
173	33.7	25.3	37.9
215	46.7	36.6	54.8



Instrument :
BNA_N
ClientSampleId :
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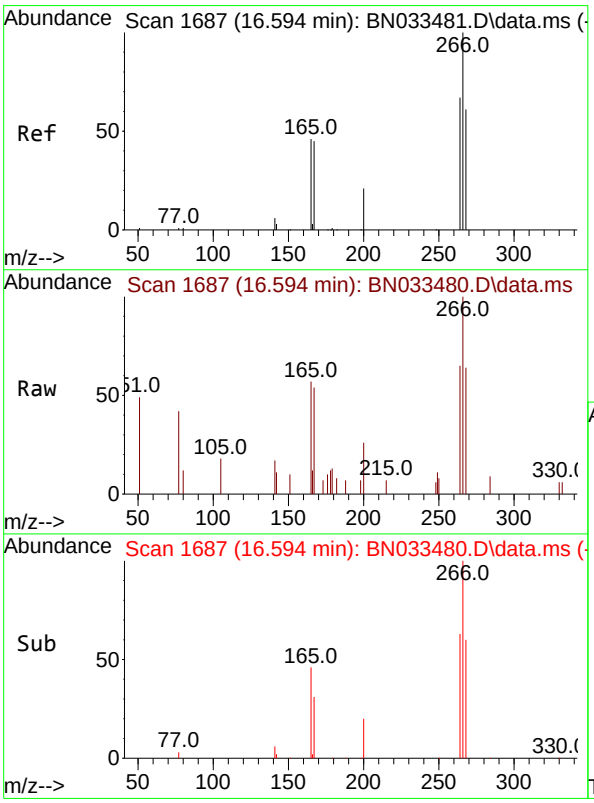
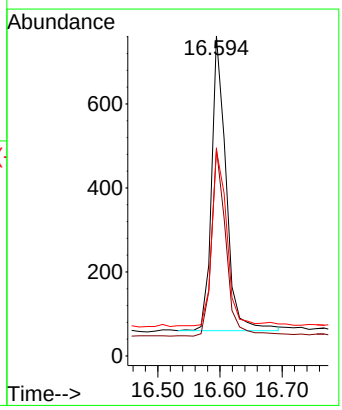
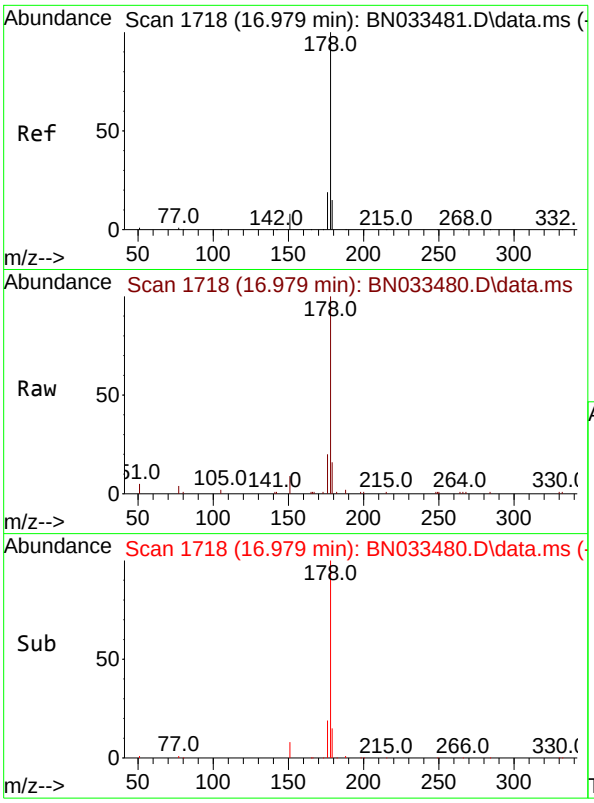


#24
Pentachlorophenol
Concen: 0.179 ng
RT: 16.594 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:266 Resp: 1137

Ion	Ratio	Lower	Upper
266	100		
264	63.3	51.9	77.9
268	61.2	51.0	76.4

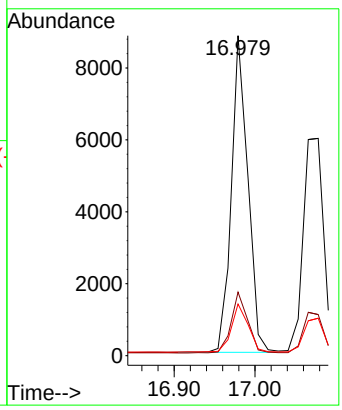




#25
Phenanthrene
Concen: 0.187 ng
RT: 16.979 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:178 Resp: 1243

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.5	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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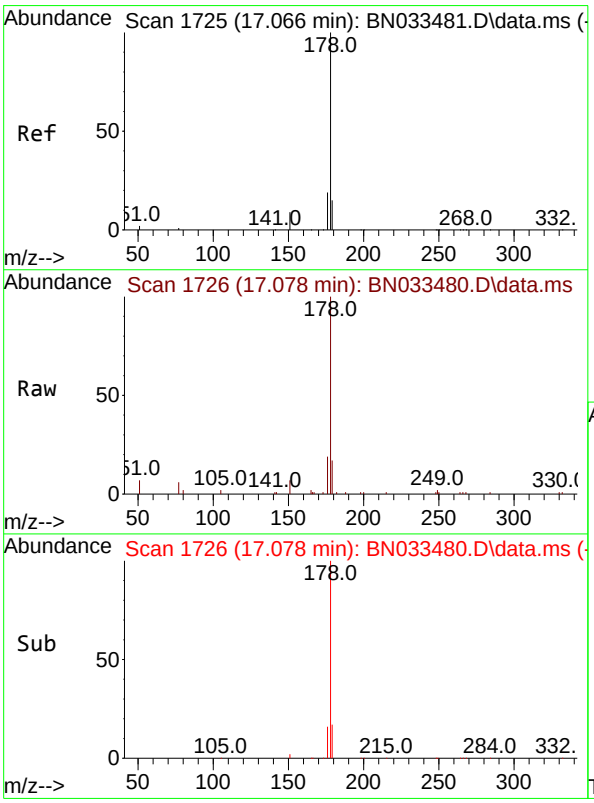
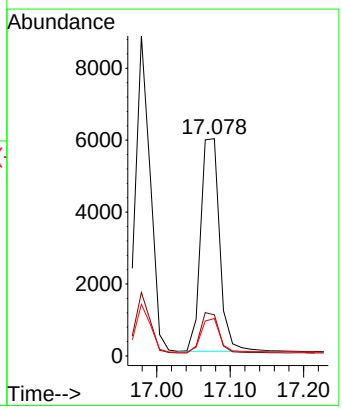
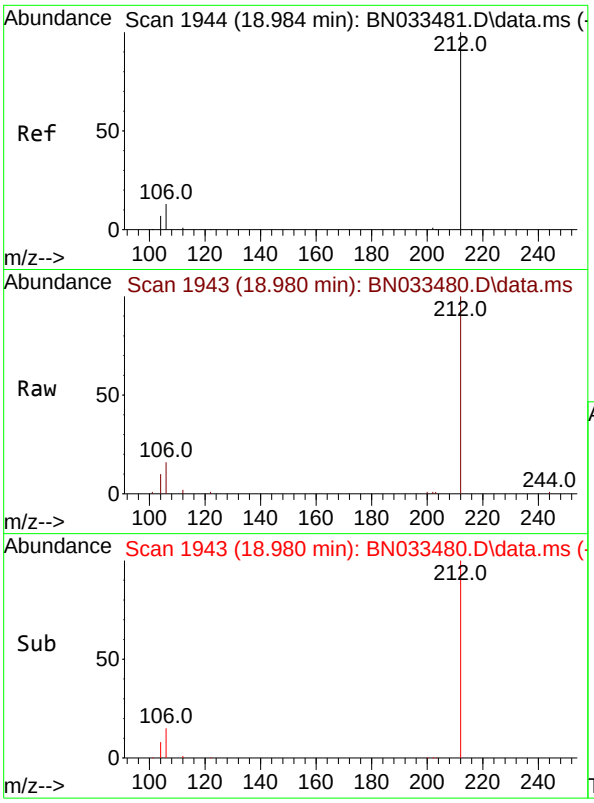


#26
Anthracene
Concen: 0.180 ng
RT: 17.078 min Scan# 1726
Delta R.T. 0.013 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:178 Resp: 10626

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.5	12.4	18.6

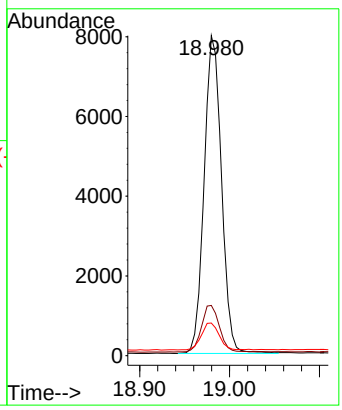




#27
Fluoranthene-d10
Concen: 0.175 ng
RT: 18.980 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:212 Resp: 1071

Ion	Ratio	Lower	Upper
212	100		
106	15.0	12.3	18.5
104	8.7	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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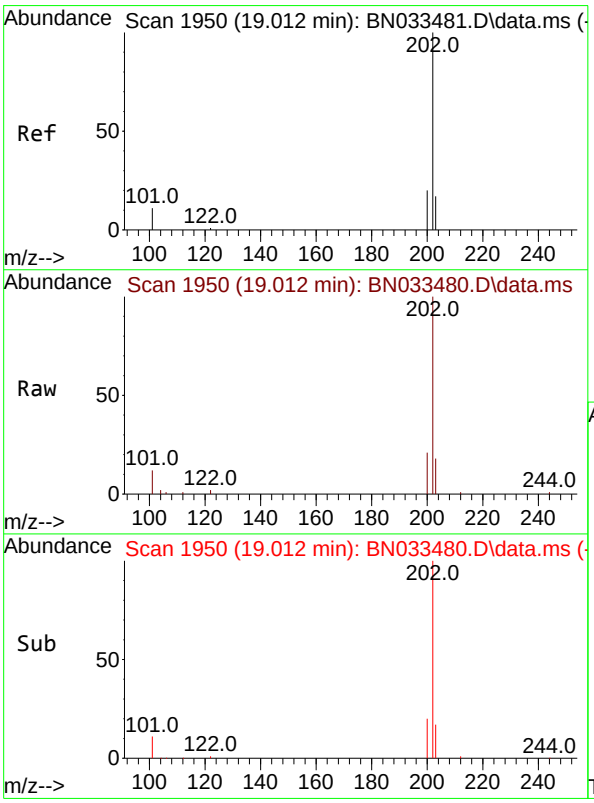
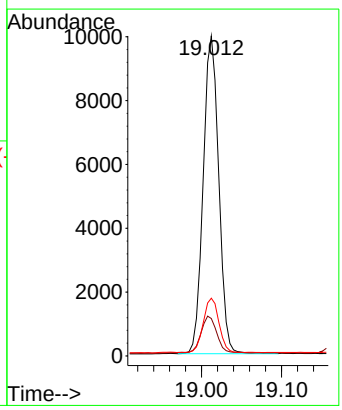
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

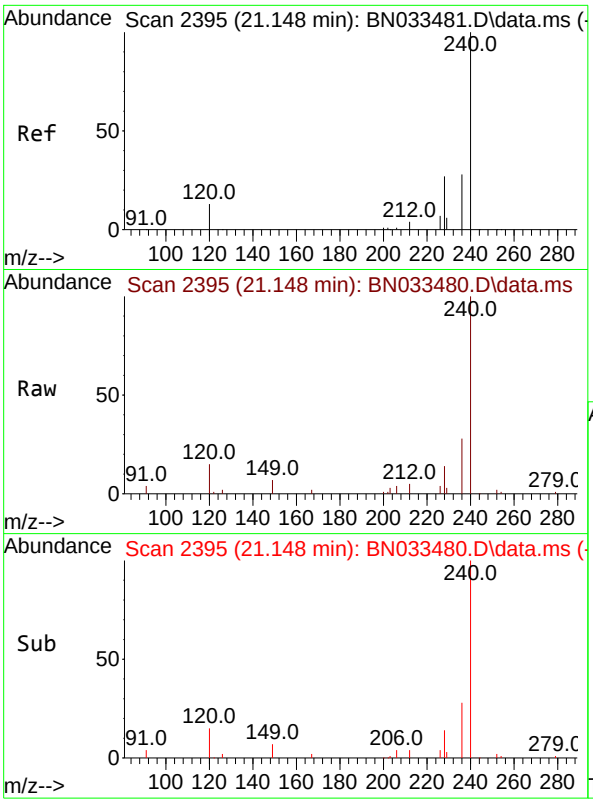


#28
Fluoranthene
Concen: 0.166 ng
RT: 19.012 min Scan# 1950
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:202 Resp: 13434

Ion	Ratio	Lower	Upper
202	100		
101	12.4	9.5	14.3
203	17.1	13.8	20.6

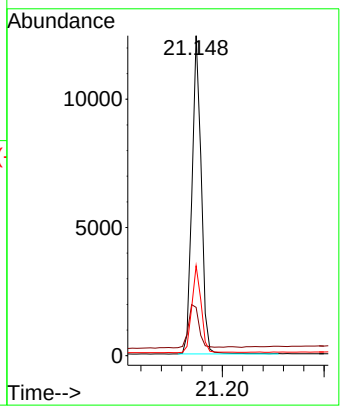




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:240 Resp: 1559

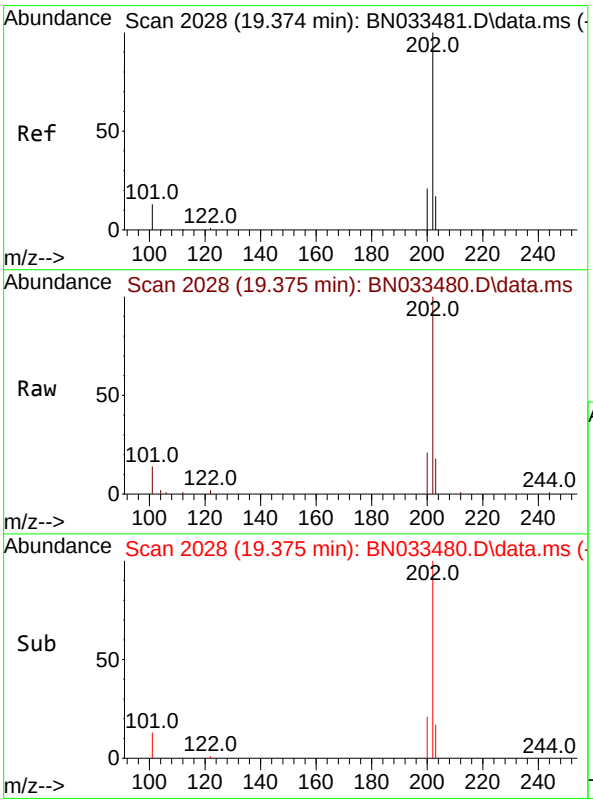
Ion	Ratio	Lower	Upper
240	100		
120	15.1	12.4	18.6
236	28.1	23.0	34.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

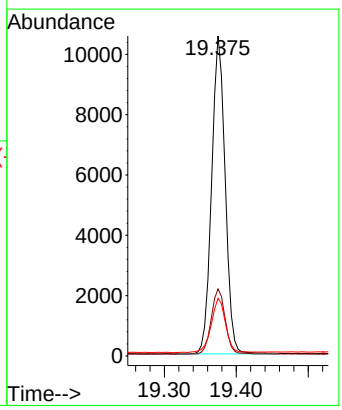
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

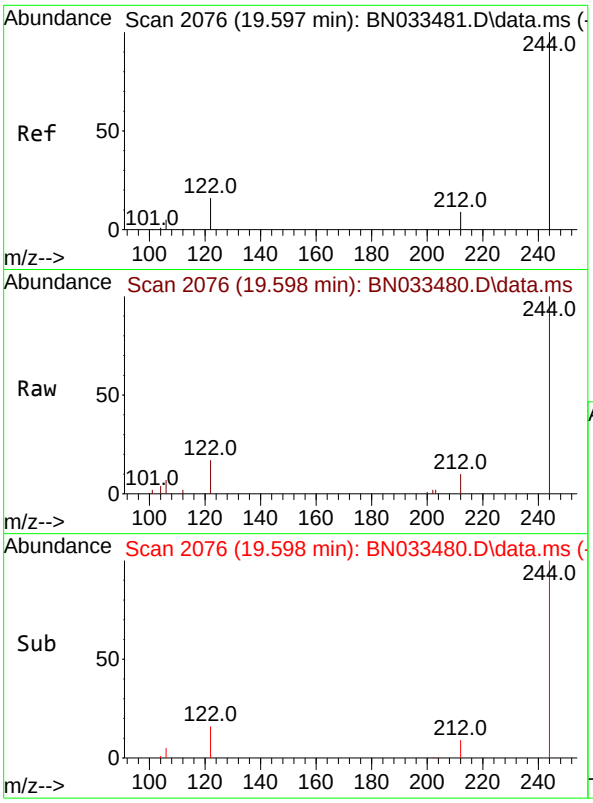


#30
Pyrene
Concen: 0.219 ng
RT: 19.375 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:202 Resp: 13742

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.6	24.8
203	18.0	14.2	21.4





#31
Terphenyl-d14
Concen: 0.233 ng
RT: 19.598 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

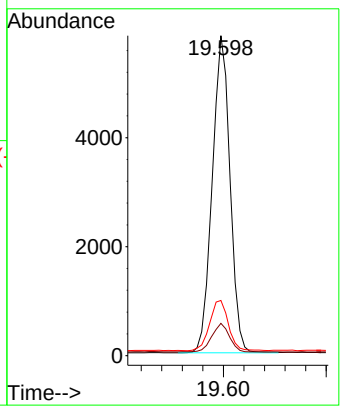
Tgt Ion:244 Resp: 698

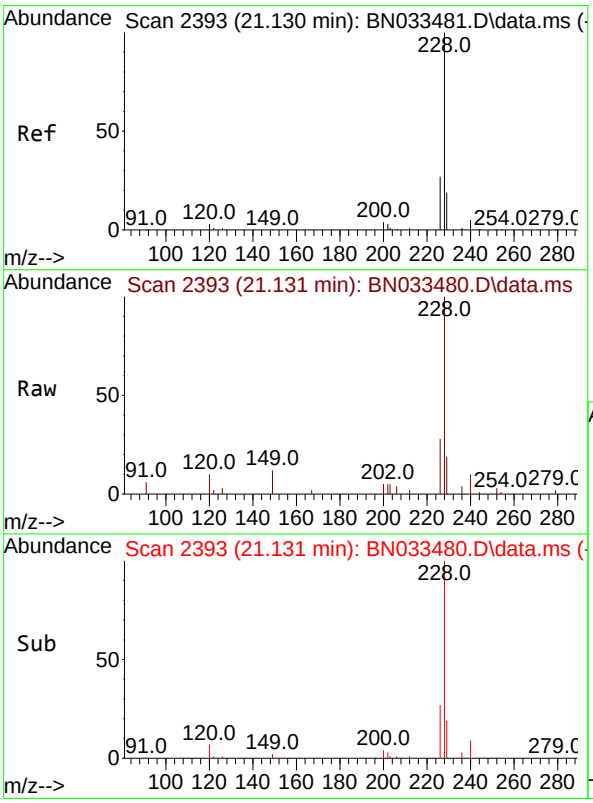
Ion	Ratio	Lower	Upper
244	100		
212	10.1	7.8	11.6
122	17.3	13.3	19.9

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

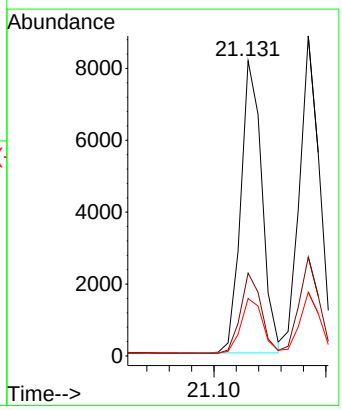


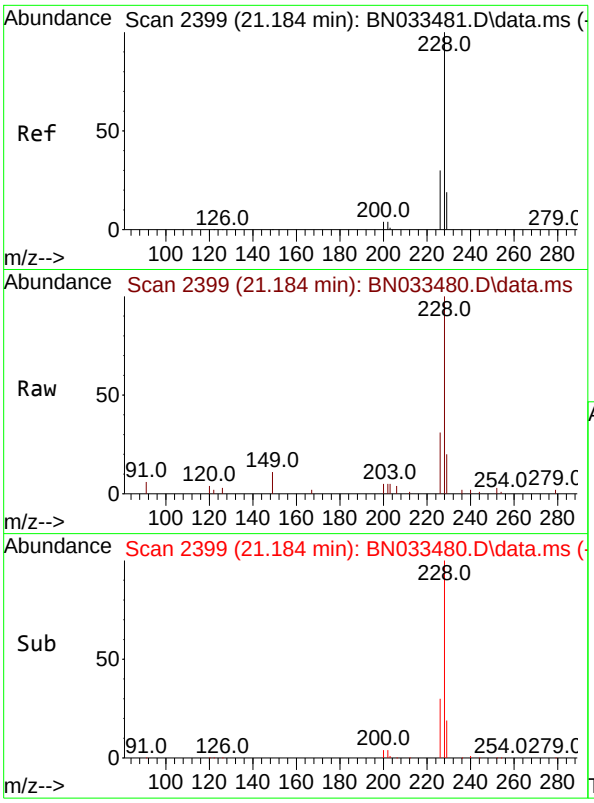


#32
Benzo(a)anthracene
Concen: 0.184 ng
RT: 21.131 min Scan# 2393
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:228 Resp: 10672

Ion	Ratio	Lower	Upper
228	100		
226	28.1	21.8	32.6
229	19.5	15.8	23.6

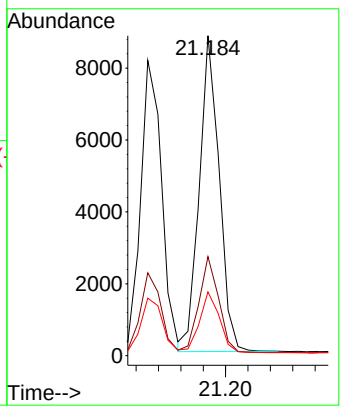




#33
Chrysene
Concen: 0.188 ng
RT: 21.184 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:228 Resp: 1085

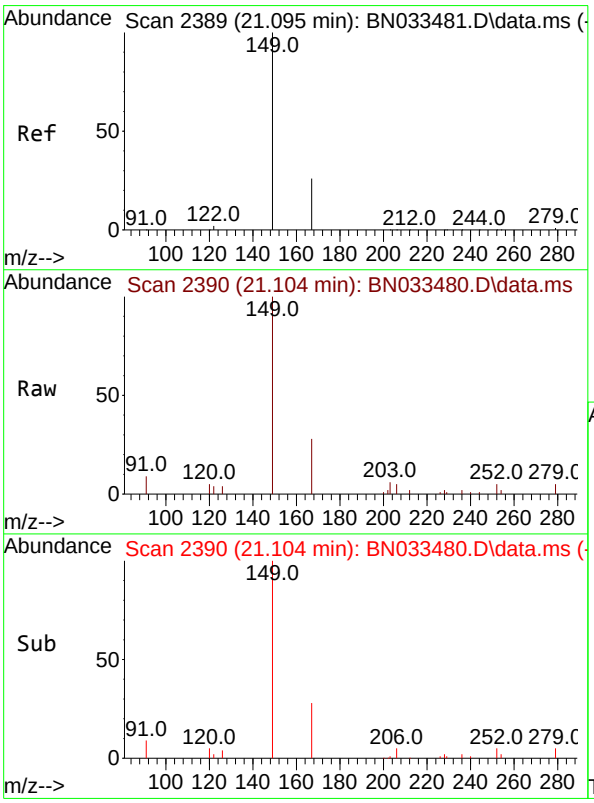
Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.8	35.8
229	19.9	15.6	23.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

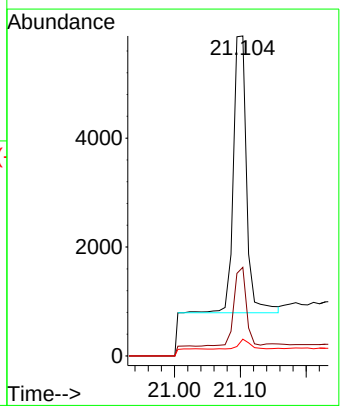
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

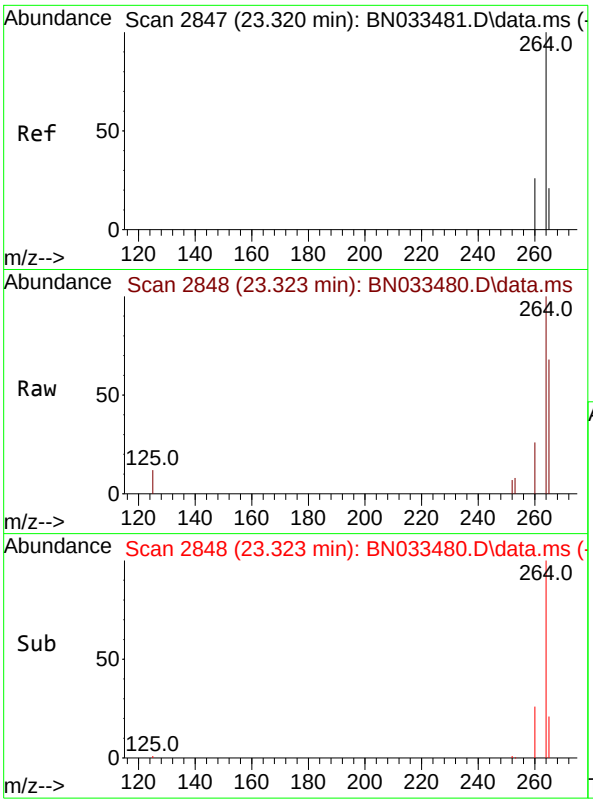


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.257 ng
RT: 21.104 min Scan# 2390
Delta R.T. 0.009 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:149 Resp: 7125

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.5	32.3
279	2.9	2.2	3.2

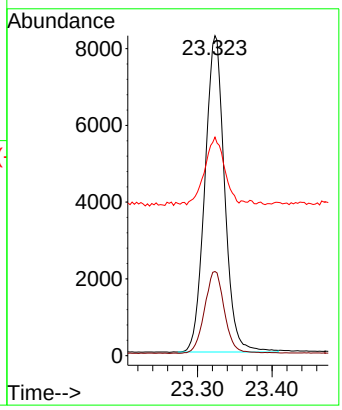




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.323 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:264 Resp: 1511

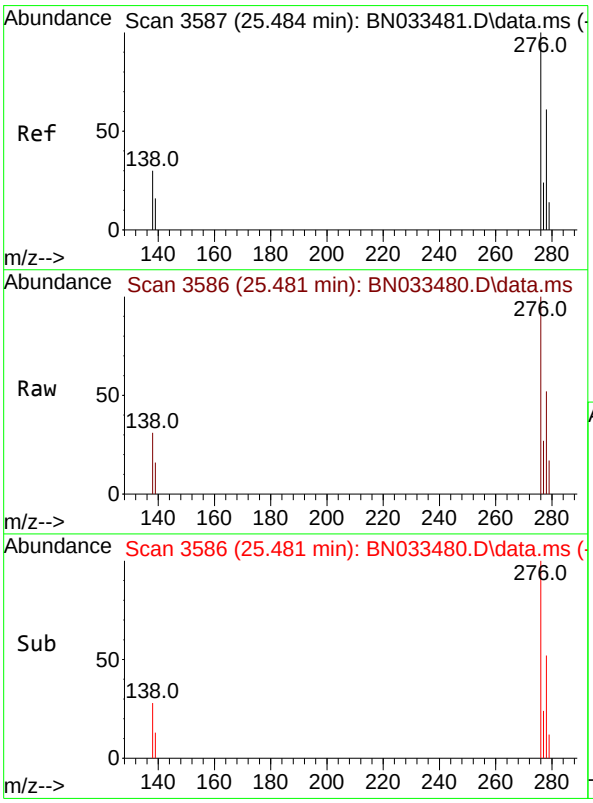
Ion	Ratio	Lower	Upper
264	100		
260	26.3	20.8	31.2
265	68.3	52.2	78.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

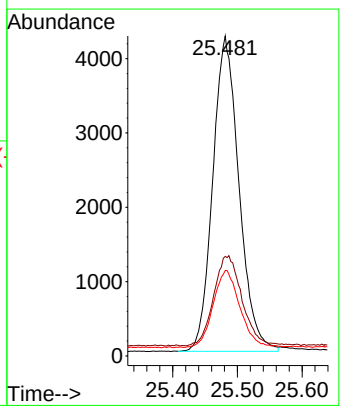
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

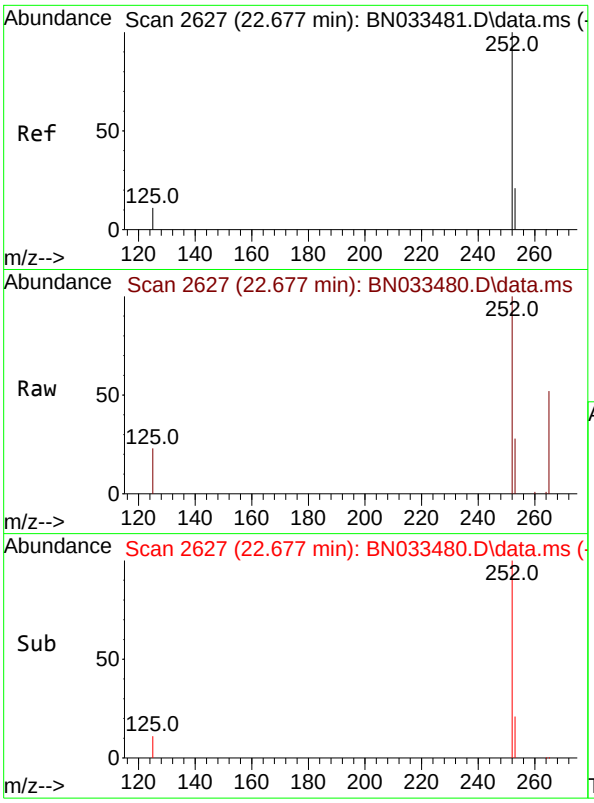


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.191 ng
RT: 25.481 min Scan# 3586
Delta R.T. -0.003 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:276 Resp: 11942

Ion	Ratio	Lower	Upper
276	100		
138	30.9	24.4	36.6
277	24.9	19.8	29.6

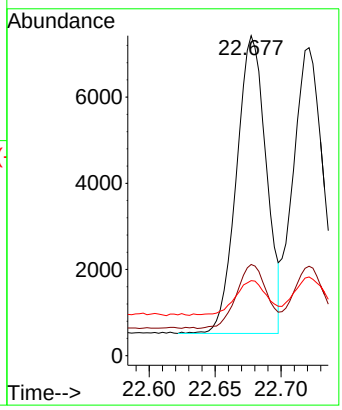




#37
Benzo(b)fluoranthene
Concen: 0.192 ng
RT: 22.677 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:252 Resp: 1082

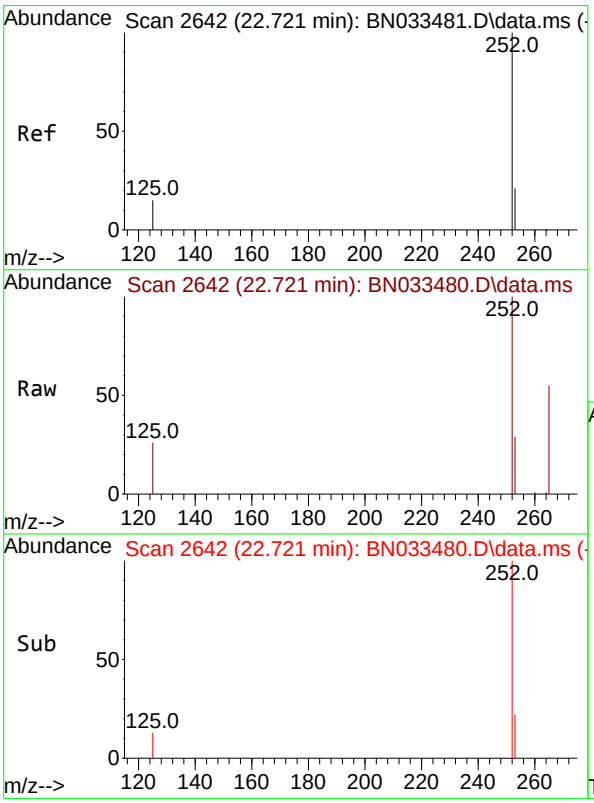
Ion	Ratio	Lower	Upper
252	100		
253	28.5	19.8	29.8
125	23.5	13.9	20.9#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

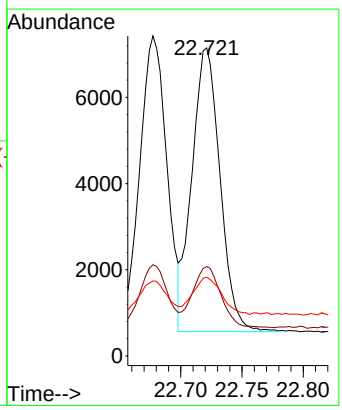
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

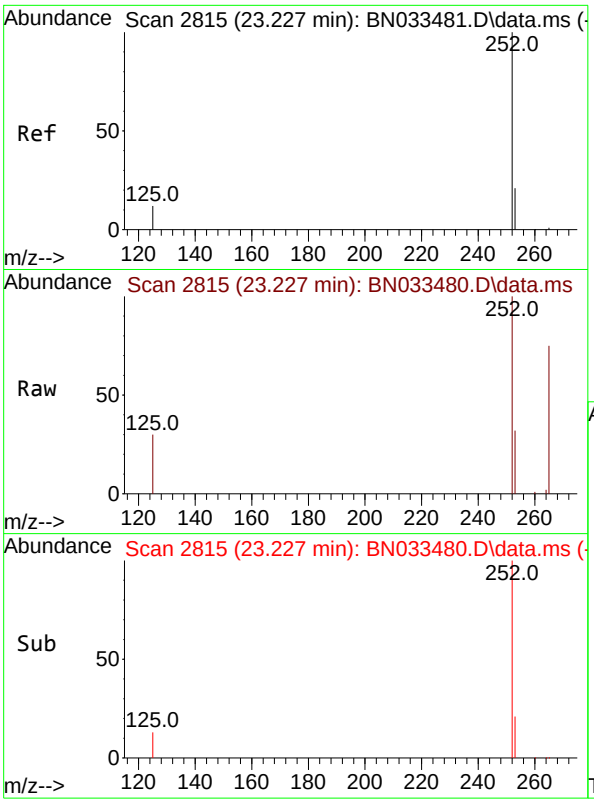


#38
Benzo(k)fluoranthene
Concen: 0.184 ng m
RT: 22.721 min Scan# 2642
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:252 Resp: 10527

Ion	Ratio	Lower	Upper
252	100		
253	29.0	19.8	29.8
125	25.6	15.8	23.8#

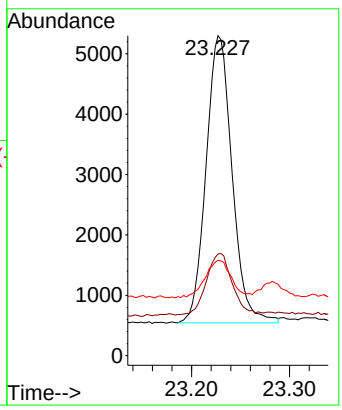




#39
Benzo(a)pyrene
Concen: 0.184 ng
RT: 23.227 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:252 Resp: 877

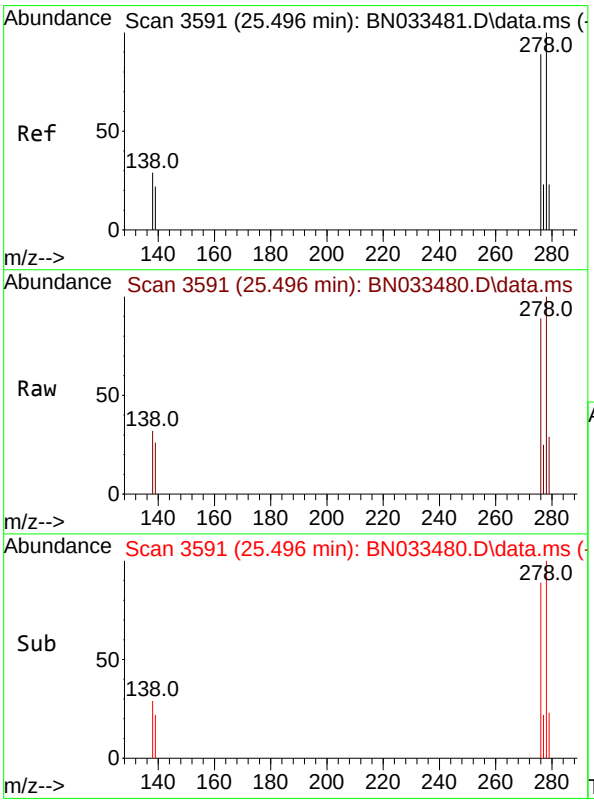
Ion	Ratio	Lower	Upper
252	100		
253	31.8	21.5	32.3
125	29.9	17.0	25.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

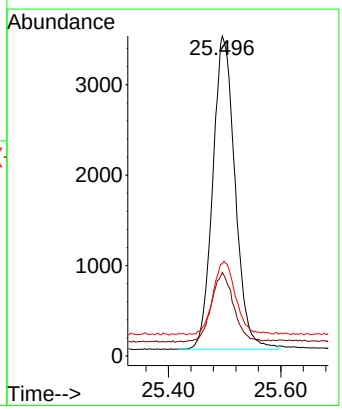
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

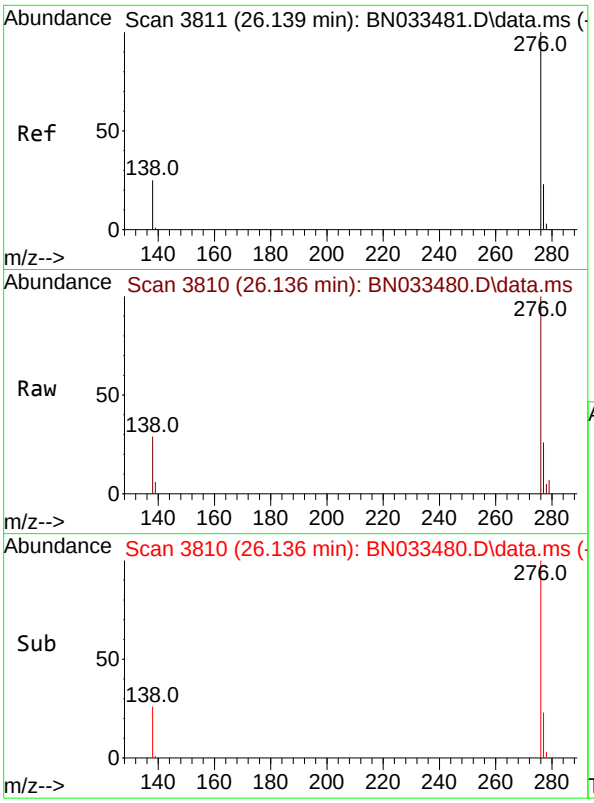


#40
Dibenzo(a,h)anthracene
Concen: 0.193 ng
RT: 25.496 min Scan# 3591
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:278 Resp: 9553

Ion	Ratio	Lower	Upper
278	100		
139	26.1	19.1	28.7
279	28.8	21.0	31.4

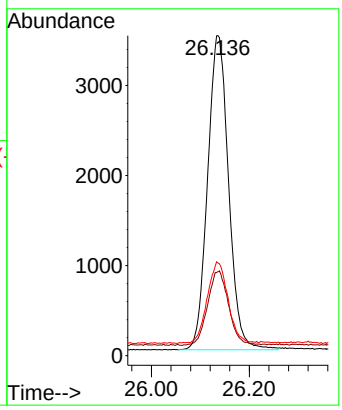




#41
Benzo(g,h,i)perylene
Concen: 0.190 ng
RT: 26.136 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:276 Resp: 1036

Ion	Ratio	Lower	Upper
276	100		
277	26.2	19.7	29.5
138	29.0	21.8	32.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033481.D
Acq On : 19 Aug 2024 17:28
Operator : MA/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Aug 19 23:22:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.559	152	12893	0.400	ng		0.00
7) Naphthalene-d8	10.314	136	24390	0.400	ng		0.00
13) Acenaphthene-d10	14.189	164	12011	0.400	ng		0.00
19) Phenanthrene-d10	16.942	188	24497	0.400	ng		0.00
29) Chrysene-d12	21.148	240	16119	0.400	ng		0.00
35) Perylene-d12	23.320	264	15903	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.191	112	16332	0.450	ng		0.00
5) Phenol-d6	6.743	99	17540	0.370	ng		0.00
8) Nitrobenzene-d5	8.691	82	7402	0.401	ng		0.00
11) 2-Methylnaphthalene-d10	11.915	152	12006	0.327	ng		0.00
14) 2,4,6-Tribromophenol	15.688	330	2219	0.362	ng		0.00
15) 2-Fluorobiphenyl	12.810	172	17864	0.367	ng		0.00
27) Fluoranthene-d10	18.984	212	21323	0.332	ng		0.00
31) Terphenyl-d14	19.597	244	13894	0.447	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.190	88	4244	0.306	ng		100
3) n-Nitrosodimethylamine	3.479	42	5877	0.327	ng		100
6) bis(2-Chloroethyl)ether	6.996	93	9709	0.263	ng		100
9) Naphthalene	10.368	128	23095	0.349	ng		100
10) Hexachlorobutadiene	10.667	225	4688	0.369	ng	#	100
12) 2-Methylnaphthalene	11.990	142	14284	0.323	ng		100
16) Acenaphthylene	13.911	152	18435	0.334	ng		100
17) Acenaphthene	14.253	154	13259	0.349	ng		100
18) Fluorene	15.247	166	16584	0.334	ng		100
20) 4,6-Dinitro-2-methylph...	15.322	198	1253	0.410	ng		100
21) 4-Bromophenyl-phenylether	16.147	248	5430	0.372	ng		100
22) Hexachlorobenzene	16.247	284	6099	0.374	ng		100
23) Atrazine	16.420	200	4249	0.365	ng		100
24) Pentachlorophenol	16.594	266	2368	0.354	ng		100
25) Phenanthrene	16.979	178	25297	0.361	ng		100
26) Anthracene	17.066	178	21458	0.347	ng		100
28) Fluoranthene	19.012	202	27103	0.319	ng		100
30) Pyrene	19.374	202	27468	0.423	ng		100
32) Benzo(a)anthracene	21.130	228	21232	0.355	ng		100
33) Chrysene	21.184	228	21457	0.360	ng		100
34) Bis(2-ethylhexyl)phtha...	21.095	149	13125	0.459	ng		98
36) Indeno(1,2,3-cd)pyrene	25.484	276	24410	0.370	ng		100
37) Benzo(b)fluoranthene	22.677	252	21250	0.358	ng		100
38) Benzo(k)fluoranthene	22.721	252	21063	0.350	ng		100
39) Benzo(a)pyrene	23.227	252	17428	0.348	ng		100
40) Dibenzo(a,h)anthracene	25.496	278	19569	0.375	ng		100
41) Benzo(g,h,i)perylene	26.139	276	20604	0.359	ng		100

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

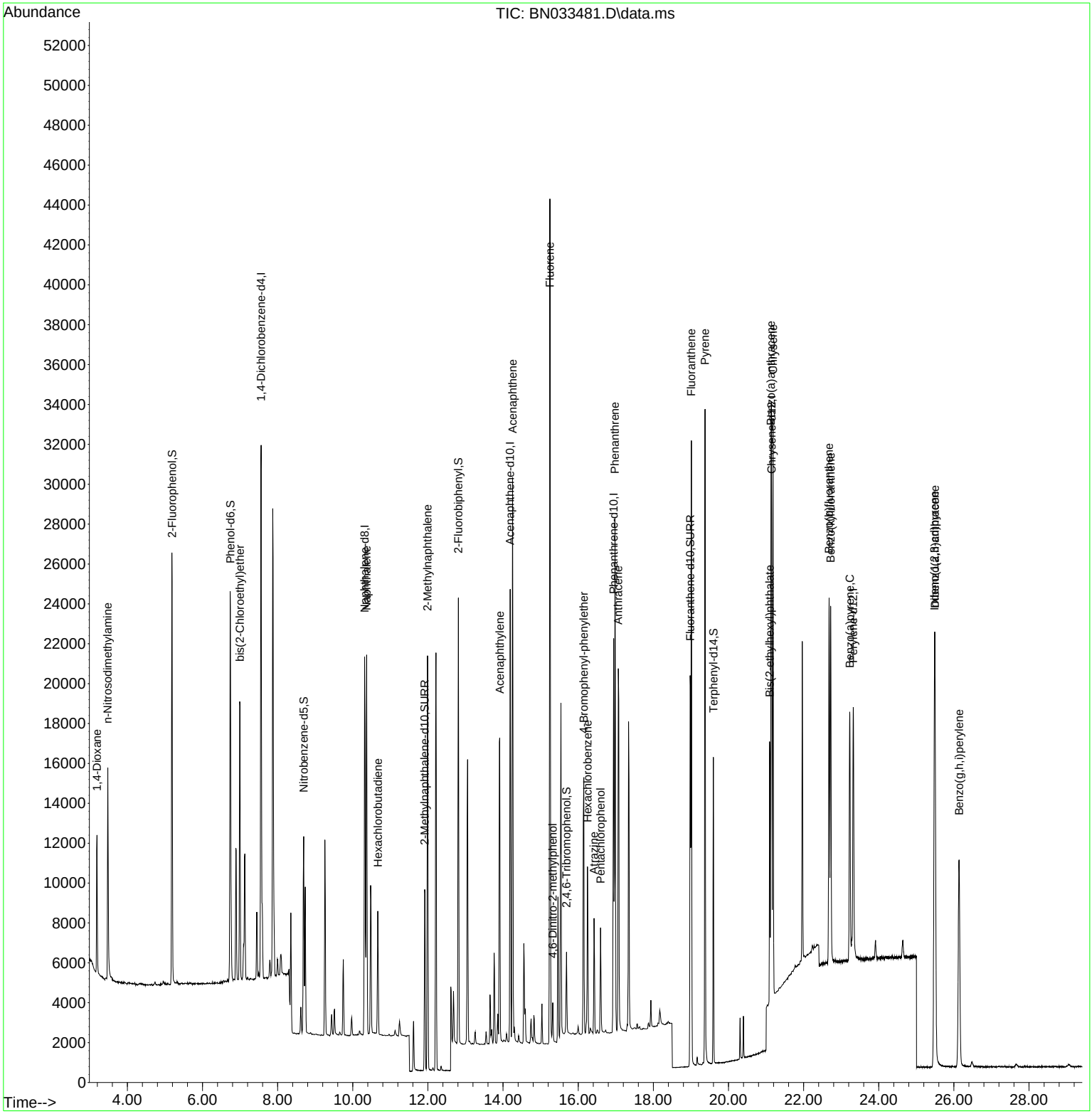
Quantitation Report (QT Reviewed)

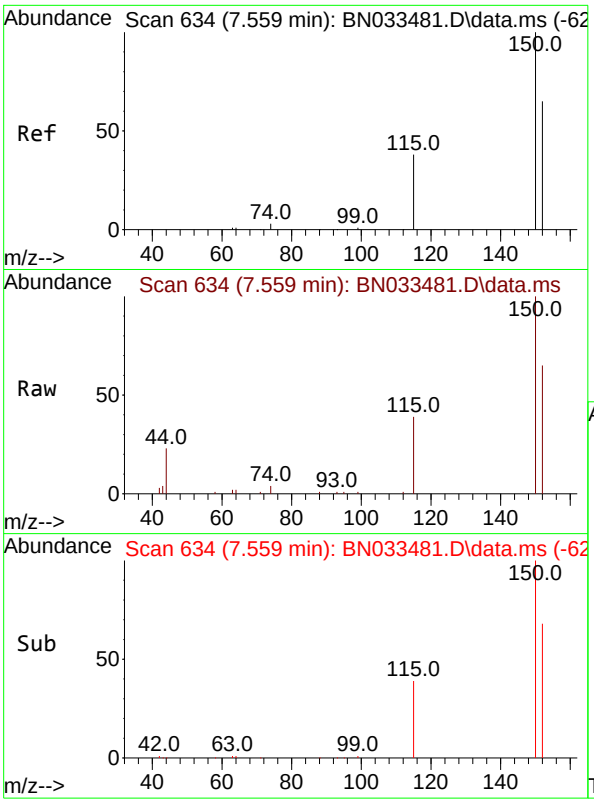
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033481.D
Acq On : 19 Aug 2024 17:28
Operator : MA/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Aug 19 23:22:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration



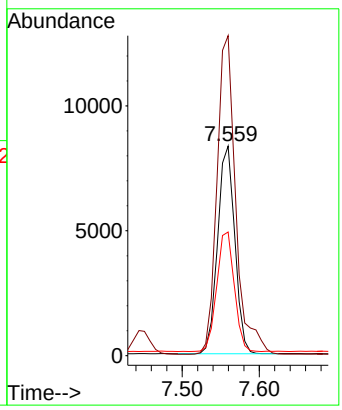


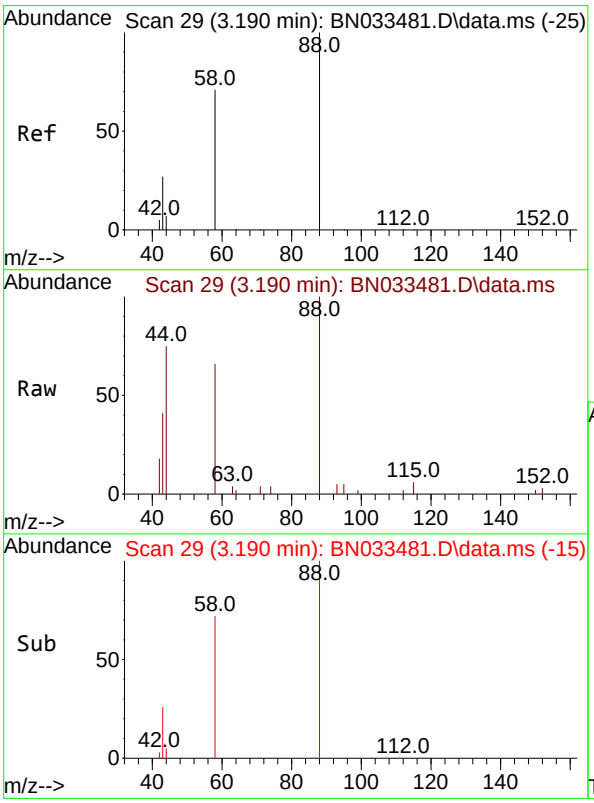
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 12893

Ion	Ratio	Lower	Upper
152	100		
150	152.7	122.2	183.2
115	59.0	47.2	70.8

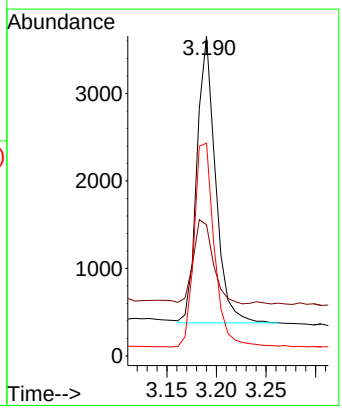


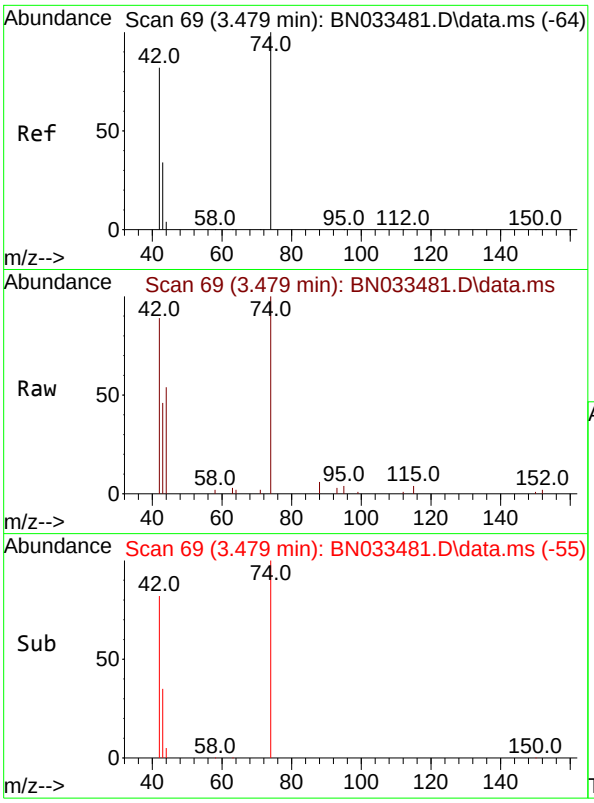


#2
1,4-Dioxane
Concen: 0.306 ng
RT: 3.190 min Scan# 29
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion: 88 Resp: 4244

Ion	Ratio	Lower	Upper
88	100		
43	31.2	25.0	37.4
58	78.1	62.5	93.7



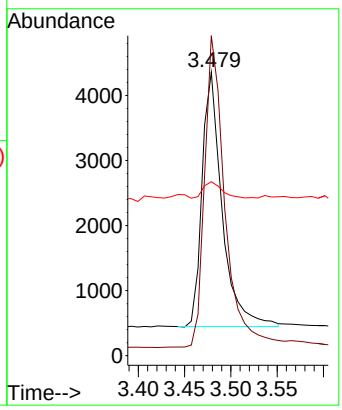


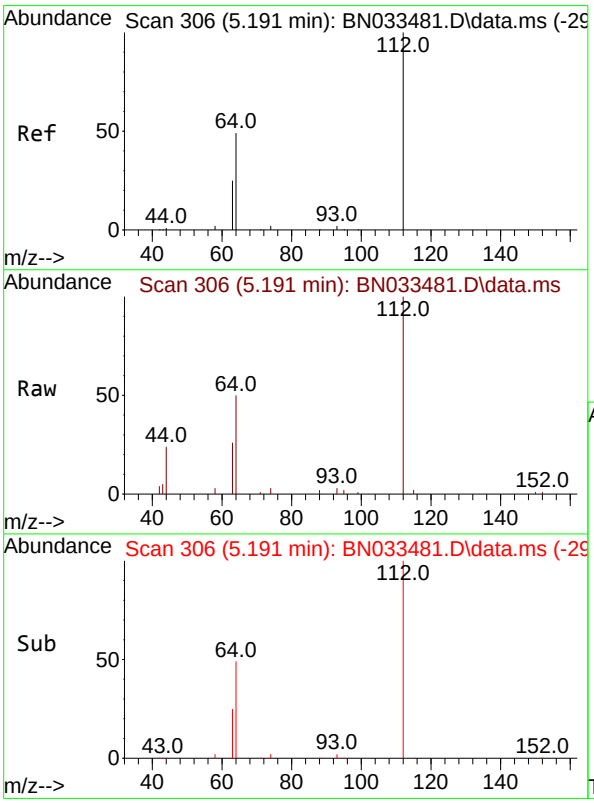
#3
n-Nitrosodimethylamine
Concen: 0.327 ng
RT: 3.479 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 5877

Ion	Ratio	Lower	Upper
42	100		
74	125.2	100.2	150.2
44	6.6	5.3	7.9

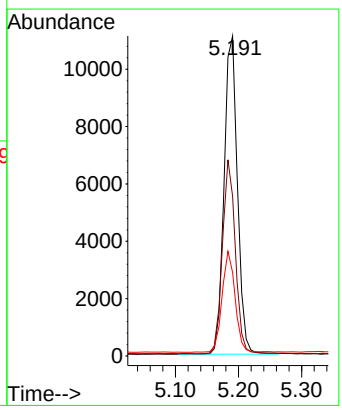


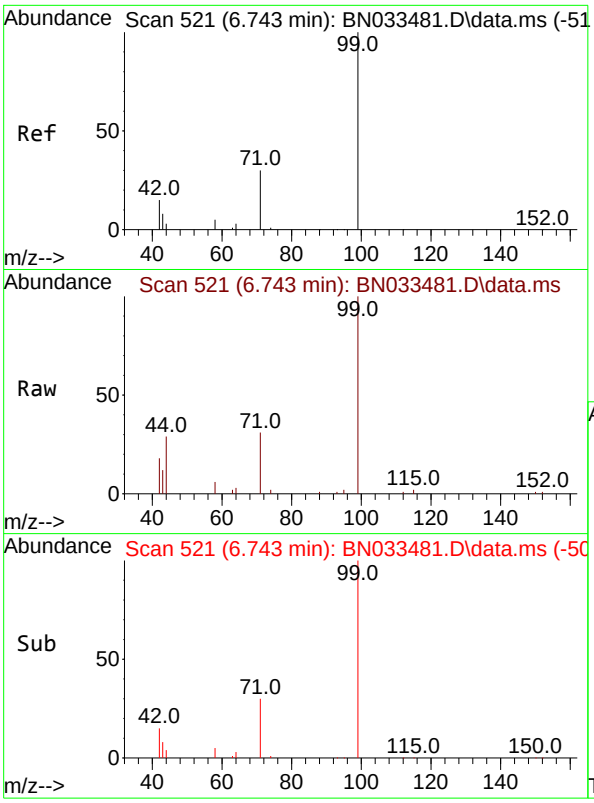


#4
2-Fluorophenol
Concen: 0.450 ng
RT: 5.191 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:112 Resp: 16332

Ion	Ratio	Lower	Upper
112	100		
64	59.0	47.1	70.7
63	31.0	24.9	37.3



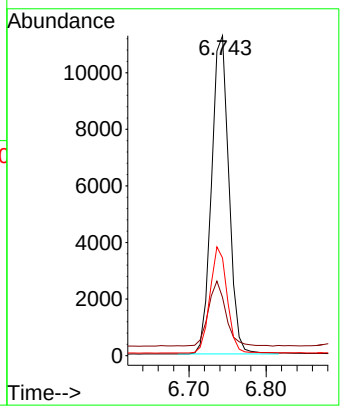


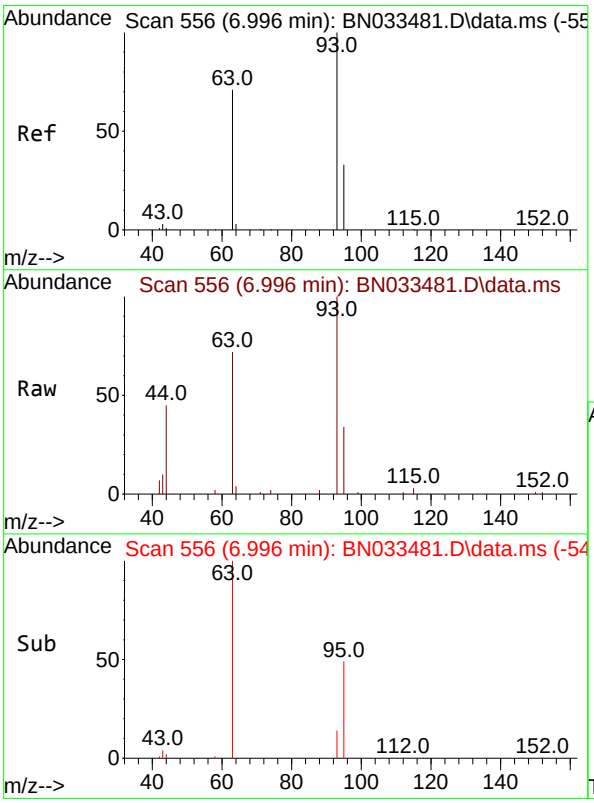
#5
Phenol-d6
Concen: 0.370 ng
RT: 6.743 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 17540

Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.6	24.8
71	32.9	26.2	39.4

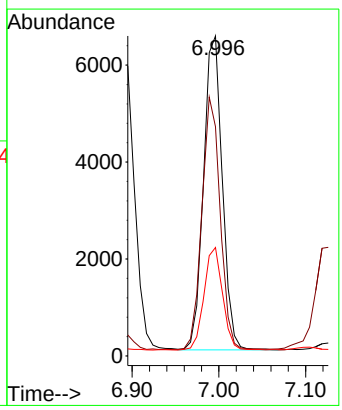


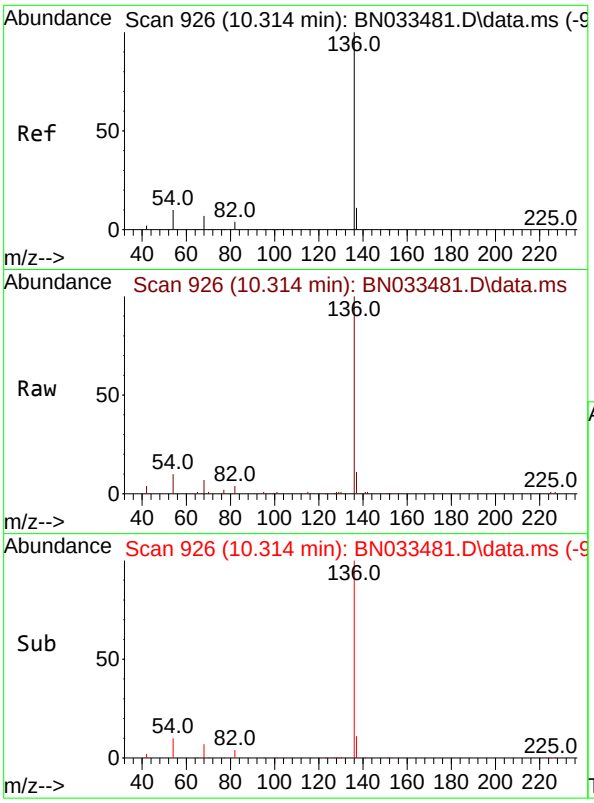


#6
bis(2-Chloroethyl)ether
Concen: 0.263 ng
RT: 6.996 min Scan# 556
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion: 93 Resp: 9709

Ion	Ratio	Lower	Upper
93	100		
63	78.6	63.0	94.4
95	32.4	26.0	39.0



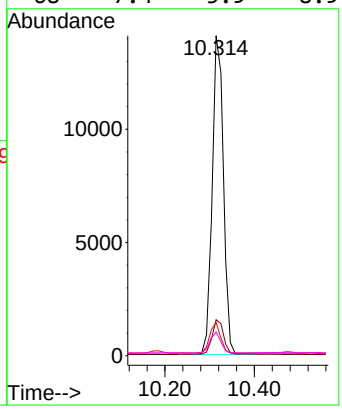


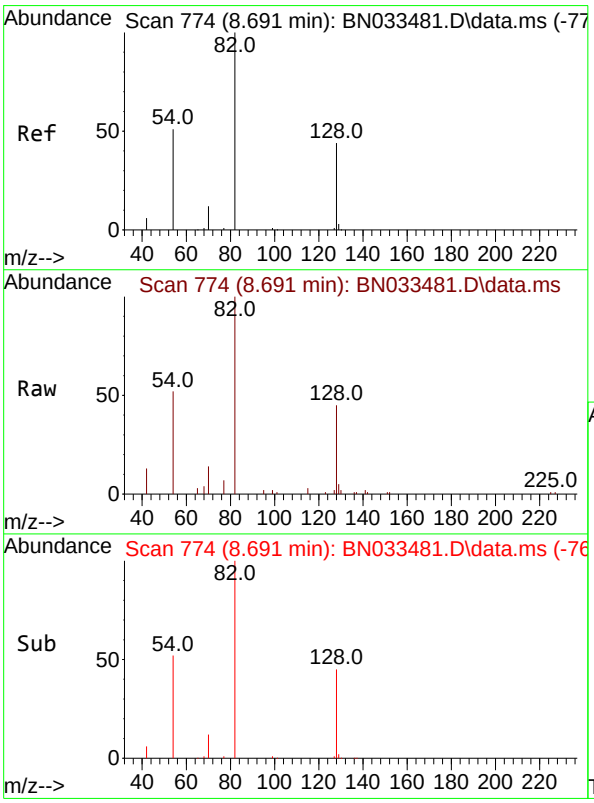
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 24390

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	10.4	8.3	12.5
68	7.4	5.9	8.9

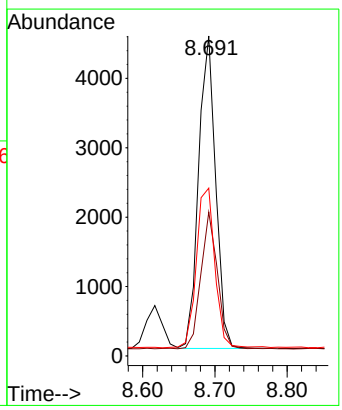


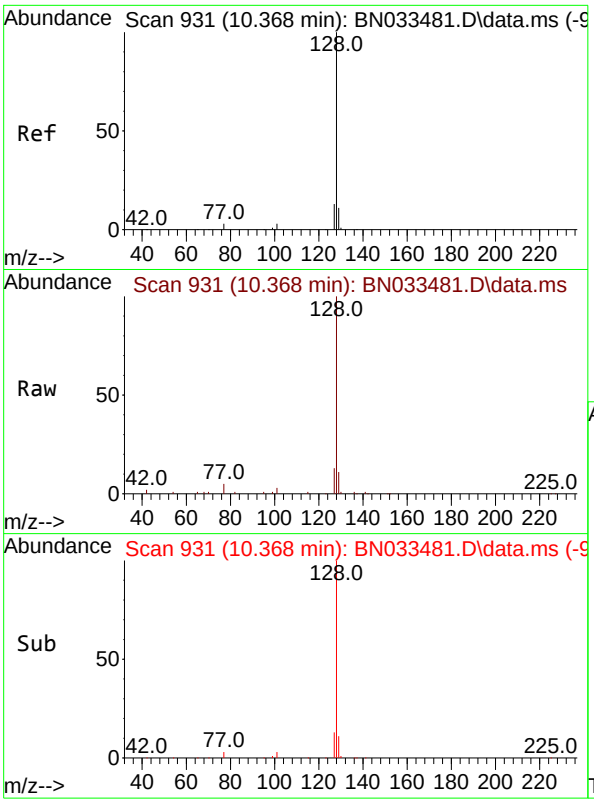


#8
Nitrobenzene-d5
Concen: 0.401 ng
RT: 8.691 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion: 82 Resp: 7402

Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.0	54.0
54	52.5	42.0	63.0



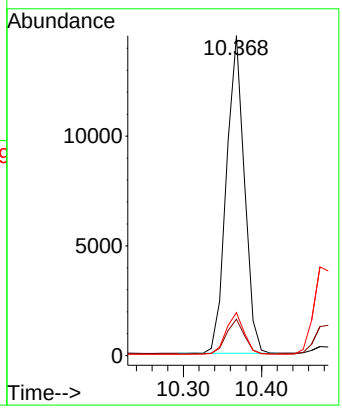


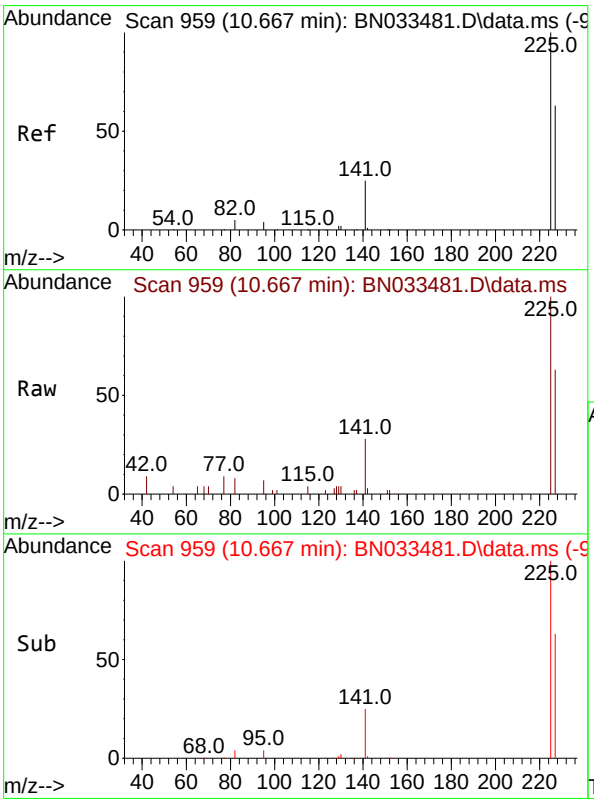
#9
Naphthalene
Concen: 0.349 ng
RT: 10.368 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 23095

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.4	10.7	16.1

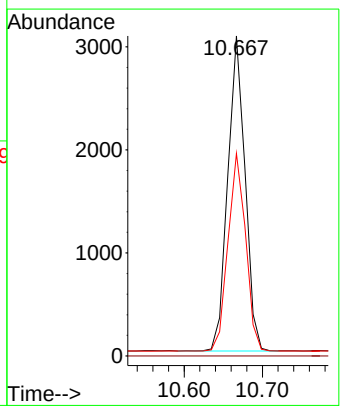


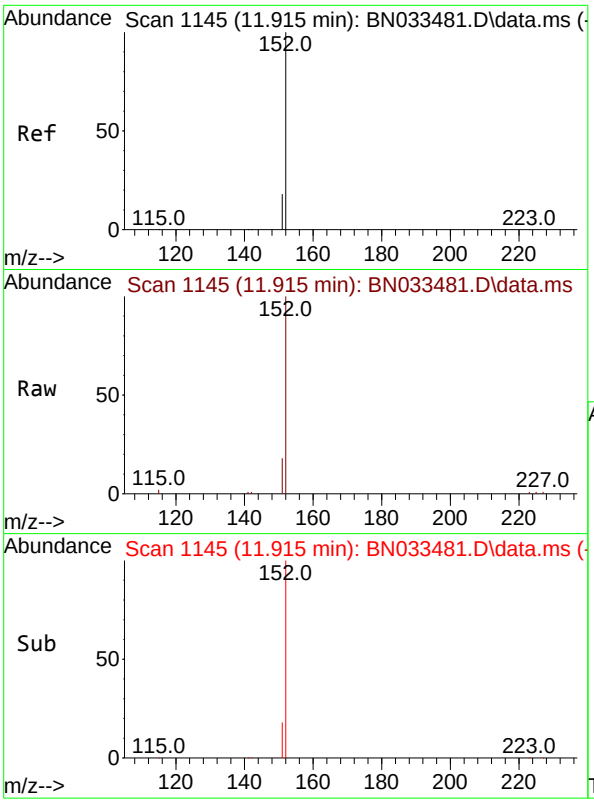


#10
Hexachlorobutadiene
Concen: 0.369 ng
RT: 10.667 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:225 Resp: 4688

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.2	76.8



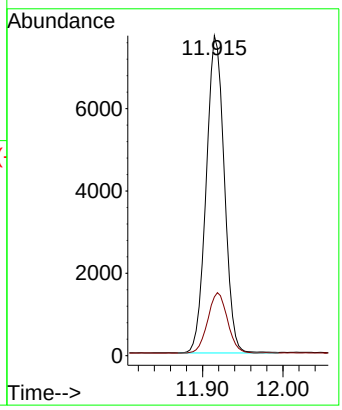


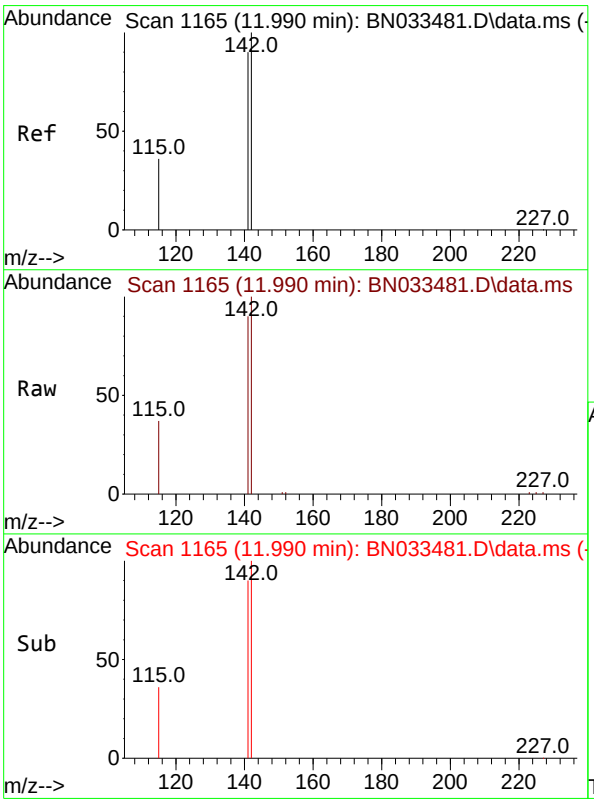
#11
2-Methylnaphthalene-d10
Concen: 0.327 ng
RT: 11.915 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 12006

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

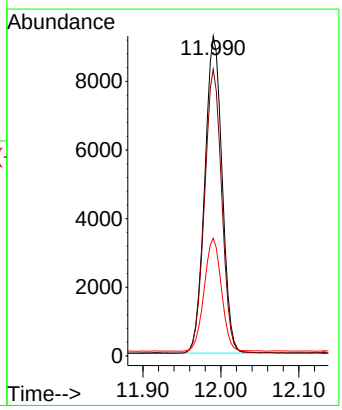


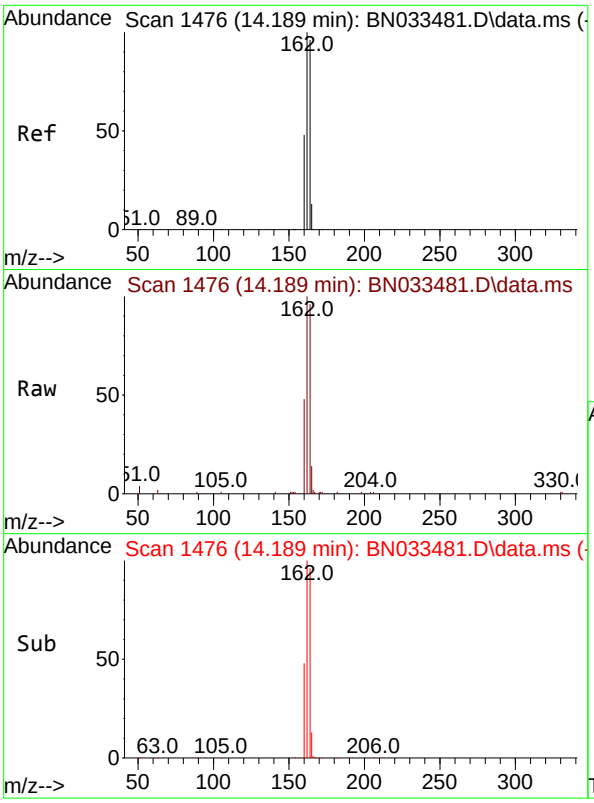


#12
2-Methylnaphthalene
Concen: 0.323 ng
RT: 11.990 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:142 Resp: 14284

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.7	107.5
115	36.8	29.4	44.2



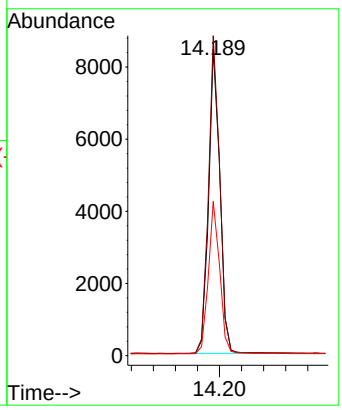


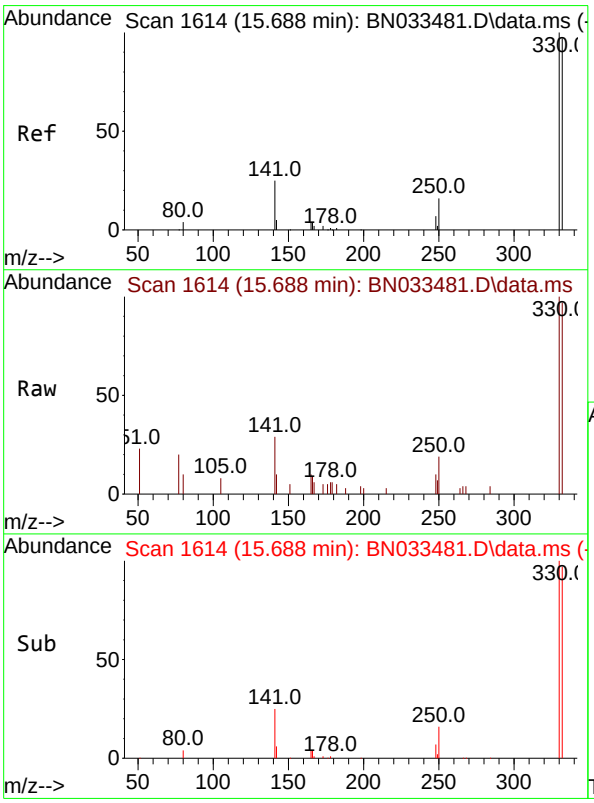
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 12011

Ion	Ratio	Lower	Upper
164	100		
162	104.4	83.5	125.3
160	50.3	40.2	60.4

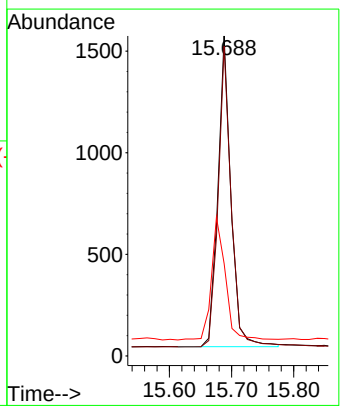


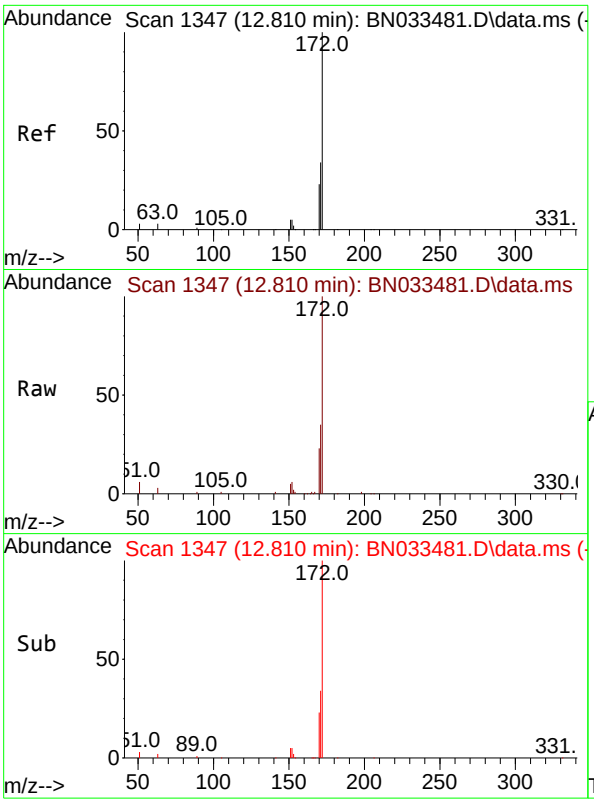


#14
2,4,6-Tribromophenol
Concen: 0.362 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:330 Resp: 2219

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.5	116.3
141	42.4	33.9	50.9



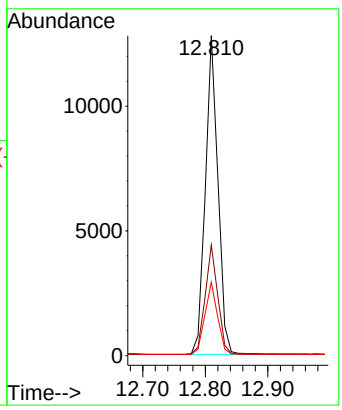


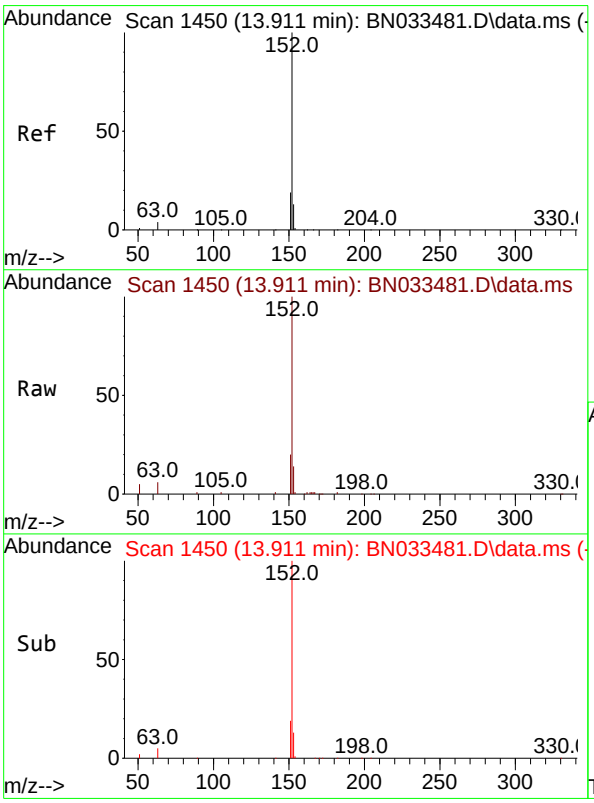
#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 17864

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.7	41.5
170	22.9	18.3	27.5

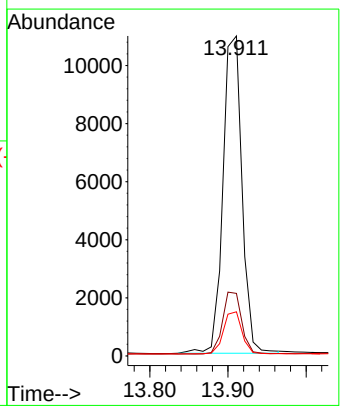


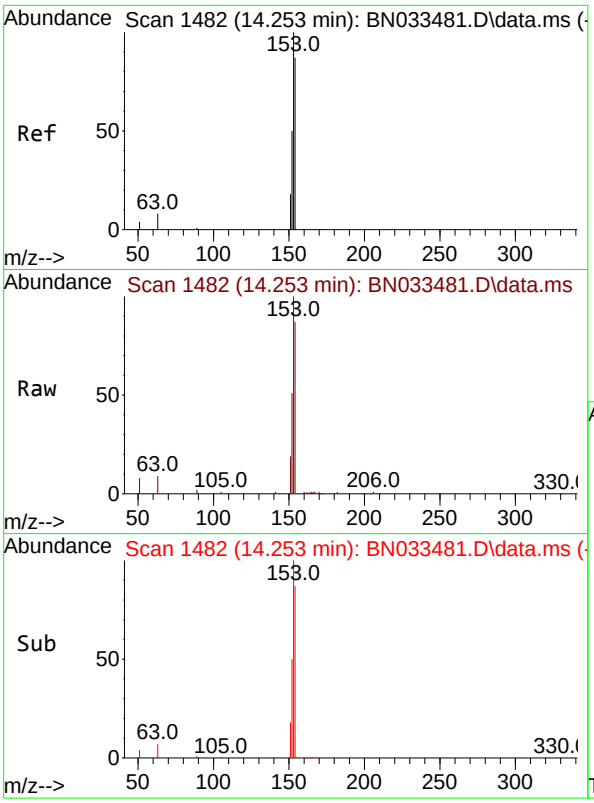


#16
Acenaphthylene
Concen: 0.334 ng
RT: 13.911 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:152 Resp: 18435

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.7	23.5
153	12.9	10.3	15.5



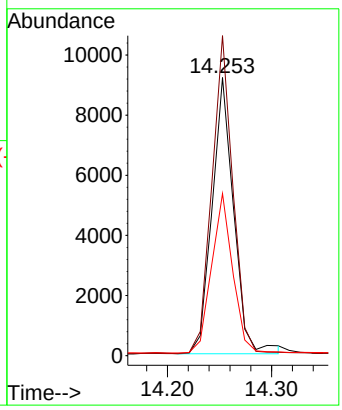


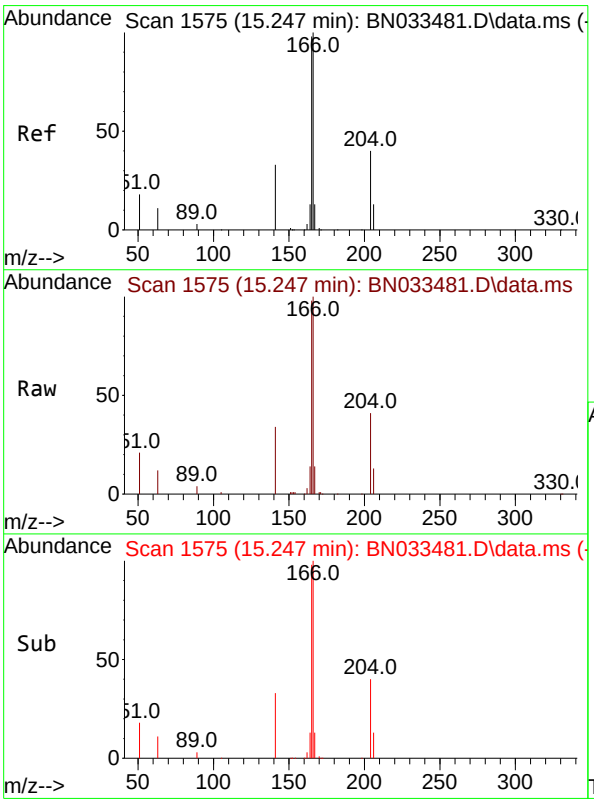
#17
Acenaphthene
Concen: 0.349 ng
RT: 14.253 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 13259

Ion	Ratio	Lower	Upper
154	100		
153	111.3	89.0	133.6
152	56.5	45.2	67.8

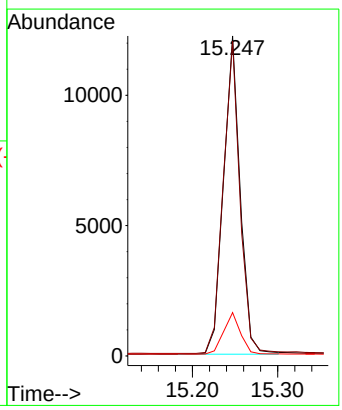


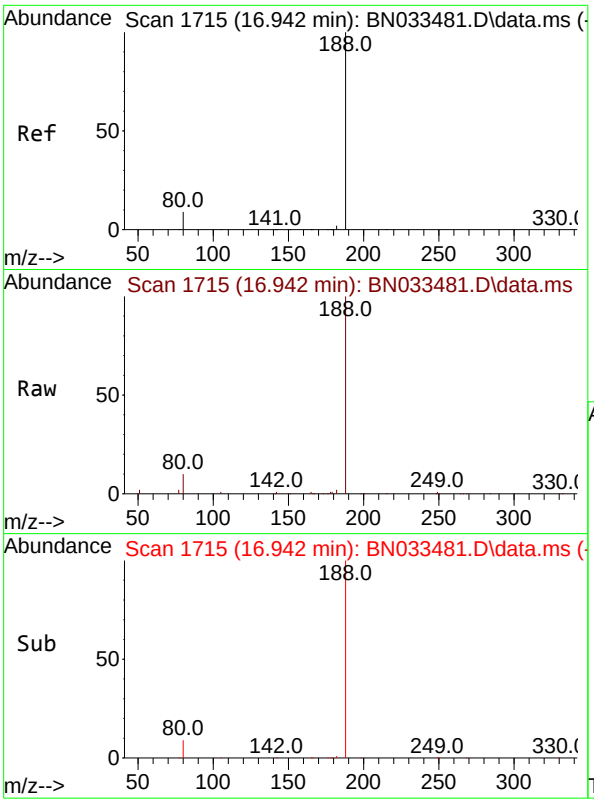


#18
Fluorene
Concen: 0.334 ng
RT: 15.247 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:166 Resp: 16584

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.2	117.4
167	13.3	10.6	16.0



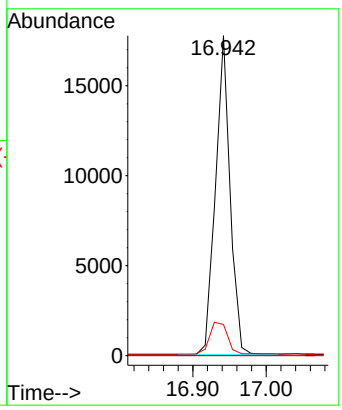


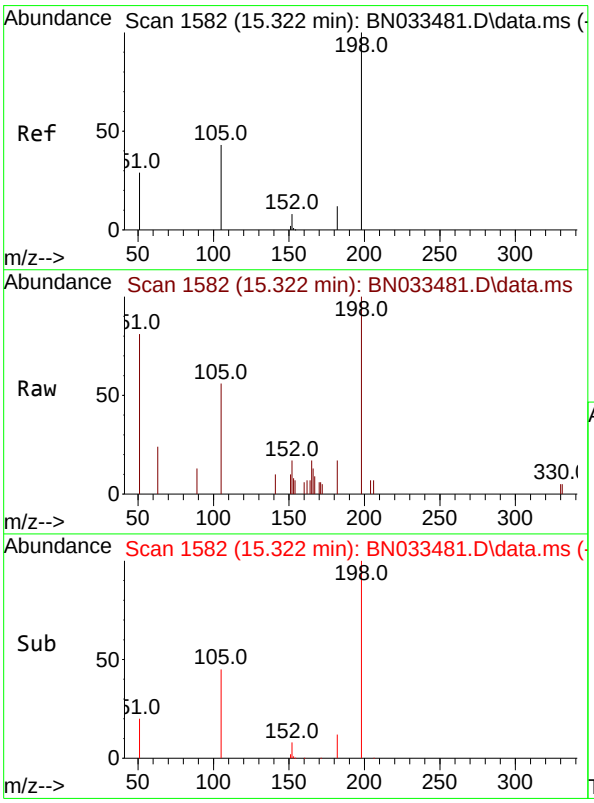
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 24497

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.8	7.8	11.8

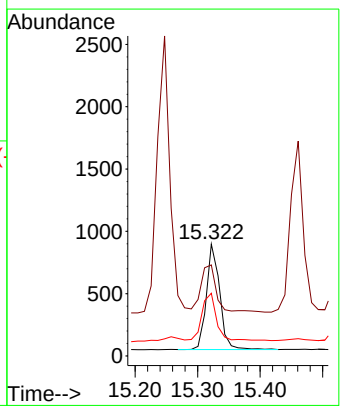


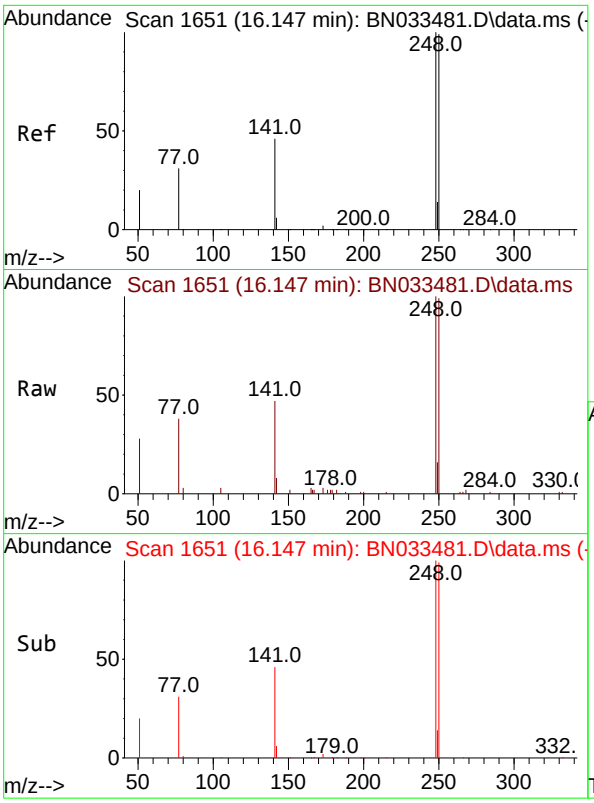


#20
4,6-Dinitro-2-methylphenol
Concen: 0.410 ng
RT: 15.322 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:198 Resp: 1253

Ion	Ratio	Lower	Upper
198	100		
51	81.4	65.1	97.7
105	56.0	44.8	67.2



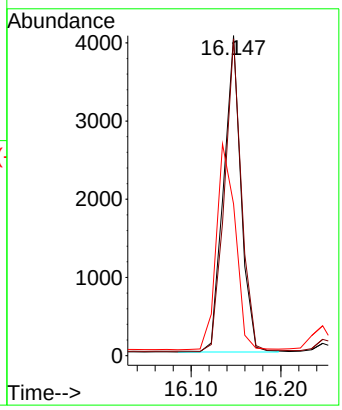


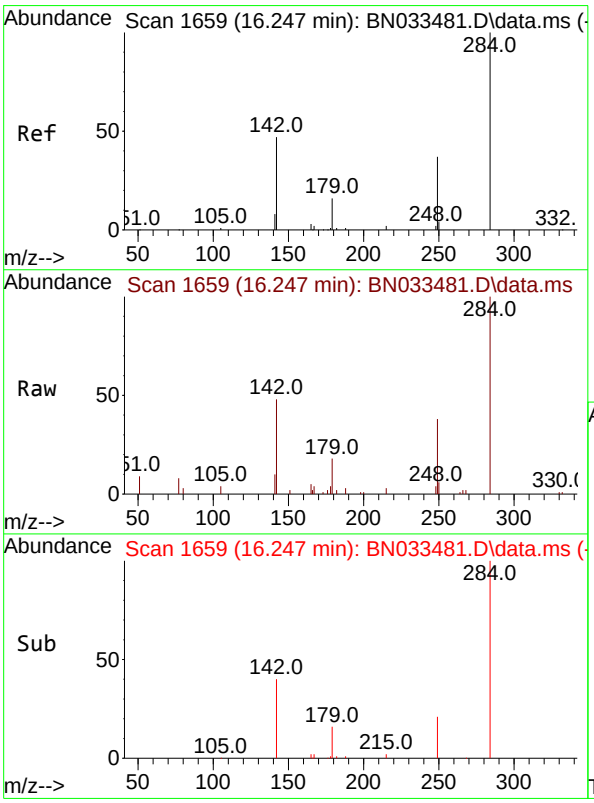
#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 5430

Ion	Ratio	Lower	Upper
248	100		
250	99.0	79.2	118.8
141	47.4	37.9	56.9

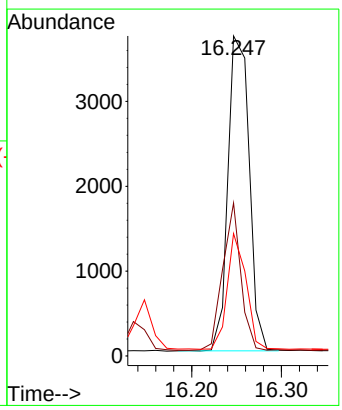


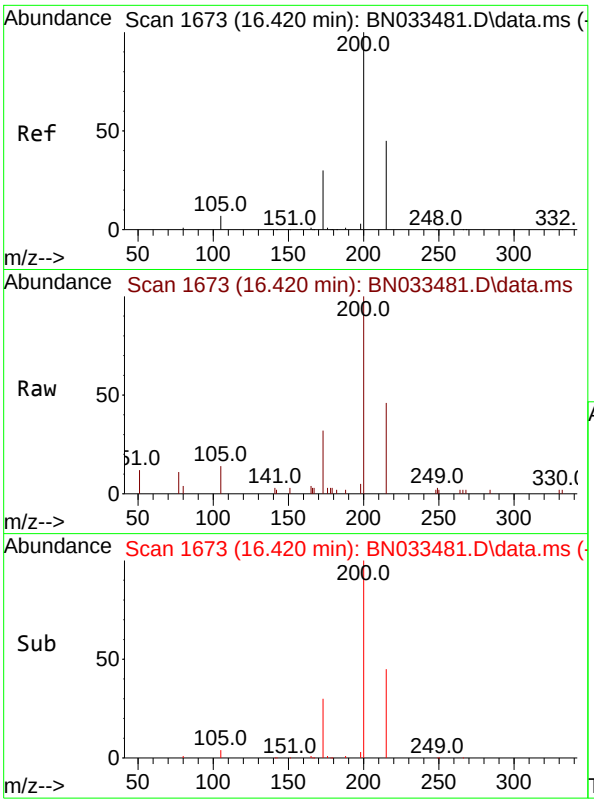


#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:284 Resp: 6099

Ion	Ratio	Lower	Upper
284	100		
142	39.7	31.8	47.6
249	32.5	26.0	39.0



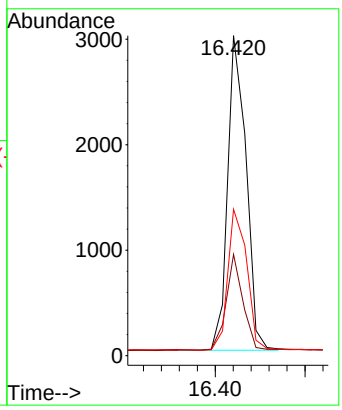


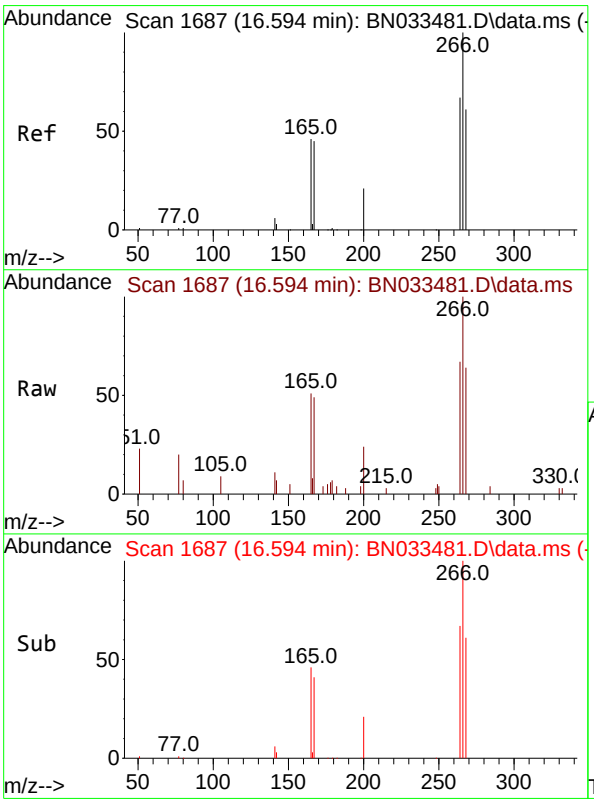
#23
Atrazine
Concen: 0.365 ng
RT: 16.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 4249

Ion	Ratio	Lower	Upper
200	100		
173	31.6	25.3	37.9
215	45.7	36.6	54.8

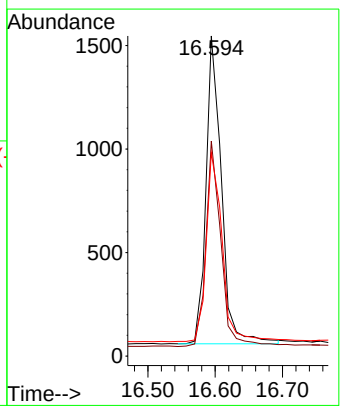


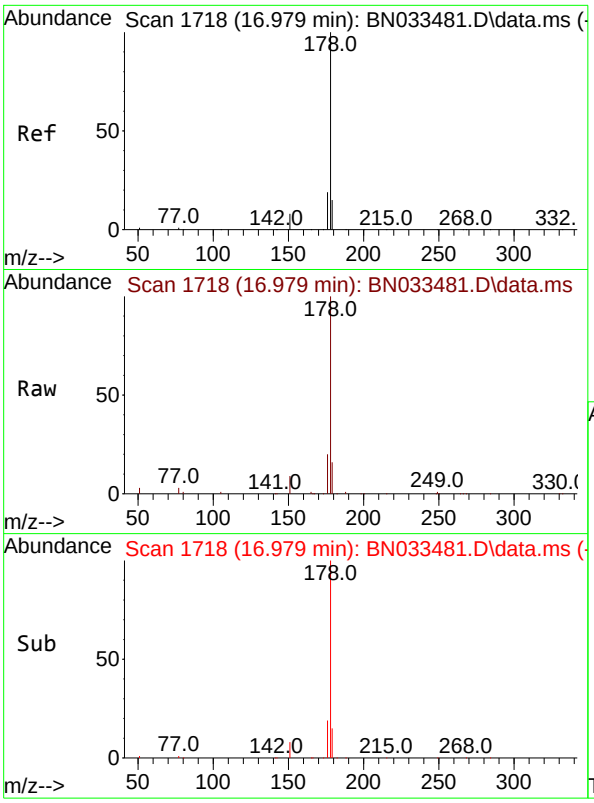


#24
Pentachlorophenol
Concen: 0.354 ng
RT: 16.594 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:266 Resp: 2368

Ion	Ratio	Lower	Upper
266	100		
264	64.9	51.9	77.9
268	63.7	51.0	76.4



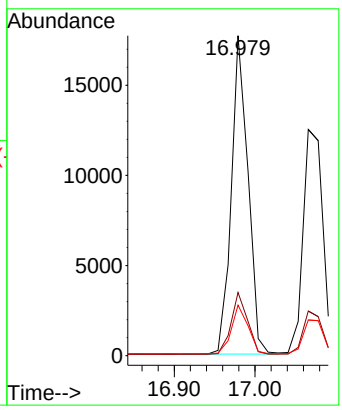


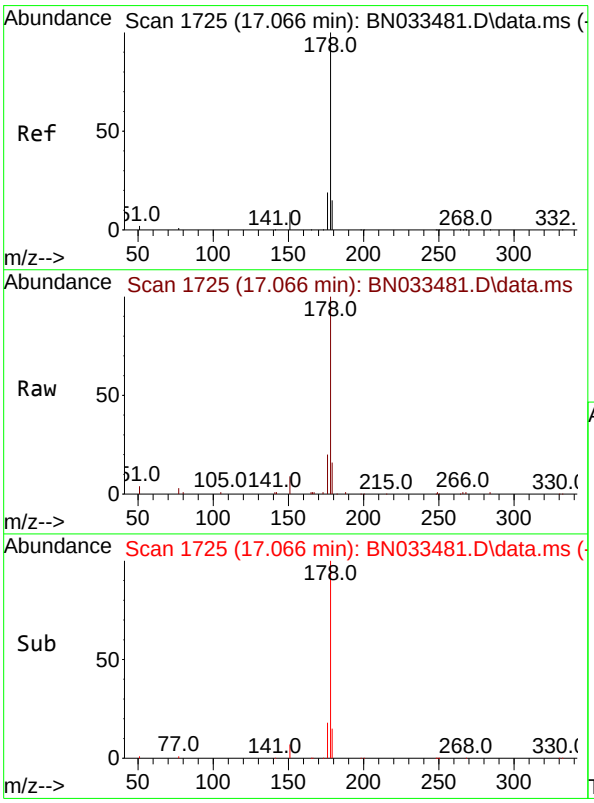
#25
Phenanthrene
Concen: 0.361 ng
RT: 16.979 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 25297

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.4	12.3	18.5

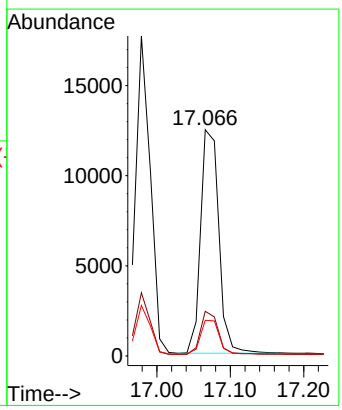


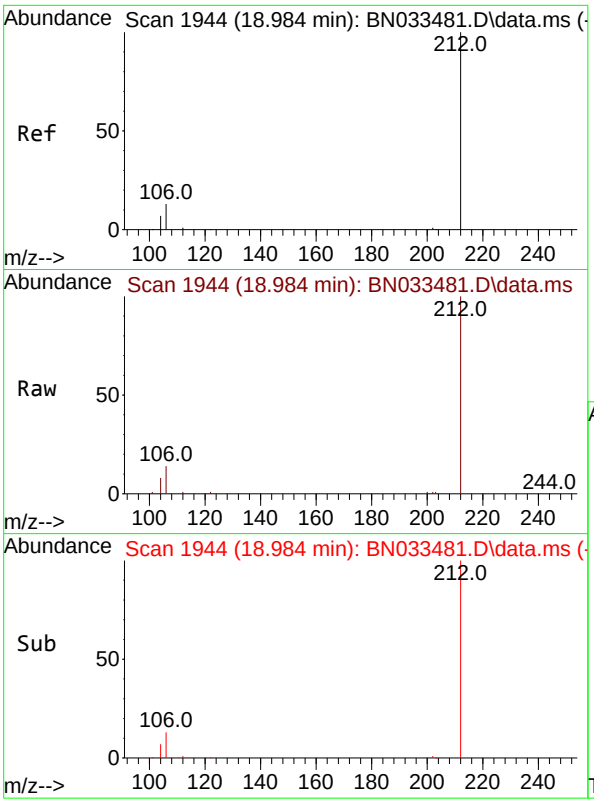


#26
Anthracene
Concen: 0.347 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:178 Resp: 21458

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.5	12.4	18.6



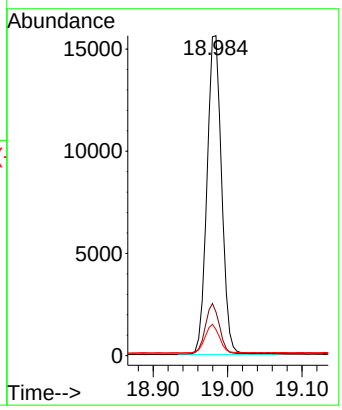


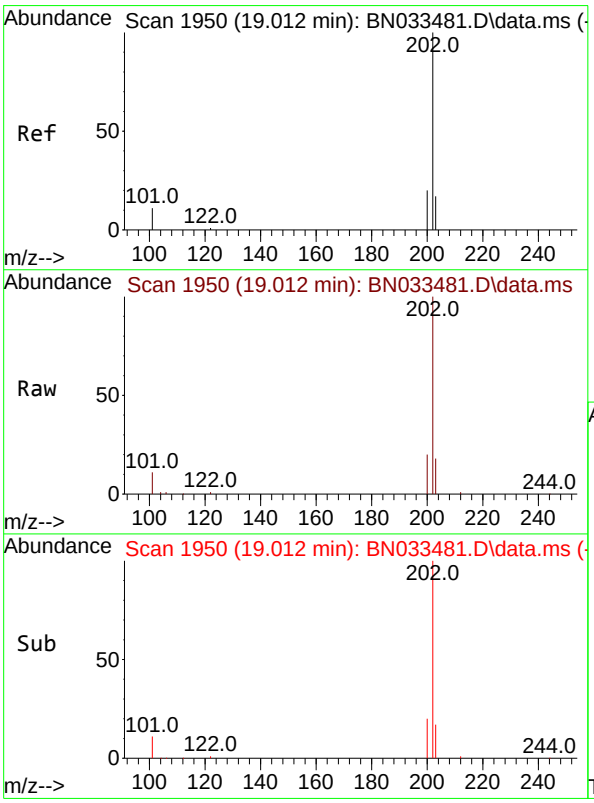
#27
Fluoranthene-d10
Concen: 0.332 ng
RT: 18.984 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 21323

Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.3	18.5
104	8.7	7.0	10.4

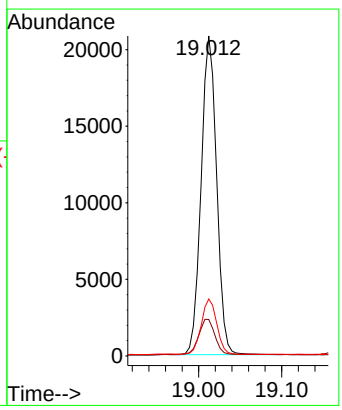


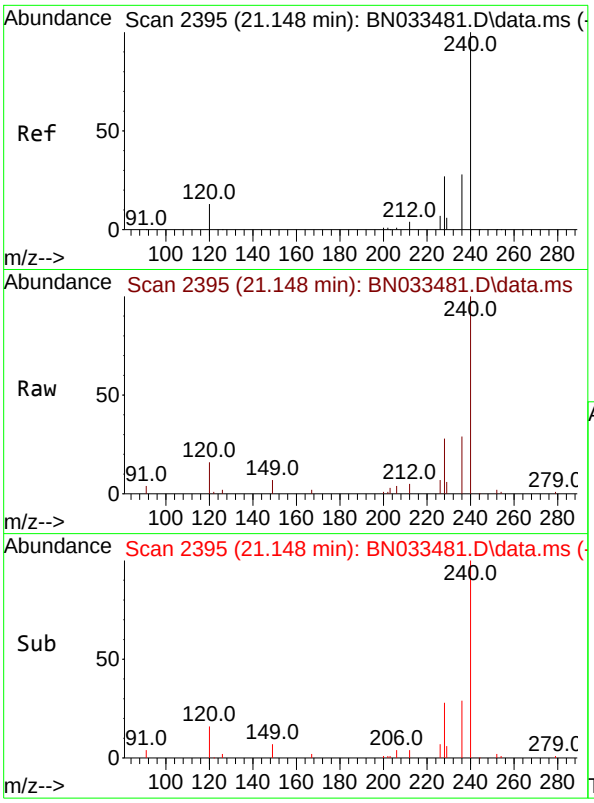


#28
Fluoranthene
Concen: 0.319 ng
RT: 19.012 min Scan# 1950
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:202 Resp: 27103

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.5	14.3
203	17.2	13.8	20.6



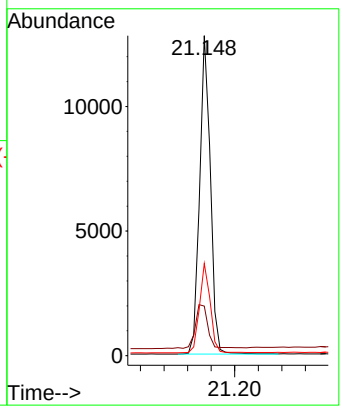


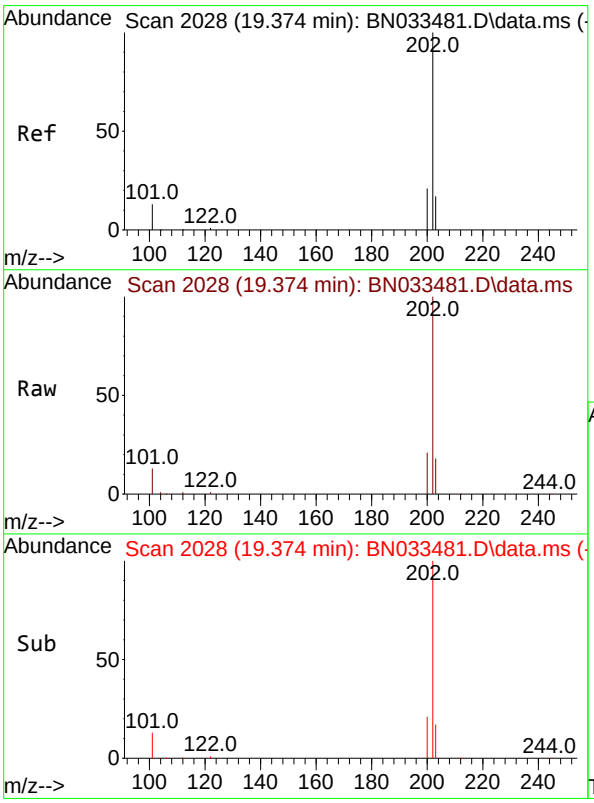
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 16119

Ion	Ratio	Lower	Upper
240	100		
120	15.5	12.4	18.6
236	28.8	23.0	34.6

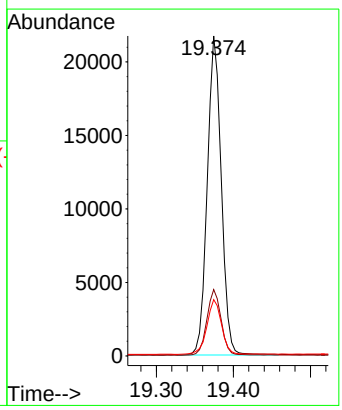


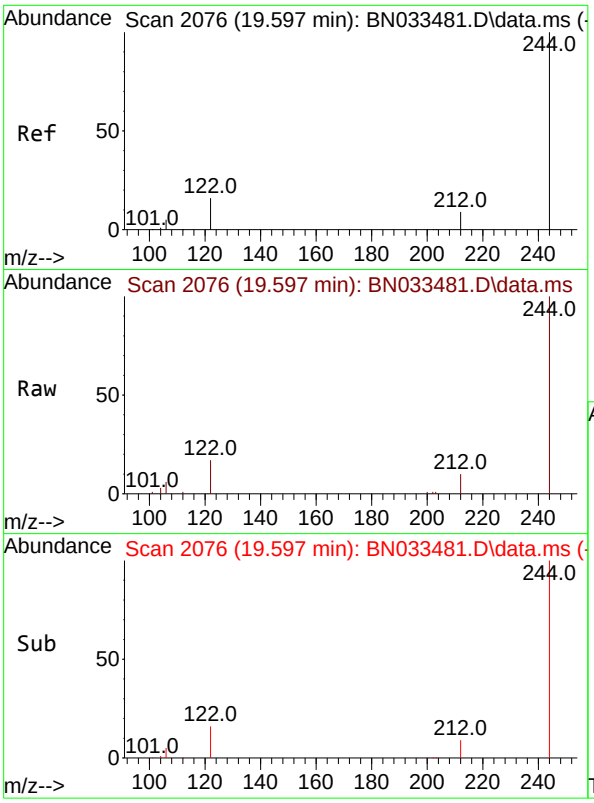


#30
Pyrene
Concen: 0.423 ng
RT: 19.374 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:202 Resp: 27468

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.6	24.8
203	17.8	14.2	21.4



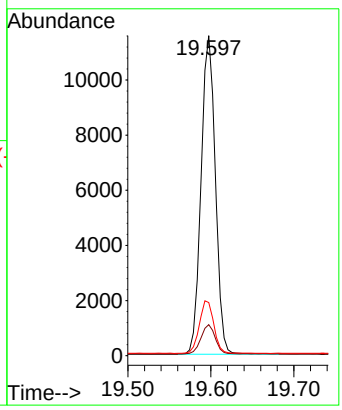


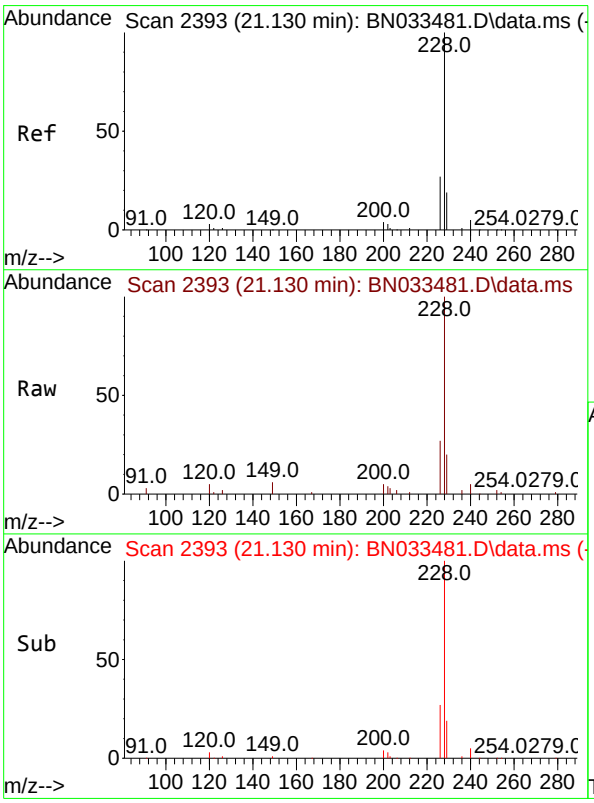
#31
Terphenyl-d14
Concen: 0.447 ng
RT: 19.597 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 13894

Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.8	11.6
122	16.6	13.3	19.9

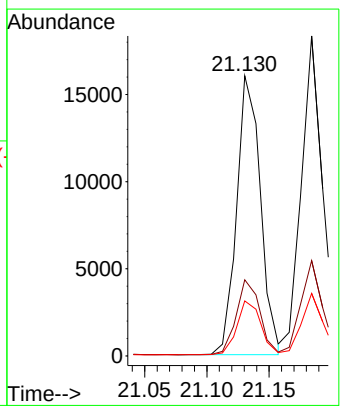


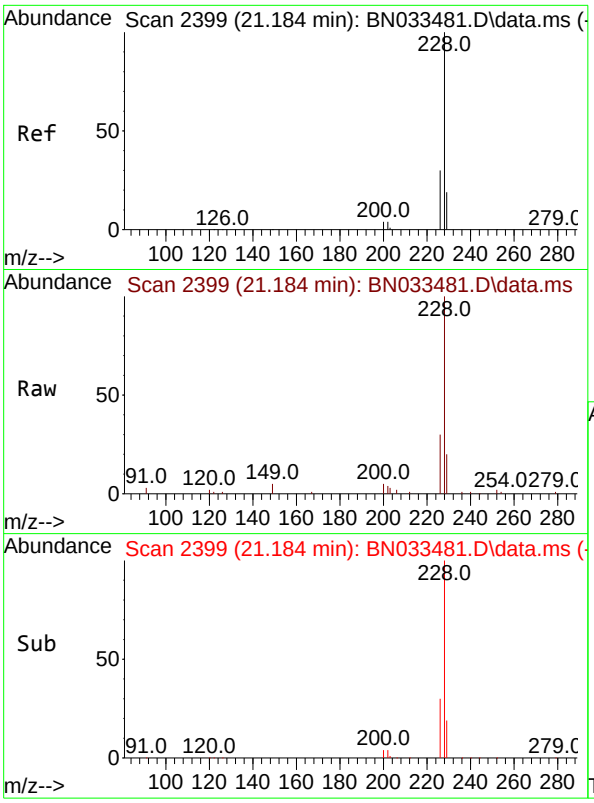


#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 21.130 min Scan# 2393
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:228 Resp: 21232

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.8	32.6
229	19.7	15.8	23.6



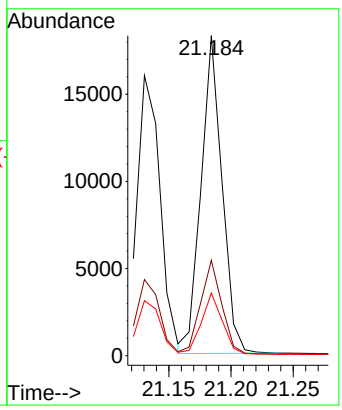


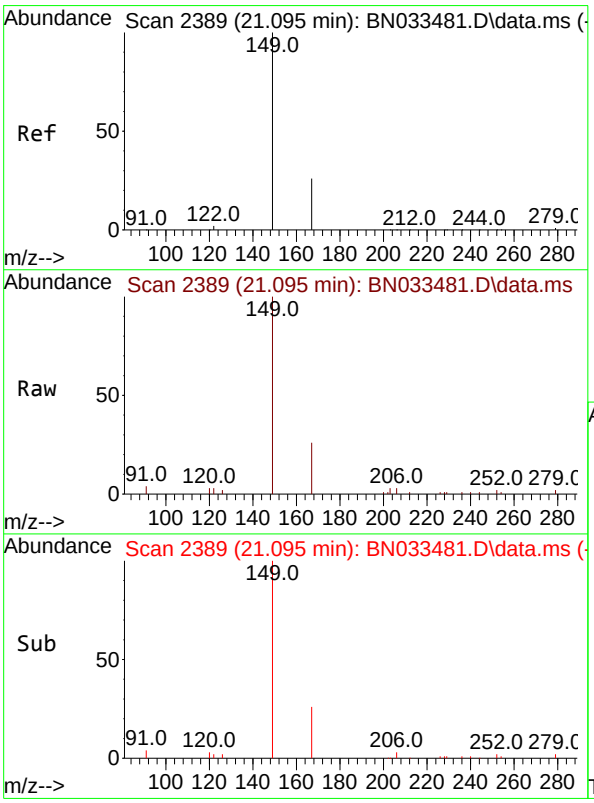
#33
Chrysene
Concen: 0.360 ng
RT: 21.184 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 21457

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.8
229	19.5	15.6	23.4

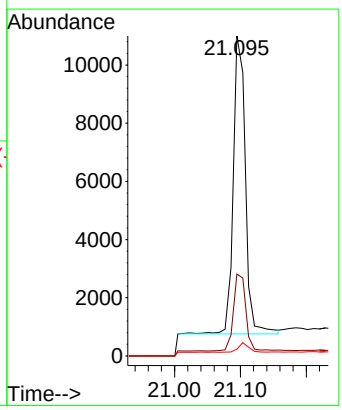


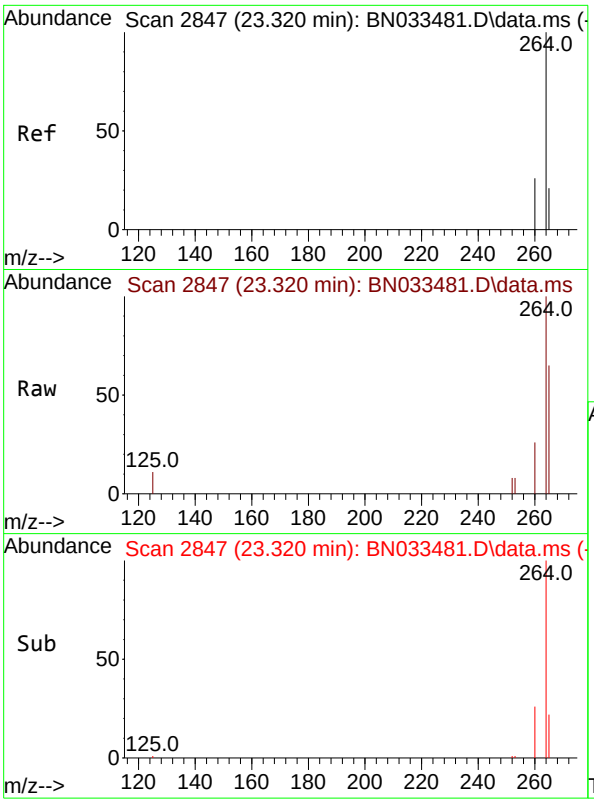


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.459 ng
RT: 21.095 min Scan# 2389
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:149 Resp: 13125

Ion	Ratio	Lower	Upper
149	100		
167	25.9	21.5	32.3
279	2.7	2.2	3.2



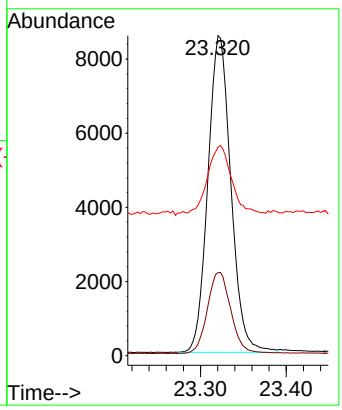


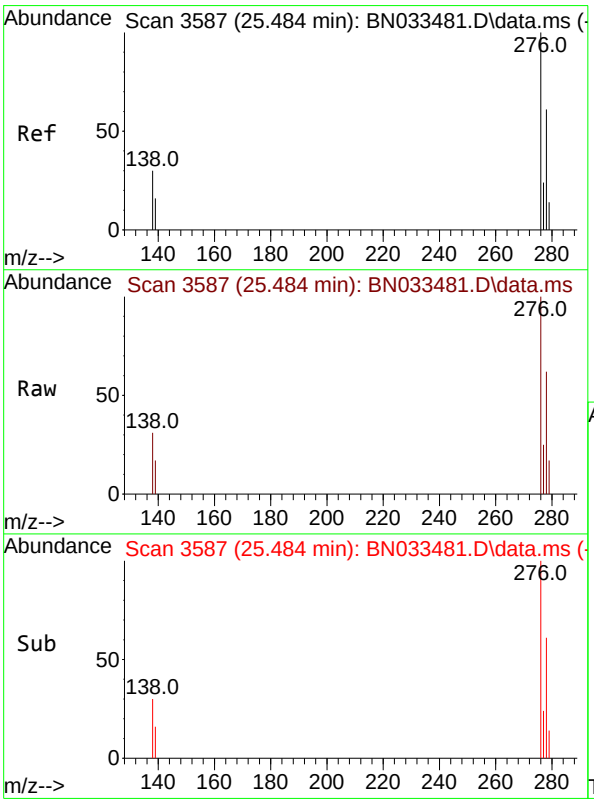
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.320 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 15903

Ion	Ratio	Lower	Upper
264	100		
260	26.0	20.8	31.2
265	65.2	52.2	78.2

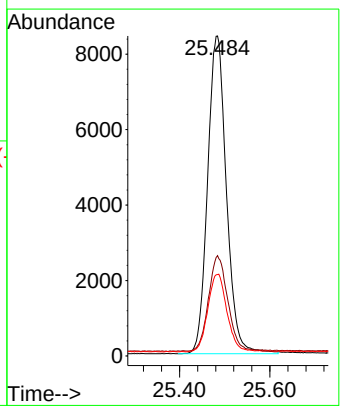


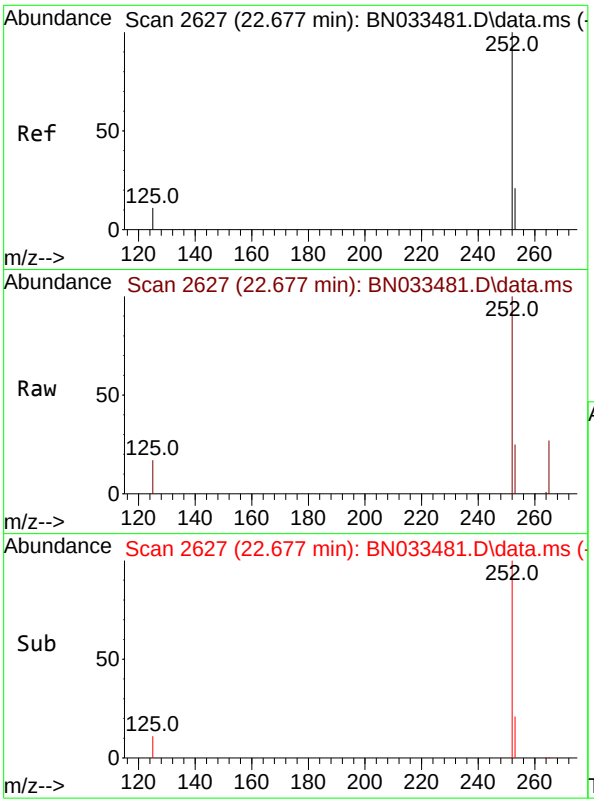


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.370 ng
RT: 25.484 min Scan# 3587
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:276 Resp: 24410

Ion	Ratio	Lower	Upper
276	100		
138	30.5	24.4	36.6
277	24.7	19.8	29.6



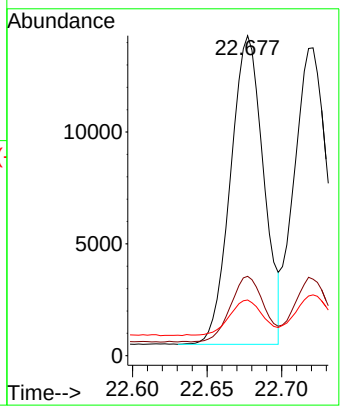


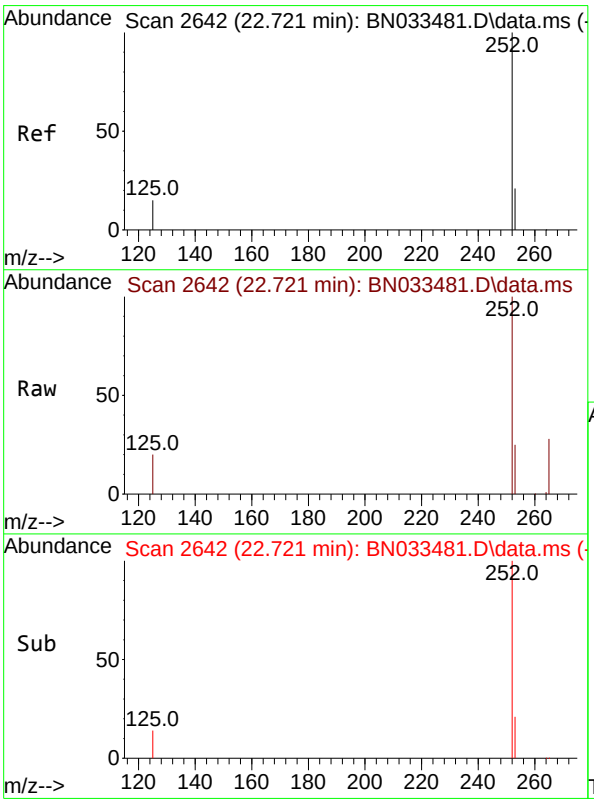
#37
Benzo(b)fluoranthene
Concen: 0.358 ng
RT: 22.677 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 21250

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.8	29.8
125	17.4	13.9	20.9

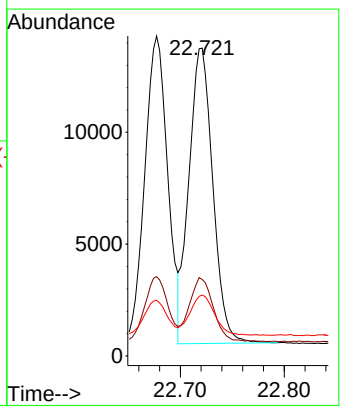


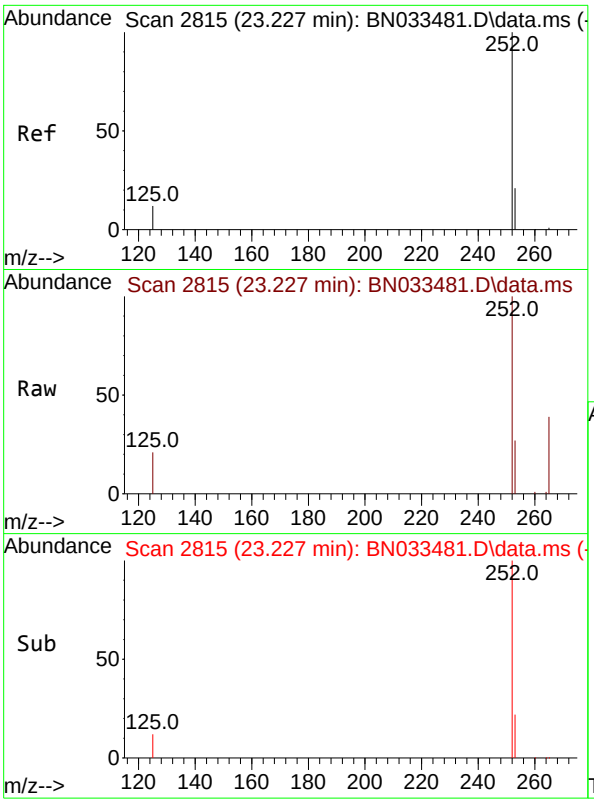


#38
Benzo(k)fluoranthene
Concen: 0.350 ng
RT: 22.721 min Scan# 2642
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:252 Resp: 21063

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.8	29.8
125	19.8	15.8	23.8



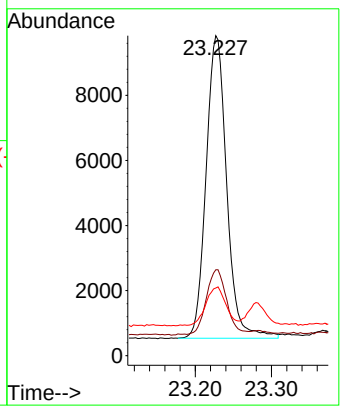


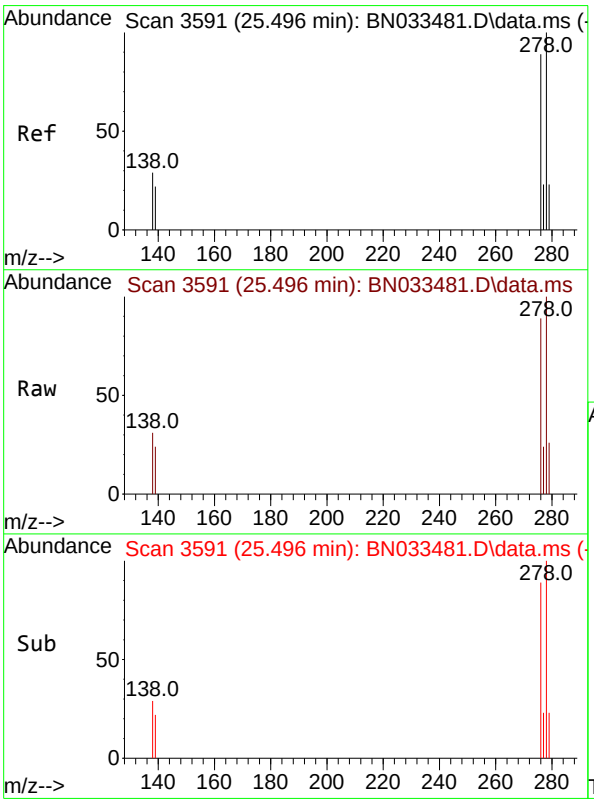
#39
Benzo(a)pyrene
Concen: 0.348 ng
RT: 23.227 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 17428

Ion	Ratio	Lower	Upper
252	100		
253	26.9	21.5	32.3
125	21.2	17.0	25.4

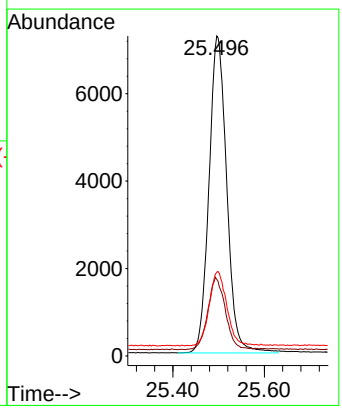


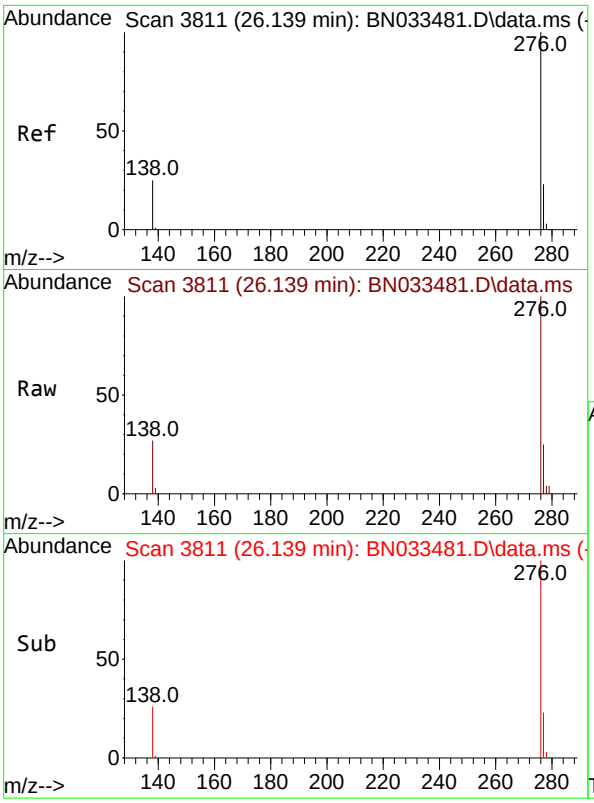


#40
Dibenzo(a,h)anthracene
Concen: 0.375 ng
RT: 25.496 min Scan# 3591
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:278 Resp: 19569

Ion	Ratio	Lower	Upper
278	100		
139	23.9	19.1	28.7
279	26.2	21.0	31.4



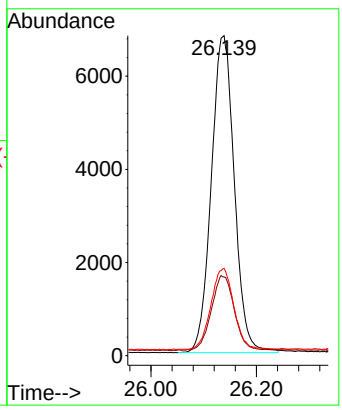


#41
Benzo(g,h,i)perylene
Concen: 0.359 ng
RT: 26.139 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 20604

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.7	29.5
138	27.2	21.8	32.6



Quantitation Report (QT Reviewed)

ICAL Form

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Data File : BN033482.D
Acq On : 19 Aug 2024 18:05
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Aug 19 23:22:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.559	152	7632	0.400	ng		0.00
7) Naphthalene-d8	10.314	136	20426	0.400	ng		0.00
13) Acenaphthene-d10	14.189	164	10526	0.400	ng		0.00
19) Phenanthrene-d10	16.942	188	22134	0.400	ng		0.00
29) Chrysene-d12	21.148	240	15199	0.400	ng		0.00
35) Perylene-d12	23.320	264	14574	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.191	112	20603	0.960	ng		0.00
5) Phenol-d6	6.743	99	25598	0.913	ng		0.00
8) Nitrobenzene-d5	8.691	82	14373	0.929	ng		0.00
11) 2-Methylnaphthalene-d10	11.915	152	25169	0.820	ng		0.00
14) 2,4,6-Tribromophenol	15.688	330	4621	0.860	ng		0.00
15) 2-Fluorobiphenyl	12.810	172	37063	0.870	ng		0.00
27) Fluoranthene-d10	18.980	212	44745	0.771	ng		0.00
31) Terphenyl-d14	19.597	244	29355	1.002	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.190	88	8005	0.974	ng		99
3) n-Nitrosodimethylamine	3.479	42	9391	0.883	ng		97
6) bis(2-Chloroethyl)ether	6.996	93	18731	0.856	ng		99
9) Naphthalene	10.368	128	47199	0.852	ng		99
10) Hexachlorobutadiene	10.667	225	9402	0.884	ng	#	100
12) 2-Methylnaphthalene	11.990	142	29902	0.806	ng		98
16) Acenaphthylene	13.900	152	39367	0.814	ng		100
17) Acenaphthene	14.253	154	27891	0.838	ng		99
18) Fluorene	15.247	166	35084	0.805	ng		100
20) 4,6-Dinitro-2-methylph...	15.322	198	2836	1.027	ng	#	78
21) 4-Bromophenyl-phenylether	16.147	248	11281	0.854	ng		97
22) Hexachlorobenzene	16.247	284	12452	0.844	ng		99
23) Atrazine	16.420	200	8886	0.845	ng		99
24) Pentachlorophenol	16.594	266	5244	0.869	ng		98
25) Phenanthrene	16.979	178	52082	0.822	ng		100
26) Anthracene	17.066	178	45804	0.819	ng		99
28) Fluoranthene	19.012	202	57702	0.751	ng		100
30) Pyrene	19.374	202	57799	0.944	ng		100
32) Benzo(a)anthracene	21.130	228	46368	0.822	ng		99
33) Chrysene	21.184	228	47324	0.841	ng		99
34) Bis(2-ethylhexyl)phtha...	21.095	149	26434	0.980	ng		99
36) Indeno(1,2,3-cd)pyrene	25.478	276	51859	0.858	ng		99
37) Benzo(b)fluoranthene	22.677	252	46009	0.846	ng		95
38) Benzo(k)fluoranthene	22.721	252	45348	0.822	ng	#	94
39) Benzo(a)pyrene	23.227	252	38156	0.831	ng	#	93
40) Dibenzo(a,h)anthracene	25.499	278	41569	0.869	ng		96
41) Benzo(g,h,i)perylene	26.136	276	44249	0.842	ng		98

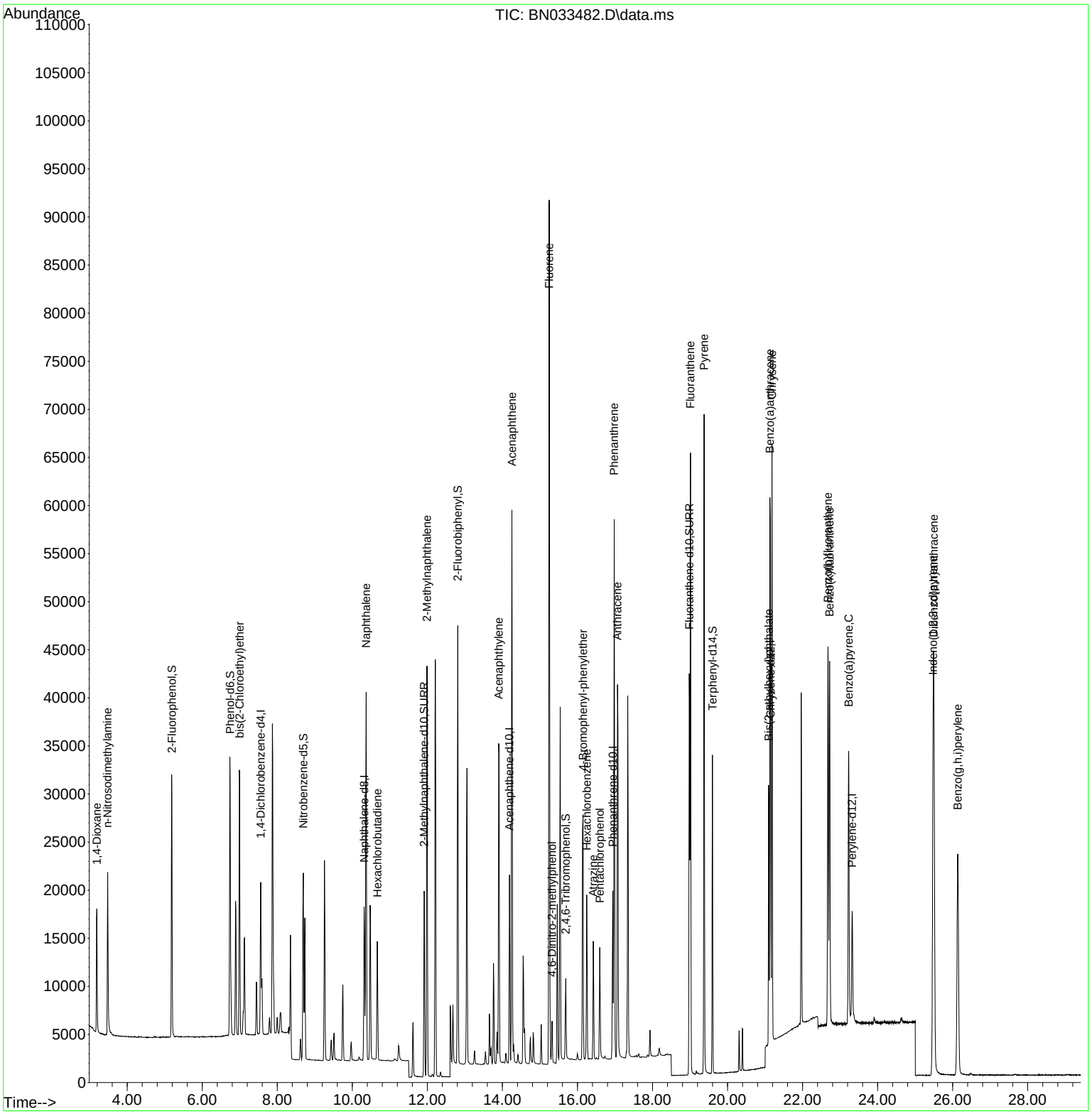
(#) = qualifier out of range (m) = manual integration (+) = signals summed

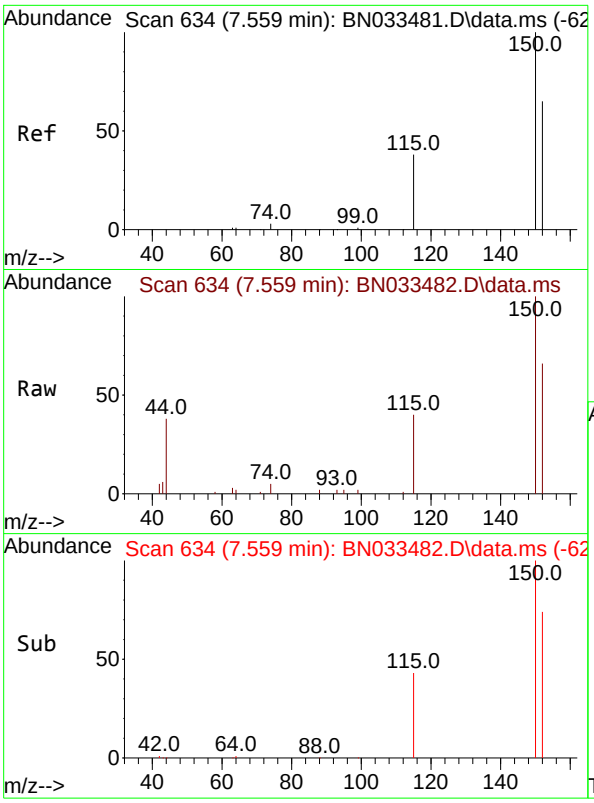
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033482.D
Acq On : 19 Aug 2024 18:05
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Aug 19 23:22:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration



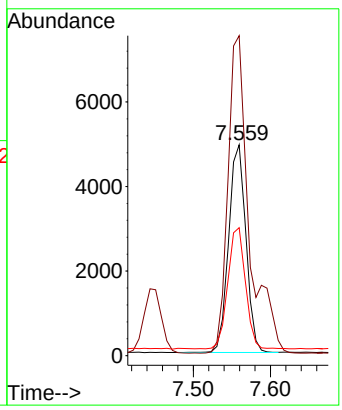


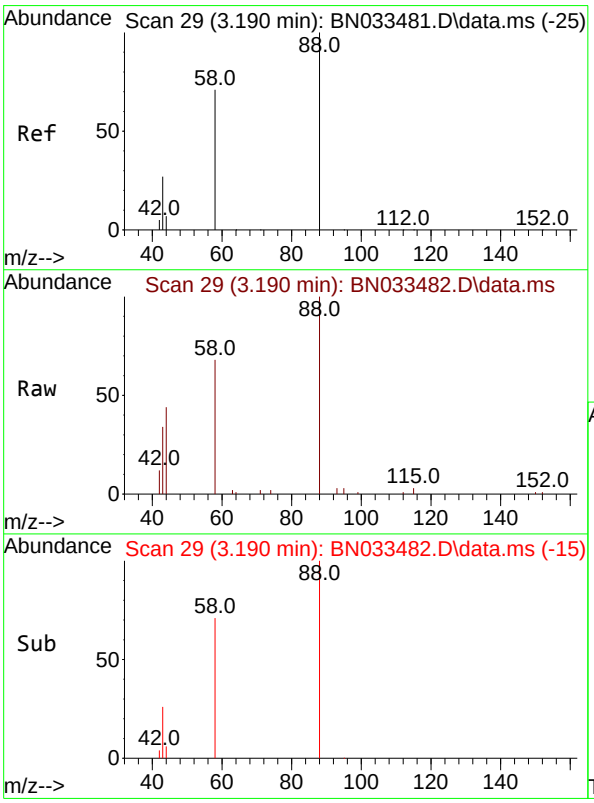
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 7632

Ion	Ratio	Lower	Upper
152	100		
150	151.8	122.2	183.2
115	60.8	47.2	70.8

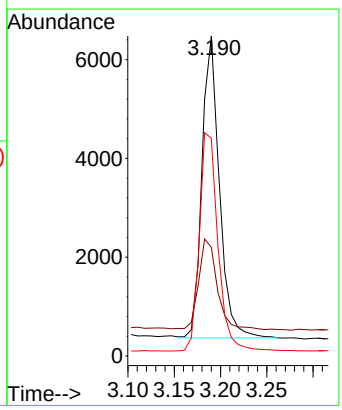


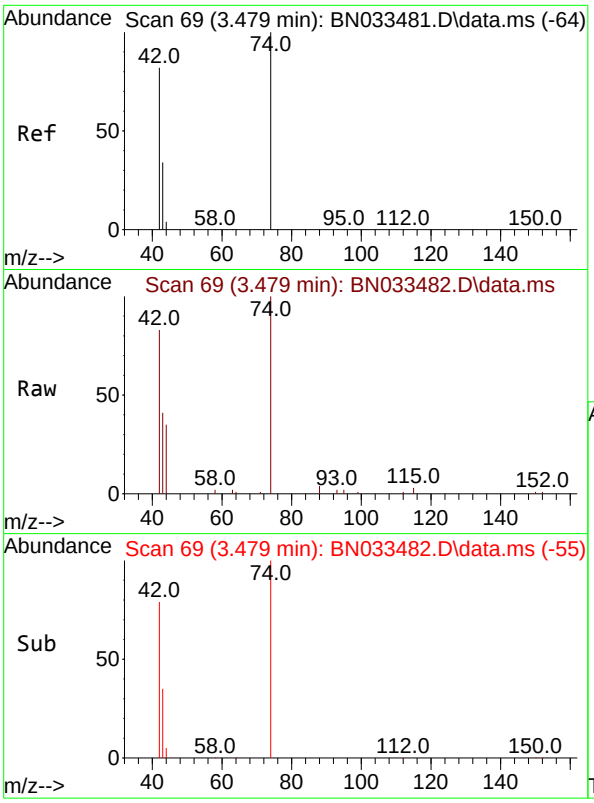


#2
1,4-Dioxane
Concen: 0.974 ng
RT: 3.190 min Scan# 29
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion: 88 Resp: 8005

Ion	Ratio	Lower	Upper
88	100		
43	31.8	25.0	37.4
58	77.2	62.5	93.7



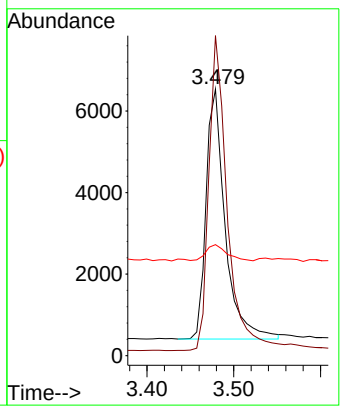


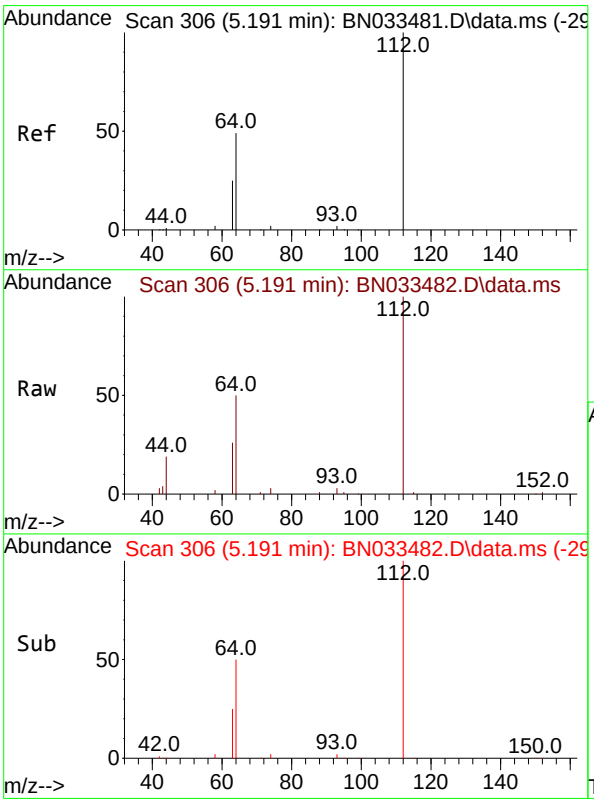
#3
n-Nitrosodimethylamine
Concen: 0.883 ng
RT: 3.479 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 9391

Ion	Ratio	Lower	Upper
42	100		
74	121.6	100.2	150.2
44	6.9	5.3	7.9

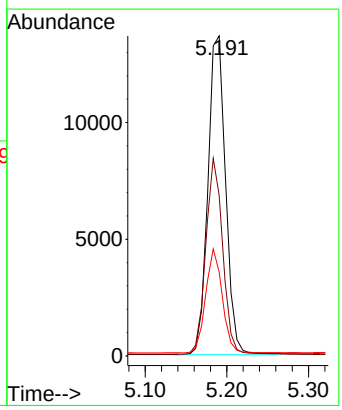


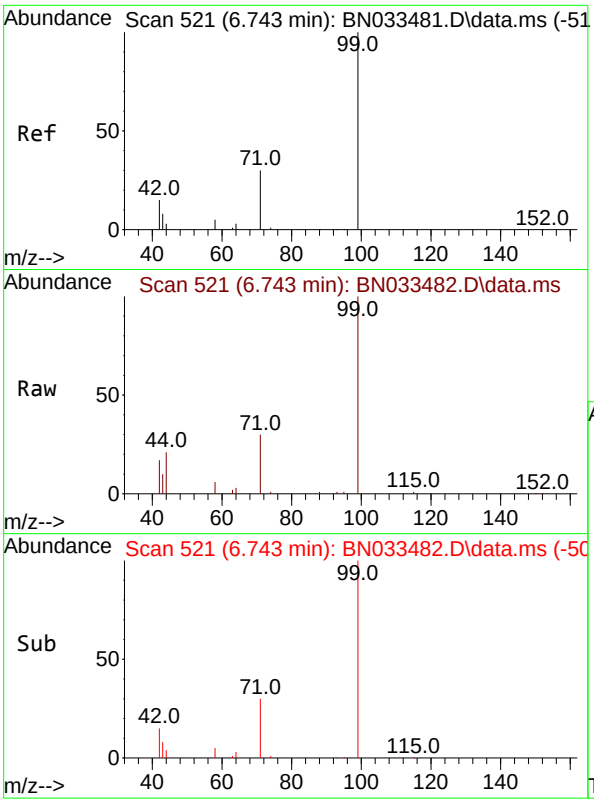


#4
2-Fluorophenol
Concen: 0.960 ng
RT: 5.191 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:112 Resp: 20603

Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.1	70.7
63	30.7	24.9	37.3



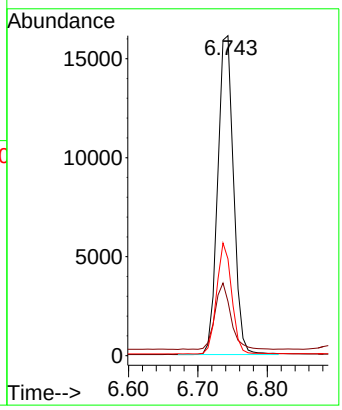


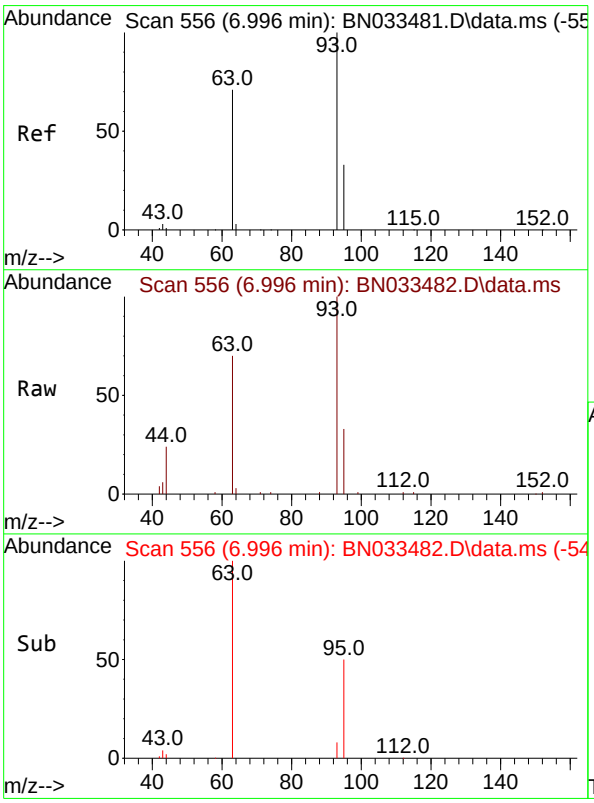
#5
Phenol-d6
Concen: 0.913 ng
RT: 6.743 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 25598

Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.6	24.8
71	33.1	26.2	39.4

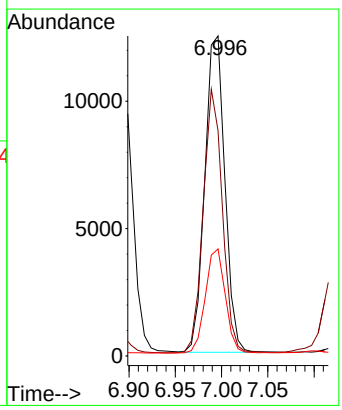


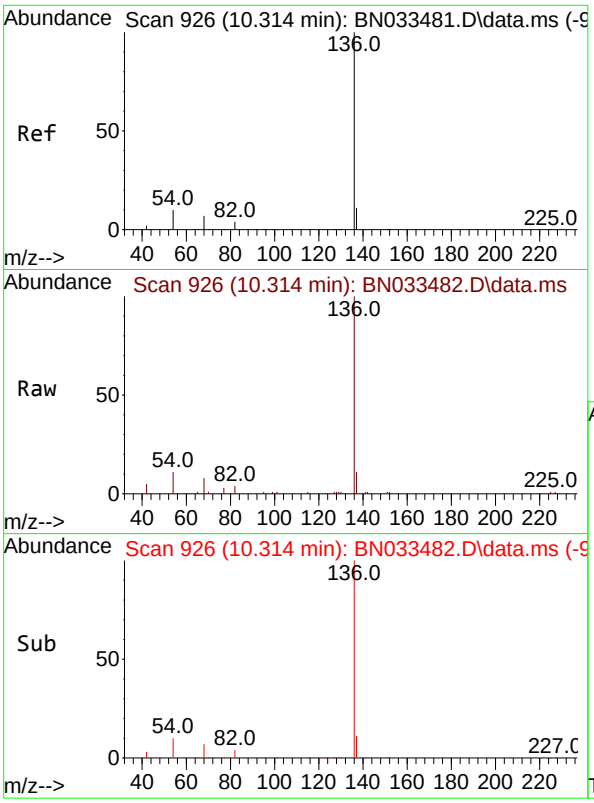


#6
bis(2-Chloroethyl)ether
Concen: 0.856 ng
RT: 6.996 min Scan# 556
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion: 93 Resp: 18731

Ion	Ratio	Lower	Upper
93	100		
63	79.6	63.0	94.4
95	32.7	26.0	39.0



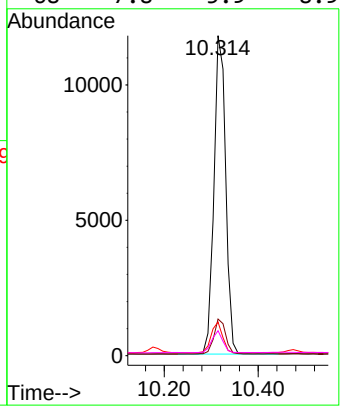


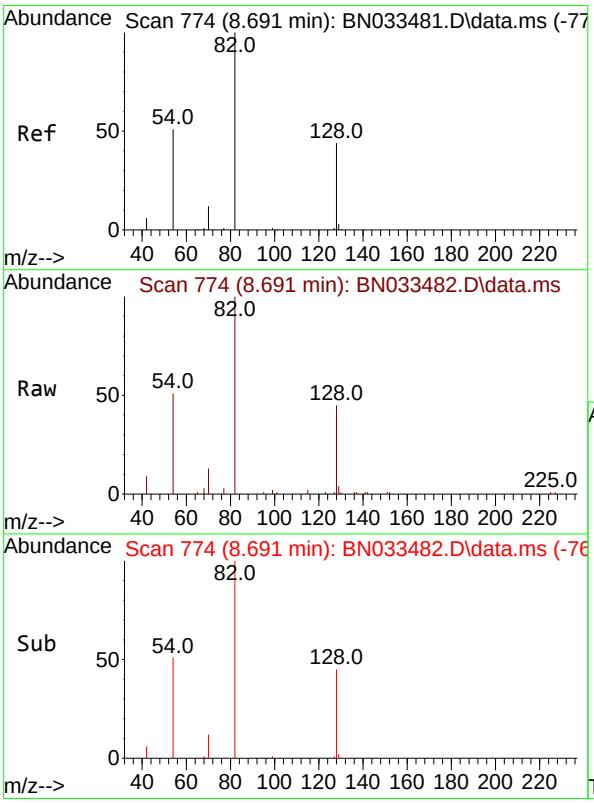
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 20426

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	10.5	8.3	12.5
68	7.8	5.9	8.9

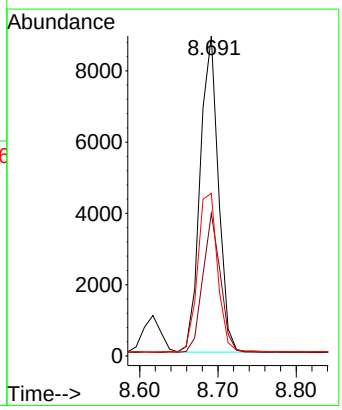


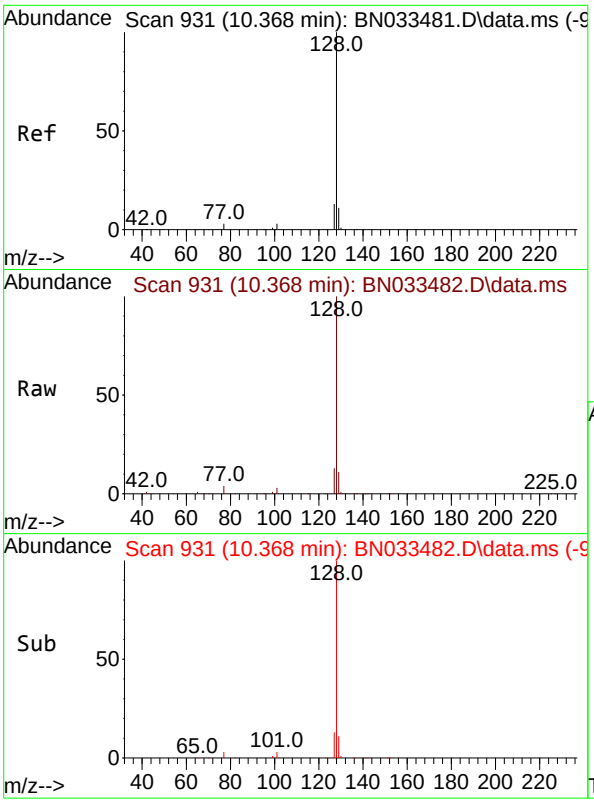


#8
Nitrobenzene-d5
Concen: 0.929 ng
RT: 8.691 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion: 82 Resp: 14373

Ion	Ratio	Lower	Upper
82	100		
128	44.5	36.0	54.0
54	50.8	42.0	63.0



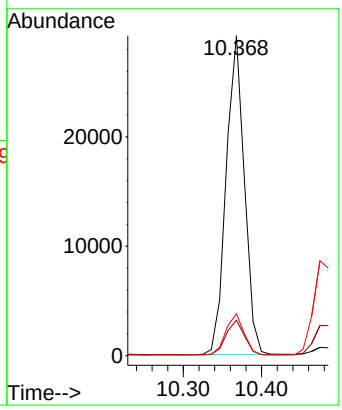


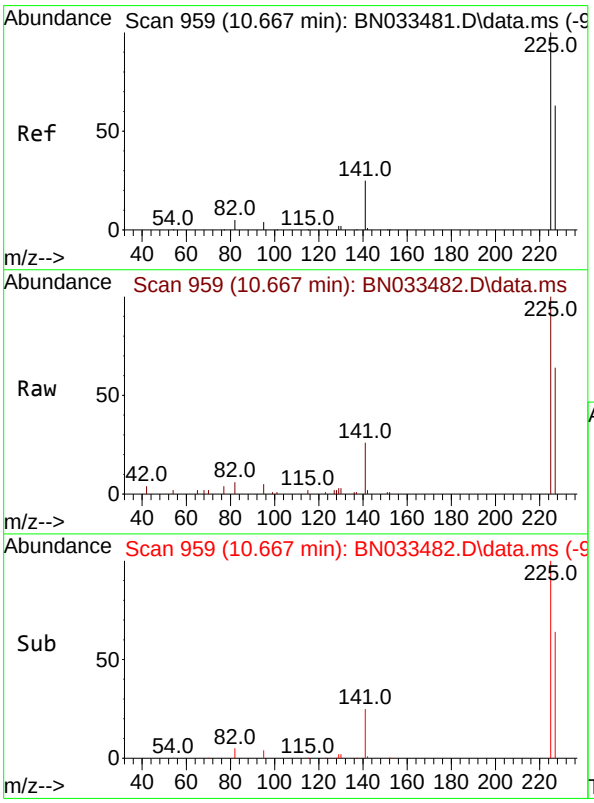
#9
Naphthalene
Concen: 0.852 ng
RT: 10.368 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 47199

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.1	13.7
127	13.1	10.7	16.1

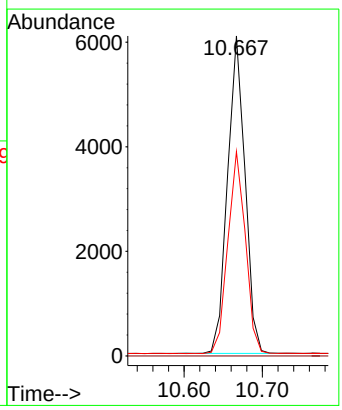


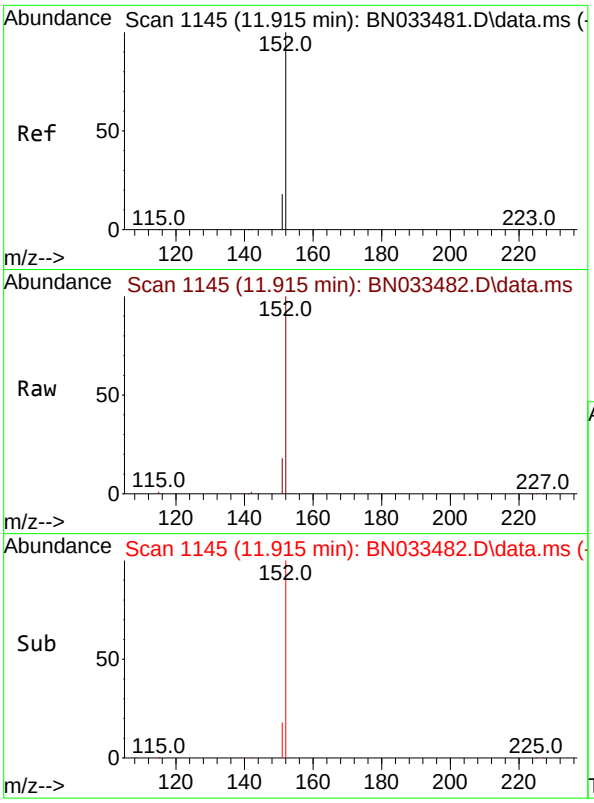


#10
Hexachlorobutadiene
Concen: 0.884 ng
RT: 10.667 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:225 Resp: 9402

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.2	76.8



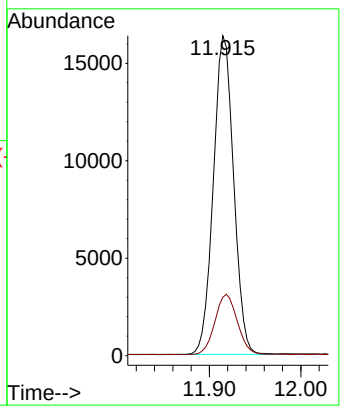


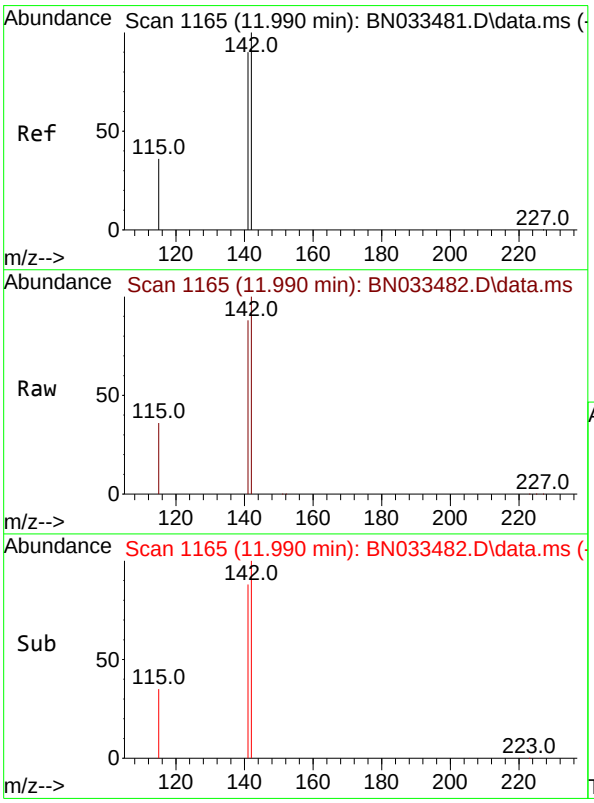
#11
2-Methylnaphthalene-d10
Concen: 0.820 ng
RT: 11.915 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 25169

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0

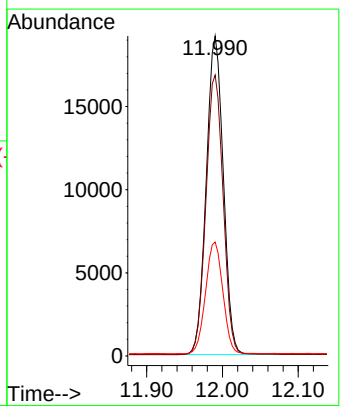


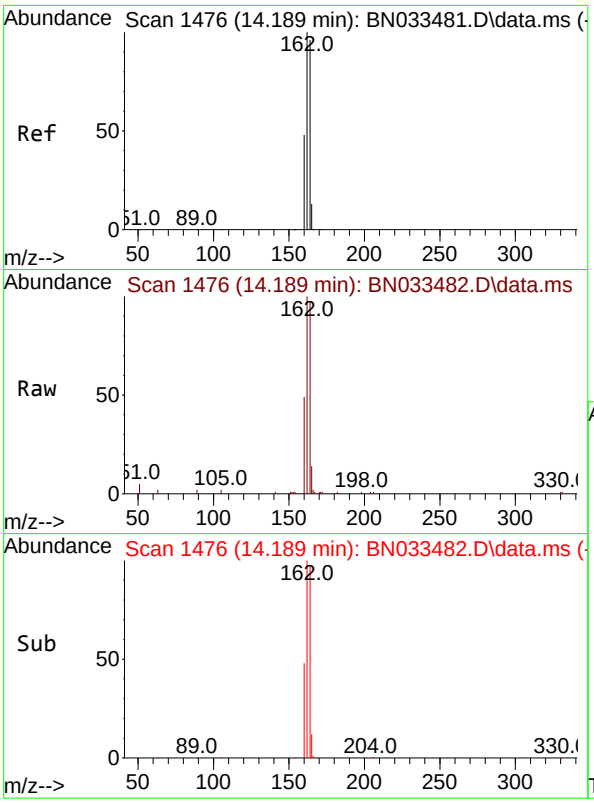


#12
2-Methylnaphthalene
Concen: 0.806 ng
RT: 11.990 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:142 Resp: 29902

Ion	Ratio	Lower	Upper
142	100		
141	87.8	71.7	107.5
115	35.6	29.4	44.2



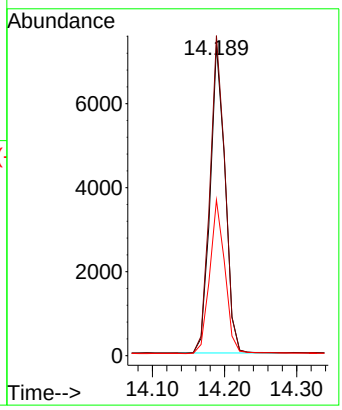


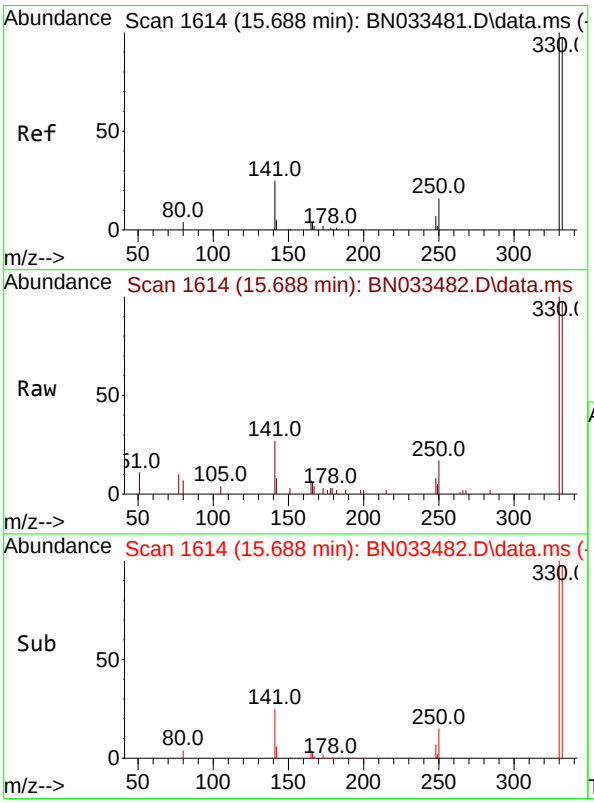
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 10526

Ion	Ratio	Lower	Upper
164	100		
162	103.0	83.5	125.3
160	50.1	40.2	60.4

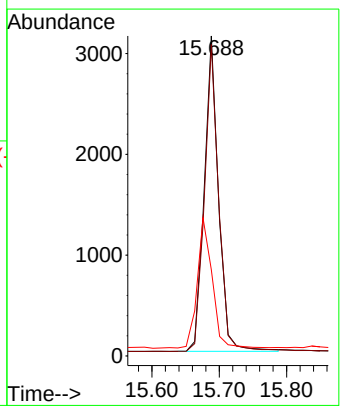


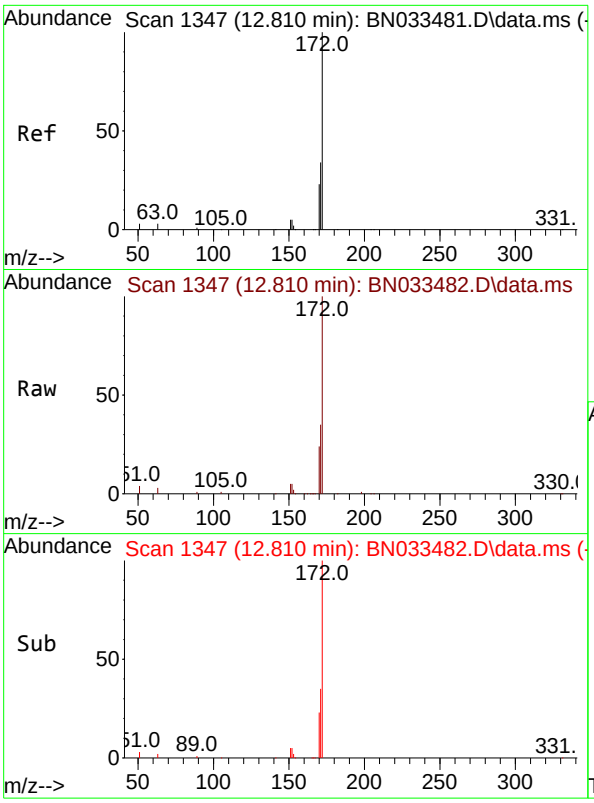


#14
2,4,6-Tribromophenol
Concen: 0.860 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:330 Resp: 4621

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.5	116.3
141	42.6	33.9	50.9



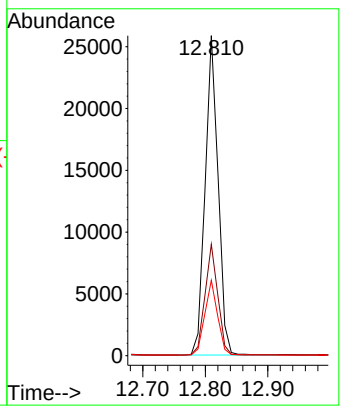


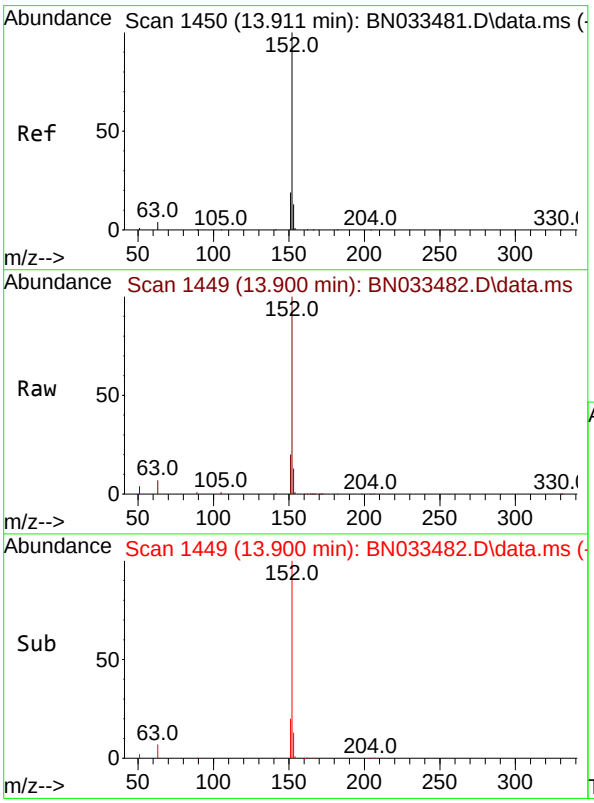
#15
2-Fluorobiphenyl
Concen: 0.870 ng
RT: 12.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 37063

Ion	Ratio	Lower	Upper
172	100		
171	34.8	27.7	41.5
170	23.5	18.3	27.5

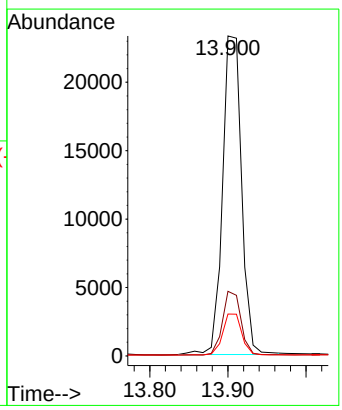


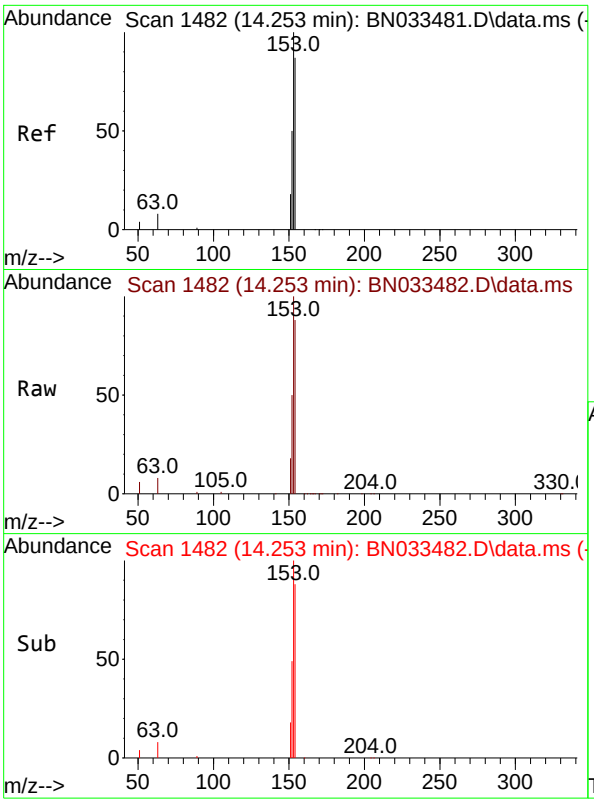


#16
Acenaphthylene
Concen: 0.814 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:152 Resp: 39367

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.7	23.5
153	13.0	10.3	15.5



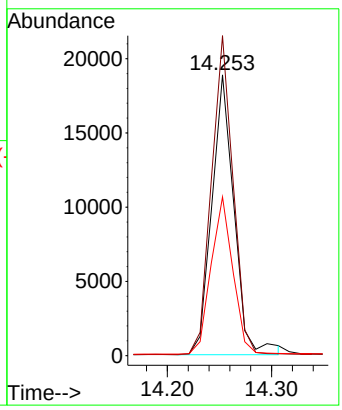


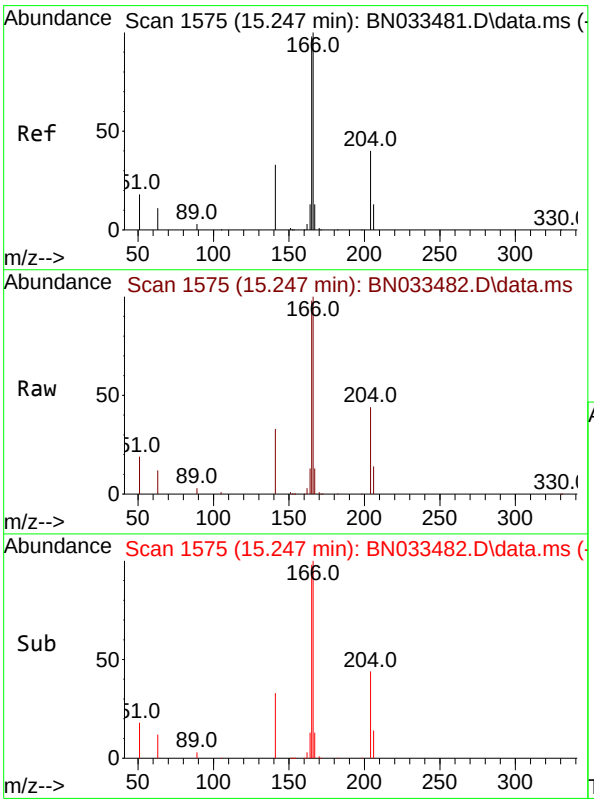
#17
Acenaphthene
Concen: 0.838 ng
RT: 14.253 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 27891

Ion	Ratio	Lower	Upper
154	100		
153	110.4	89.0	133.6
152	55.3	45.2	67.8

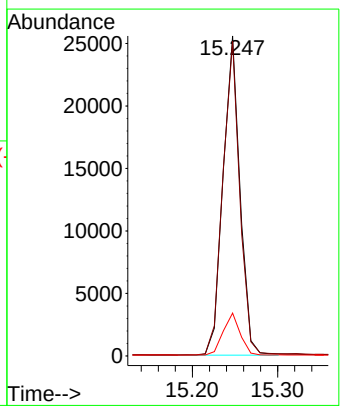


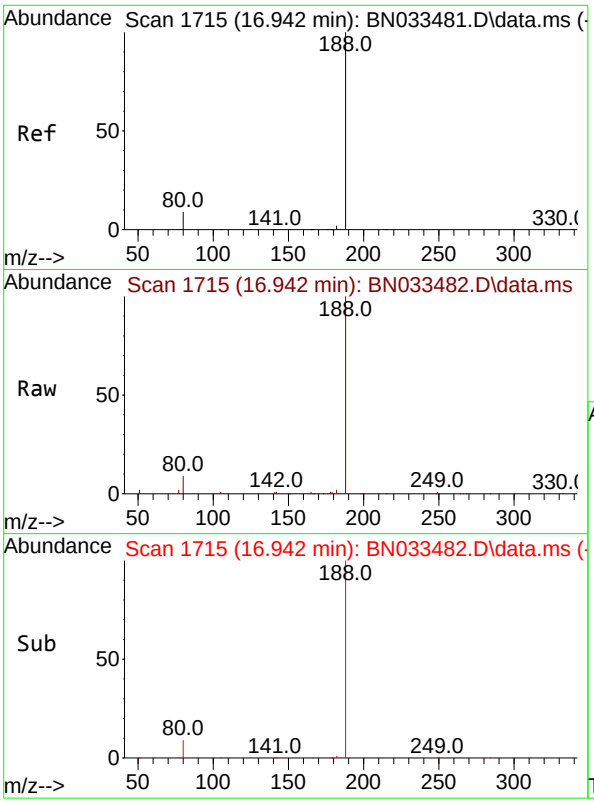


#18
Fluorene
Concen: 0.805 ng
RT: 15.247 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:166 Resp: 35084

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.2	117.4
167	13.2	10.6	16.0



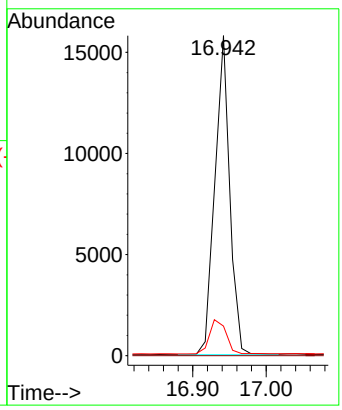


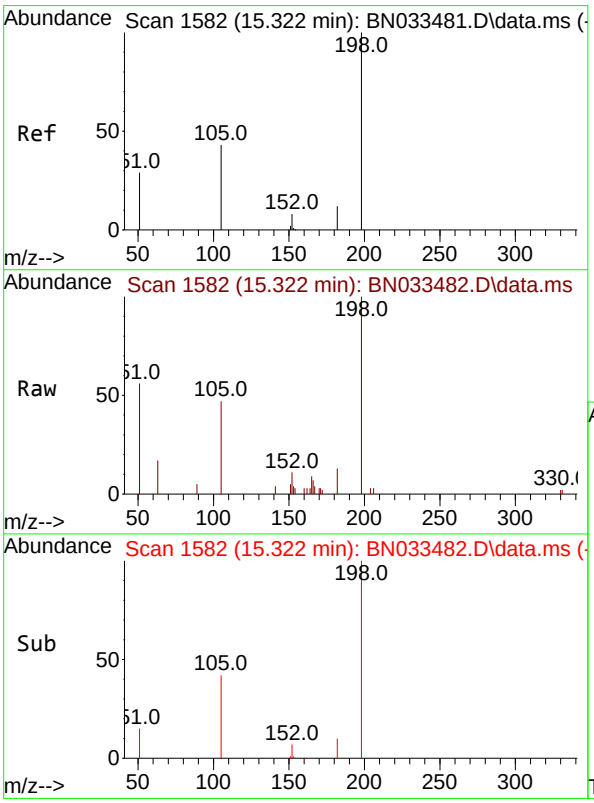
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 22134

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	7.8	11.8

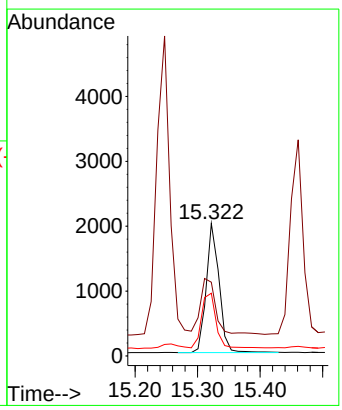


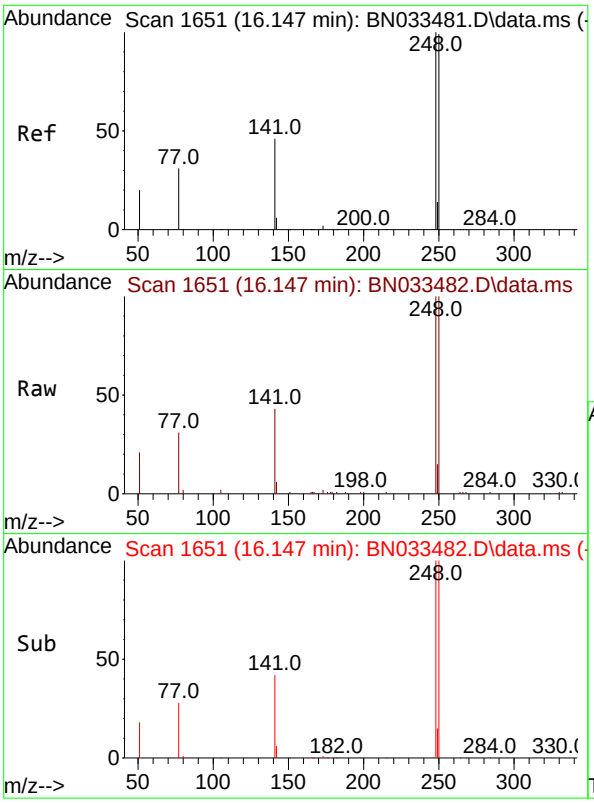


#20
4,6-Dinitro-2-methylphenol
Concen: 1.027 ng
RT: 15.322 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:198 Resp: 2836

Ion	Ratio	Lower	Upper
198	100		
51	55.6	65.1	97.7#
105	47.3	44.8	67.2



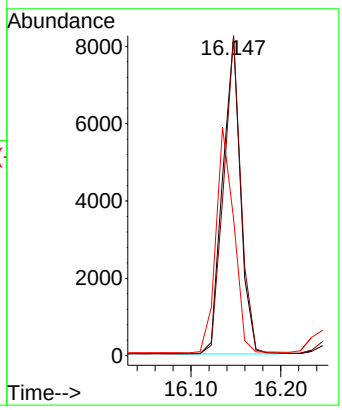


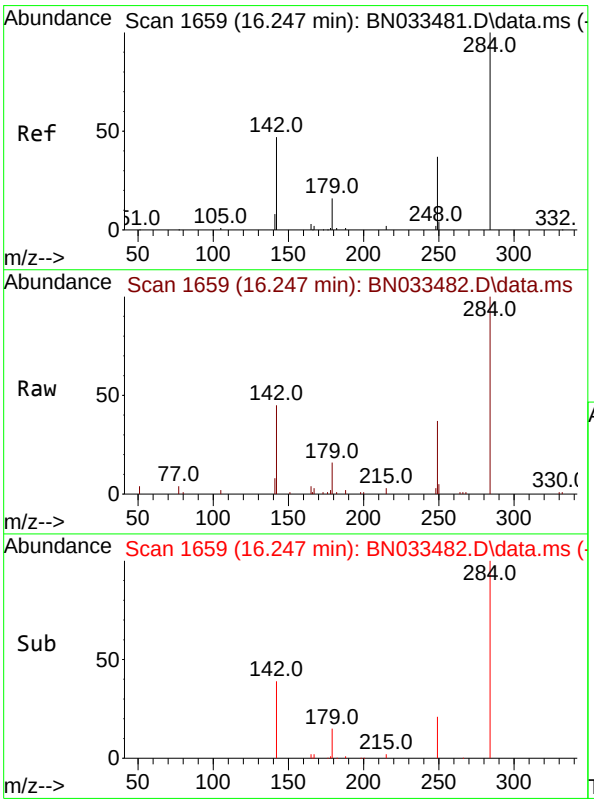
#21
4-Bromophenyl-phenylether
Concen: 0.854 ng
RT: 16.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 11281

Ion	Ratio	Lower	Upper
248	100		
250	100.3	79.2	118.8
141	43.0	37.9	56.9

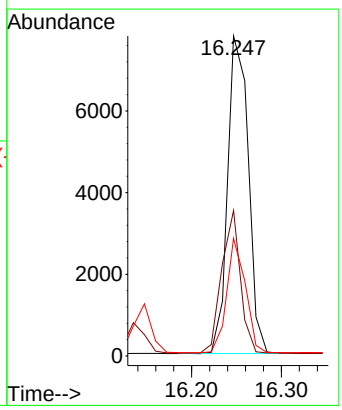


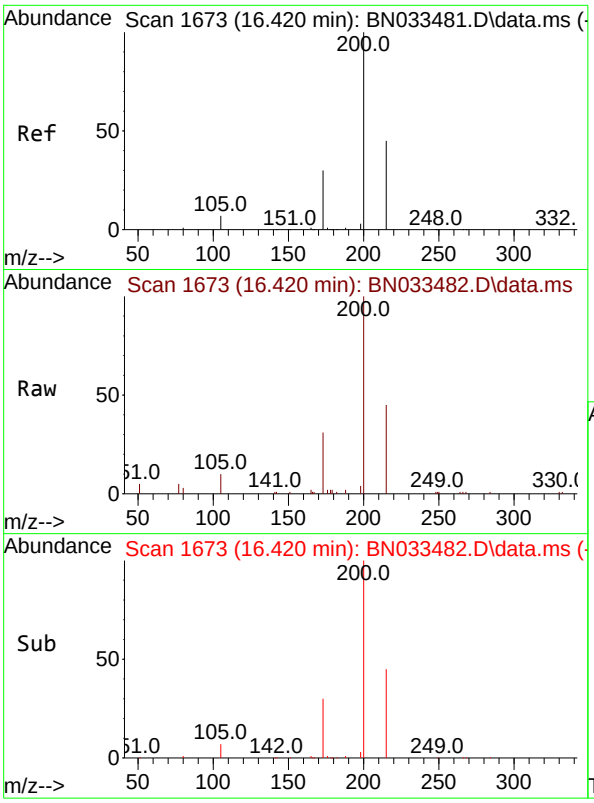


#22
Hexachlorobenzene
Concen: 0.844 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:284 Resp: 12452

Ion	Ratio	Lower	Upper
284	100		
142	40.5	31.8	47.6
249	32.6	26.0	39.0



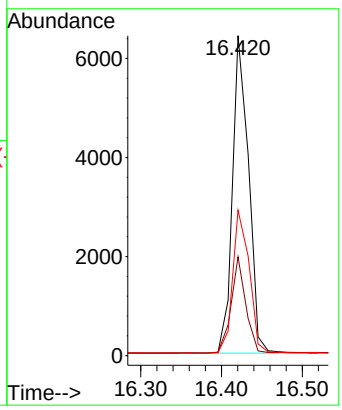


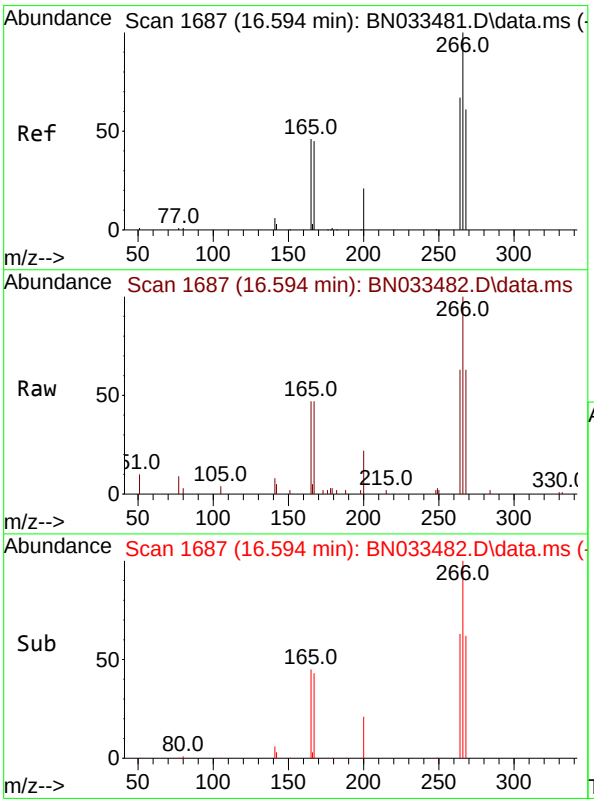
#23
Atrazine
Concen: 0.845 ng
RT: 16.420 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 8886

Ion	Ratio	Lower	Upper
200	100		
173	30.9	25.3	37.9
215	45.4	36.6	54.8

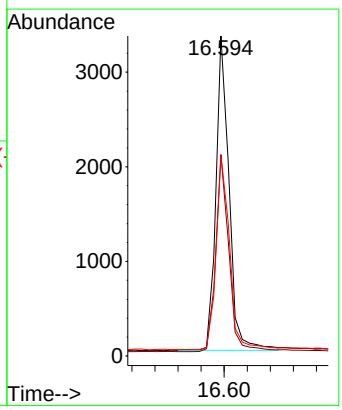


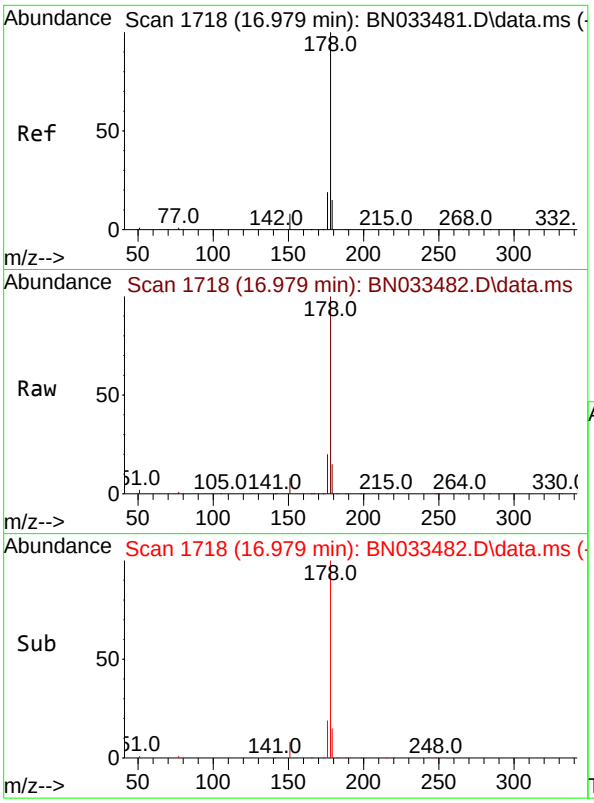


#24
Pentachlorophenol
Concen: 0.869 ng
RT: 16.594 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:266 Resp: 5244

Ion	Ratio	Lower	Upper
266	100		
264	62.2	51.9	77.9
268	63.3	51.0	76.4



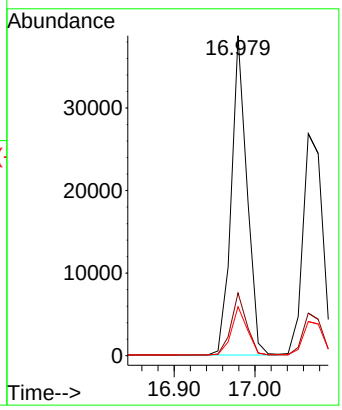


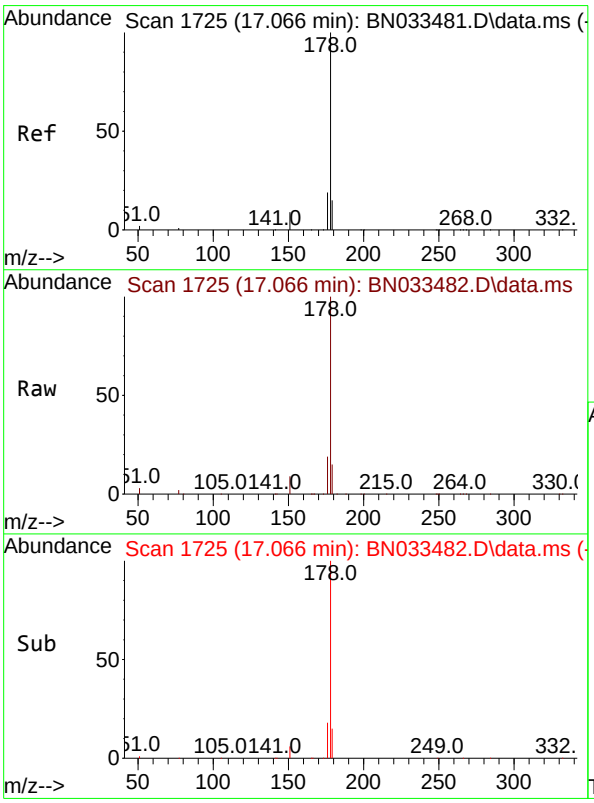
#25
Phenanthrene
Concen: 0.822 ng
RT: 16.979 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 52082

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.2	12.3	18.5

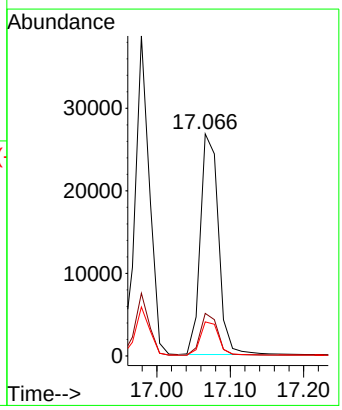


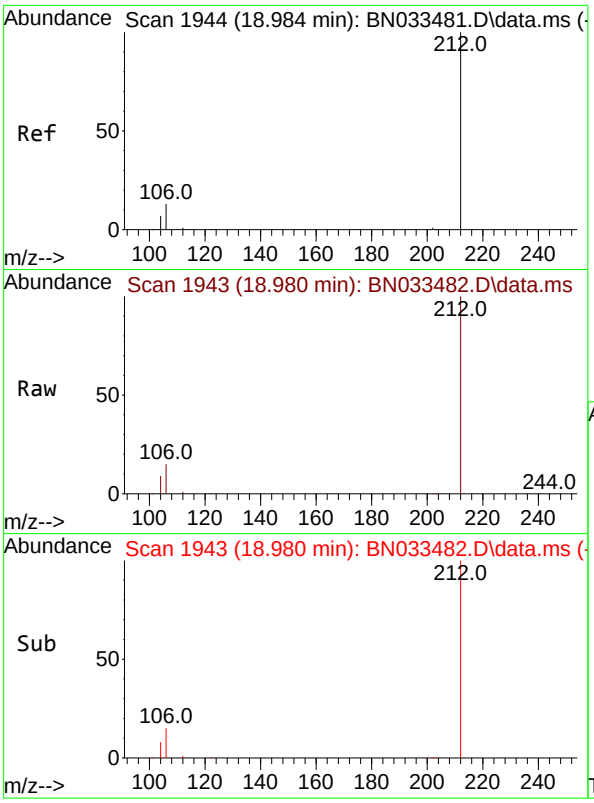


#26
Anthracene
Concen: 0.819 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:178 Resp: 45804

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.6
179	15.2	12.4	18.6



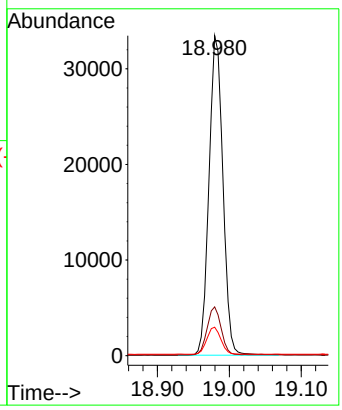


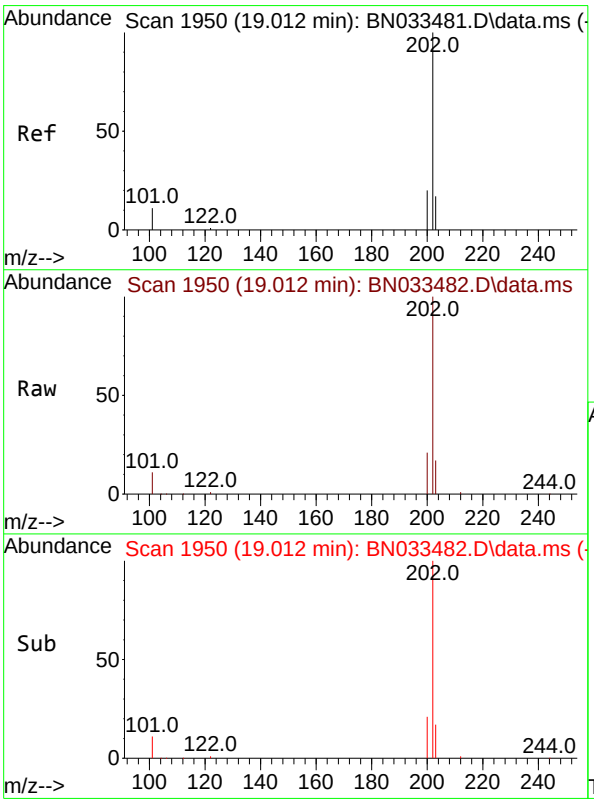
#27
Fluoranthene-d10
Concen: 0.771 ng
RT: 18.980 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 44745

Ion	Ratio	Lower	Upper
212	100		
106	15.1	12.3	18.5
104	8.6	7.0	10.4

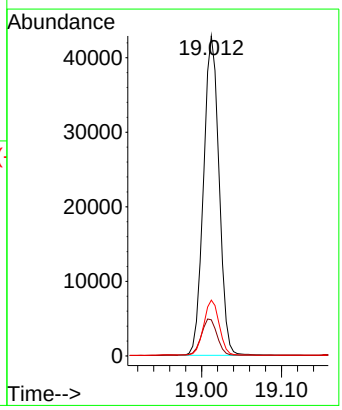


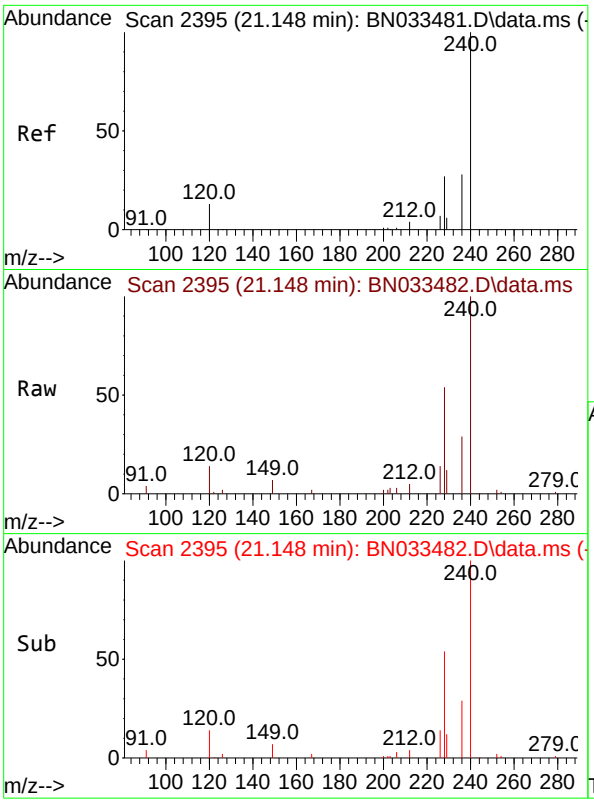


#28
Fluoranthene
Concen: 0.751 ng
RT: 19.012 min Scan# 1950
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:202 Resp: 57702

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.5	14.3
203	17.1	13.8	20.6



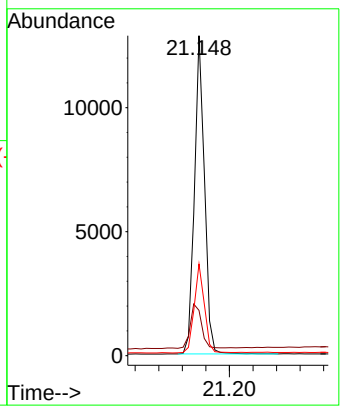


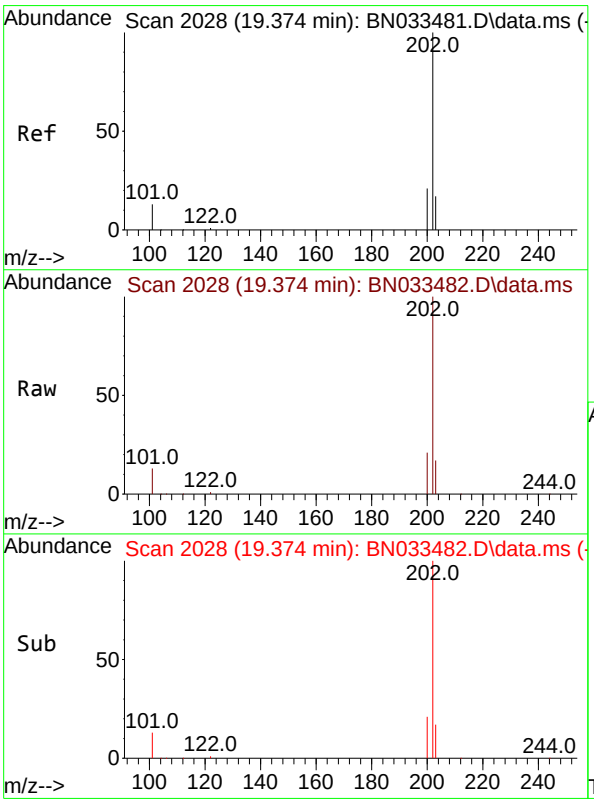
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 15199

Ion	Ratio	Lower	Upper
240	100		
120	14.1	12.4	18.6
236	28.6	23.0	34.6

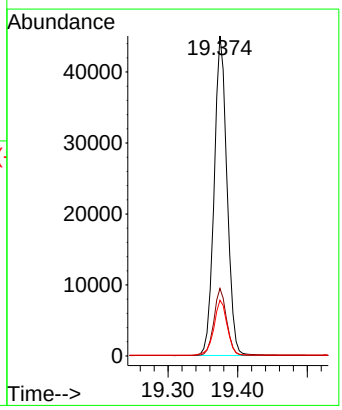


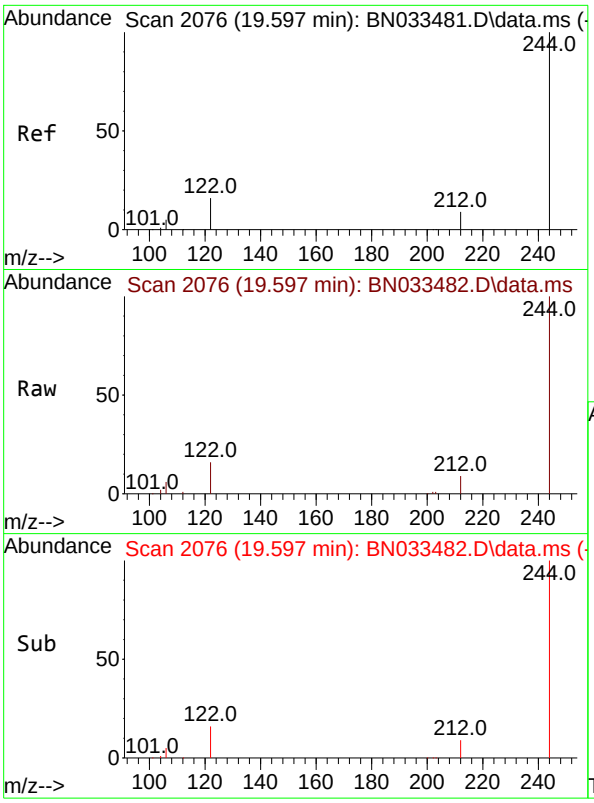


#30
Pyrene
Concen: 0.944 ng
RT: 19.374 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:202 Resp: 57799

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	24.8
203	17.7	14.2	21.4



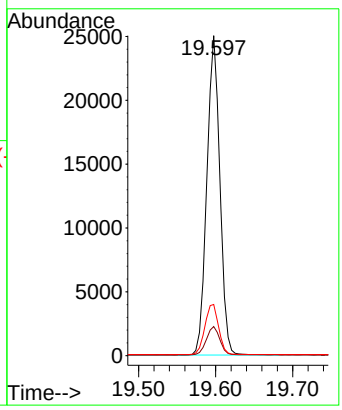


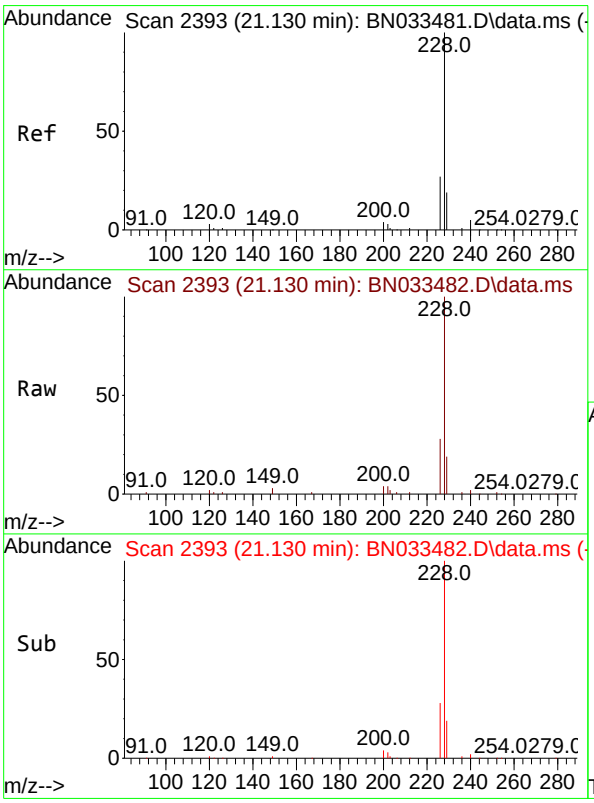
#31
Terphenyl-d14
Concen: 1.002 ng
RT: 19.597 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 29355

Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.8	11.6
122	16.0	13.3	19.9

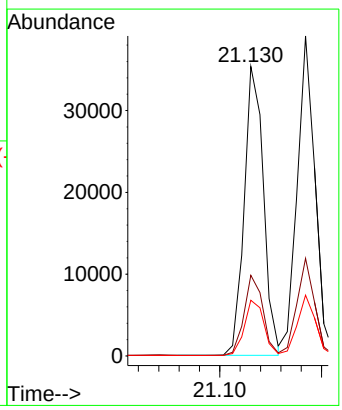


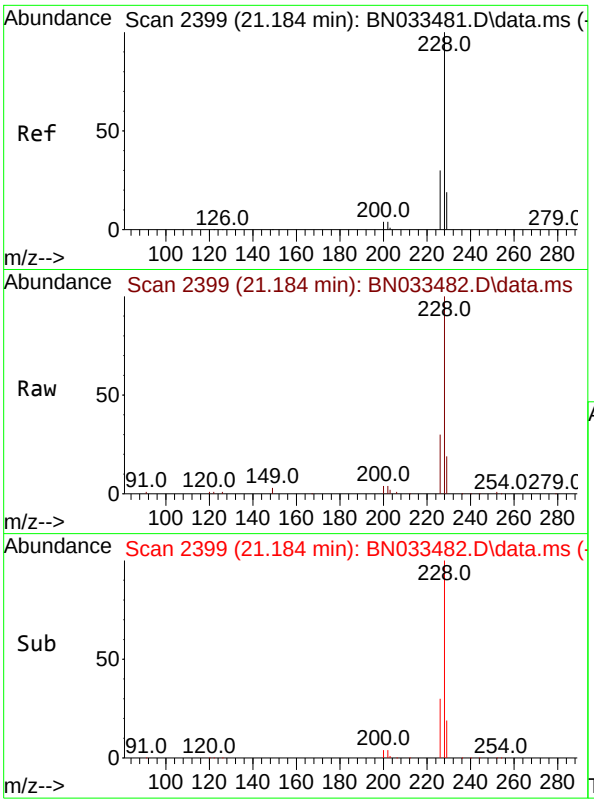


#32
Benzo(a)anthracene
Concen: 0.822 ng
RT: 21.130 min Scan# 2393
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:228 Resp: 46368

Ion	Ratio	Lower	Upper
228	100		
226	27.9	21.8	32.6
229	19.2	15.8	23.6



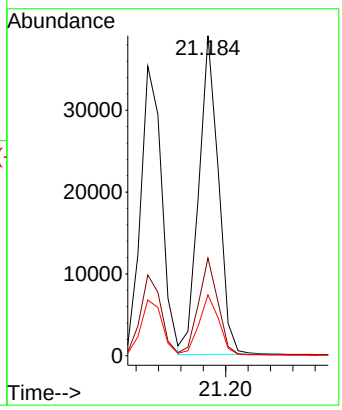


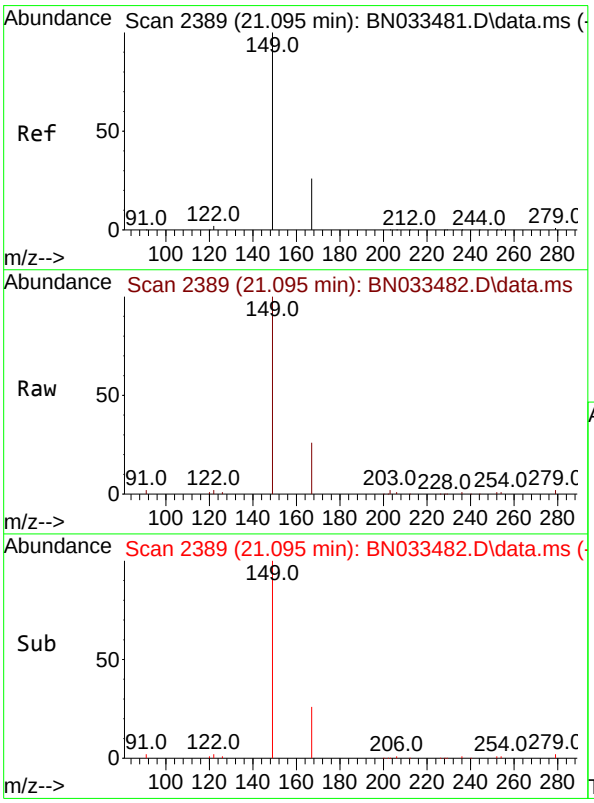
#33
Chrysene
Concen: 0.841 ng
RT: 21.184 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 47324

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.8	35.8
229	19.0	15.6	23.4

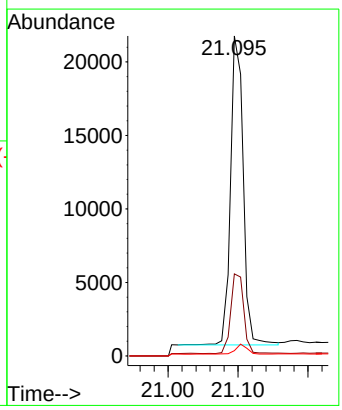


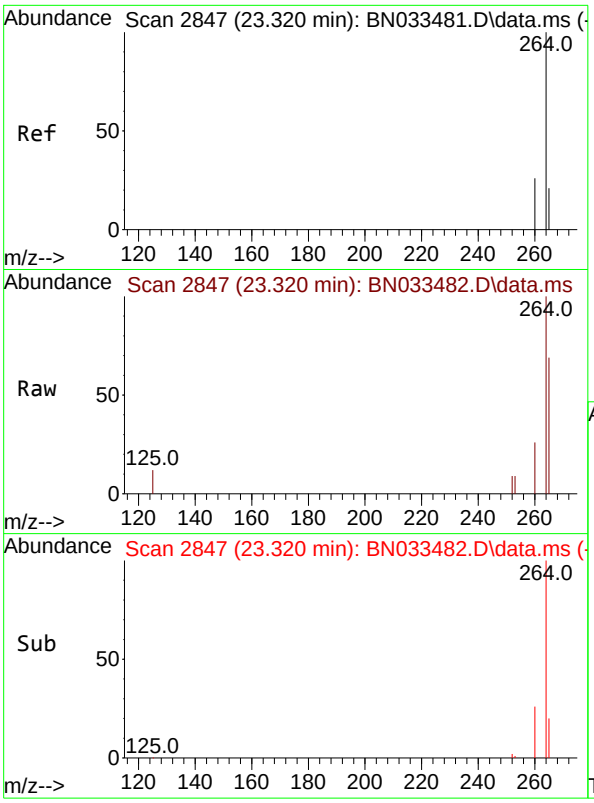


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.980 ng
RT: 21.095 min Scan# 2389
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:149 Resp: 26434

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.5	32.3
279	2.8	2.2	3.2



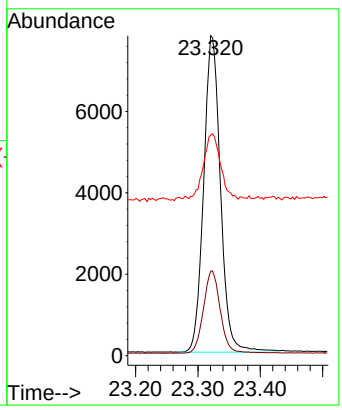


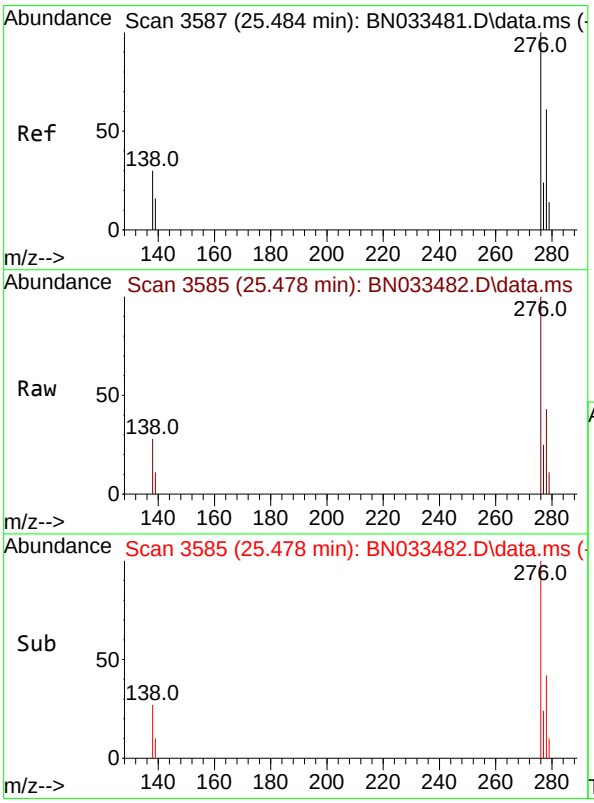
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.320 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 14574

Ion	Ratio	Lower	Upper
264	100		
260	26.4	20.8	31.2
265	68.9	52.2	78.2

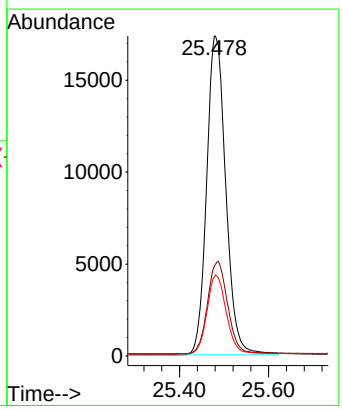


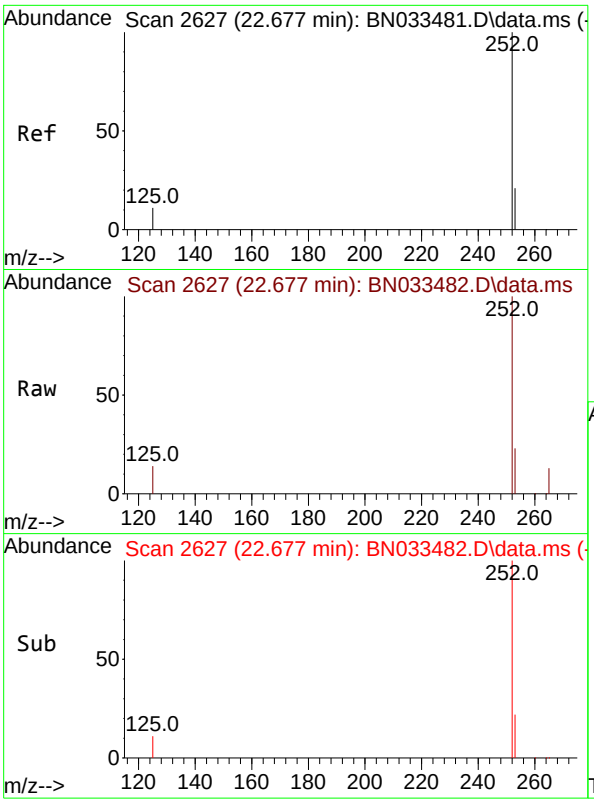


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.858 ng
RT: 25.478 min Scan# 3585
Delta R.T. -0.006 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:276 Resp: 51859

Ion	Ratio	Lower	Upper
276	100		
138	30.1	24.4	36.6
277	24.8	19.8	29.6



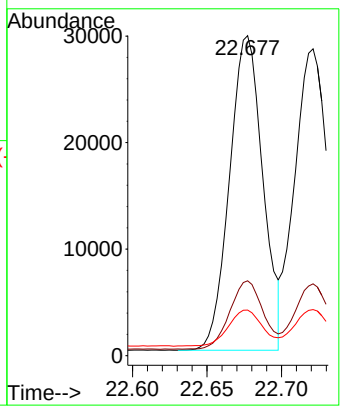


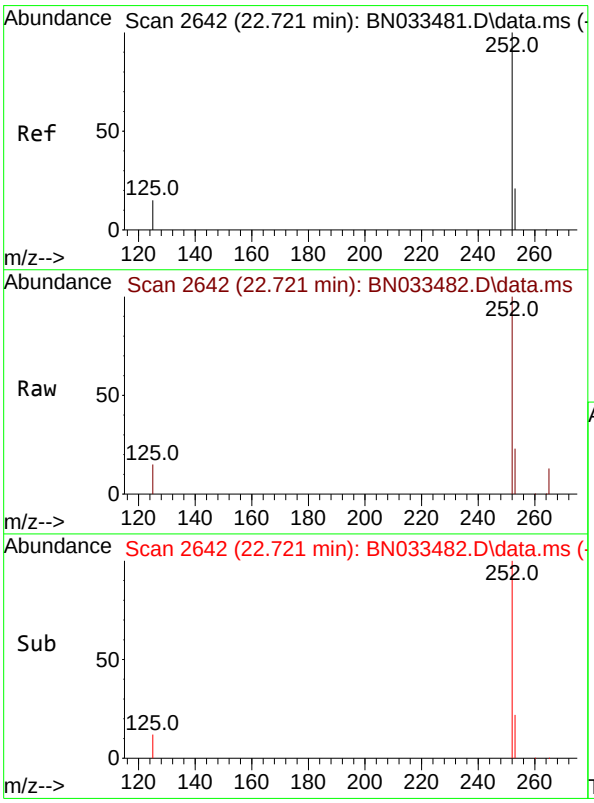
#37
Benzo(b)fluoranthene
Concen: 0.846 ng
RT: 22.677 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 46009

Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.8	29.8
125	14.2	13.9	20.9

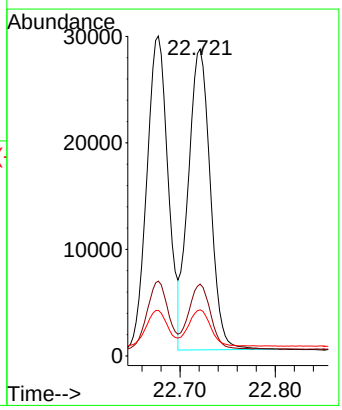


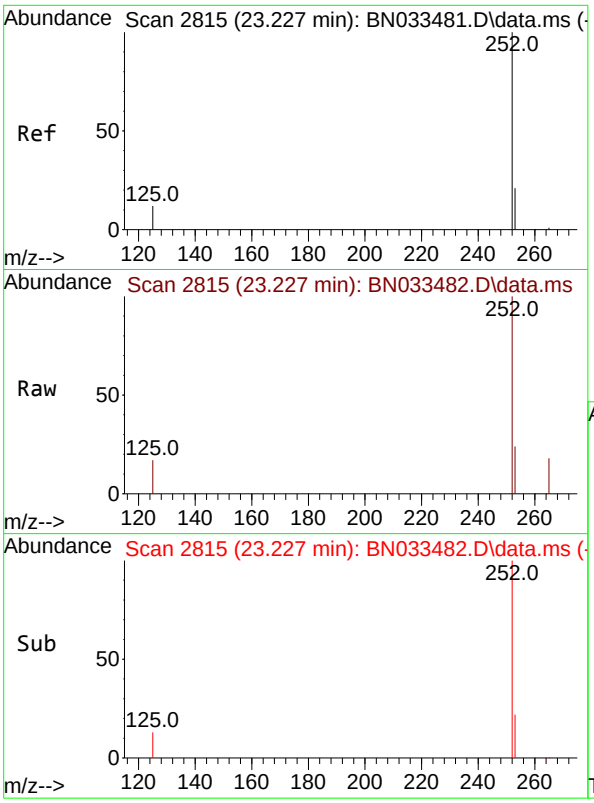


#38
Benzo(k)fluoranthene
Concen: 0.822 ng
RT: 22.721 min Scan# 2642
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:252 Resp: 45348

Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.8	29.8
125	15.0	15.8	23.8#



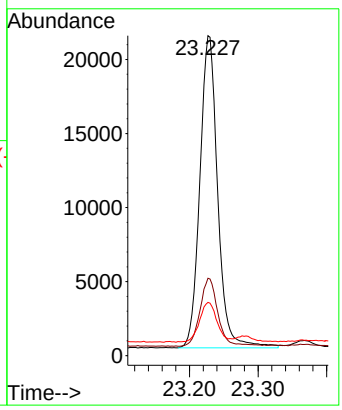


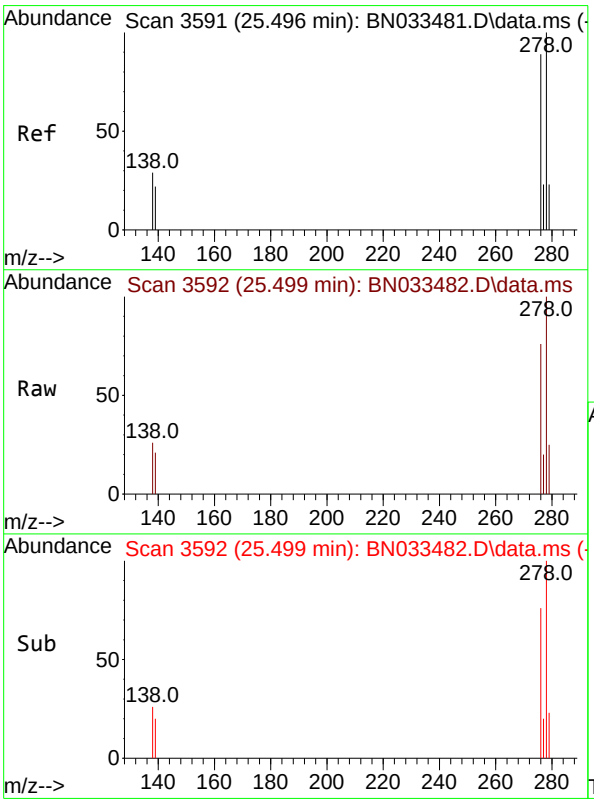
#39
Benzo(a)pyrene
Concen: 0.831 ng
RT: 23.227 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 38156

Ion	Ratio	Lower	Upper
252	100		
253	24.2	21.5	32.3
125	16.7	17.0	25.4#

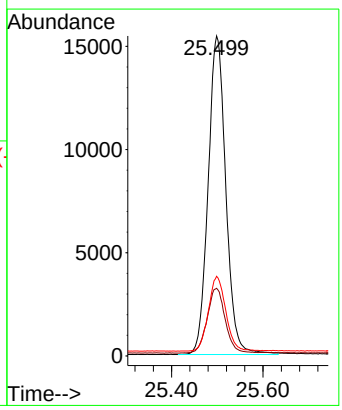


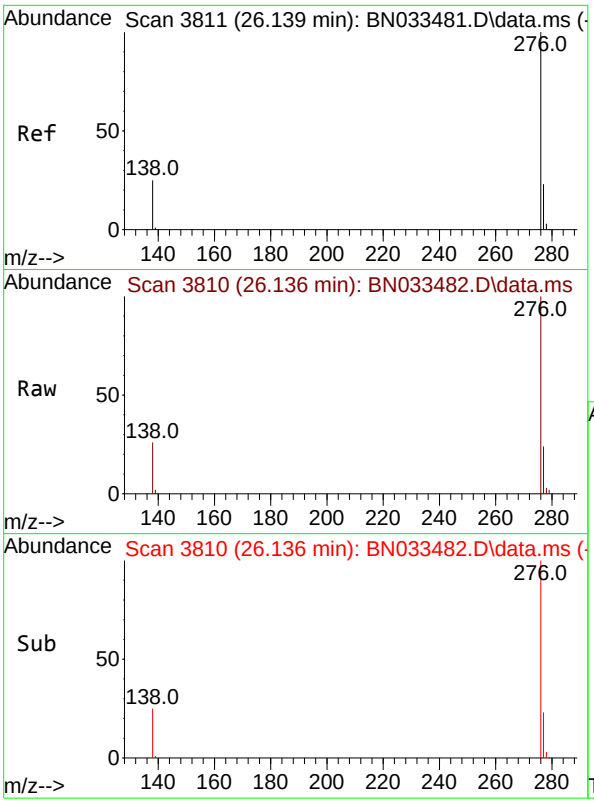


#40
Dibenzo(a,h)anthracene
Concen: 0.869 ng
RT: 25.499 min Scan# 3592
Delta R.T. 0.003 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:278 Resp: 41569

Ion	Ratio	Lower	Upper
278	100		
139	21.1	19.1	28.7
279	24.9	21.0	31.4



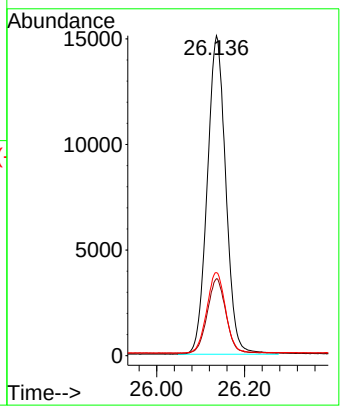


#41
Benzo(g,h,i)perylene
Concen: 0.842 ng
RT: 26.136 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 44249

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.7	29.5
138	26.0	21.8	32.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033483.D
Acq On : 19 Aug 2024 18:41
Operator : MA/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Aug 19 23:23:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.559	152	7702	0.400	ng		0.00
7) Naphthalene-d8	10.314	136	20093	0.400	ng		0.00
13) Acenaphthene-d10	14.189	164	10300	0.400	ng		0.00
19) Phenanthrene-d10	16.942	188	21446	0.400	ng		0.00
29) Chrysene-d12	21.148	240	15163	0.400	ng		0.00
35) Perylene-d12	23.320	264	14214	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.190	112	40890	1.888	ng		0.00
5) Phenol-d6	6.743	99	49228	1.739	ng		0.00
8) Nitrobenzene-d5	8.691	82	27737	1.822	ng		0.00
11) 2-Methylnaphthalene-d10	11.915	152	48489	1.605	ng		0.00
14) 2,4,6-Tribromophenol	15.688	330	9316	1.771	ng		0.00
15) 2-Fluorobiphenyl	12.810	172	71311	1.711	ng		0.00
27) Fluoranthene-d10	18.980	212	87075	1.549	ng		0.00
31) Terphenyl-d14	19.597	244	57186	1.957	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.190	88	15020	1.812	ng		100
3) n-Nitrosodimethylamine	3.472	42	17709	1.649	ng		96
6) bis(2-Chloroethyl)ether	6.996	93	35921	1.627	ng		100
9) Naphthalene	10.368	128	90555	1.661	ng		99
10) Hexachlorobutadiene	10.667	225	18053	1.726	ng	#	99
12) 2-Methylnaphthalene	11.990	142	57541	1.577	ng		99
16) Acenaphthylene	13.911	152	78001	1.648	ng		100
17) Acenaphthene	14.253	154	54451	1.672	ng		98
18) Fluorene	15.247	166	67863	1.592	ng		100
20) 4,6-Dinitro-2-methylph...	15.322	198	5910	2.209	ng	#	73
21) 4-Bromophenyl-phenylether	16.147	248	21901	1.712	ng		98
22) Hexachlorobenzene	16.259	284	24018	1.681	ng		99
23) Atrazine	16.420	200	17440	1.712	ng		99
24) Pentachlorophenol	16.594	266	10462	1.789	ng		98
25) Phenanthrene	16.979	178	100158	1.632	ng		100
26) Anthracene	17.066	178	89744	1.655	ng		99
28) Fluoranthene	19.012	202	112640	1.513	ng		100
30) Pyrene	19.374	202	112513	1.842	ng		100
32) Benzo(a)anthracene	21.130	228	92764	1.649	ng		99
33) Chrysene	21.184	228	91851	1.637	ng		100
34) Bis(2-ethylhexyl)phtha...	21.095	149	52726	1.959	ng		99
36) Indeno(1,2,3-cd)pyrene	25.478	276	99989	1.697	ng		99
37) Benzo(b)fluoranthene	22.674	252	89426	1.685	ng	#	93
38) Benzo(k)fluoranthene	22.718	252	89588	1.666	ng	#	91
39) Benzo(a)pyrene	23.224	252	74888	1.673	ng	#	90
40) Dibenzo(a,h)anthracene	25.496	278	80194	1.720	ng		94
41) Benzo(g,h,i)perylene	26.130	276	85629	1.670	ng		98

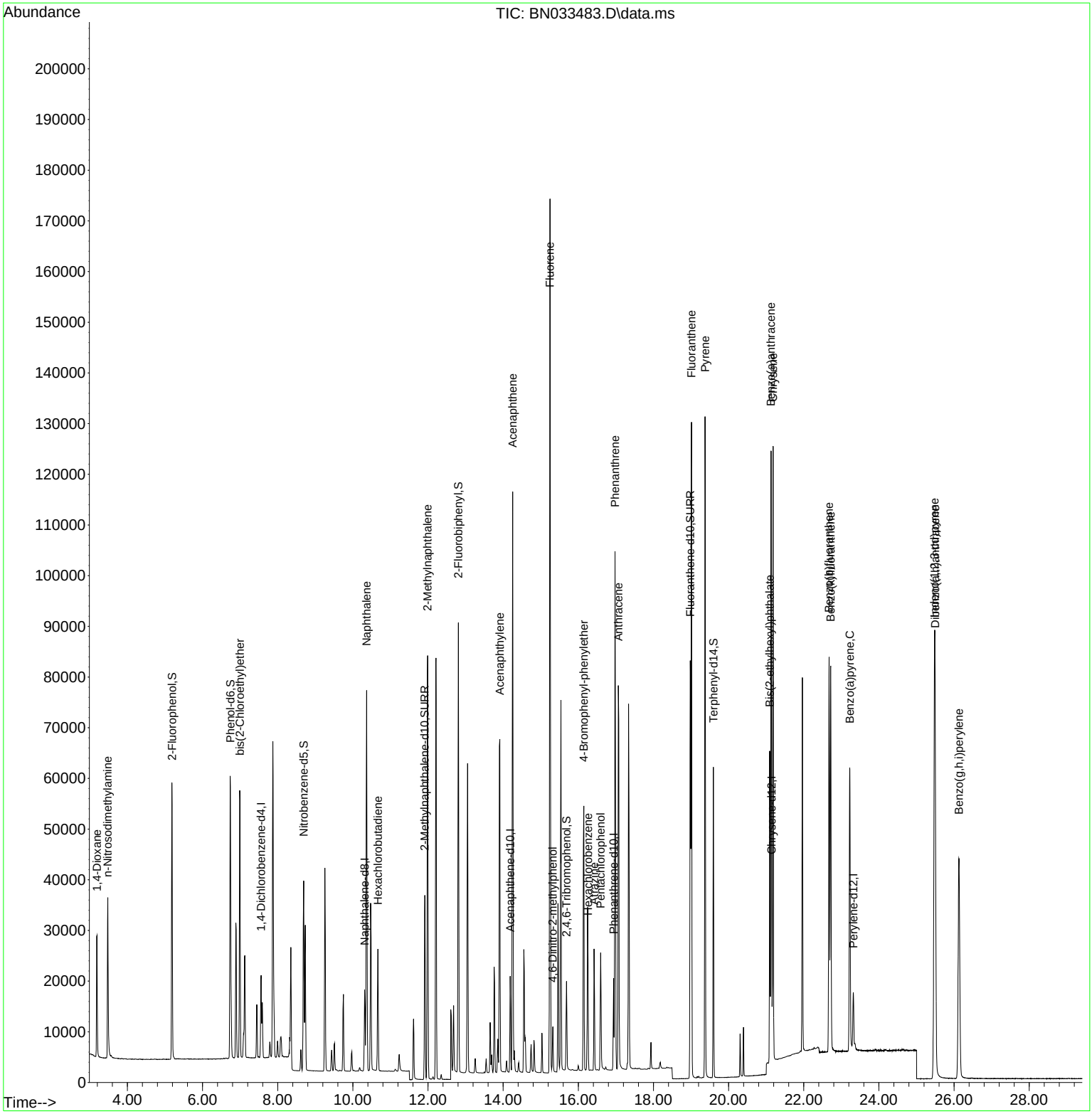
(#) = qualifier out of range (m) = manual integration (+) = signals summed

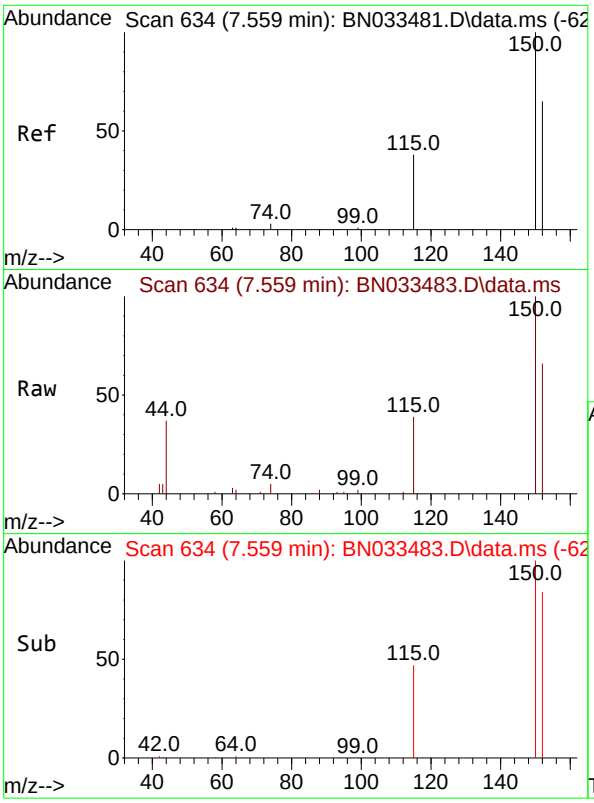
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033483.D
Acq On : 19 Aug 2024 18:41
Operator : MA/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Aug 19 23:23:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration



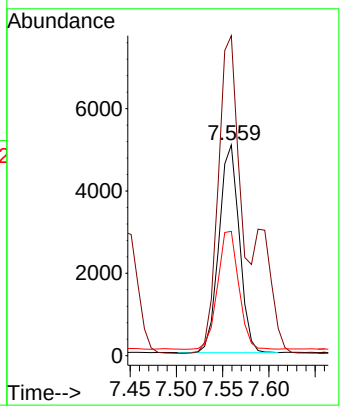


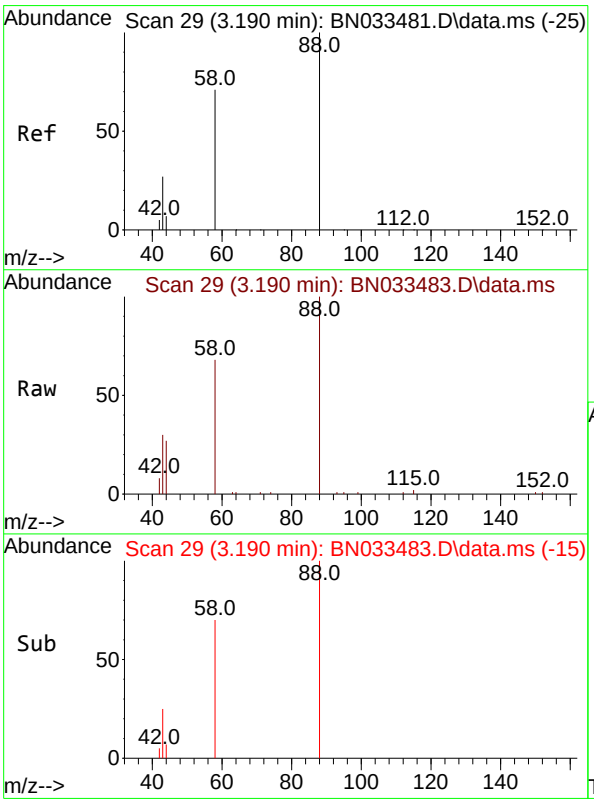
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 7702

Ion	Ratio	Lower	Upper
152	100		
150	151.8	122.2	183.2
115	59.0	47.2	70.8

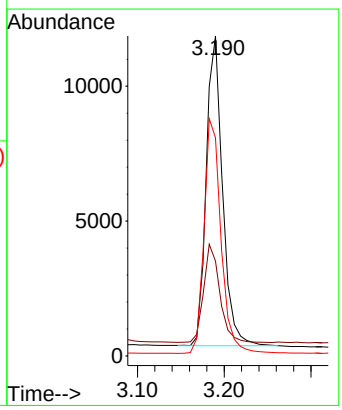


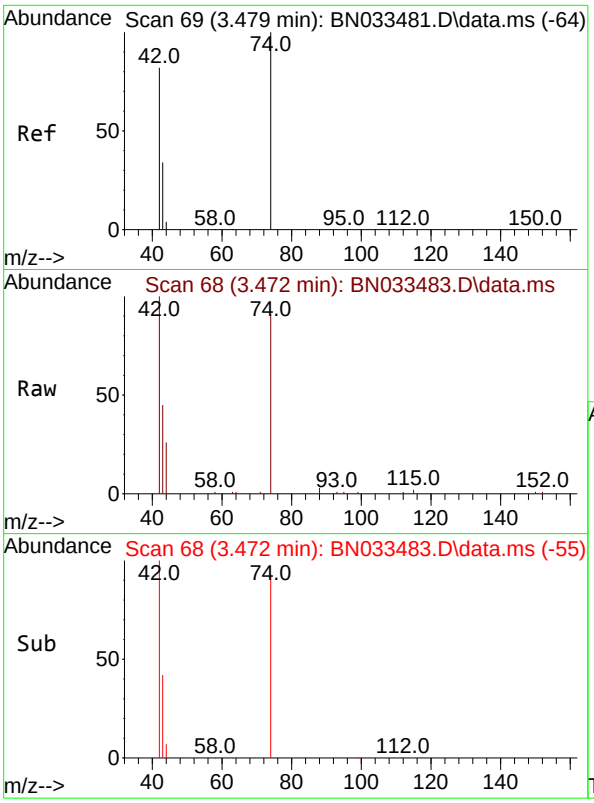


#2
1,4-Dioxane
Concen: 1.812 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion: 88 Resp: 15020

Ion	Ratio	Lower	Upper
88	100		
43	31.3	25.0	37.4
58	78.6	62.5	93.7



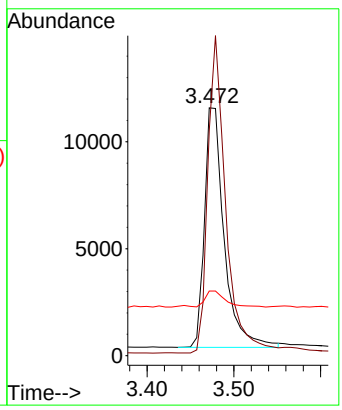


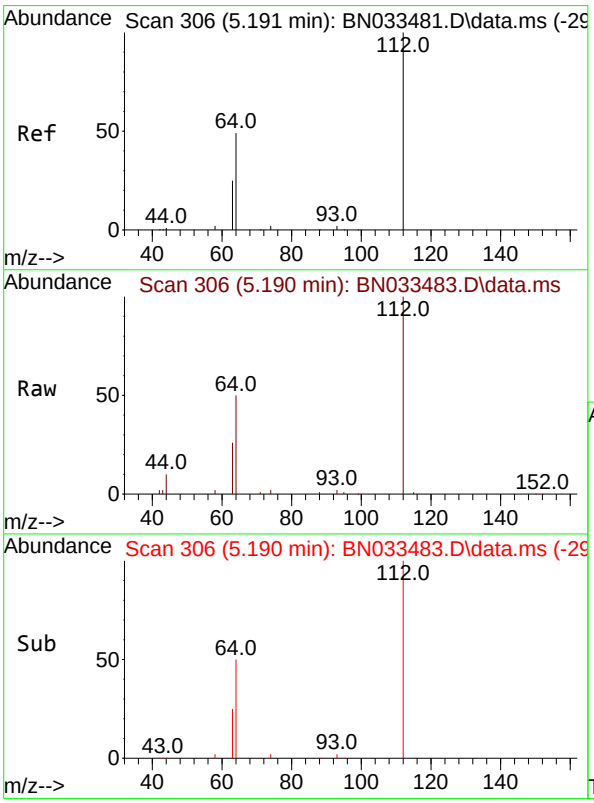
#3
n-Nitrosodimethylamine
Concen: 1.649 ng
RT: 3.472 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 17709

Ion	Ratio	Lower	Upper
42	100		
74	120.3	100.2	150.2
44	7.1	5.3	7.9

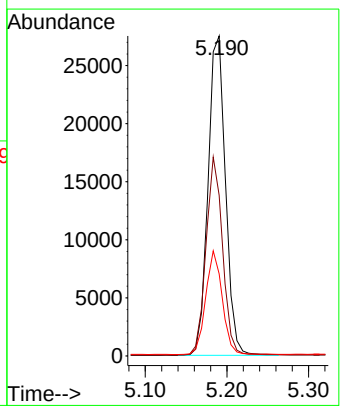


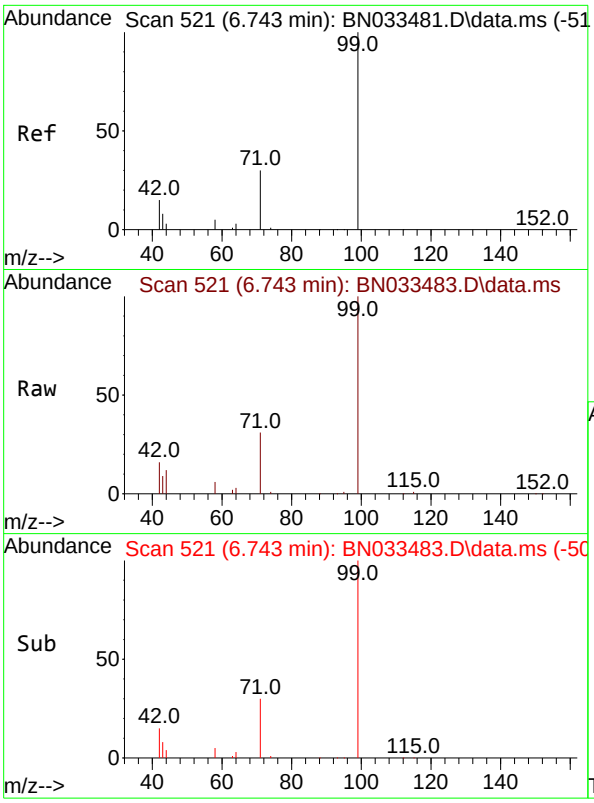


#4
2-Fluorophenol
Concen: 1.888 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:112 Resp: 40890

Ion	Ratio	Lower	Upper
112	100		
64	59.0	47.1	70.7
63	30.8	24.9	37.3



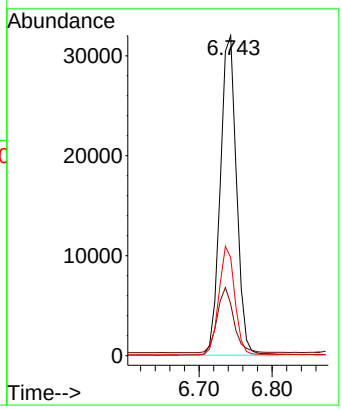


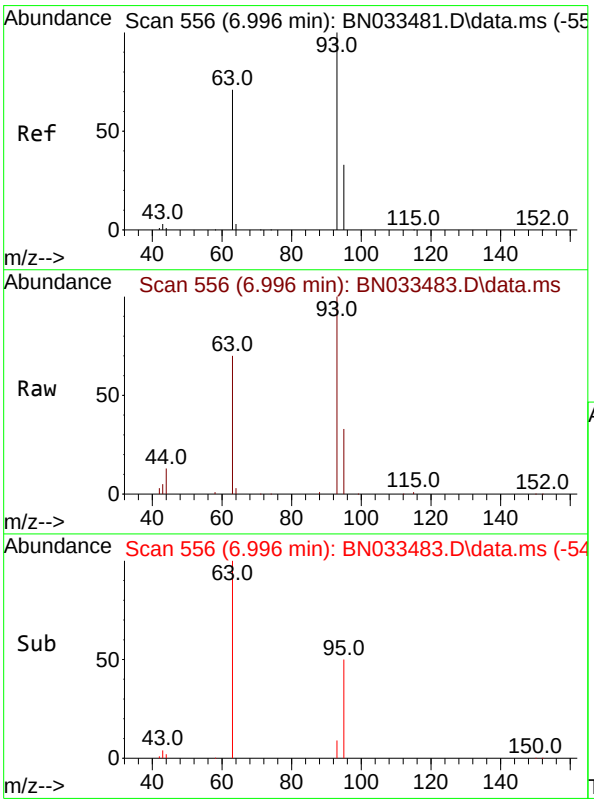
#5
Phenol-d6
Concen: 1.739 ng
RT: 6.743 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 49228

Ion	Ratio	Lower	Upper
99	100		
42	20.8	16.6	24.8
71	33.3	26.2	39.4

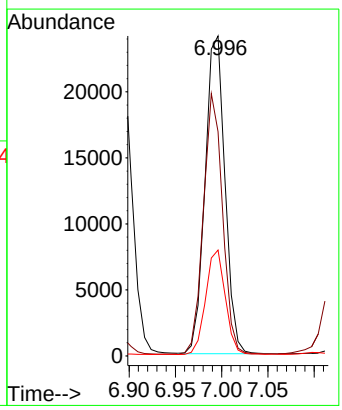


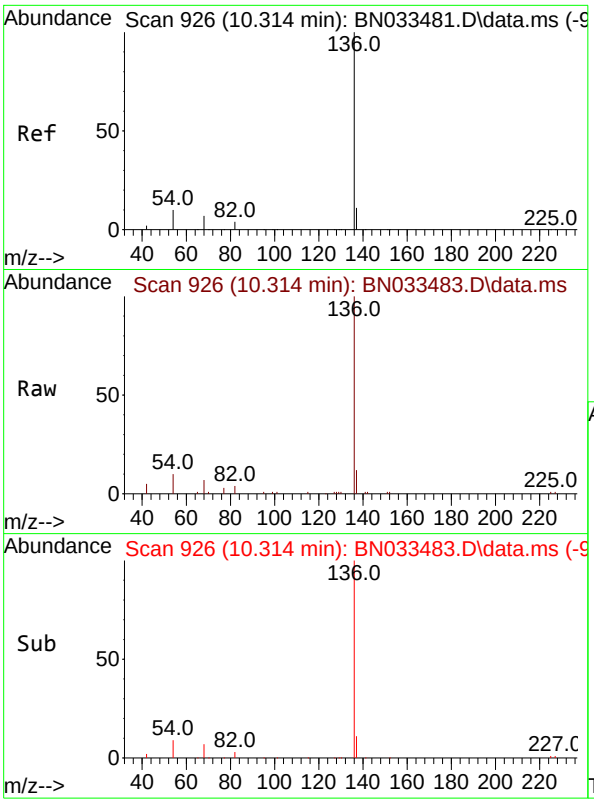


#6
bis(2-Chloroethyl)ether
Concen: 1.627 ng
RT: 6.996 min Scan# 556
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion: 93 Resp: 35921

Ion	Ratio	Lower	Upper
93	100		
63	79.1	63.0	94.4
95	32.6	26.0	39.0



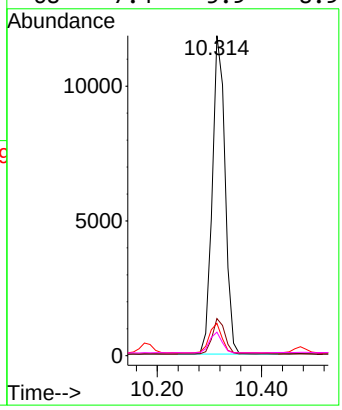


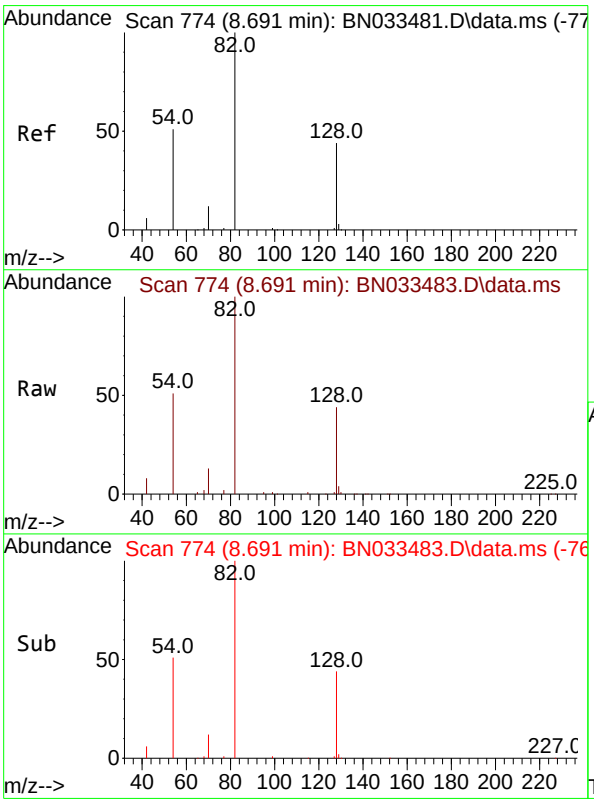
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 20093

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.0	13.6
54	10.1	8.3	12.5
68	7.4	5.9	8.9

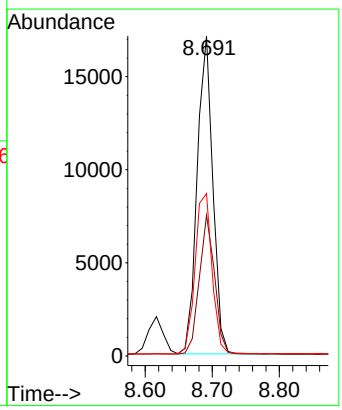


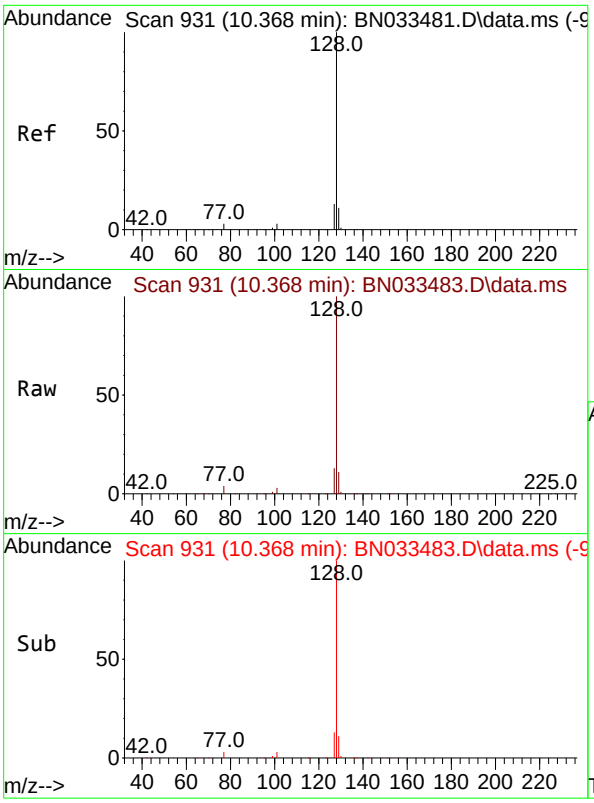


#8
Nitrobenzene-d5
Concen: 1.822 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion: 82 Resp: 27737

Ion	Ratio	Lower	Upper
82	100		
128	44.0	36.0	54.0
54	50.8	42.0	63.0



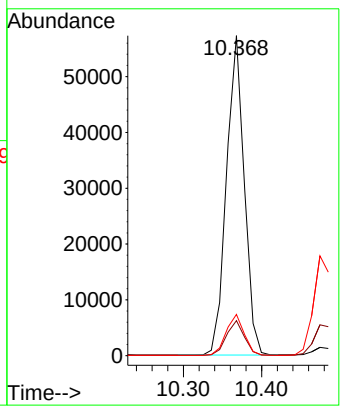


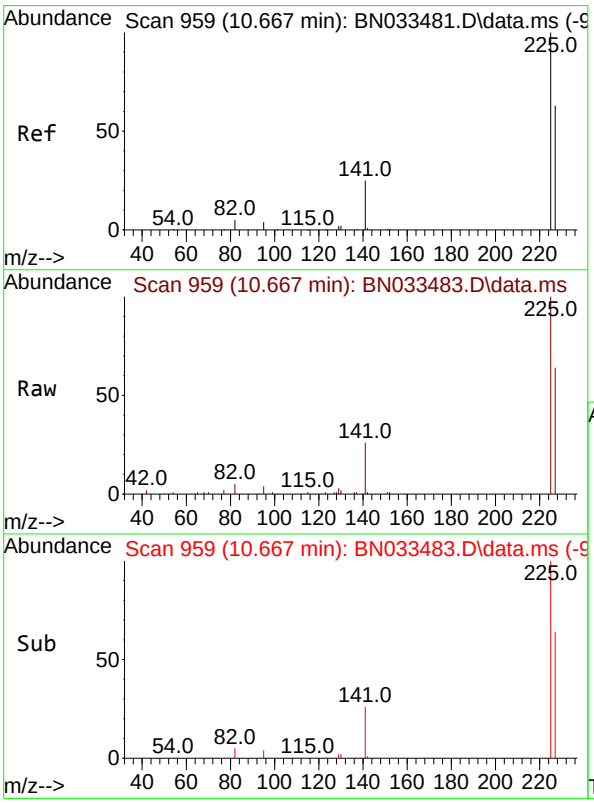
#9
Naphthalene
Concen: 1.661 ng
RT: 10.368 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 90555

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	12.9	10.7	16.1

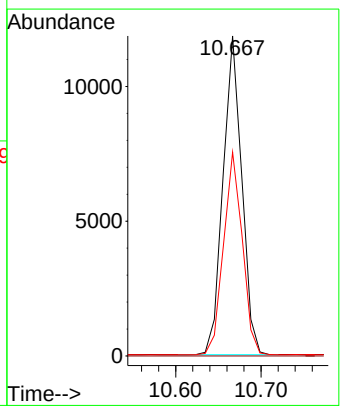


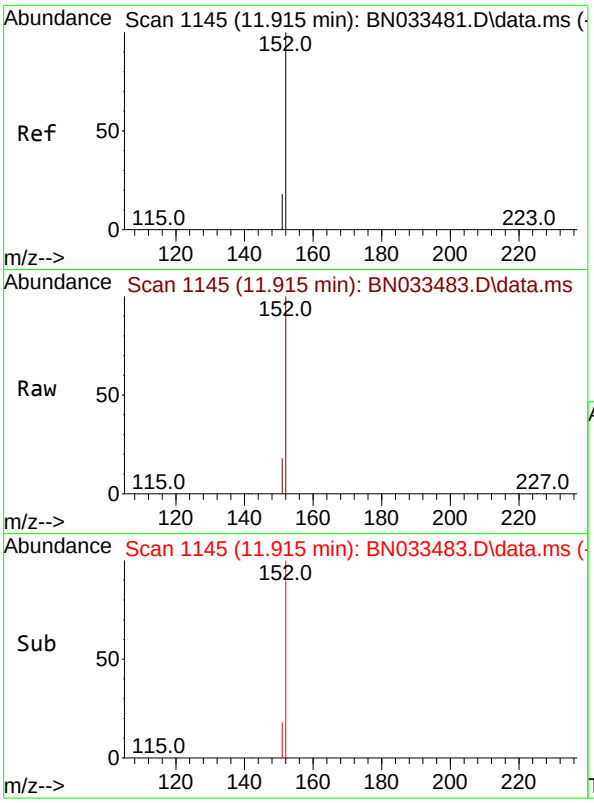


#10
Hexachlorobutadiene
Concen: 1.726 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:225 Resp: 18053

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.2	76.8



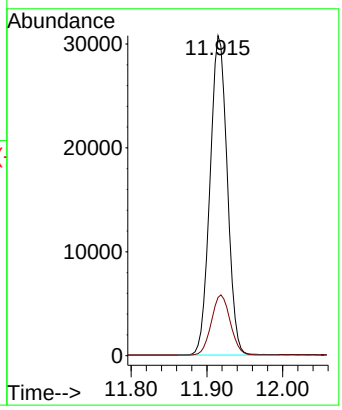


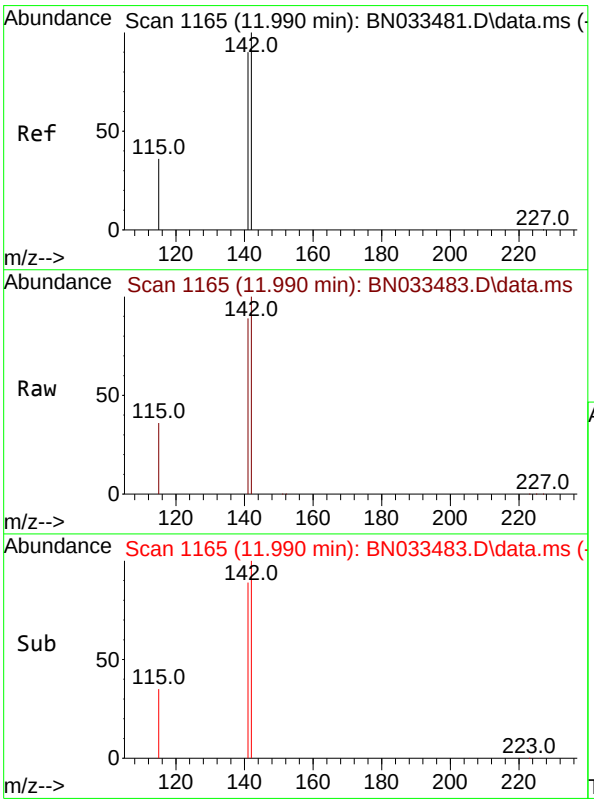
#11
2-Methylnaphthalene-d10
Concen: 1.605 ng
RT: 11.915 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 48489

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

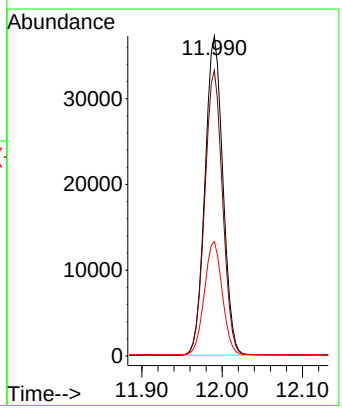


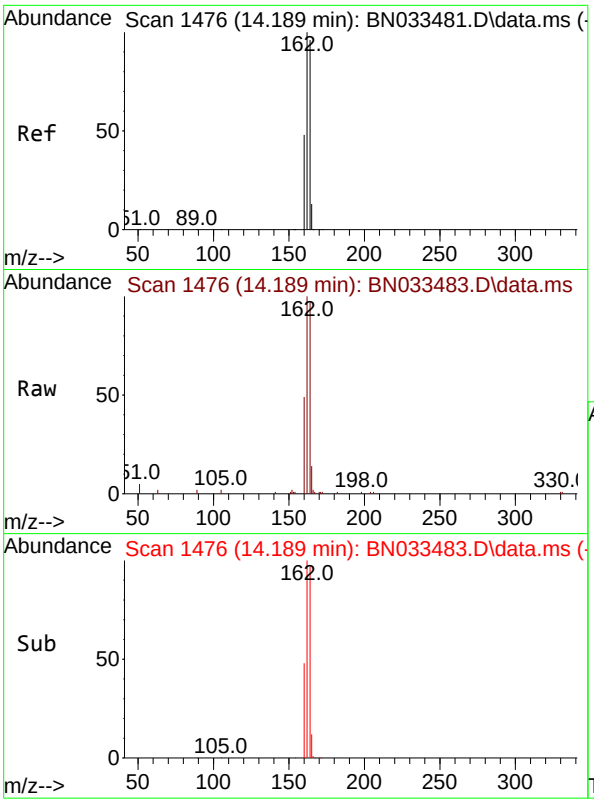


#12
2-Methylnaphthalene
Concen: 1.577 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:142 Resp: 57541

Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.7	107.5
115	35.7	29.4	44.2



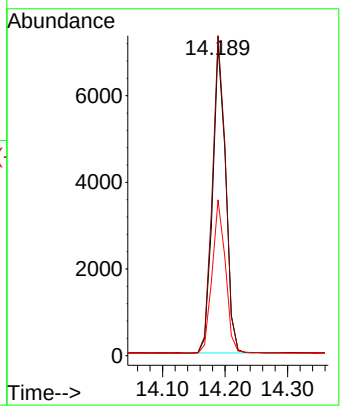


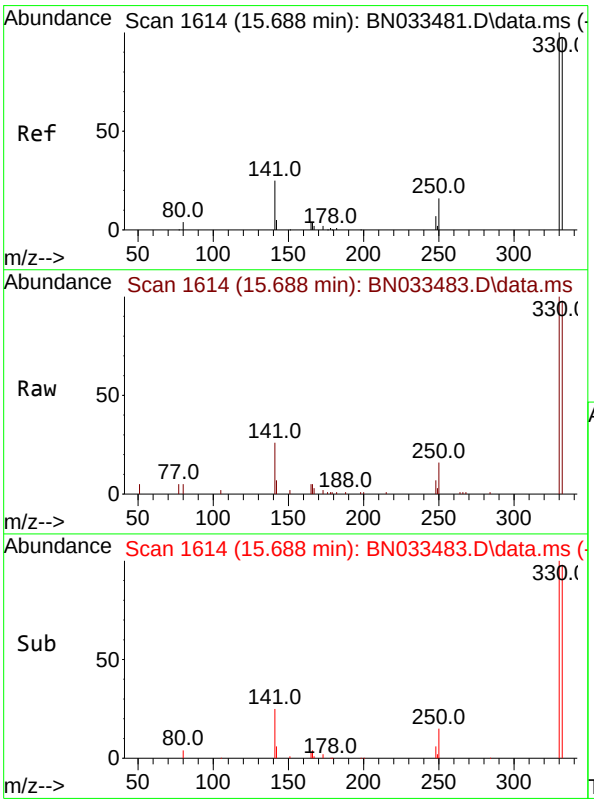
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 10300

Ion	Ratio	Lower	Upper
164	100		
162	103.0	83.5	125.3
160	50.2	40.2	60.4

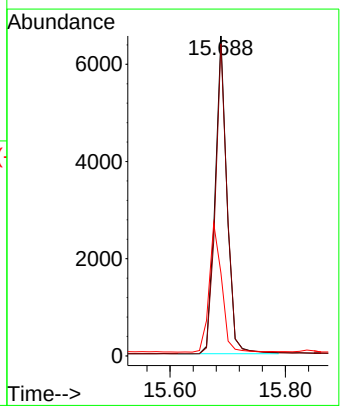


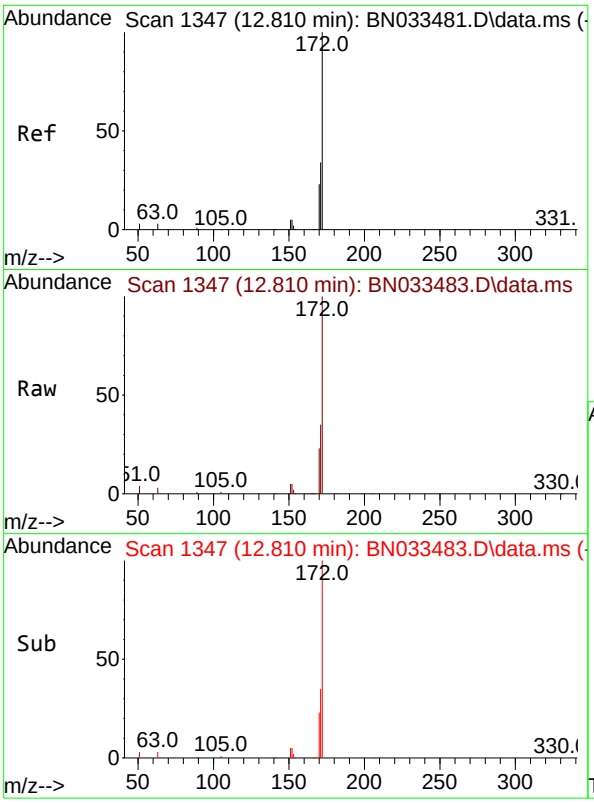


#14
2,4,6-Tribromophenol
Concen: 1.771 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:330 Resp: 9316

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.5	116.3
141	42.8	33.9	50.9



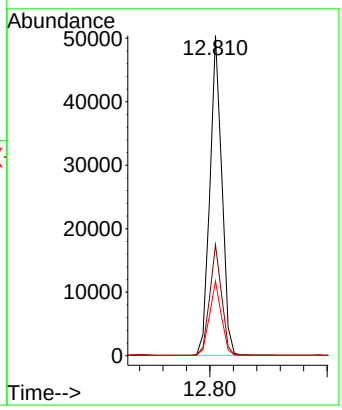


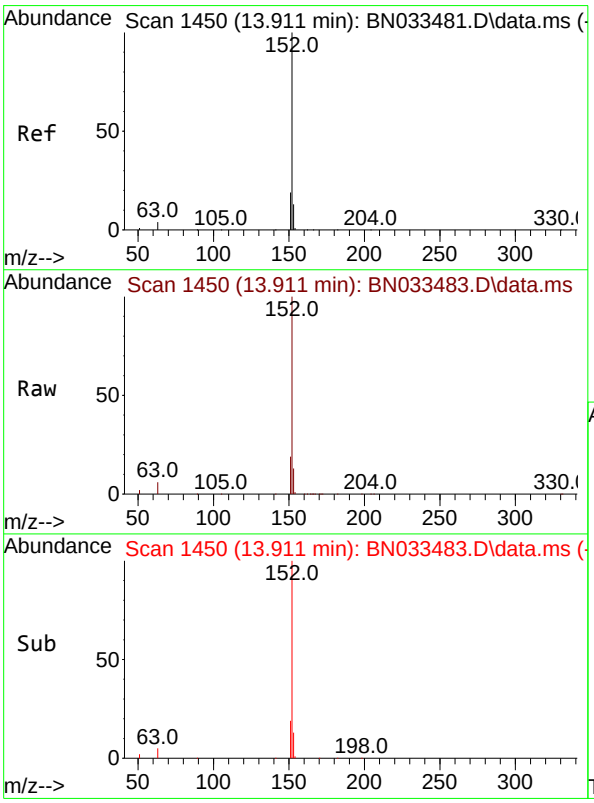
#15
2-Fluorobiphenyl
Concen: 1.711 ng
RT: 12.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 71311

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.7	41.5
170	23.3	18.3	27.5

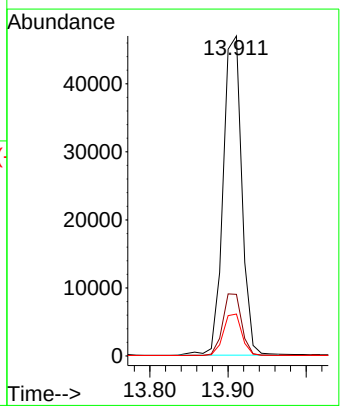


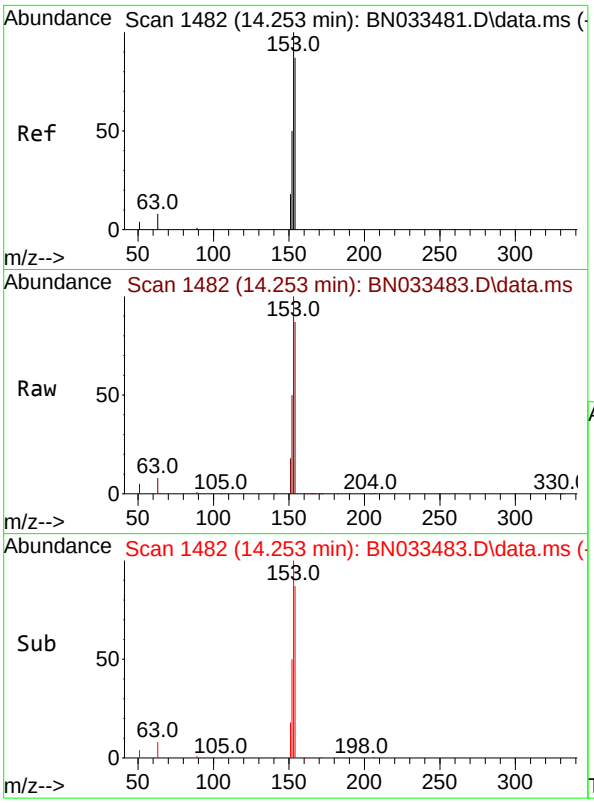


#16
Acenaphthylene
Concen: 1.648 ng
RT: 13.911 min Scan# 1450
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:152 Resp: 78001

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.7	23.5
153	13.0	10.3	15.5



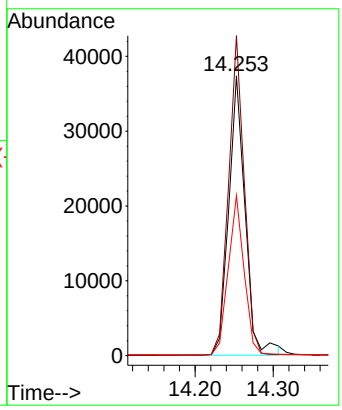


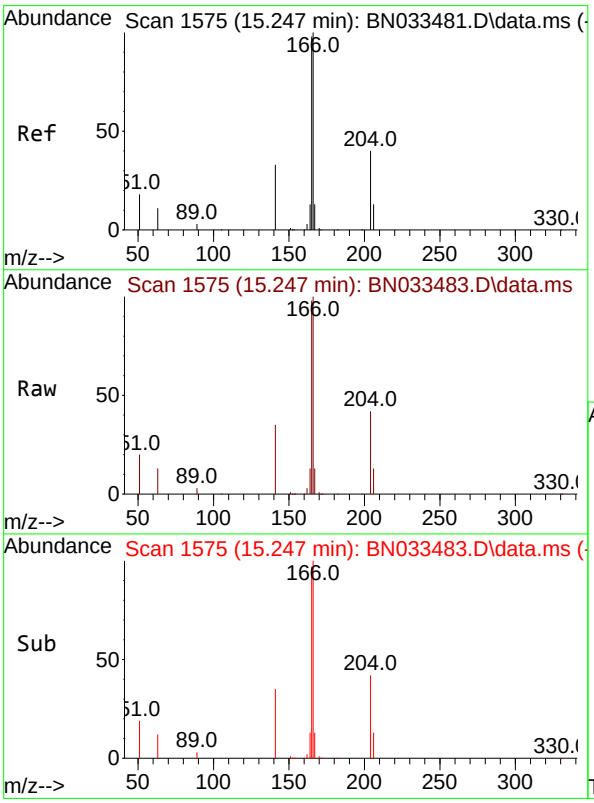
#17
Acenaphthene
Concen: 1.672 ng
RT: 14.253 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 54451

Ion	Ratio	Lower	Upper
154	100		
153	109.7	89.0	133.6
152	55.1	45.2	67.8

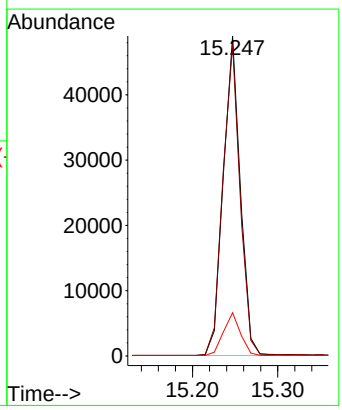


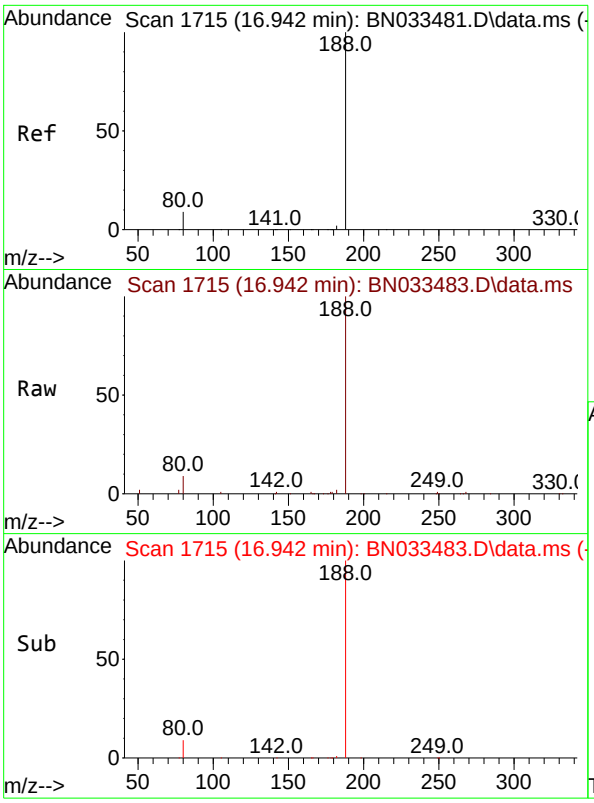


#18
Fluorene
Concen: 1.592 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:166 Resp: 67863

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.2	117.4
167	13.4	10.6	16.0



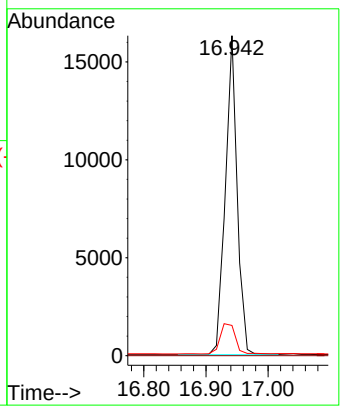


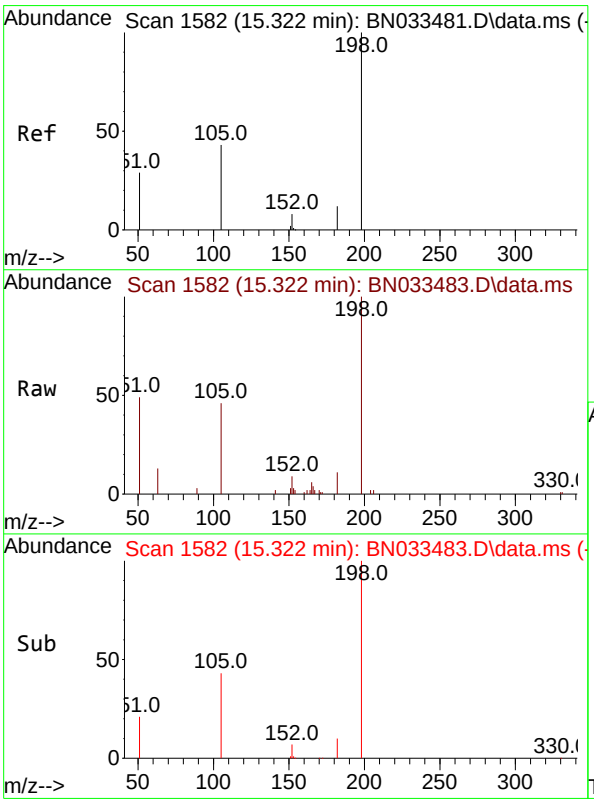
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 21446

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.5	7.8	11.8

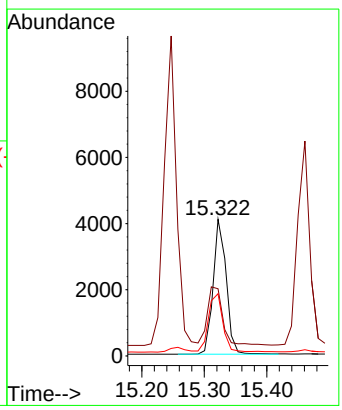


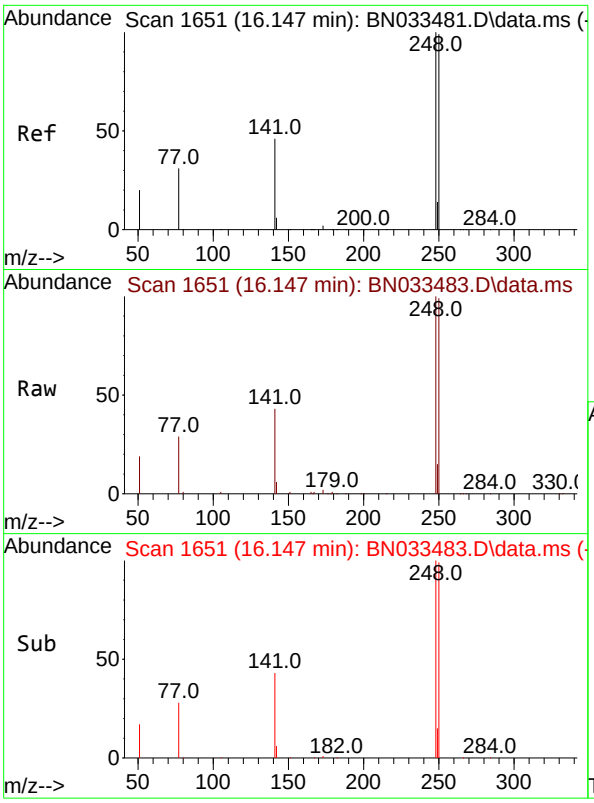


#20
4,6-Dinitro-2-methylphenol
Concen: 2.209 ng
RT: 15.322 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:198 Resp: 5910

Ion	Ratio	Lower	Upper
198	100		
51	49.1	65.1	97.7#
105	45.6	44.8	67.2



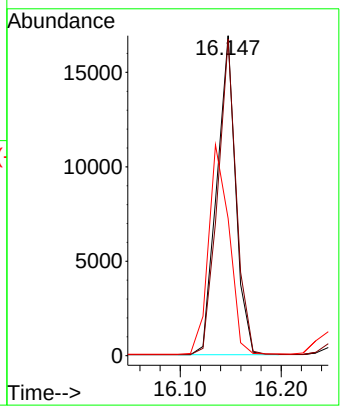


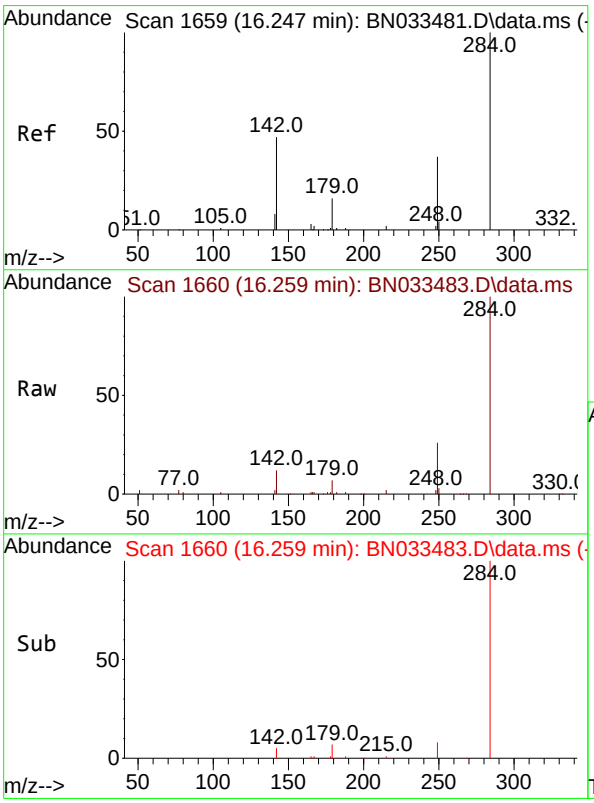
#21
4-Bromophenyl-phenylether
Concen: 1.712 ng
RT: 16.147 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 21901

Ion	Ratio	Lower	Upper
248	100		
250	98.9	79.2	118.8
141	42.9	37.9	56.9

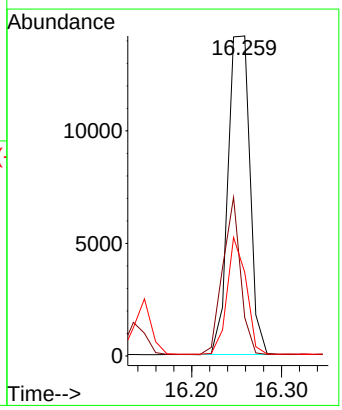


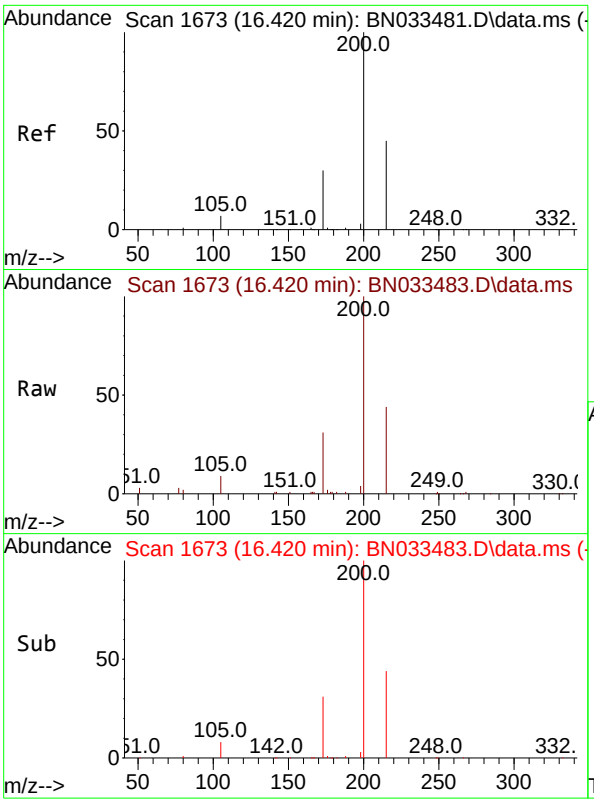


#22
Hexachlorobenzene
Concen: 1.681 ng
RT: 16.259 min Scan# 1660
Delta R.T. 0.012 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:284 Resp: 24018

Ion	Ratio	Lower	Upper
284	100		
142	39.9	31.8	47.6
249	31.8	26.0	39.0



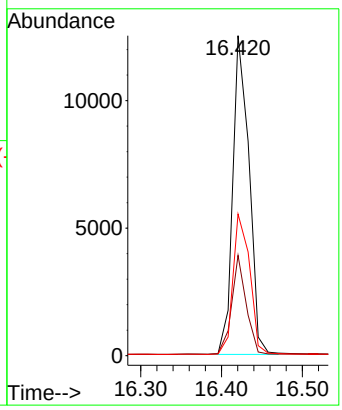


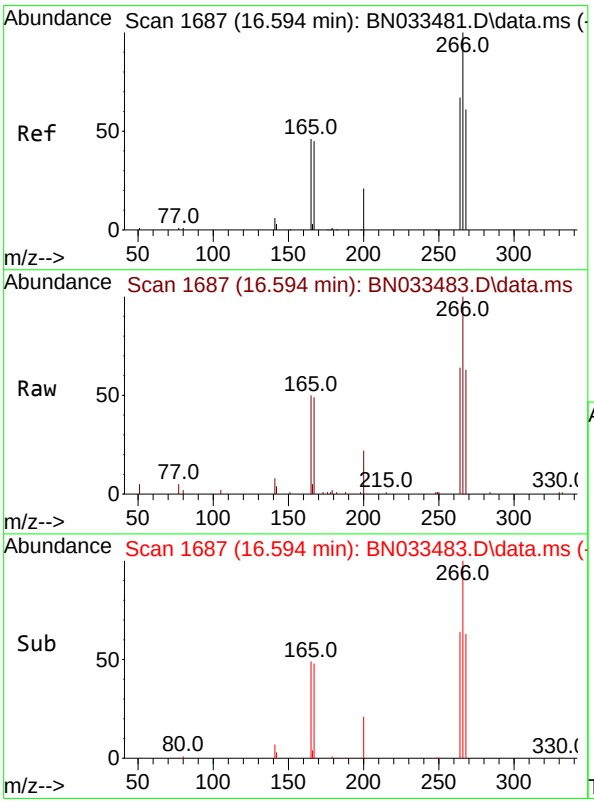
#23
Atrazine
Concen: 1.712 ng
RT: 16.420 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 17440

Ion	Ratio	Lower	Upper
200	100		
173	31.4	25.3	37.9
215	44.3	36.6	54.8

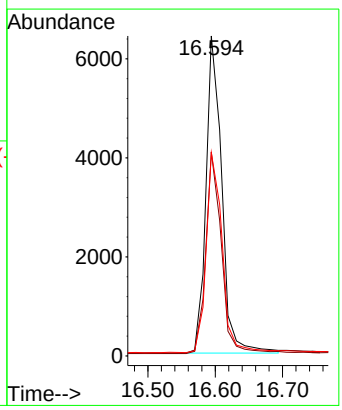


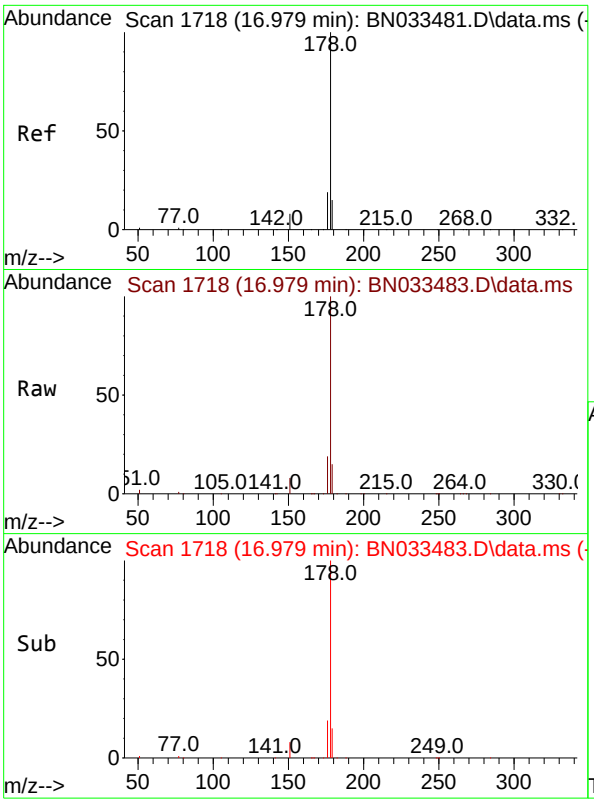


#24
Pentachlorophenol
Concen: 1.789 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:266 Resp: 10462

Ion	Ratio	Lower	Upper
266	100		
264	62.4	51.9	77.9
268	63.9	51.0	76.4



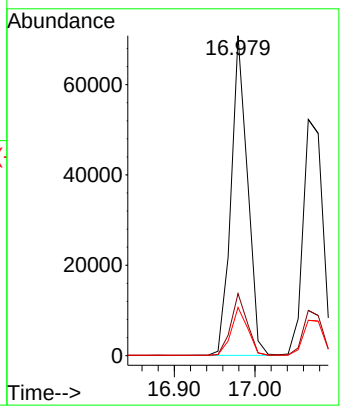


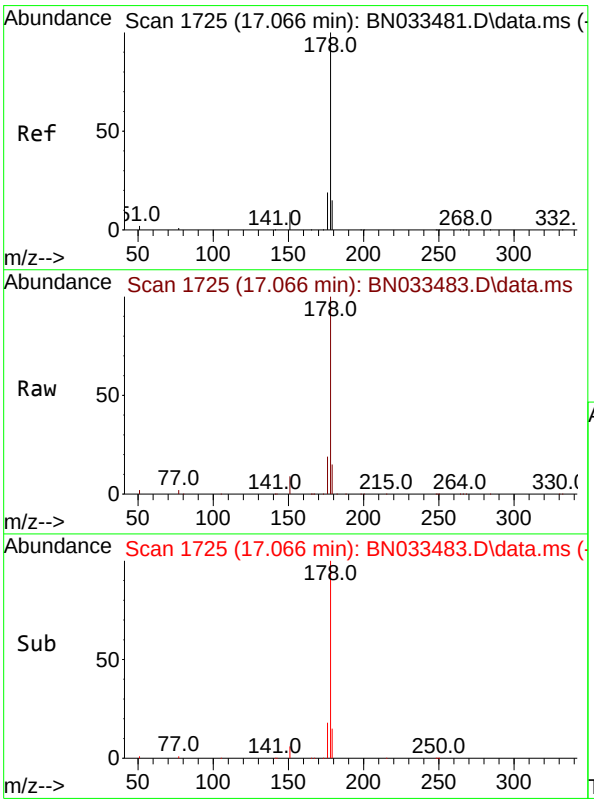
#25
Phenanthrene
Concen: 1.632 ng
RT: 16.979 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 100158

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.1	12.3	18.5

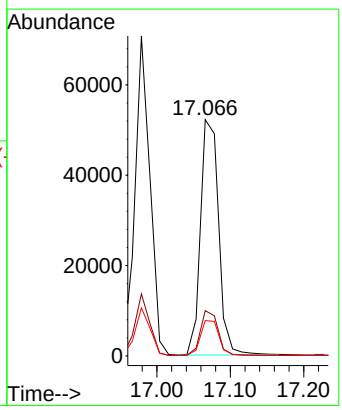


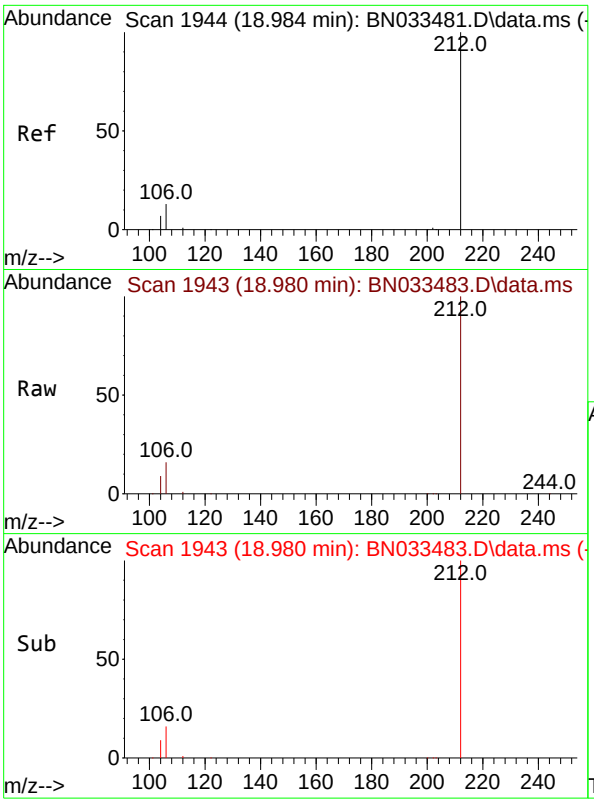


#26
Anthracene
Concen: 1.655 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:178 Resp: 89744

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.2	12.4	18.6



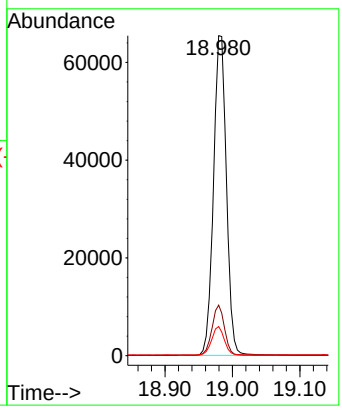


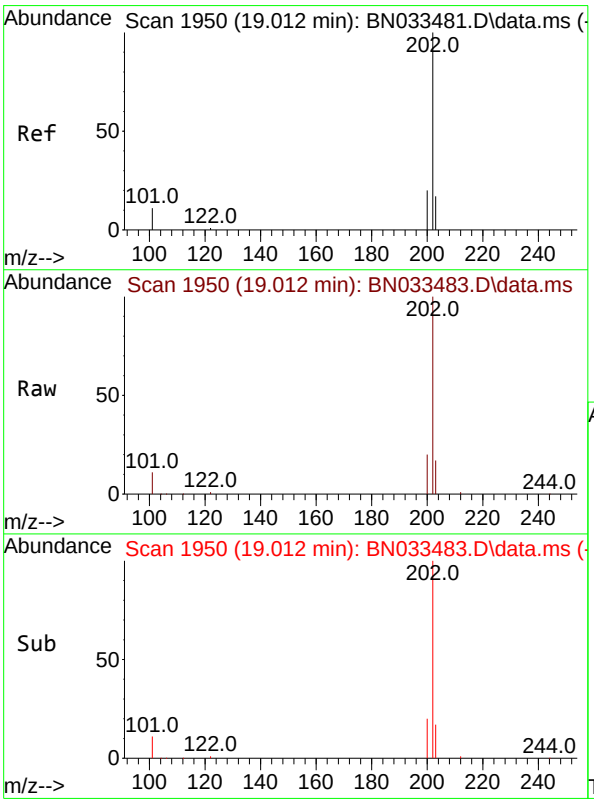
#27
Fluoranthene-d10
Concen: 1.549 ng
RT: 18.980 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 87075

Ion	Ratio	Lower	Upper
212	100		
106	15.2	12.3	18.5
104	8.6	7.0	10.4

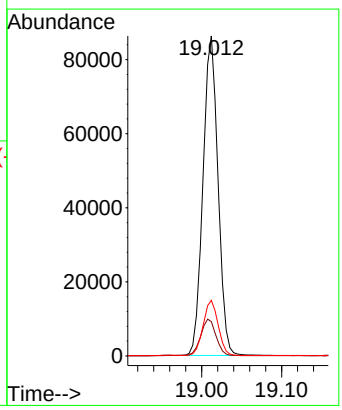


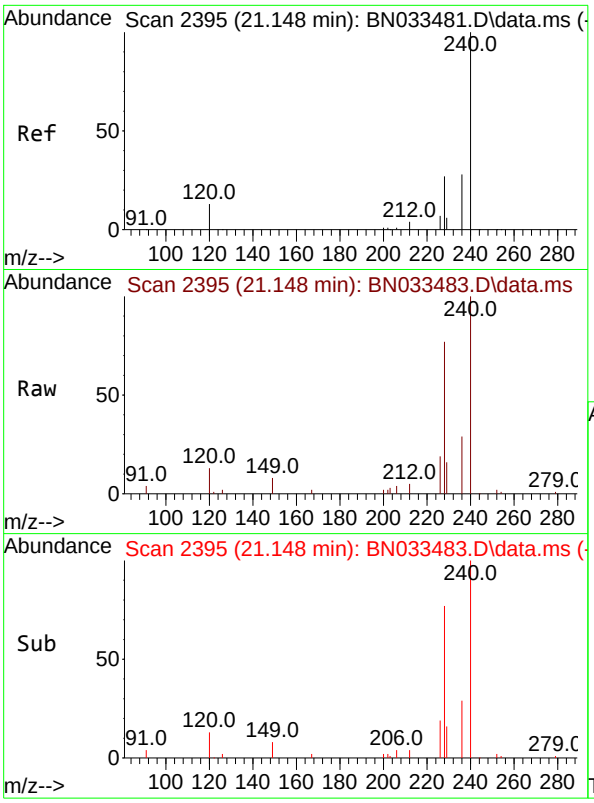


#28
Fluoranthene
Concen: 1.513 ng
RT: 19.012 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:202 Resp: 112640

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.5	14.3
203	17.2	13.8	20.6



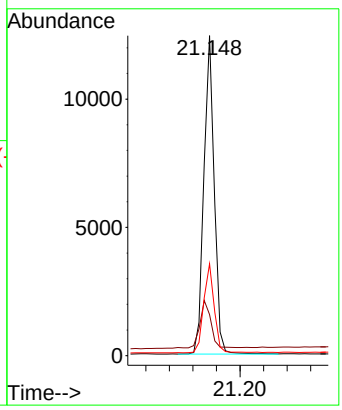


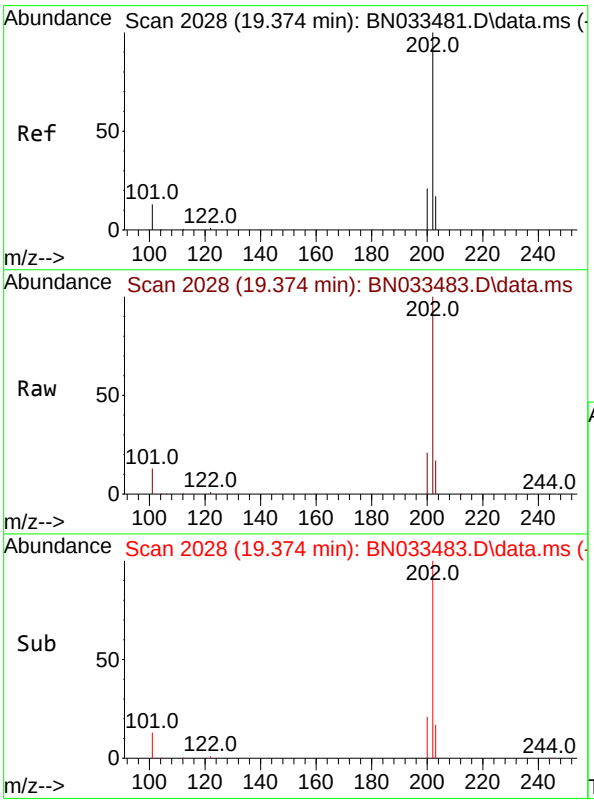
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 15163

Ion	Ratio	Lower	Upper
240	100		
120	12.9	12.4	18.6
236	28.7	23.0	34.6

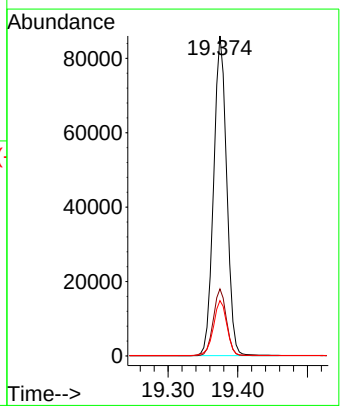


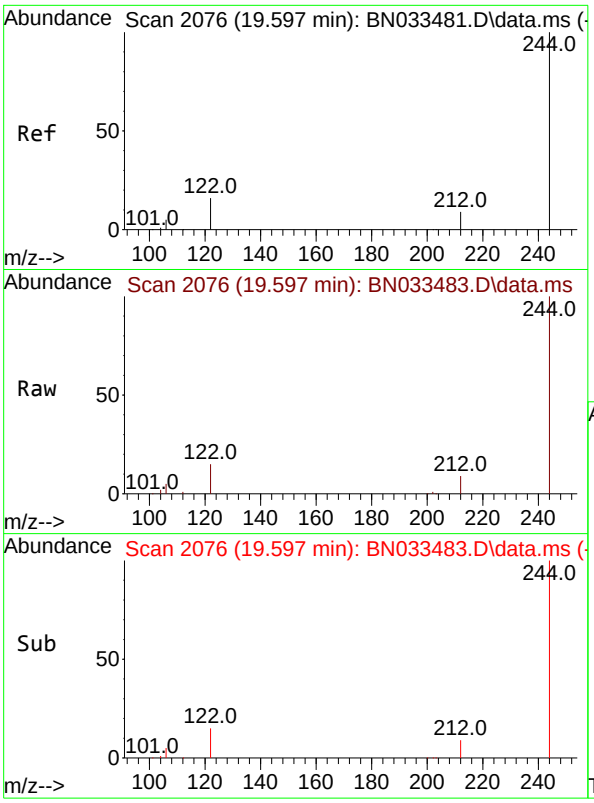


#30
Pyrene
Concen: 1.842 ng
RT: 19.374 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:202 Resp: 112513

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	17.8	14.2	21.4



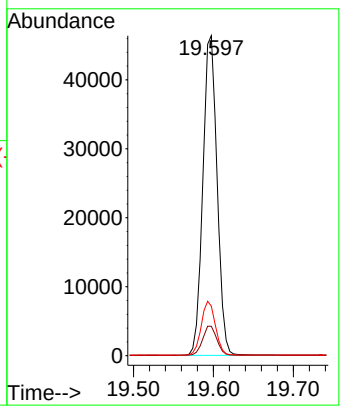


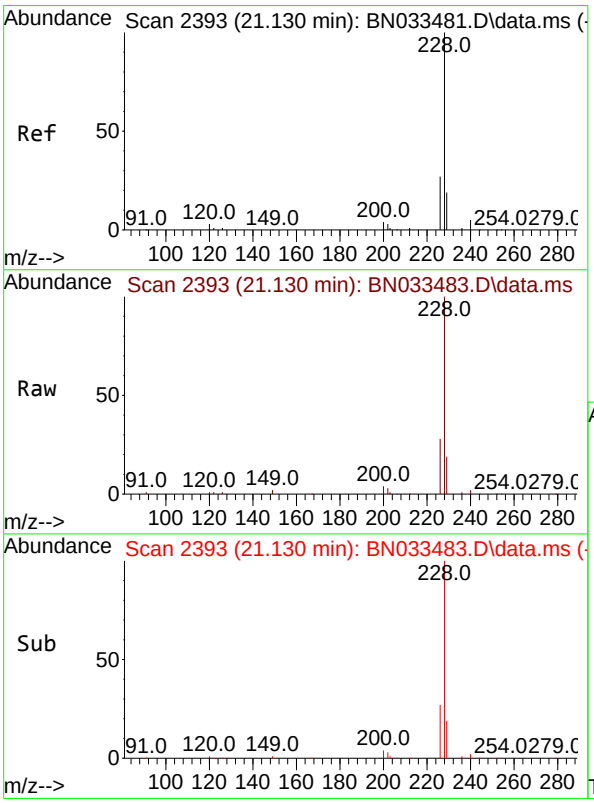
#31
Terphenyl-d14
Concen: 1.957 ng
RT: 19.597 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 57186

Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.8	11.6
122	15.5	13.3	19.9

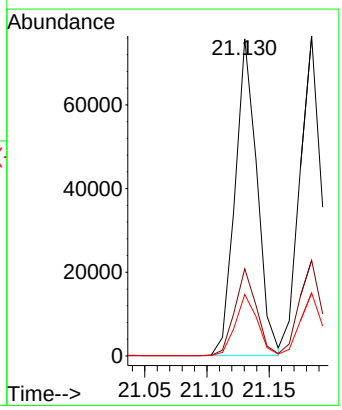


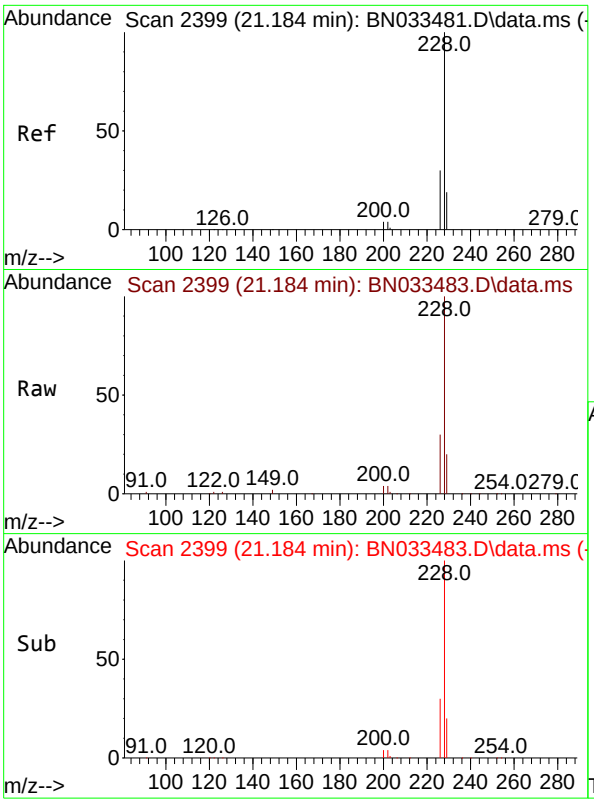


#32
Benzo(a)anthracene
Concen: 1.649 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:228 Resp: 92764

Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.8	32.6
229	19.4	15.8	23.6



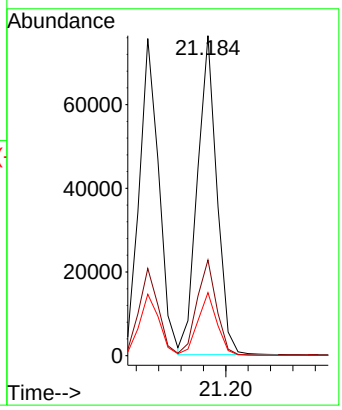


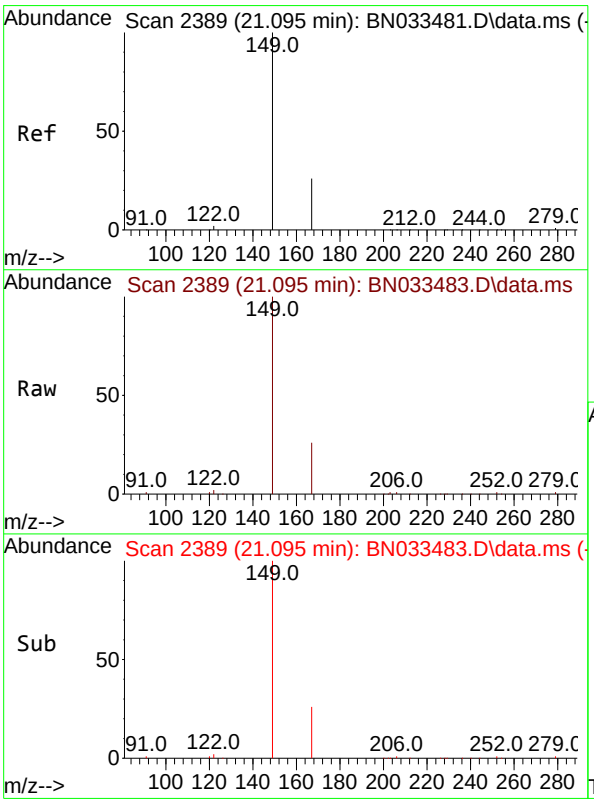
#33
Chrysene
Concen: 1.637 ng
RT: 21.184 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 91851

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.8	35.8
229	19.7	15.6	23.4

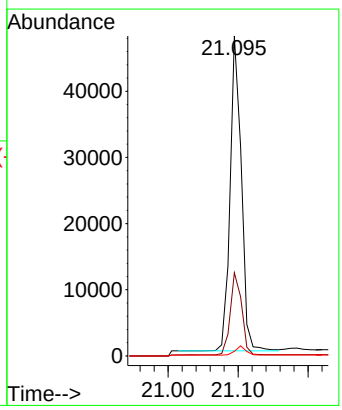


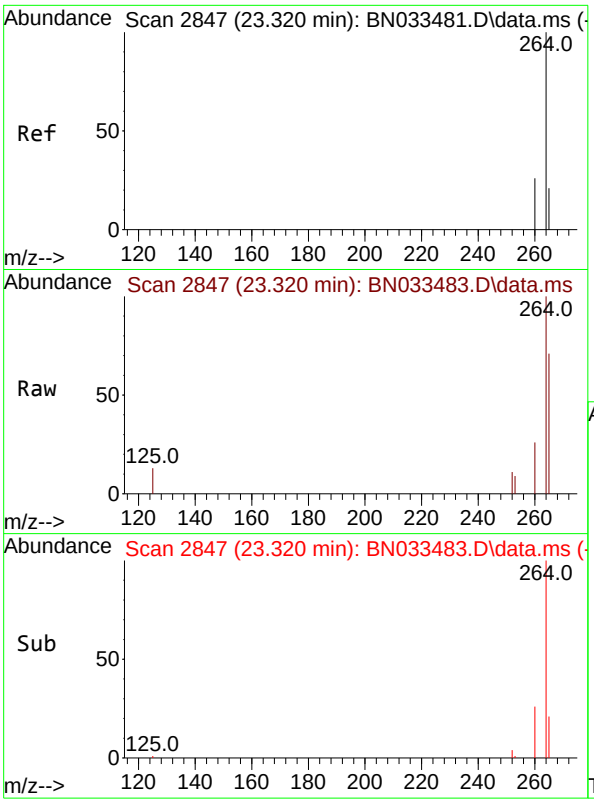


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.959 ng
RT: 21.095 min Scan# 2389
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:149 Resp: 52726

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.5	32.3
279	2.7	2.2	3.2



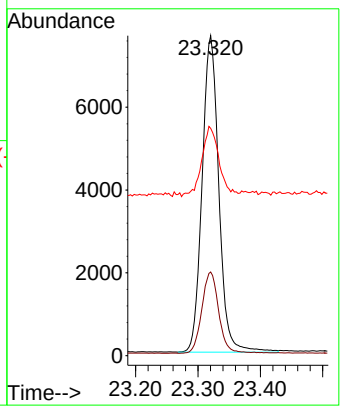


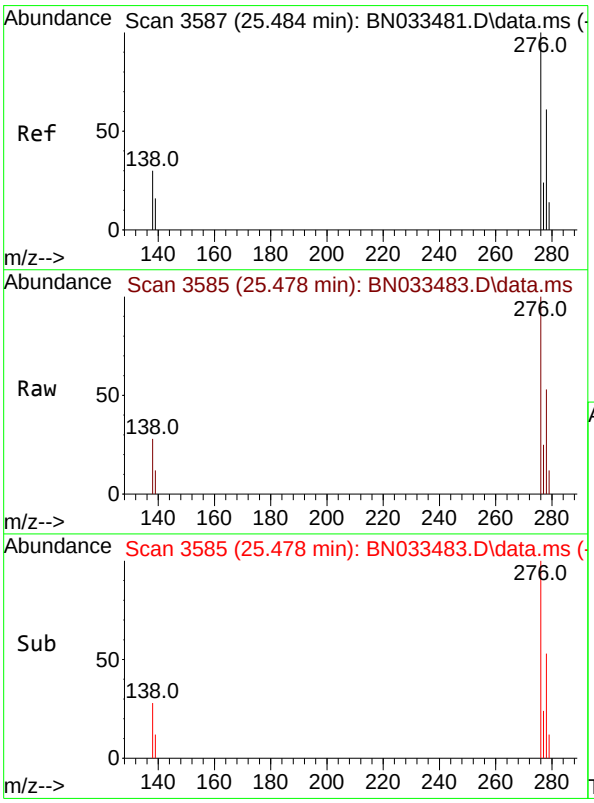
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.320 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 14214

Ion	Ratio	Lower	Upper
264	100		
260	26.2	20.8	31.2
265	71.0	52.2	78.2

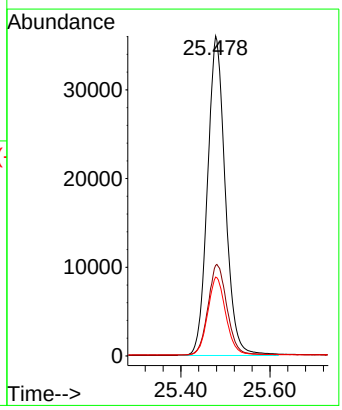


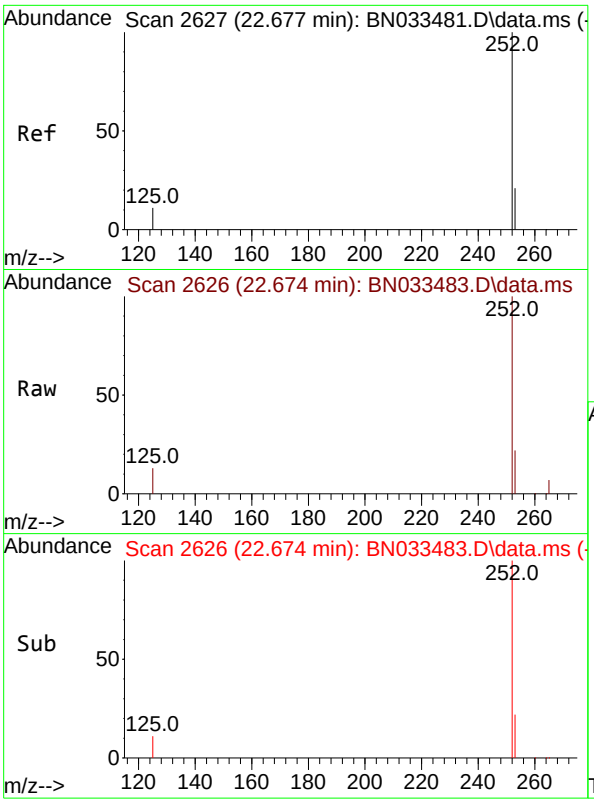


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.697 ng
RT: 25.478 min Scan# 3585
Delta R.T. -0.006 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:276 Resp: 99989

Ion	Ratio	Lower	Upper
276	100		
138	30.0	24.4	36.6
277	24.9	19.8	29.6



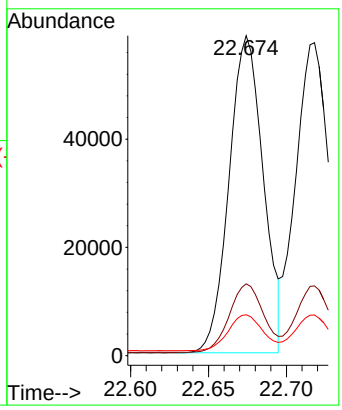


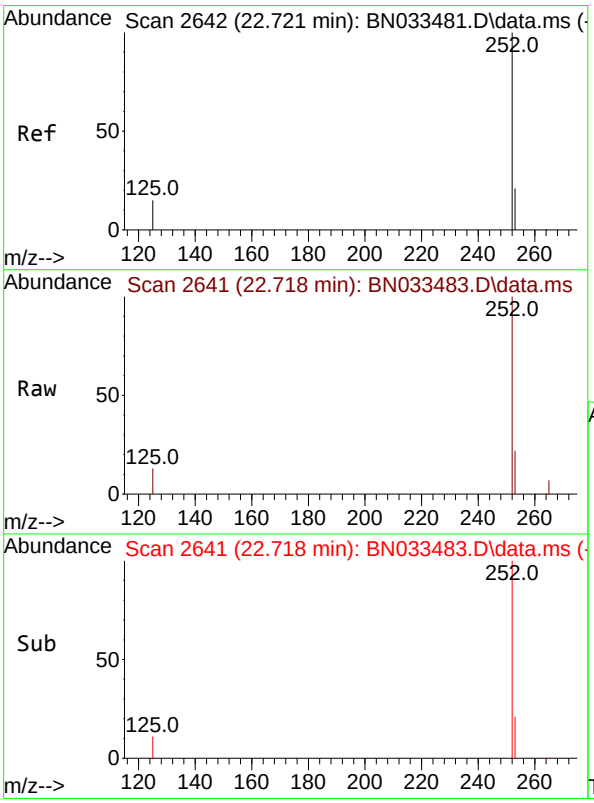
#37
Benzo(b)fluoranthene
Concen: 1.685 ng
RT: 22.674 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 89426

Ion	Ratio	Lower	Upper
252	100		
253	22.4	19.8	29.8
125	12.8	13.9	20.9#

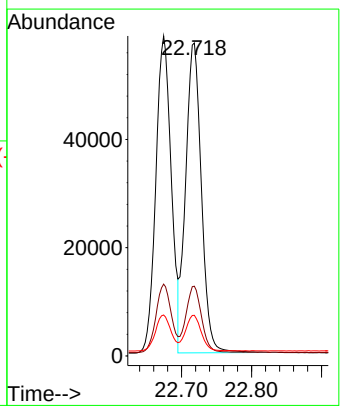


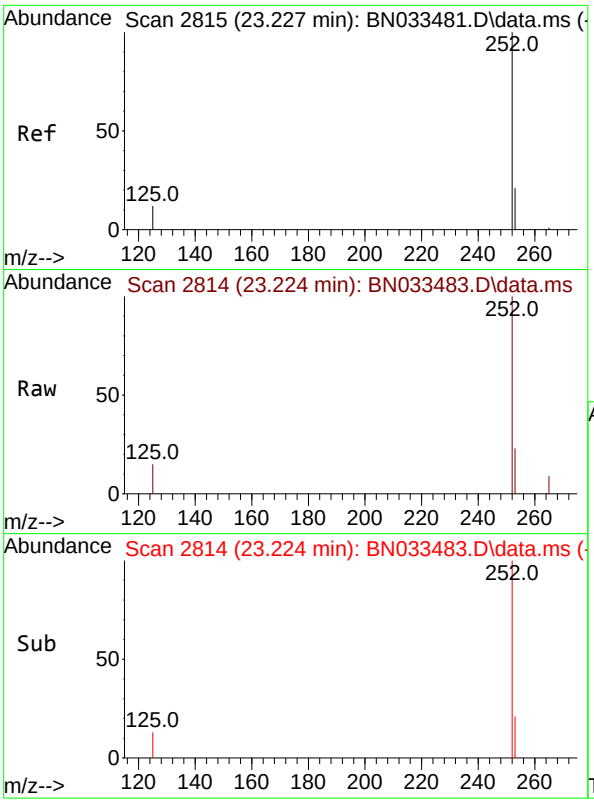


#38
Benzo(k)fluoranthene
Concen: 1.666 ng
RT: 22.718 min Scan# 2641
Delta R.T. -0.003 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:252 Resp: 89588

Ion	Ratio	Lower	Upper
252	100		
253	22.3	19.8	29.8
125	13.0	15.8	23.8#



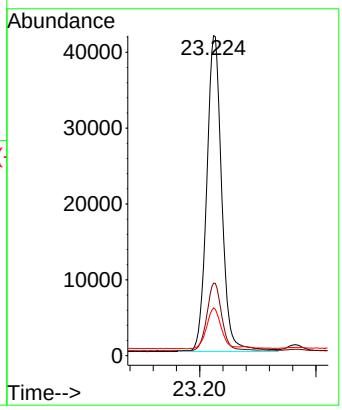


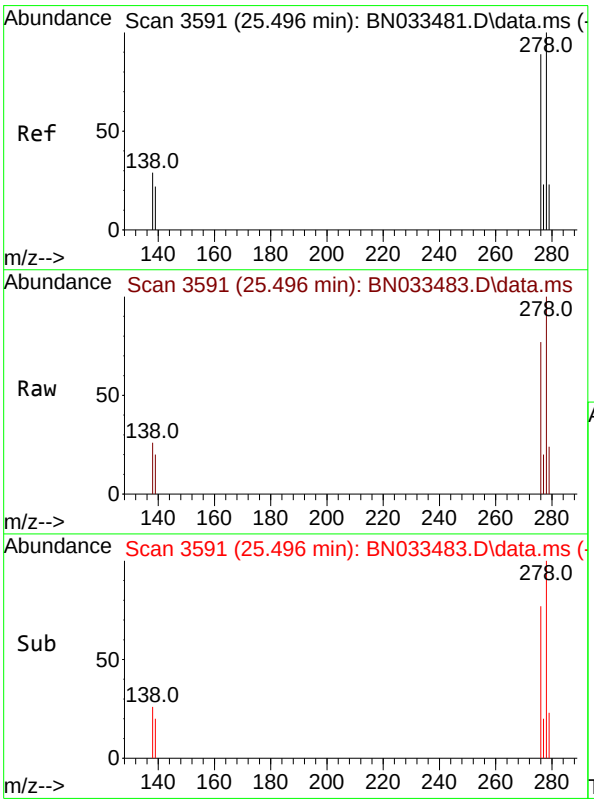
#39
Benzo(a)pyrene
Concen: 1.673 ng
RT: 23.224 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 74888

Ion	Ratio	Lower	Upper
252	100		
253	22.7	21.5	32.3
125	14.9	17.0	25.4#

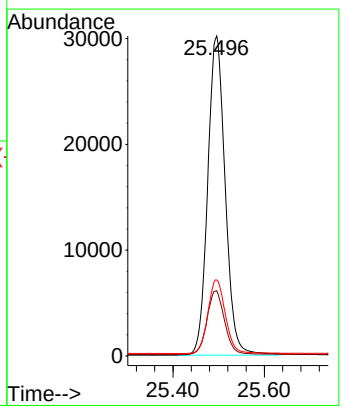


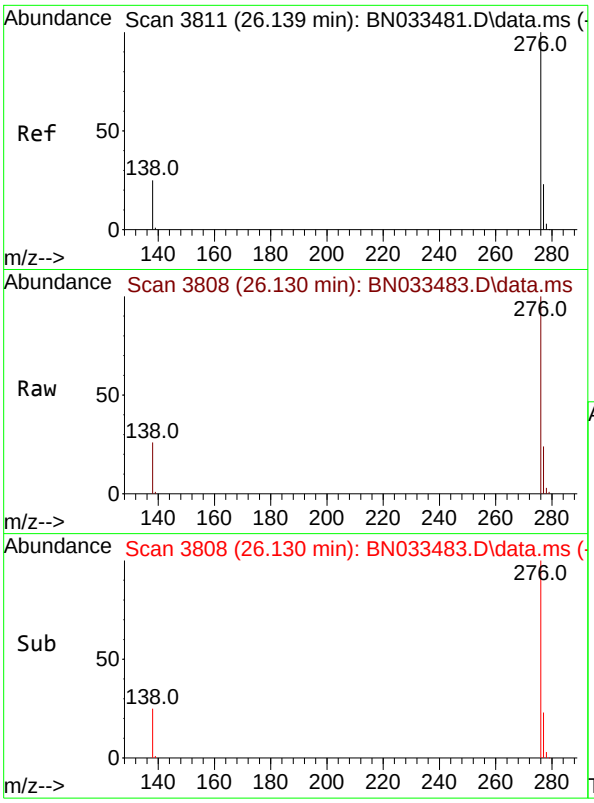


#40
Dibenzo(a,h)anthracene
Concen: 1.720 ng
RT: 25.496 min Scan# 3591
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:278 Resp: 80194

Ion	Ratio	Lower	Upper
278	100		
139	20.4	19.1	28.7
279	23.8	21.0	31.4



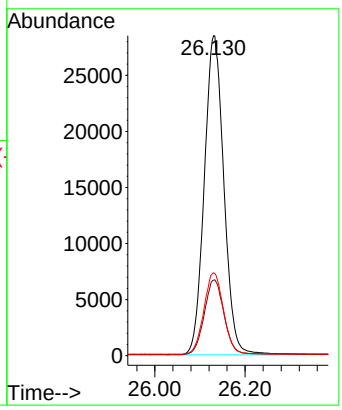


#41
Benzo(g,h,i)perylene
Concen: 1.670 ng
RT: 26.130 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 85629

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.7	29.5
138	25.9	21.8	32.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033484.D
Acq On : 19 Aug 2024 19:17
Operator : MA/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Aug 19 23:23:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.559	152	8220	0.400	ng		0.00
7) Naphthalene-d8	10.314	136	21477	0.400	ng		0.00
13) Acenaphthene-d10	14.189	164	11204	0.400	ng		0.00
19) Phenanthrene-d10	16.942	188	22761	0.400	ng		0.00
29) Chrysene-d12	21.148	240	16458	0.400	ng		0.00
35) Perylene-d12	23.317	264	15102	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.191	112	78672	3.403	ng		0.00
5) Phenol-d6	6.743	99	96240	3.185	ng		0.00
8) Nitrobenzene-d5	8.691	82	55376	3.404	ng		0.00
11) 2-Methylnaphthalene-d10	11.915	152	97319	3.015	ng		0.00
14) 2,4,6-Tribromophenol	15.688	330	19950	3.487	ng		0.00
15) 2-Fluorobiphenyl	12.810	172	144228	3.180	ng		0.00
27) Fluoranthene-d10	18.984	212	176172	2.953	ng		0.00
31) Terphenyl-d14	19.597	244	117216	3.696	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.190	88	29725	3.360	ng		100
3) n-Nitrosodimethylamine	3.472	42	34268	2.990	ng		97
6) bis(2-Chloroethyl)ether	6.989	93	70198	2.980	ng		100
9) Naphthalene	10.368	128	179011	3.071	ng		99
10) Hexachlorobutadiene	10.667	225	35517	3.178	ng	#	100
12) 2-Methylnaphthalene	11.990	142	116457	2.986	ng		99
16) Acenaphthylene	13.900	152	164622	3.197	ng		100
17) Acenaphthene	14.253	154	111942	3.160	ng		98
18) Fluorene	15.247	166	140489	3.030	ng		100
20) 4,6-Dinitro-2-methylph...	15.322	198	13180	4.642	ng	#	67
21) 4-Bromophenyl-phenylether	16.147	248	44804	3.300	ng		99
22) Hexachlorobenzene	16.247	284	48402	3.192	ng		99
23) Atrazine	16.420	200	36125	3.342	ng		98
24) Pentachlorophenol	16.594	266	23233	3.743	ng		98
25) Phenanthrene	16.979	178	202724	3.113	ng		100
26) Anthracene	17.066	178	188458	3.276	ng		99
28) Fluoranthene	19.012	202	230499	2.917	ng		100
30) Pyrene	19.374	202	230574	3.478	ng		100
32) Benzo(a)anthracene	21.130	228	187742	3.074	ng		100
33) Chrysene	21.184	228	184734	3.033	ng		100
34) Bis(2-ethylhexyl)phtha...	21.095	149	111315	3.811	ng		100
36) Indeno(1,2,3-cd)pyrene	25.478	276	200706	3.206	ng		99
37) Benzo(b)fluoranthene	22.674	252	178769	3.171	ng	#	92
38) Benzo(k)fluoranthene	22.718	252	180219	3.154	ng	#	90
39) Benzo(a)pyrene	23.224	252	151103	3.178	ng	#	88
40) Dibenzo(a,h)anthracene	25.496	278	160621	3.242	ng		94
41) Benzo(g,h,i)perylene	26.127	276	170664	3.133	ng		98

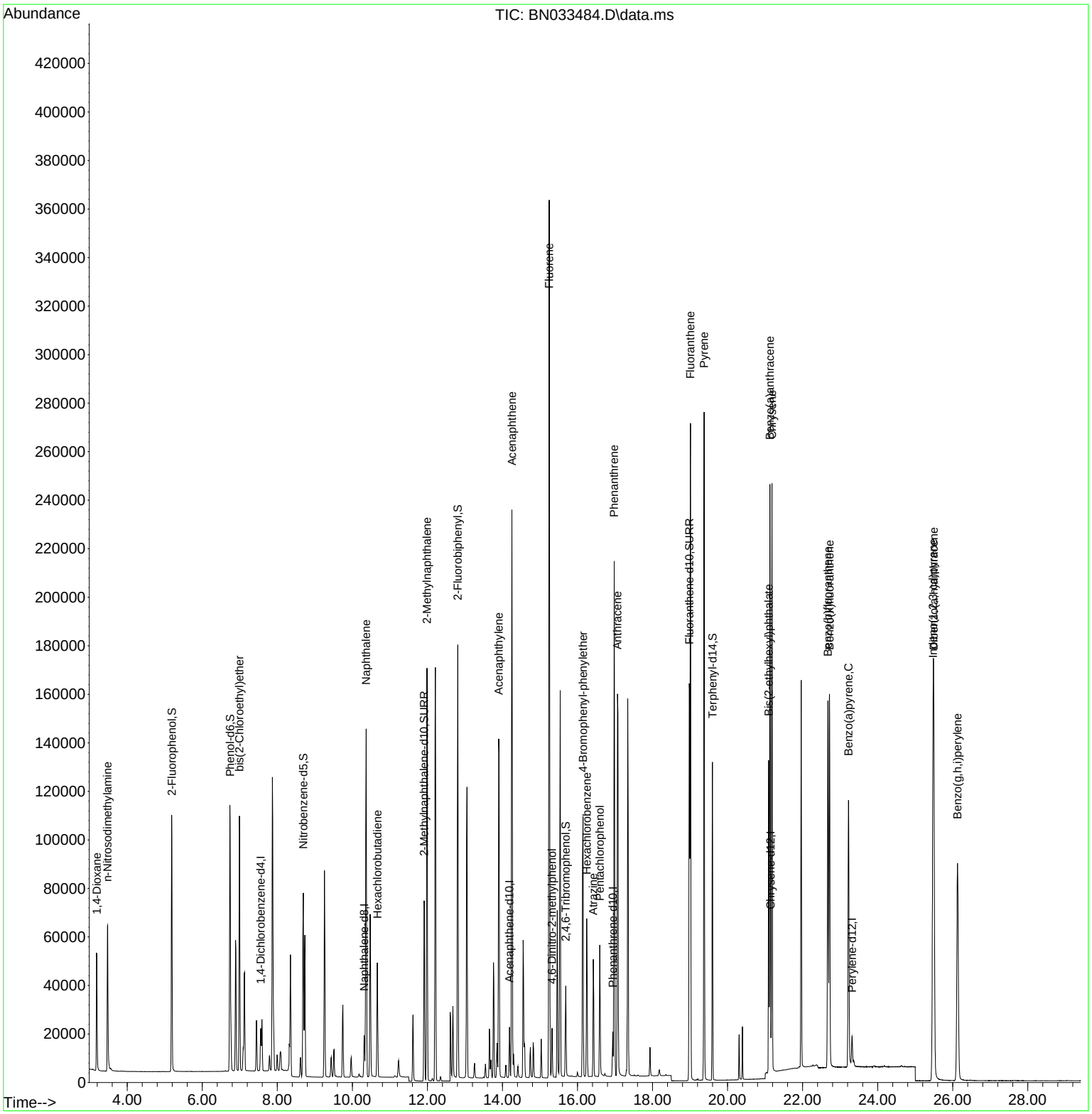
(#) = qualifier out of range (m) = manual integration (+) = signals summed

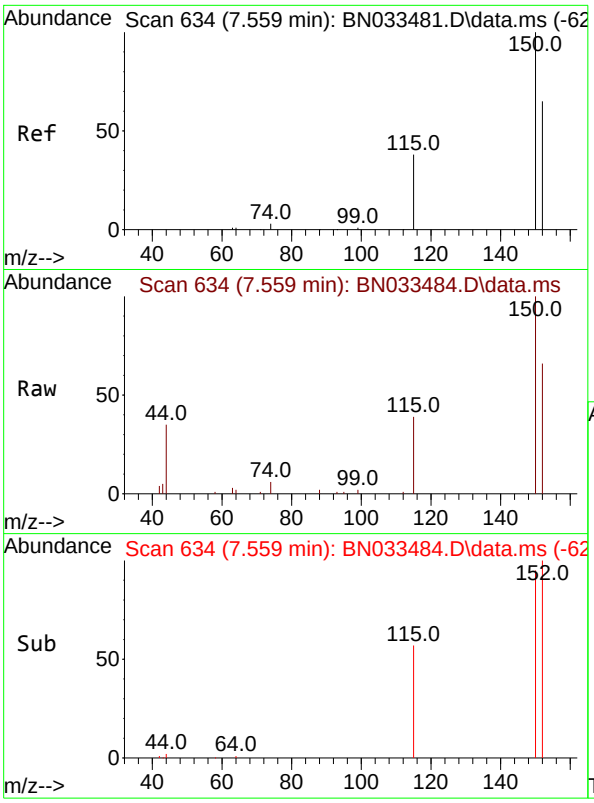
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033484.D
Acq On : 19 Aug 2024 19:17
Operator : MA/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Aug 19 23:23:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration



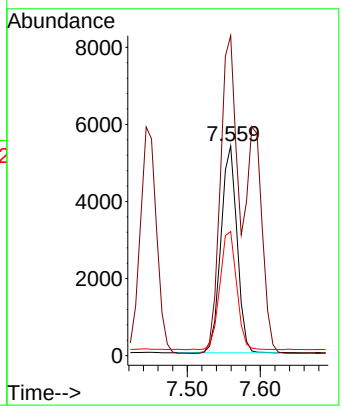


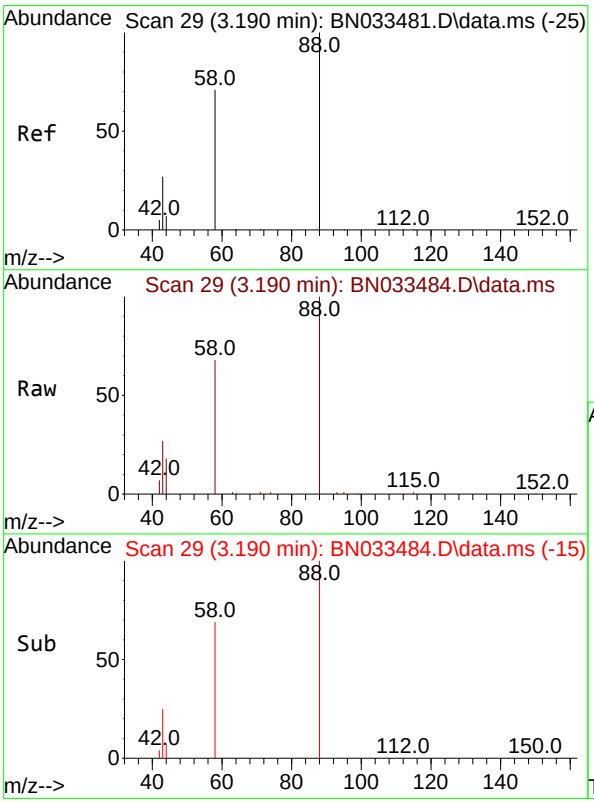
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 8220

Ion	Ratio	Lower	Upper
152	100		
150	152.6	122.2	183.2
115	59.2	47.2	70.8

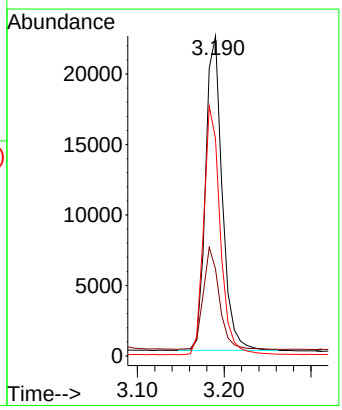


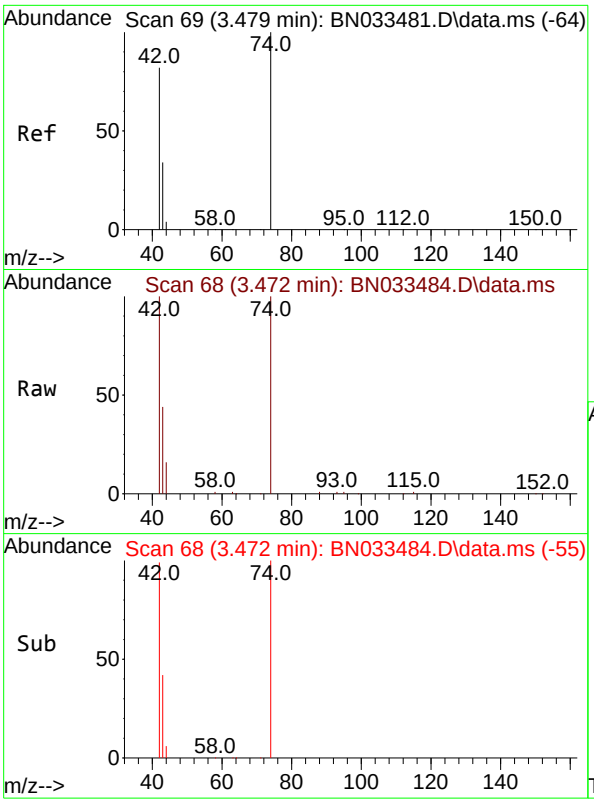


#2
1,4-Dioxane
Concen: 3.360 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion: 88 Resp: 29725

Ion	Ratio	Lower	Upper
88	100		
43	31.2	25.0	37.4
58	78.5	62.5	93.7



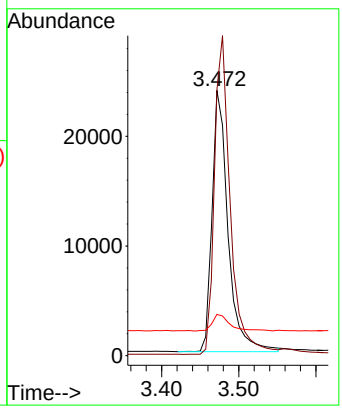


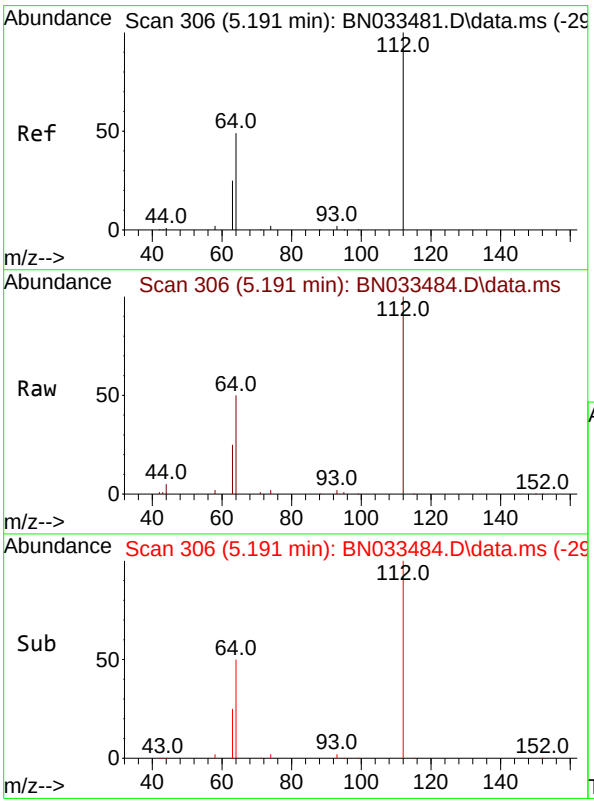
#3
n-Nitrosodimethylamine
Concen: 2.990 ng
RT: 3.472 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 34268

Ion	Ratio	Lower	Upper
42	100		
74	121.2	100.2	150.2
44	7.0	5.3	7.9

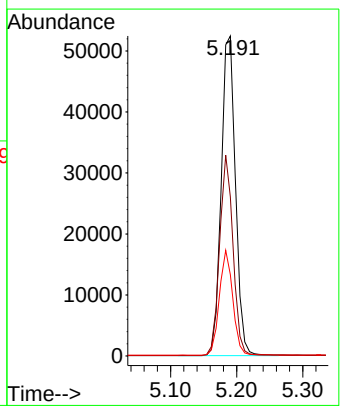


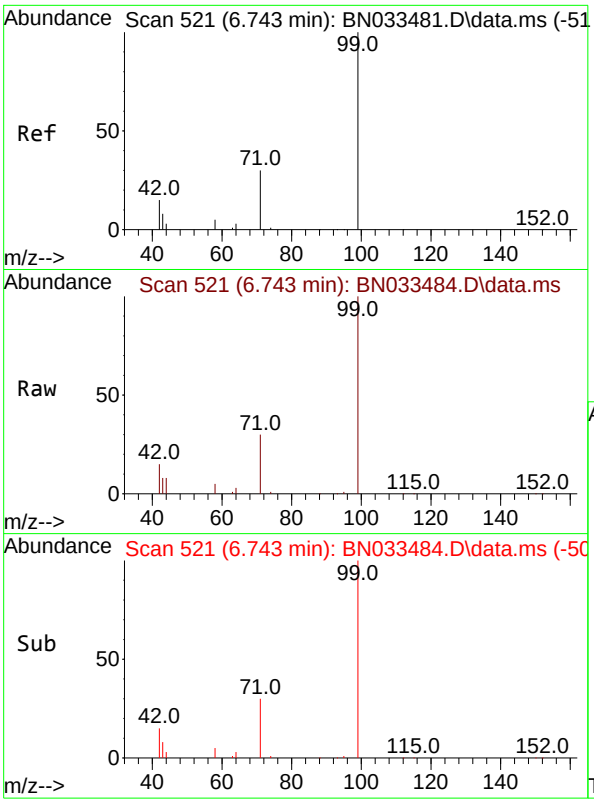


#4
2-Fluorophenol
Concen: 3.403 ng
RT: 5.191 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:112 Resp: 78672

Ion	Ratio	Lower	Upper
112	100		
64	58.9	47.1	70.7
63	30.8	24.9	37.3



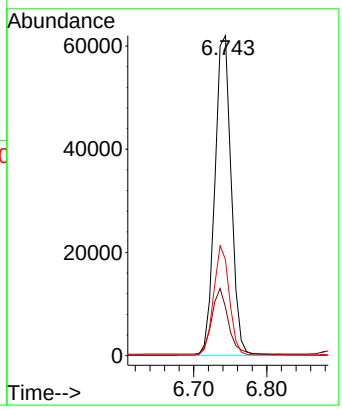


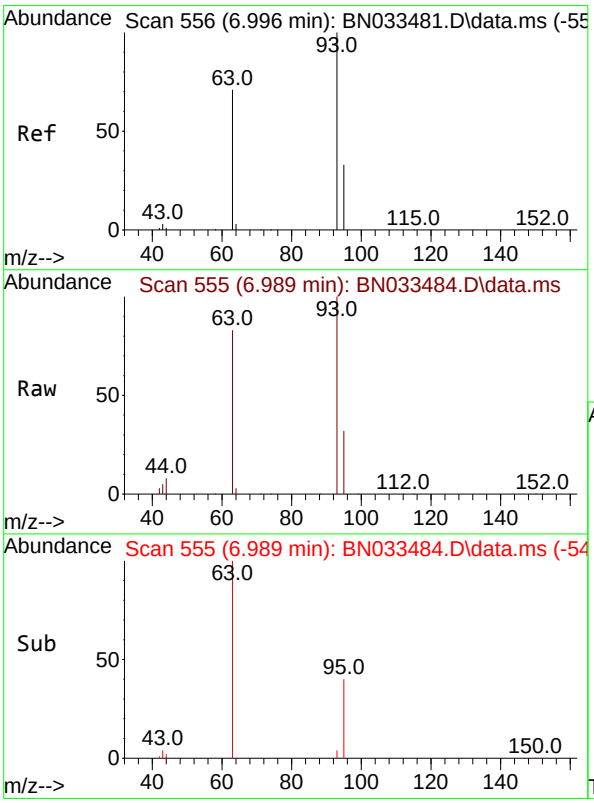
#5
Phenol-d6
Concen: 3.185 ng
RT: 6.743 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 96240

Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.6	24.8
71	33.1	26.2	39.4

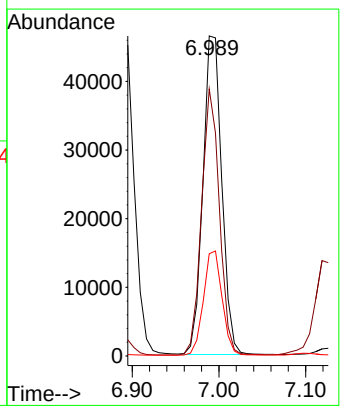


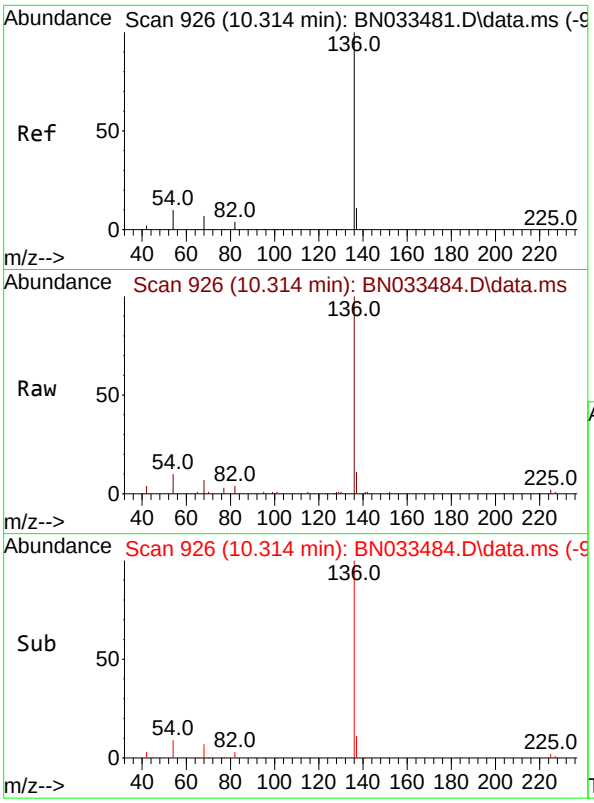


#6
bis(2-Chloroethyl)ether
Concen: 2.980 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion: 93 Resp: 70198

Ion	Ratio	Lower	Upper
93	100		
63	78.9	63.0	94.4
95	32.5	26.0	39.0



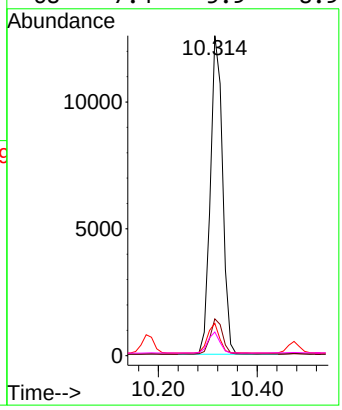


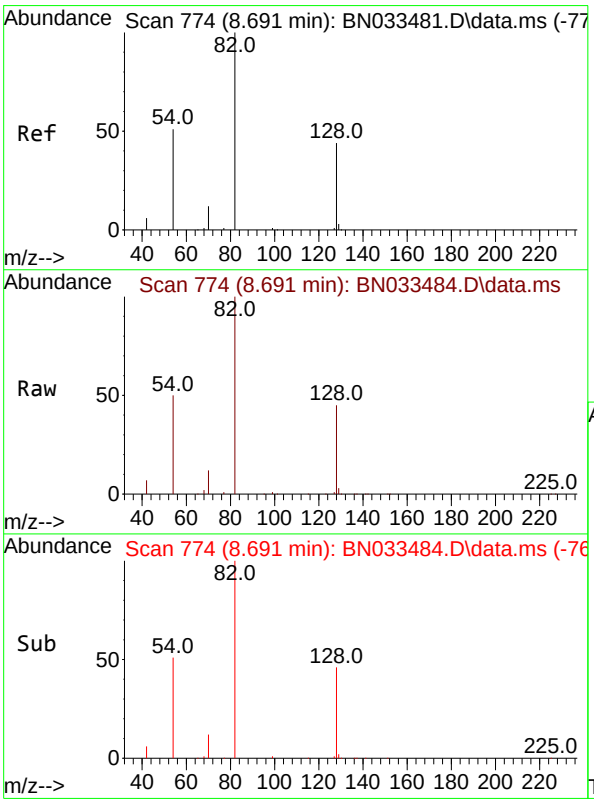
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 21477

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.0	13.6
54	10.1	8.3	12.5
68	7.4	5.9	8.9

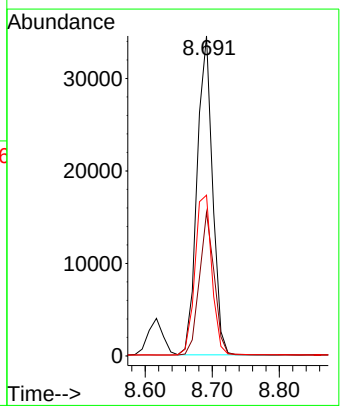


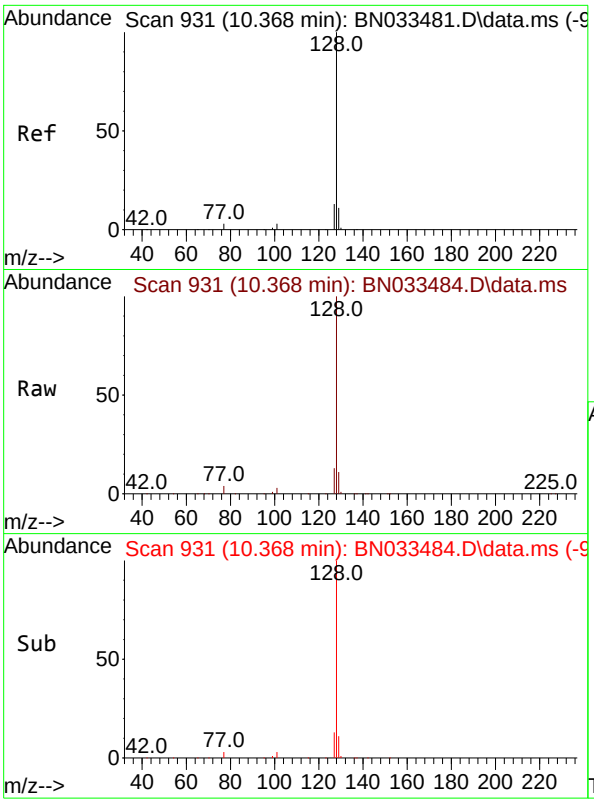


#8
Nitrobenzene-d5
Concen: 3.404 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion: 82 Resp: 55376

Ion	Ratio	Lower	Upper
82	100		
128	44.9	36.0	54.0
54	50.3	42.0	63.0



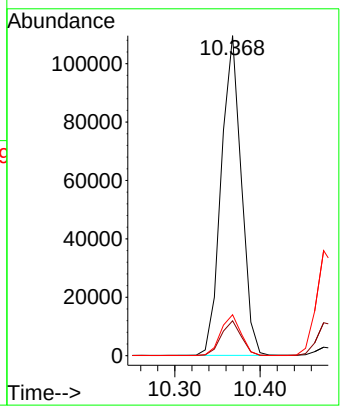


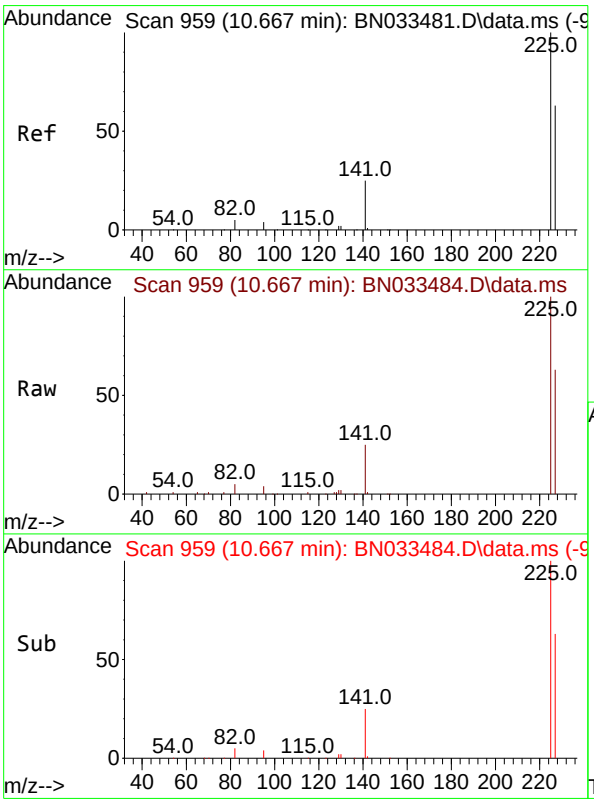
#9
Naphthalene
Concen: 3.071 ng
RT: 10.368 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 179011

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.1	13.7
127	12.8	10.7	16.1

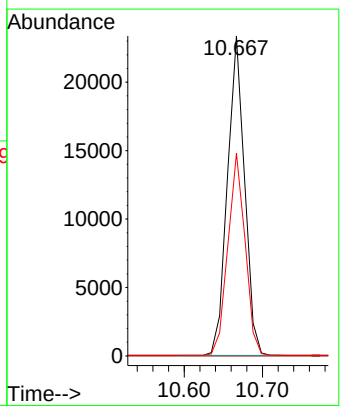


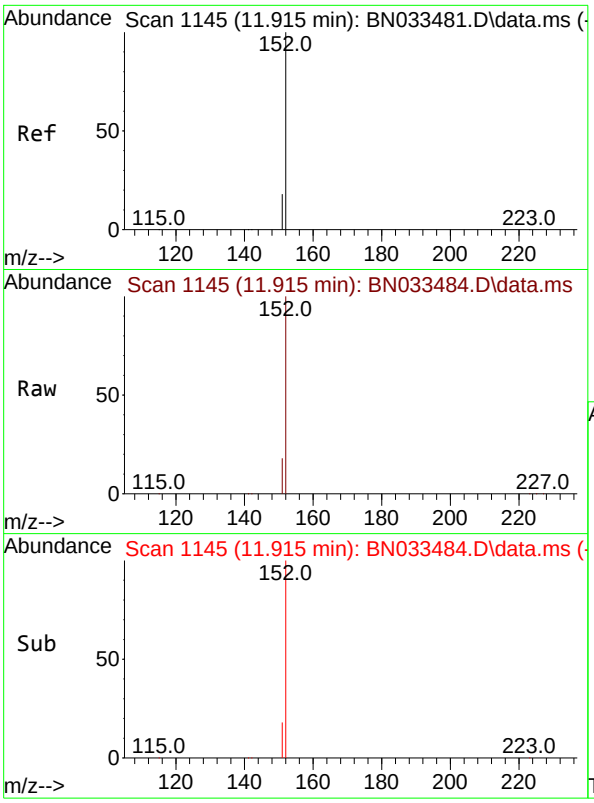


#10
Hexachlorobutadiene
Concen: 3.178 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:225 Resp: 35517

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.2	76.8



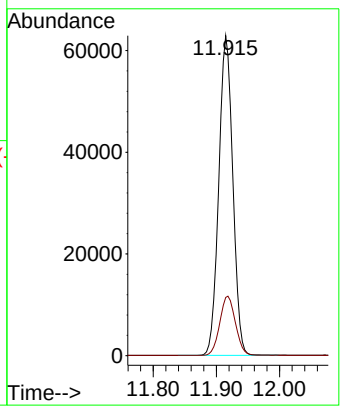


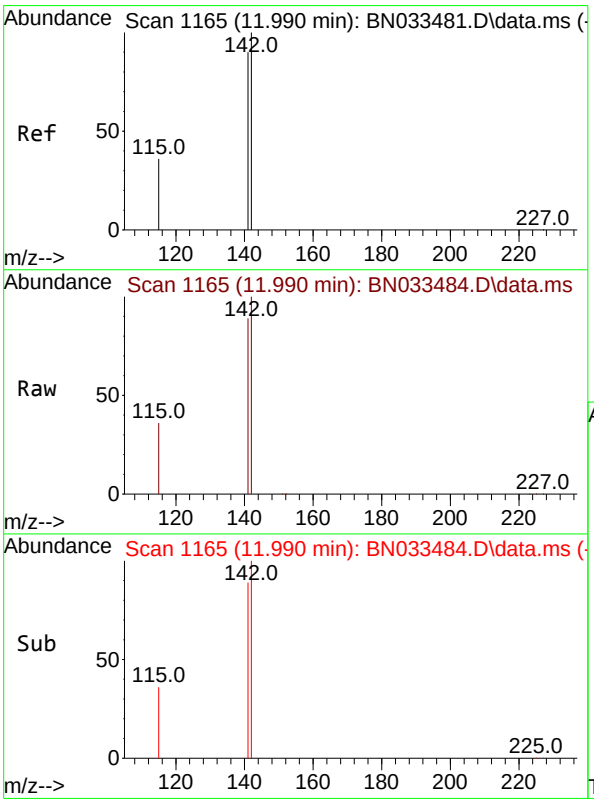
#11
2-Methylnaphthalene-d10
Concen: 3.015 ng
RT: 11.915 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 97319

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

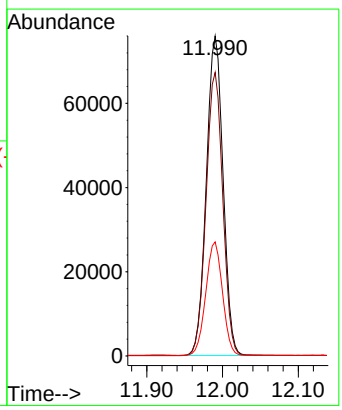


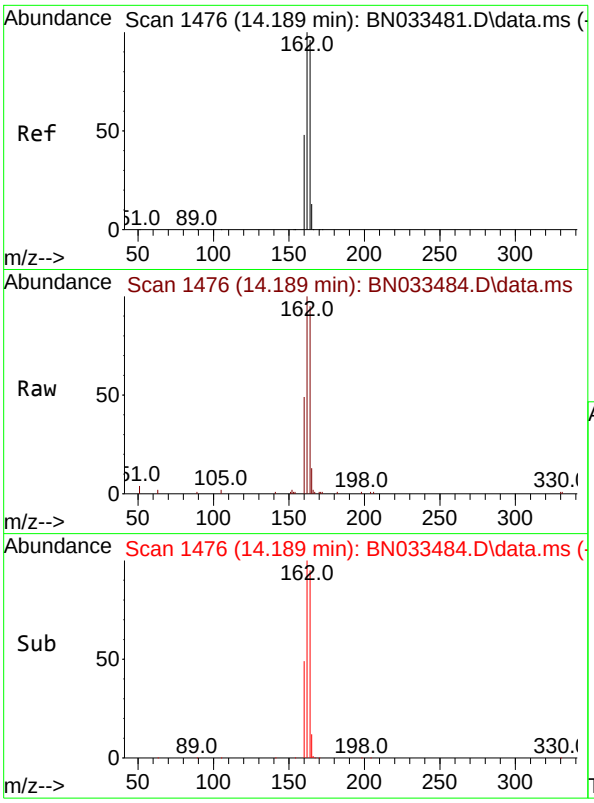


#12
2-Methylnaphthalene
Concen: 2.986 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:142 Resp: 116457

Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.7	107.5
115	35.7	29.4	44.2



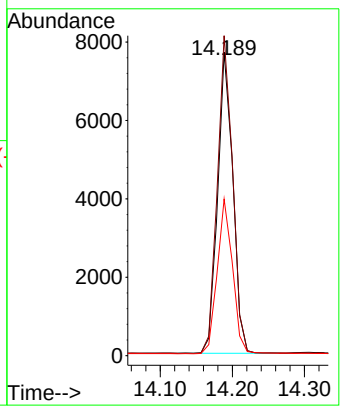


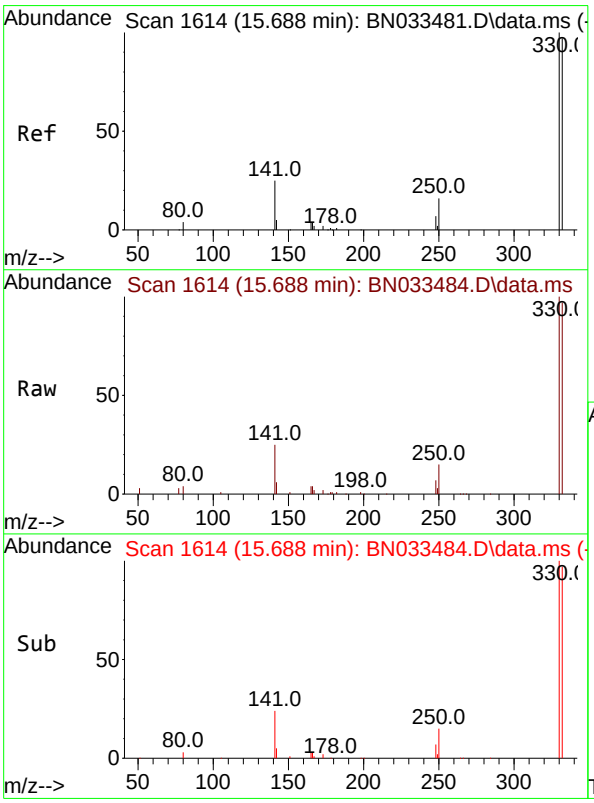
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 11204

Ion	Ratio	Lower	Upper
164	100		
162	105.4	83.5	125.3
160	51.6	40.2	60.4

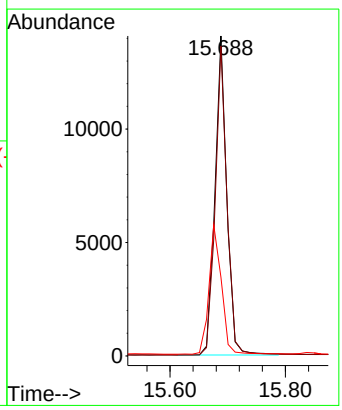


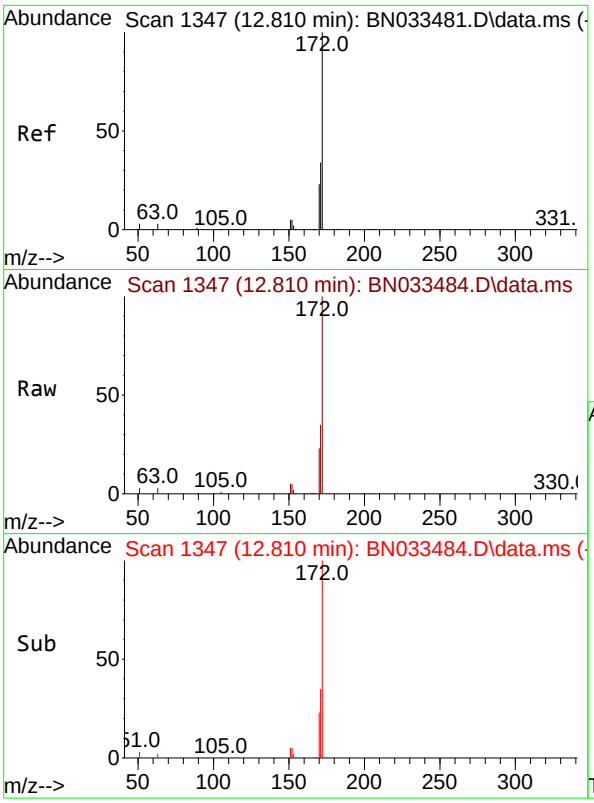


#14
2,4,6-Tribromophenol
Concen: 3.487 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:330 Resp: 19950

Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.5	116.3
141	42.5	33.9	50.9



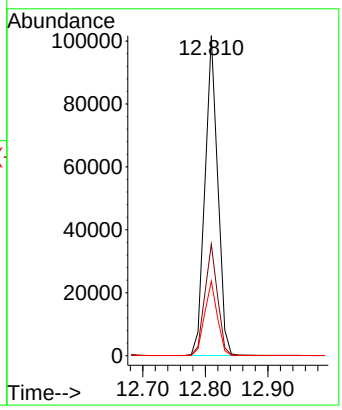


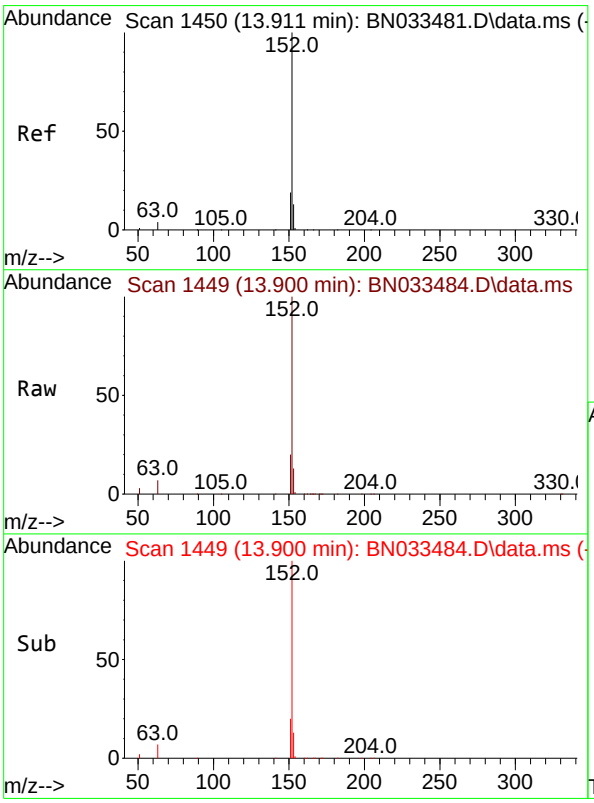
#15
2-Fluorobiphenyl
Concen: 3.180 ng
RT: 12.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 144228

Ion	Ratio	Lower	Upper
172	100		
171	34.9	27.7	41.5
170	23.3	18.3	27.5

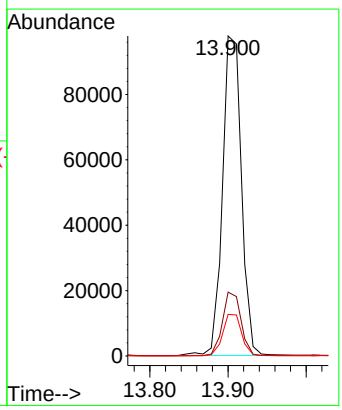


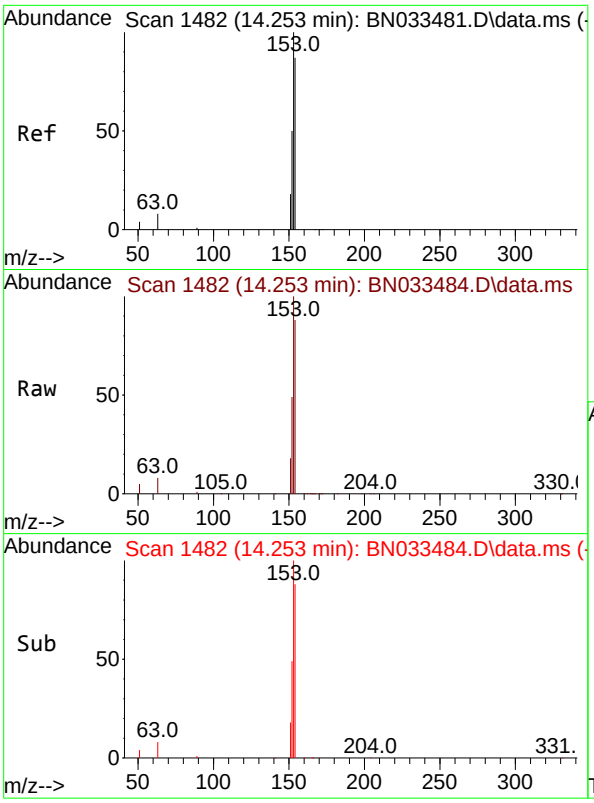


#16
Acenaphthylene
Concen: 3.197 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:152 Resp: 164622

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.7	23.5
153	13.0	10.3	15.5



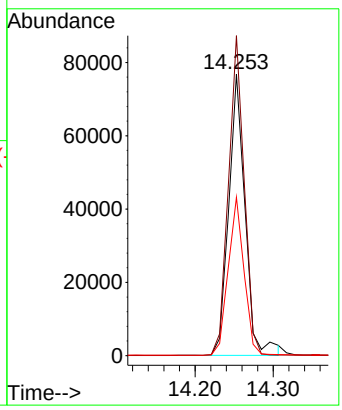


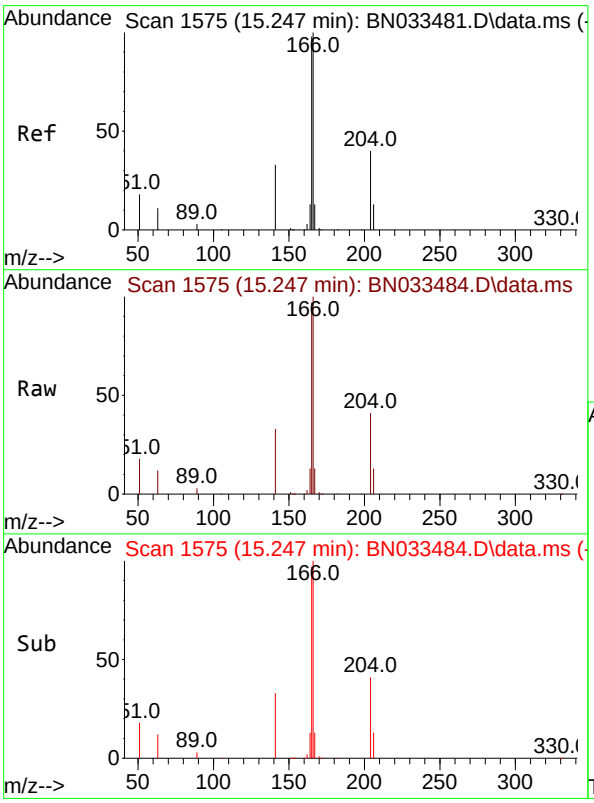
#17
Acenaphthene
Concen: 3.160 ng
RT: 14.253 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 111942

Ion	Ratio	Lower	Upper
154	100		
153	108.9	89.0	133.6
152	54.3	45.2	67.8

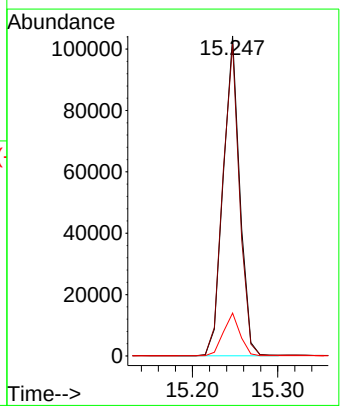


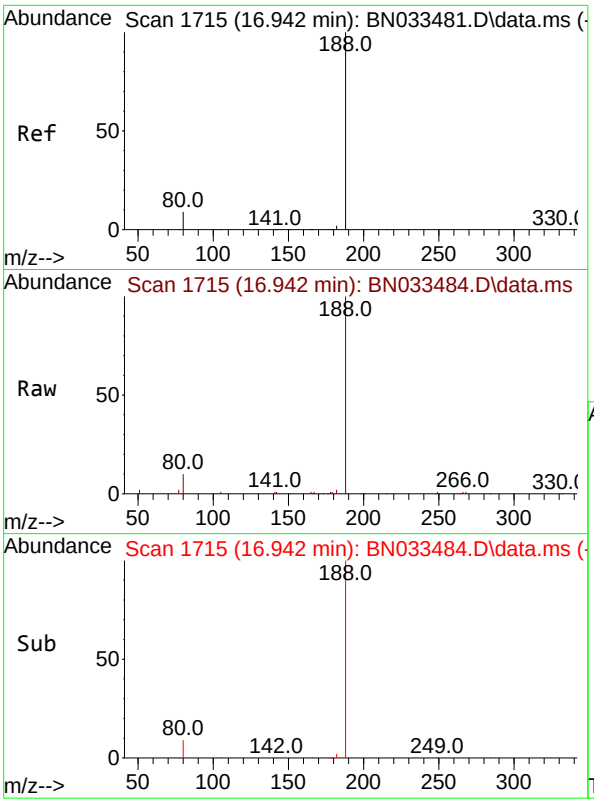


#18
Fluorene
Concen: 3.030 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:166 Resp: 140489

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.2	117.4
167	13.4	10.6	16.0



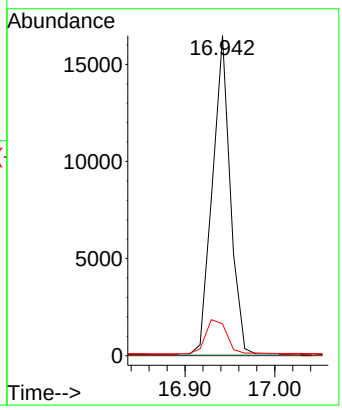


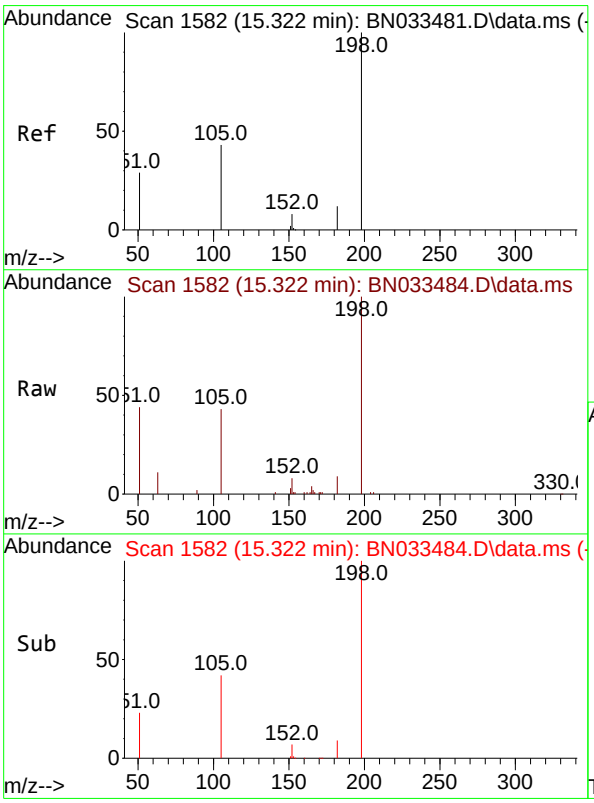
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 22761

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.0	7.8	11.8

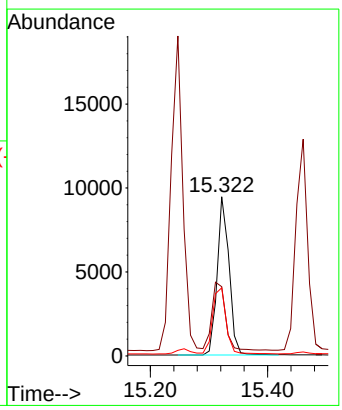


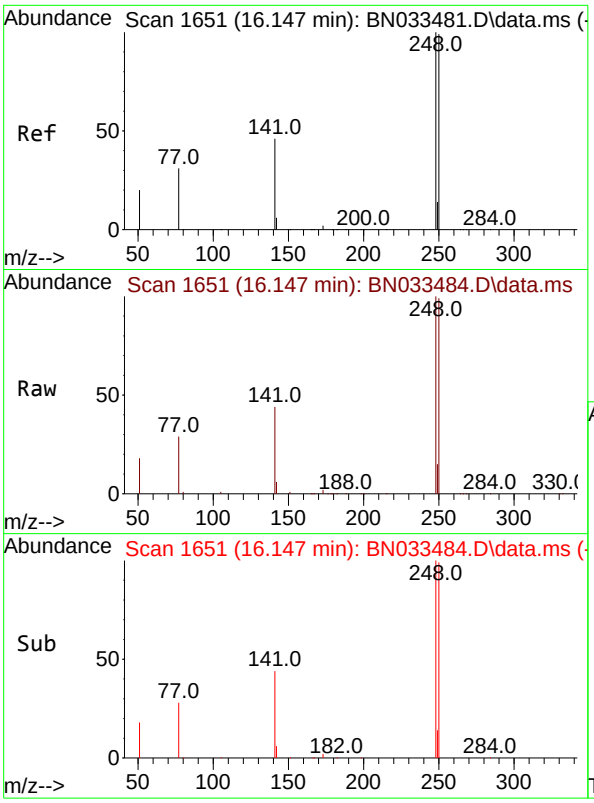


#20
4,6-Dinitro-2-methylphenol
Concen: 4.642 ng
RT: 15.322 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:198 Resp: 13180

Ion	Ratio	Lower	Upper
198	100		
51	43.5	65.1	97.7#
105	42.8	44.8	67.2#



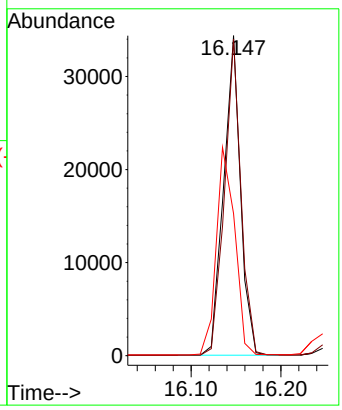


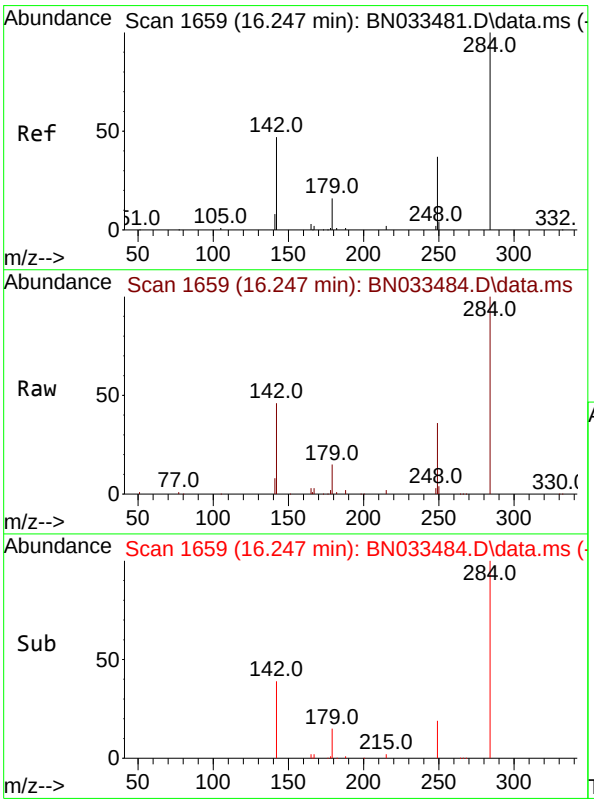
#21
4-Bromophenyl-phenylether
Concen: 3.300 ng
RT: 16.147 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 44804

Ion	Ratio	Lower	Upper
248	100		
250	99.0	79.2	118.8
141	44.4	37.9	56.9

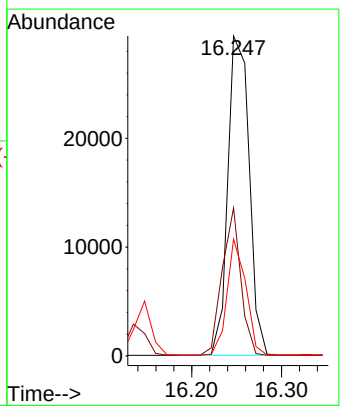


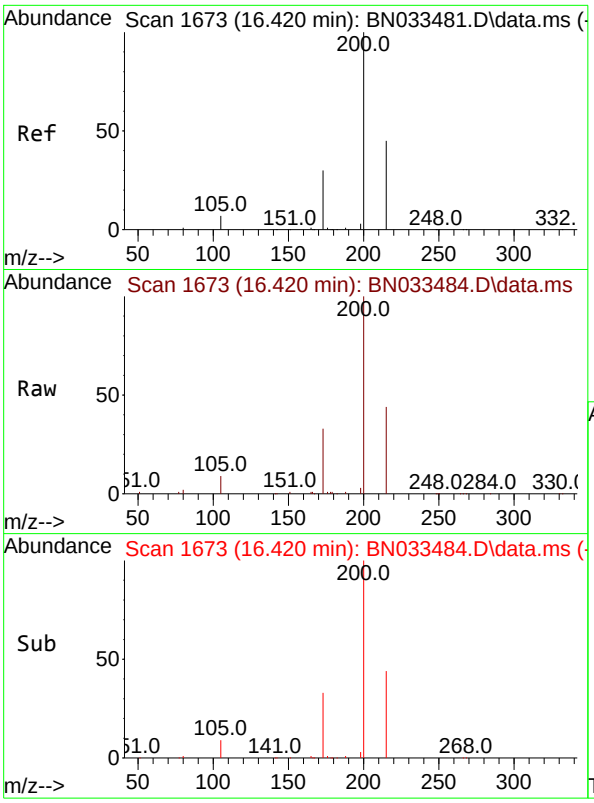


#22
Hexachlorobenzene
Concen: 3.192 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:284 Resp: 48402

Ion	Ratio	Lower	Upper
284	100		
142	40.0	31.8	47.6
249	32.1	26.0	39.0



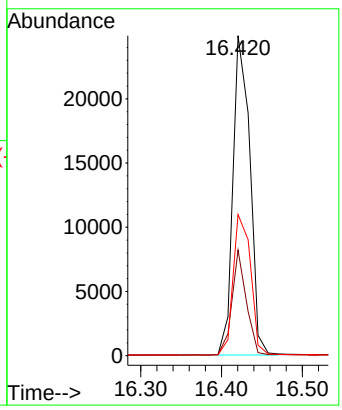


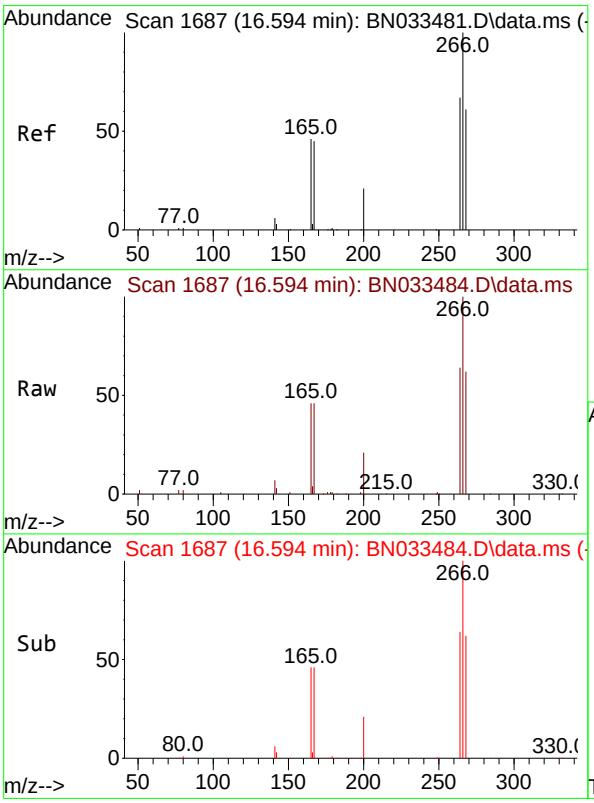
#23
Atrazine
Concen: 3.342 ng
RT: 16.420 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 36125

Ion	Ratio	Lower	Upper
200	100		
173	33.0	25.3	37.9
215	44.1	36.6	54.8

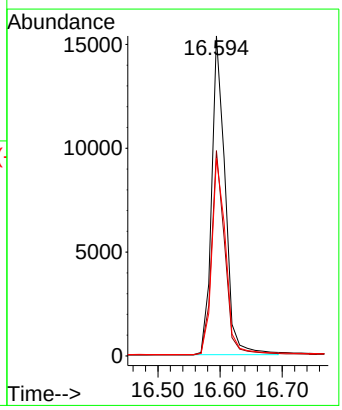


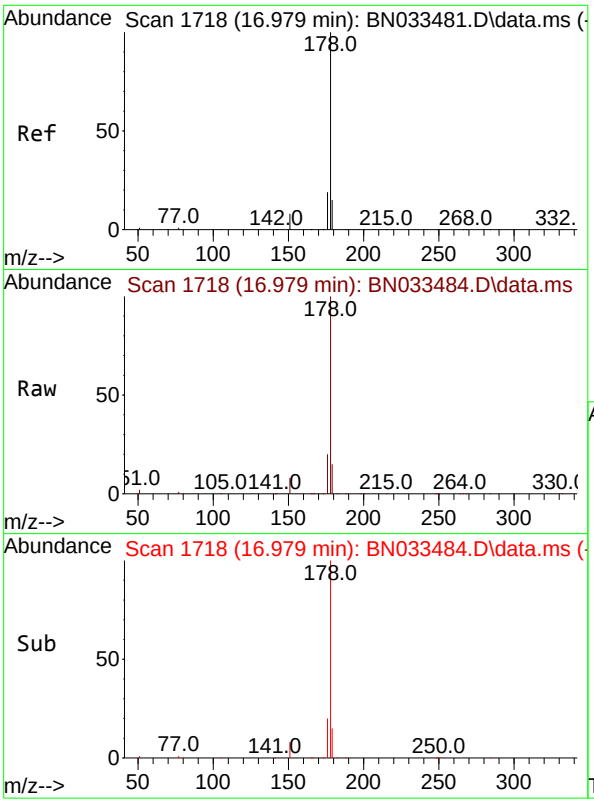


#24
Pentachlorophenol
Concen: 3.743 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:266 Resp: 23233

Ion	Ratio	Lower	Upper
266	100		
264	63.0	51.9	77.9
268	63.2	51.0	76.4



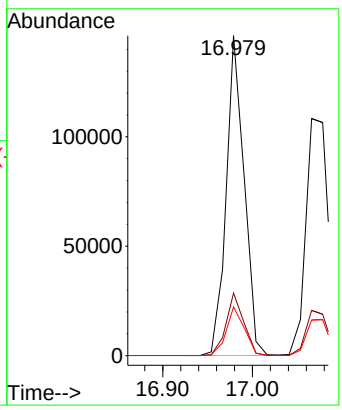


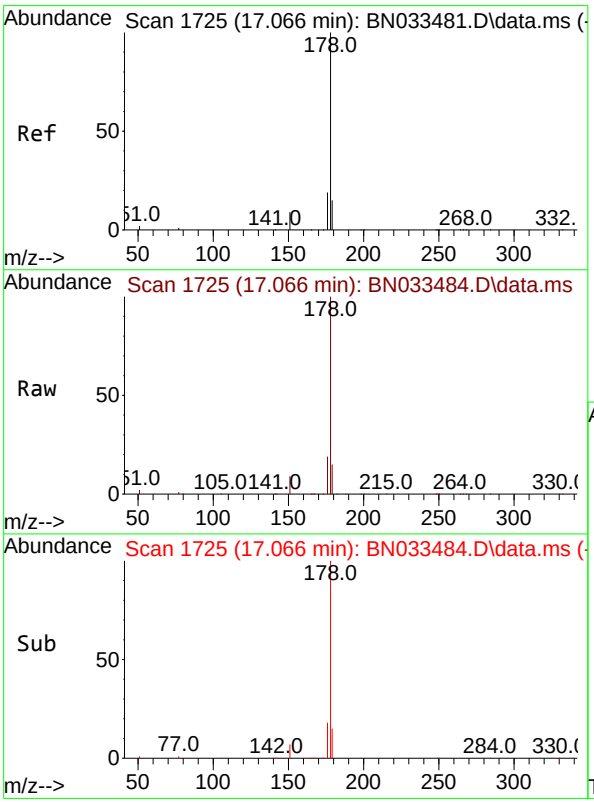
#25
Phenanthrene
Concen: 3.113 ng
RT: 16.979 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 202724

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.3	12.3	18.5

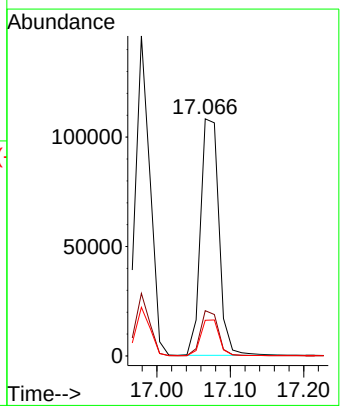


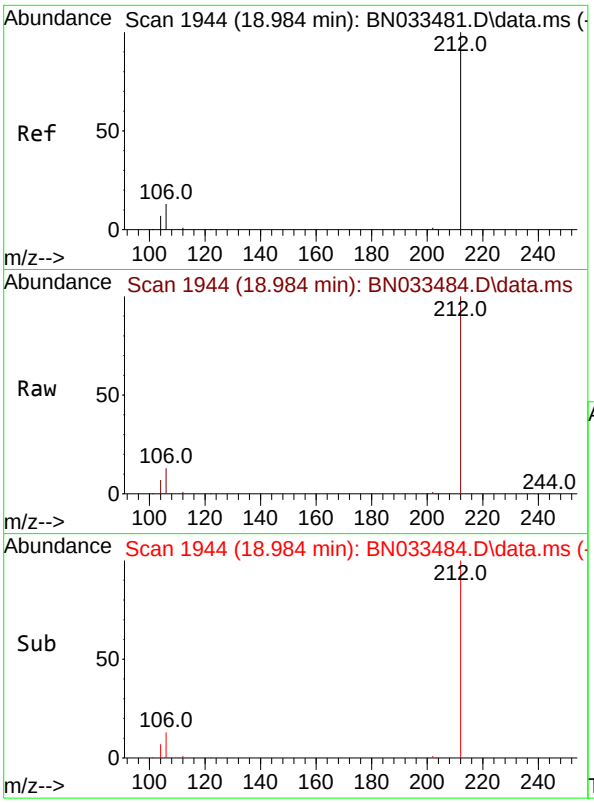


#26
Anthracene
Concen: 3.276 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:178 Resp: 188458

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.2	12.4	18.6



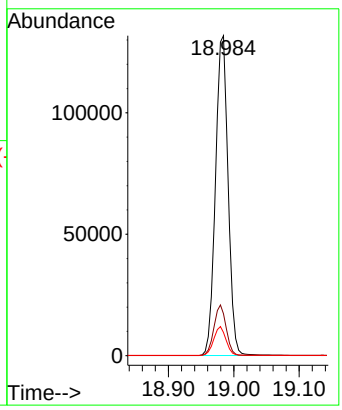


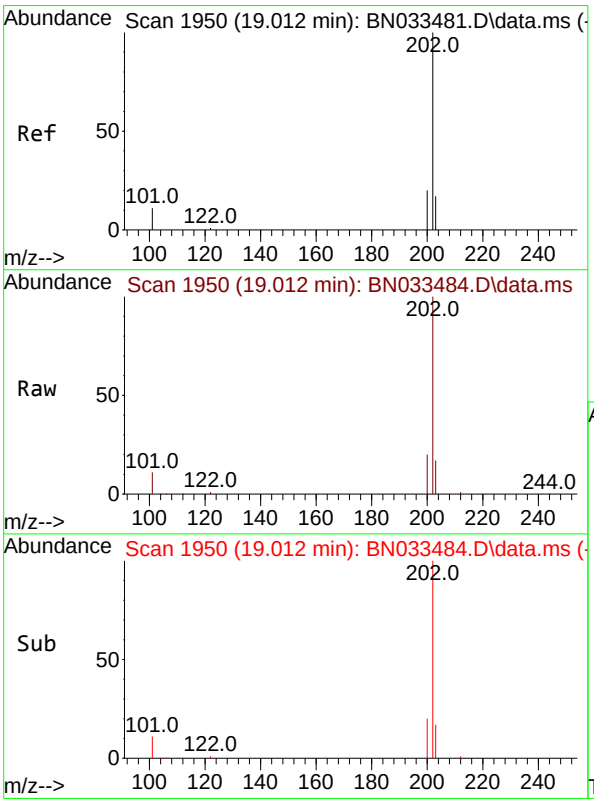
#27
Fluoranthene-d10
Concen: 2.953 ng
RT: 18.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 176172

Ion	Ratio	Lower	Upper
212	100		
106	15.3	12.3	18.5
104	8.8	7.0	10.4

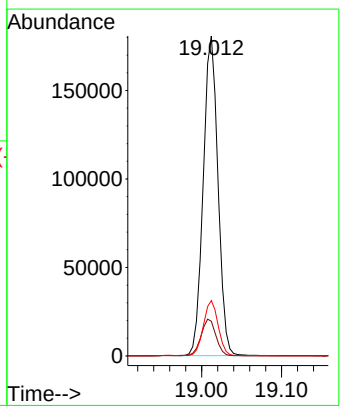


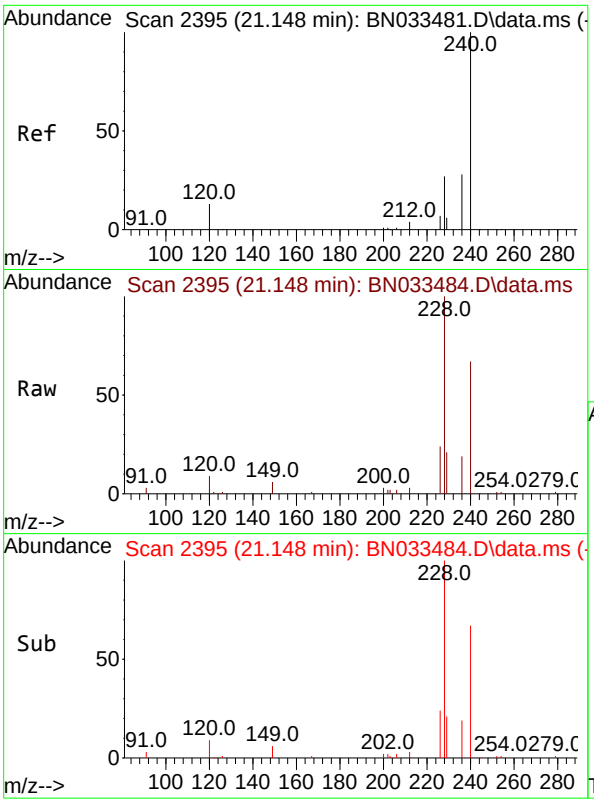


#28
Fluoranthene
Concen: 2.917 ng
RT: 19.012 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:202 Resp: 230499

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.5	14.3
203	17.2	13.8	20.6



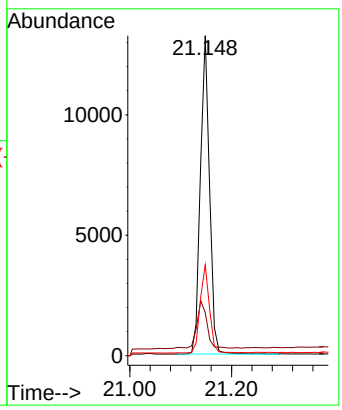


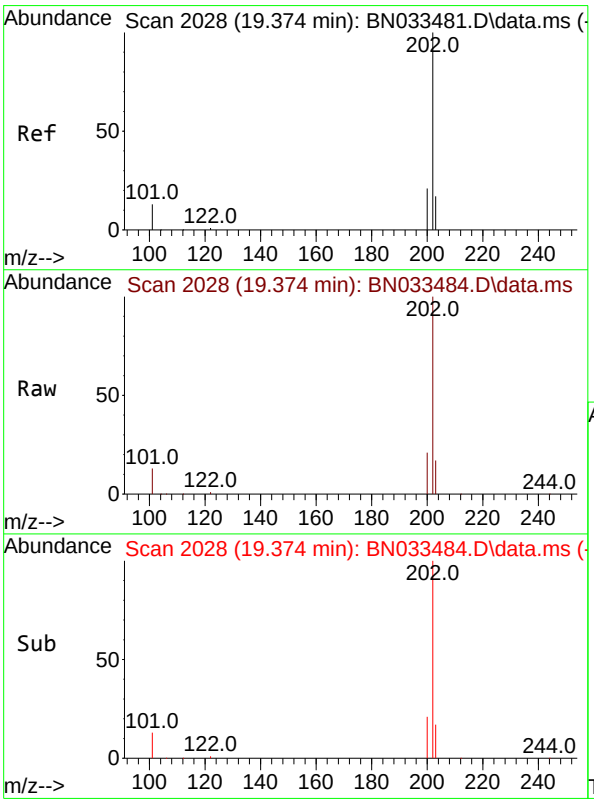
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 16458

Ion	Ratio	Lower	Upper
240	100		
120	13.5	12.4	18.6
236	28.4	23.0	34.6

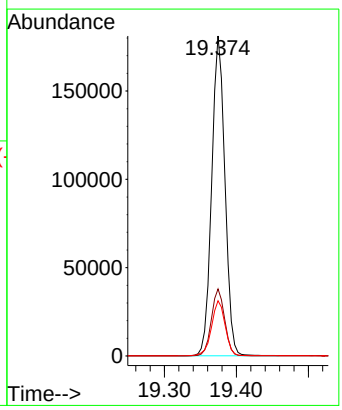


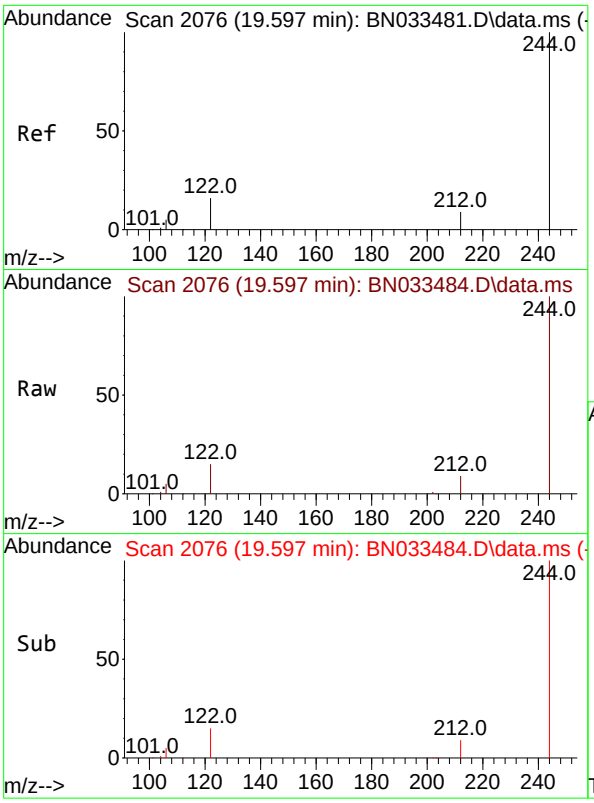


#30
Pyrene
Concen: 3.478 ng
RT: 19.374 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:202 Resp: 230574

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	17.8	14.2	21.4



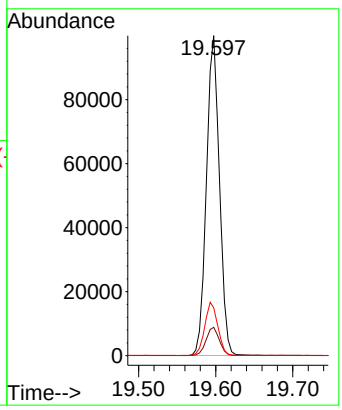


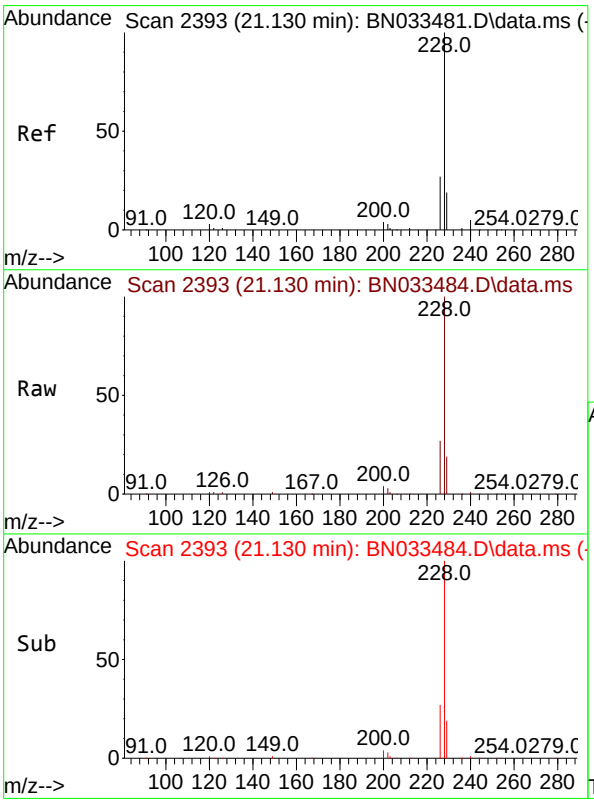
#31
Terphenyl-d14
Concen: 3.696 ng
RT: 19.597 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 117216

Ion	Ratio	Lower	Upper
244	100		
212	8.9	7.8	11.6
122	15.0	13.3	19.9

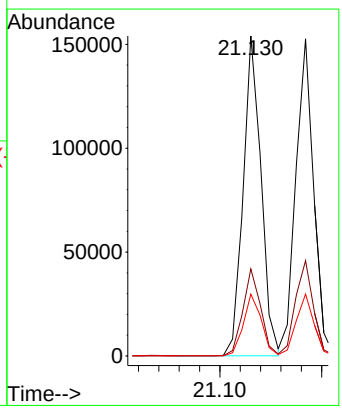


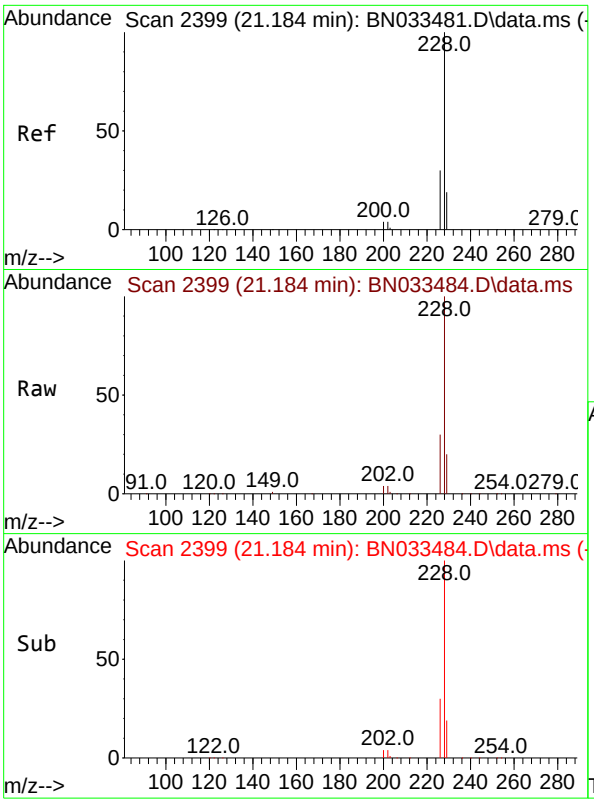


#32
Benzo(a)anthracene
Concen: 3.074 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:228 Resp: 187742

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.8	32.6
229	19.3	15.8	23.6



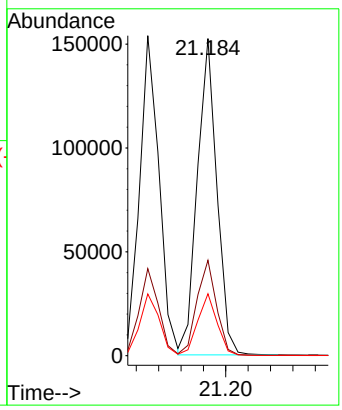


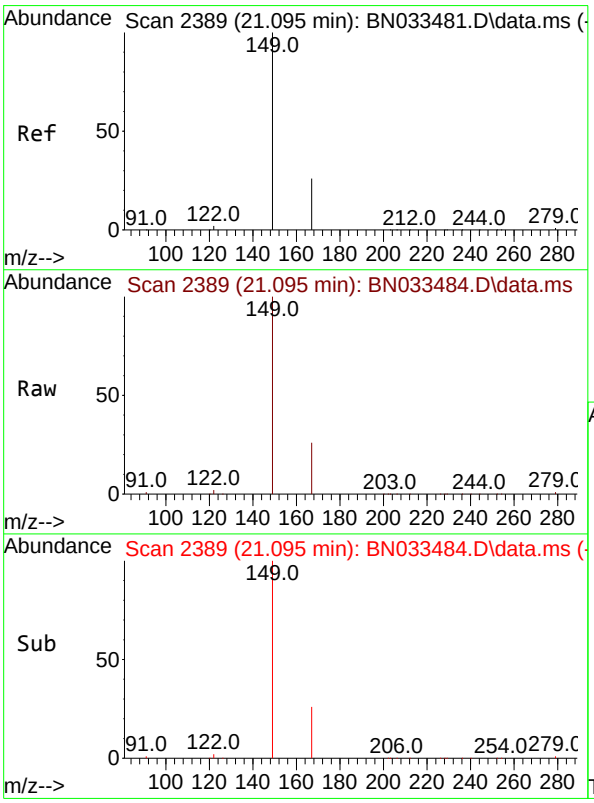
#33
Chrysene
Concen: 3.033 ng
RT: 21.184 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 184734

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.8	35.8
229	19.5	15.6	23.4

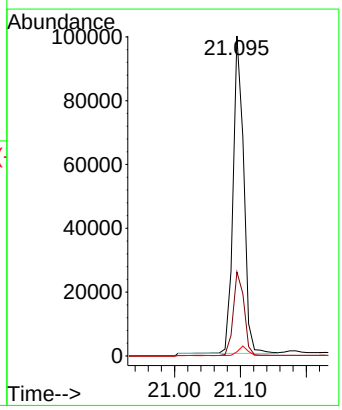


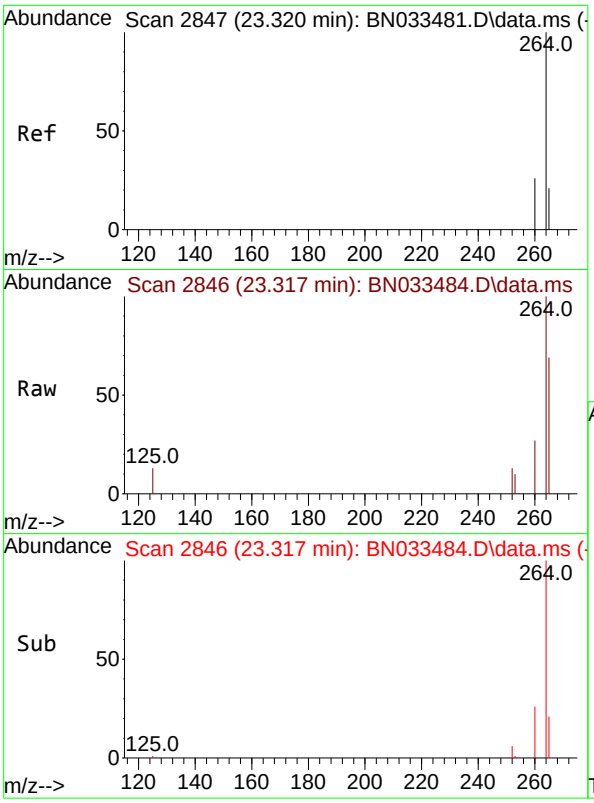


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.811 ng
RT: 21.095 min Scan# 2389
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:149 Resp: 111315

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.5	32.3
279	2.8	2.2	3.2



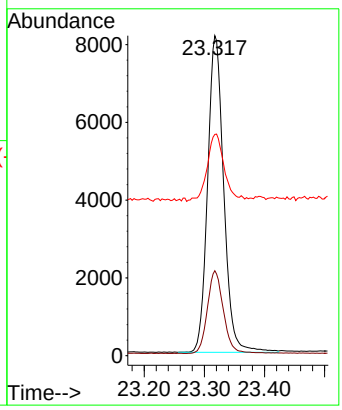


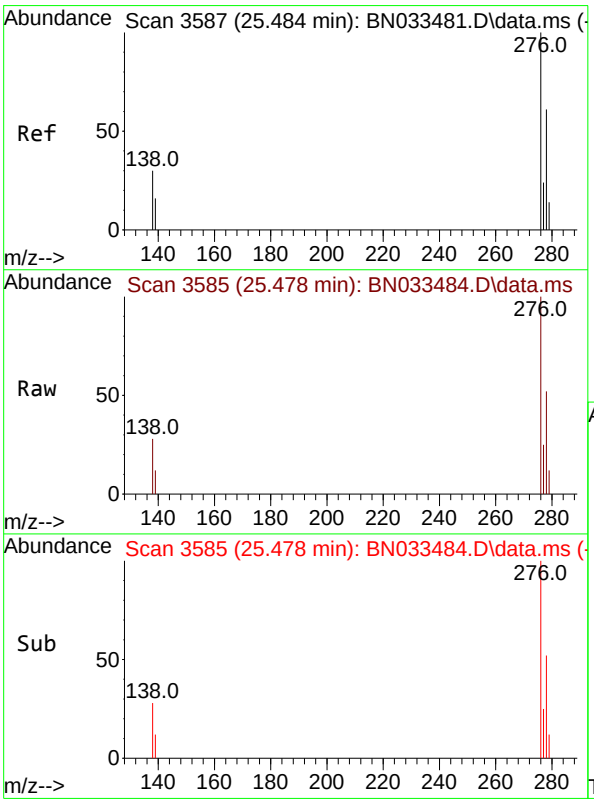
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 15102

Ion	Ratio	Lower	Upper
264	100		
260	26.5	20.8	31.2
265	69.1	52.2	78.2

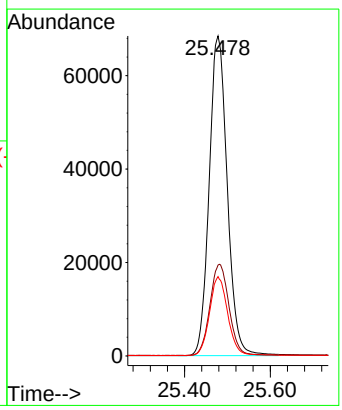


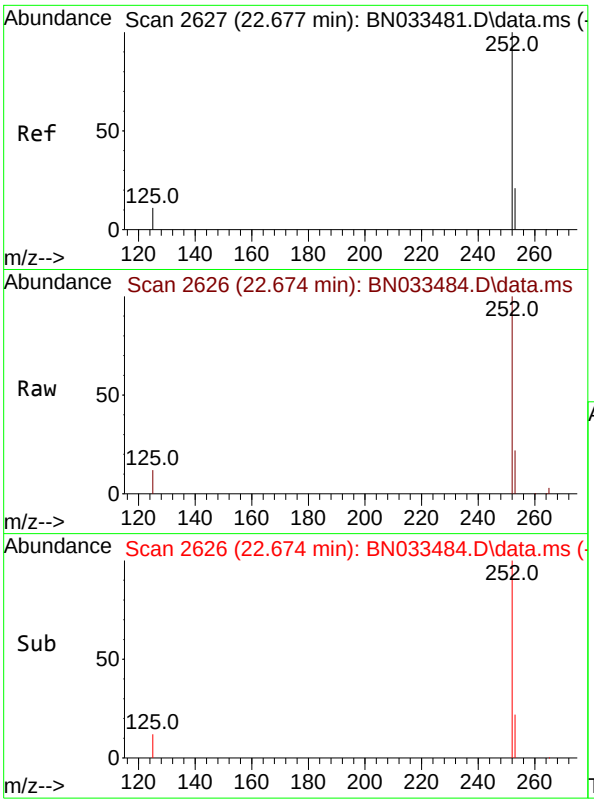


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.206 ng
RT: 25.478 min Scan# 3585
Delta R.T. -0.006 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:276 Resp: 200706

Ion	Ratio	Lower	Upper
276	100		
138	30.1	24.4	36.6
277	24.8	19.8	29.6



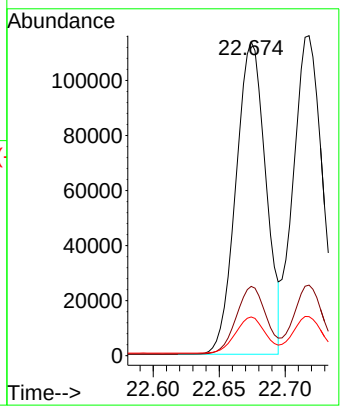


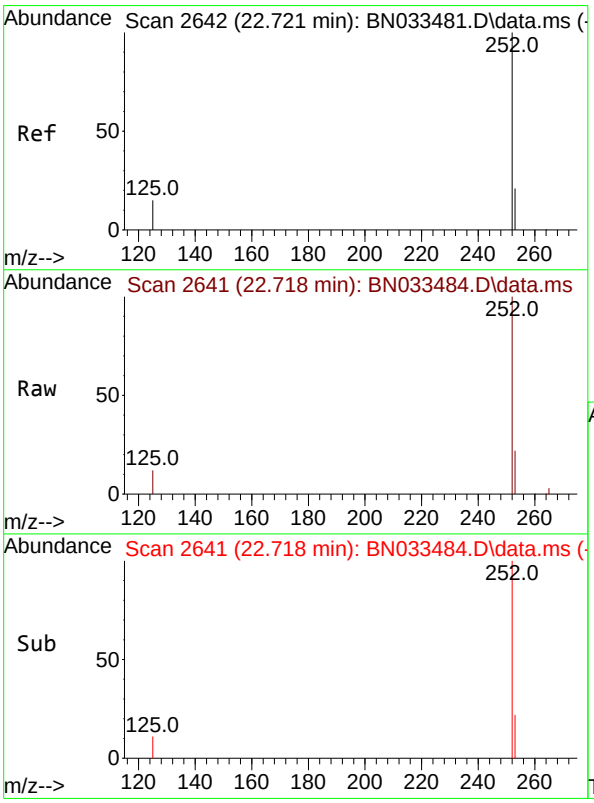
#37
Benzo(b)fluoranthene
Concen: 3.171 ng
RT: 22.674 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 178769

Ion	Ratio	Lower	Upper
252	100		
253	22.1	19.8	29.8
125	12.3	13.9	20.9#

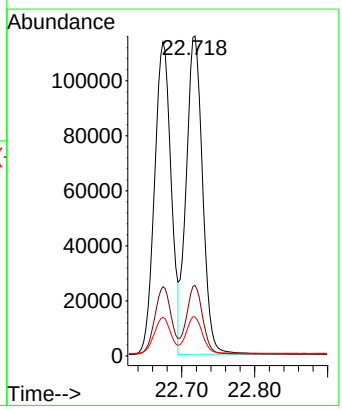


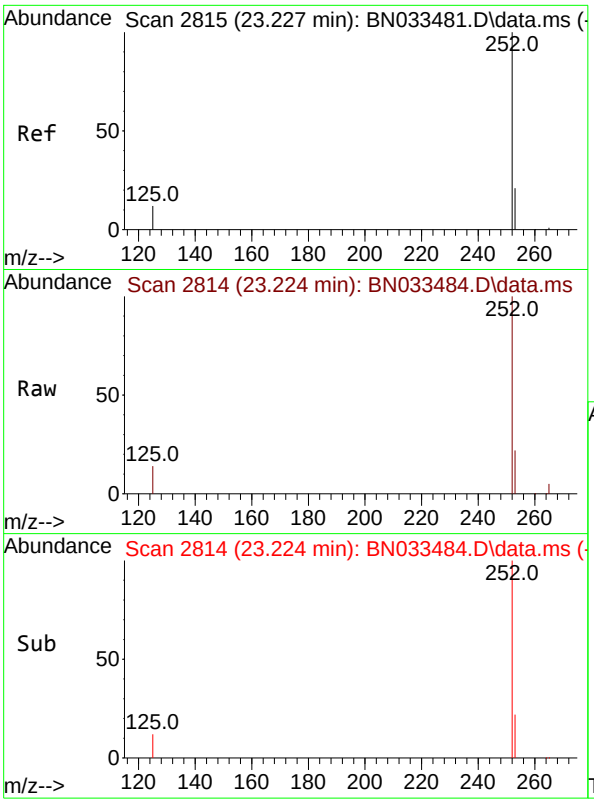


#38
Benzo(k)fluoranthene
Concen: 3.154 ng
RT: 22.718 min Scan# 2641
Delta R.T. -0.003 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:252 Resp: 180219

Ion	Ratio	Lower	Upper
252	100		
253	22.1	19.8	29.8
125	12.2	15.8	23.8#



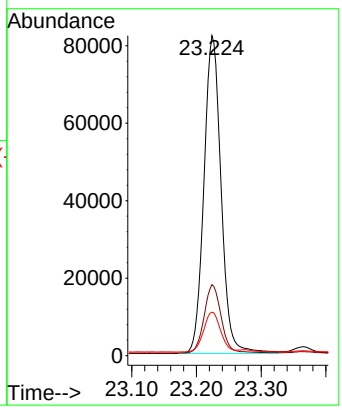


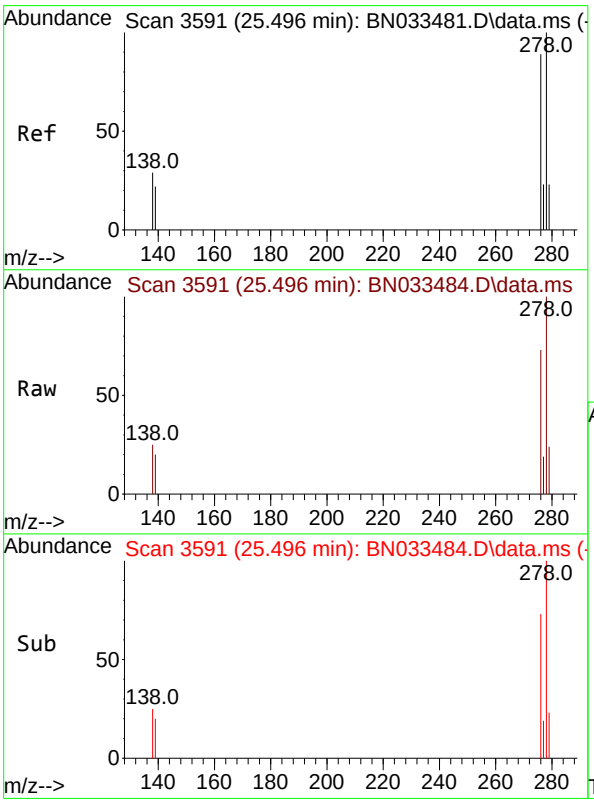
#39
Benzo(a)pyrene
Concen: 3.178 ng
RT: 23.224 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 151103

Ion	Ratio	Lower	Upper
252	100		
253	22.2	21.5	32.3
125	13.6	17.0	25.4#

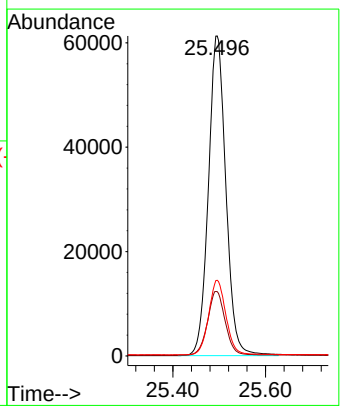


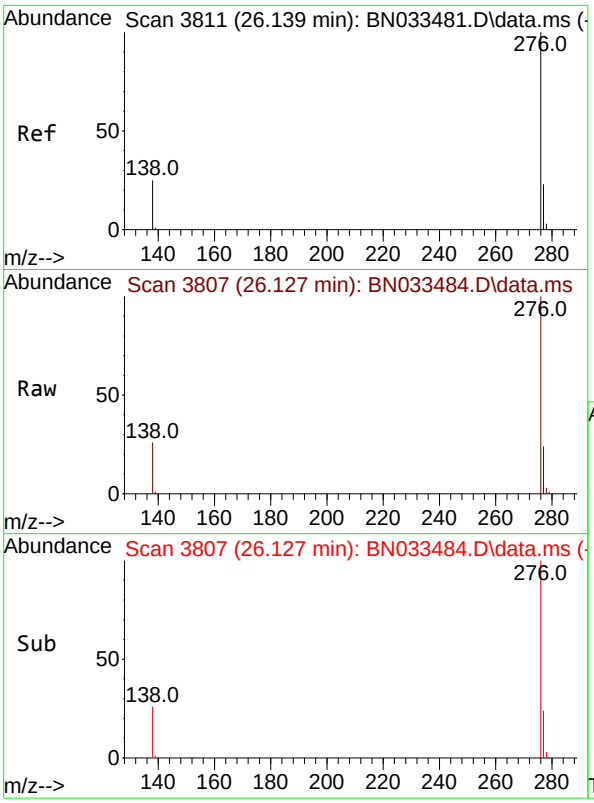


#40
Dibenzo(a,h)anthracene
Concen: 3.242 ng
RT: 25.496 min Scan# 3591
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:278 Resp: 160621

Ion	Ratio	Lower	Upper
278	100		
139	20.1	19.1	28.7
279	23.6	21.0	31.4



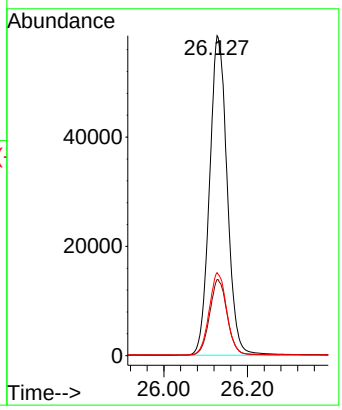


#41
Benzo(g,h,i)perylene
Concen: 3.133 ng
RT: 26.127 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 170664

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.7	29.5
138	26.0	21.8	32.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033485.D
Acq On : 19 Aug 2024 19:53
Operator : MA/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Aug 19 23:23:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.559	152	9269	0.400	ng		0.00
7) Naphthalene-d8	10.314	136	21998	0.400	ng		0.00
13) Acenaphthene-d10	14.189	164	11634	0.400	ng		0.00
19) Phenanthrene-d10	16.942	188	23558	0.400	ng		0.00
29) Chrysene-d12	21.148	240	17408	0.400	ng	#	0.00
35) Perylene-d12	23.317	264	15627	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.190	112	139321	5.345	ng		0.00
5) Phenol-d6	6.743	99	157195	4.614	ng		0.00
8) Nitrobenzene-d5	8.691	82	91772	5.507	ng		0.00
11) 2-Methylnaphthalene-d10	11.915	152	160871	4.865	ng		0.00
14) 2,4,6-Tribromophenol	15.688	330	34523	5.811	ng		0.00
15) 2-Fluorobiphenyl	12.809	172	235781	5.007	ng		0.00
27) Fluoranthene-d10	18.979	212	294565	4.770	ng		0.00
31) Terphenyl-d14	19.597	244	195740	5.835	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.190	88	45493	4.560	ng		99
3) n-Nitrosodimethylamine	3.471	42	56221	4.351	ng		98
6) bis(2-Chloroethyl)ether	6.989	93	113488	4.272	ng		100
9) Naphthalene	10.368	128	291947	4.891	ng		99
10) Hexachlorobutadiene	10.667	225	57398	5.014	ng	#	100
12) 2-Methylnaphthalene	11.990	142	190474	4.768	ng		98
16) Acenaphthylene	13.911	152	277888	5.198	ng		100
17) Acenaphthene	14.253	154	185664	5.047	ng		97
18) Fluorene	15.247	166	230419	4.786	ng		100
20) 4,6-Dinitro-2-methylph...	15.322	198	23328	7.938	ng	#	69
21) 4-Bromophenyl-phenylether	16.147	248	73606	5.238	ng		98
22) Hexachlorobenzene	16.247	284	79732	5.080	ng		99
23) Atrazine	16.420	200	61750	5.519	ng		98
24) Pentachlorophenol	16.594	266	40313	6.275	ng		99
25) Phenanthrene	16.979	178	335366	4.976	ng		100
26) Anthracene	17.066	178	311339	5.228	ng		99
28) Fluoranthene	19.012	202	379353	4.638	ng		100
30) Pyrene	19.374	202	384431	5.482	ng		100
32) Benzo(a)anthracene	21.130	228	320243	4.958	ng		100
33) Chrysene	21.184	228	311144	4.829	ng		100
34) Bis(2-ethylhexyl)phtha...	21.094	149	193548	6.264	ng		100
36) Indeno(1,2,3-cd)pyrene	25.478	276	330983	5.109	ng		99
37) Benzo(b)fluoranthene	22.674	252	299478	5.133	ng	#	91
38) Benzo(k)fluoranthene	22.715	252	295429	4.997	ng	#	89
39) Benzo(a)pyrene	23.224	252	251984	5.121	ng	#	87
40) Dibenzo(a,h)anthracene	25.493	278	264087	5.151	ng		93
41) Benzo(g,h,i)perylene	26.133	276	280592	4.978	ng		98

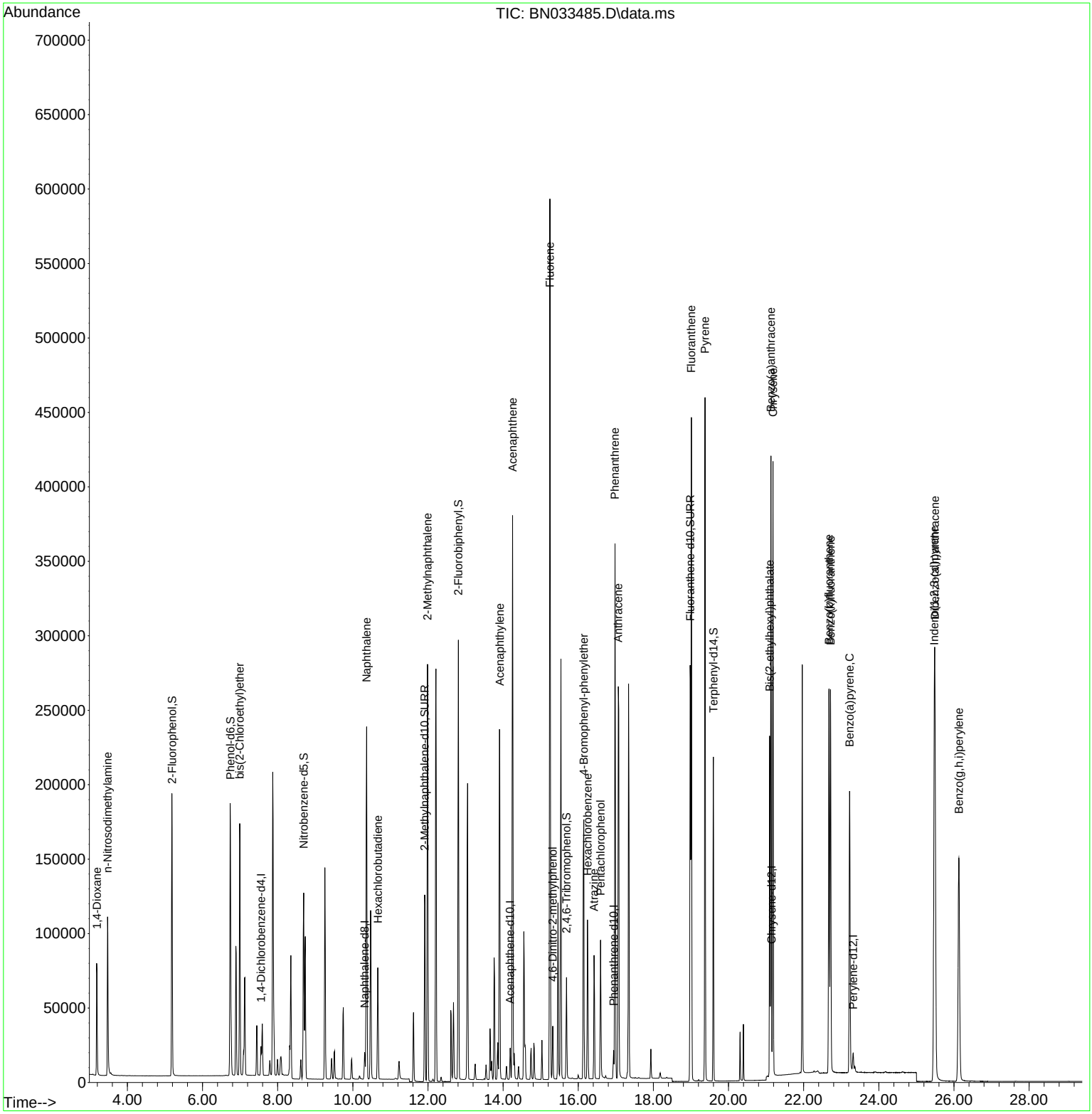
(#) = qualifier out of range (m) = manual integration (+) = signals summed

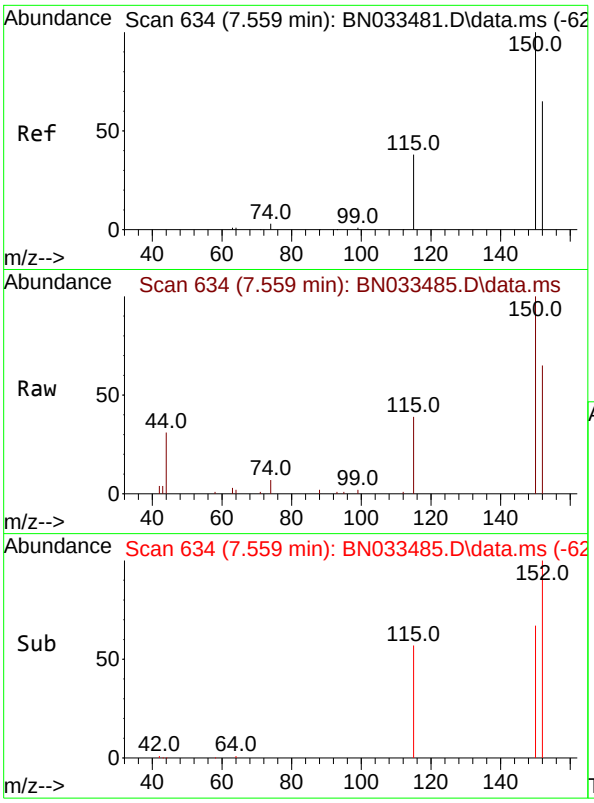
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033485.D
Acq On : 19 Aug 2024 19:53
Operator : MA/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Aug 19 23:23:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration



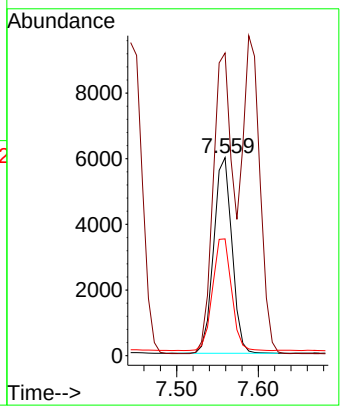


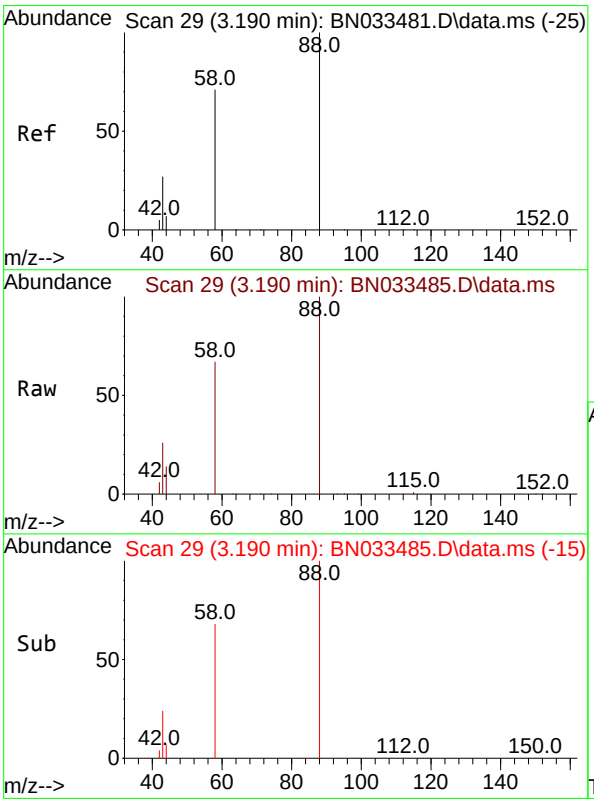
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 9269

Ion	Ratio	Lower	Upper
152	100		
150	152.8	122.2	183.2
115	58.9	47.2	70.8

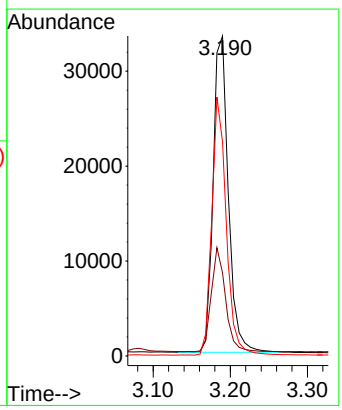


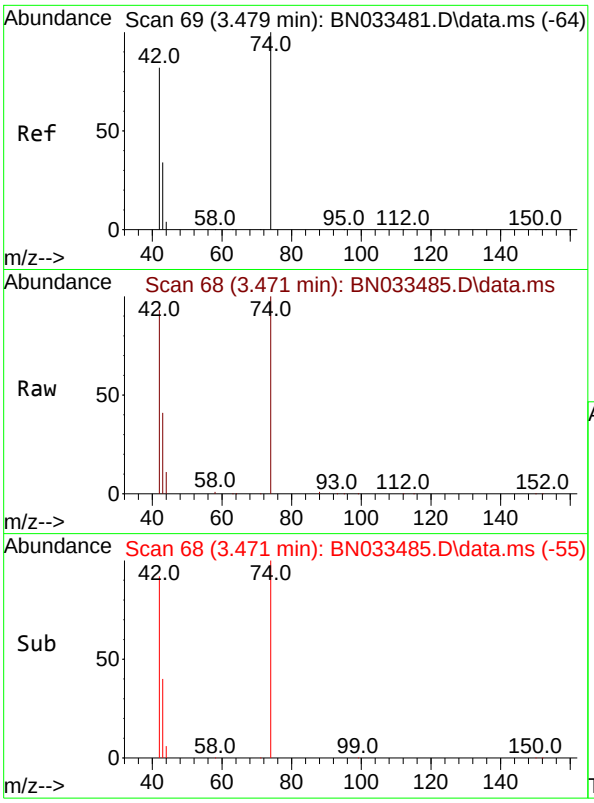


#2
1,4-Dioxane
Concen: 4.560 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion: 88 Resp: 45493

Ion	Ratio	Lower	Upper
88	100		
43	30.6	25.0	37.4
58	77.6	62.5	93.7



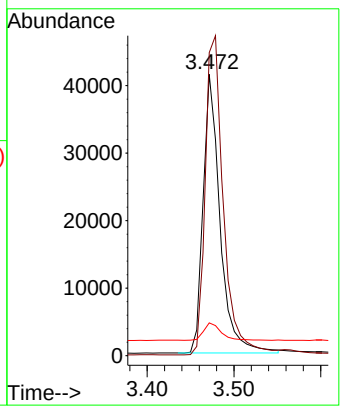


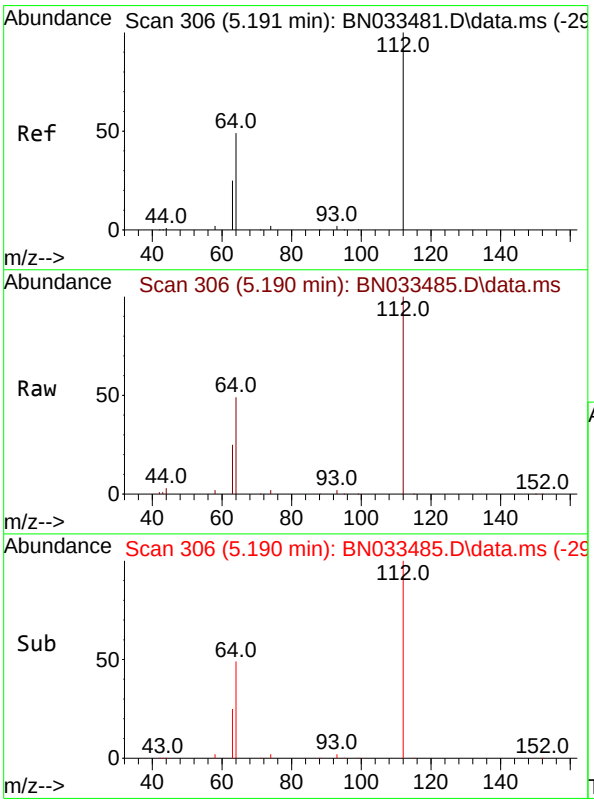
#3
n-Nitrosodimethylamine
Concen: 4.351 ng
RT: 3.471 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 56221

Ion	Ratio	Lower	Upper
42	100		
74	122.7	100.2	150.2
44	6.4	5.3	7.9

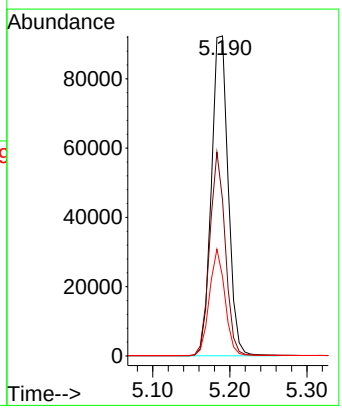


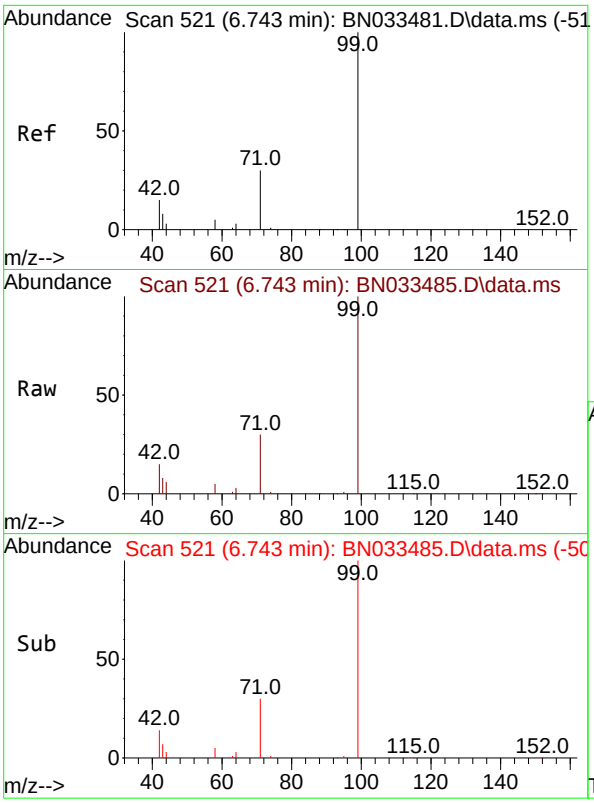


#4
2-Fluorophenol
Concen: 5.345 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:112 Resp: 139321

Ion	Ratio	Lower	Upper
112	100		
64	58.9	47.1	70.7
63	30.7	24.9	37.3



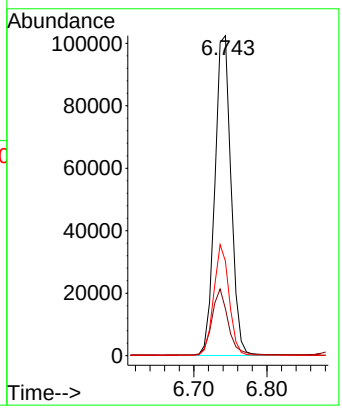


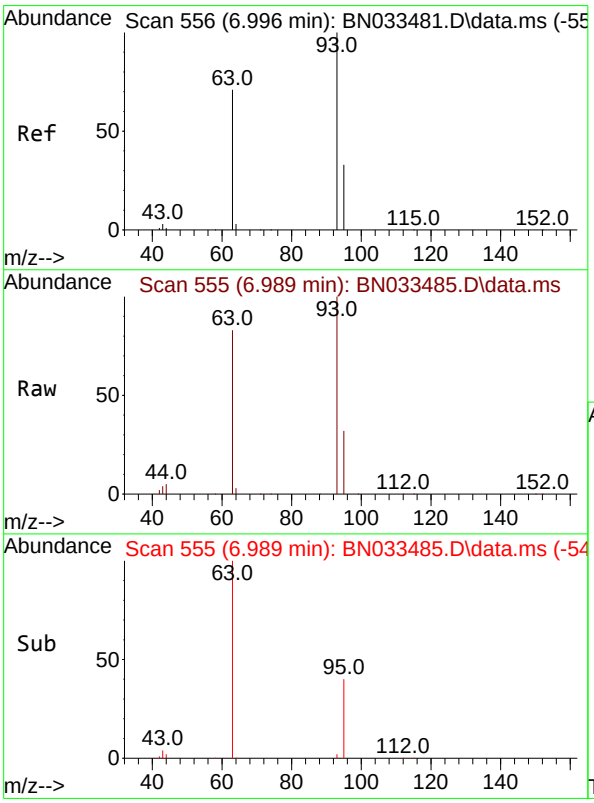
#5
Phenol-d6
Concen: 4.614 ng
RT: 6.743 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 157195

Ion	Ratio	Lower	Upper
99	100		
42	20.4	16.6	24.8
71	33.0	26.2	39.4

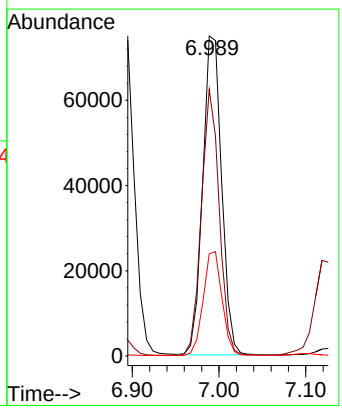


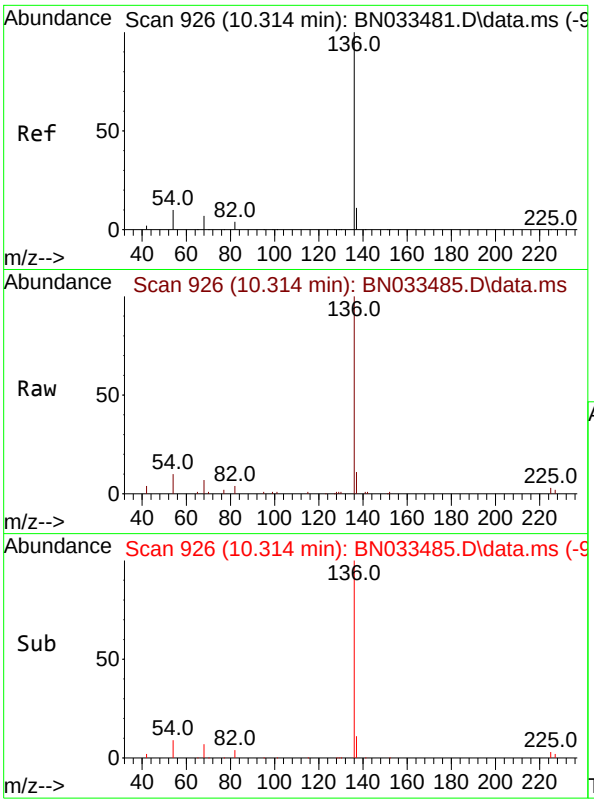


#6
bis(2-Chloroethyl)ether
Concen: 4.272 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion: 93 Resp: 113488

Ion	Ratio	Lower	Upper
93	100		
63	78.7	63.0	94.4
95	32.4	26.0	39.0



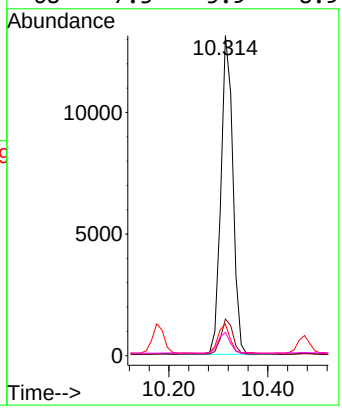


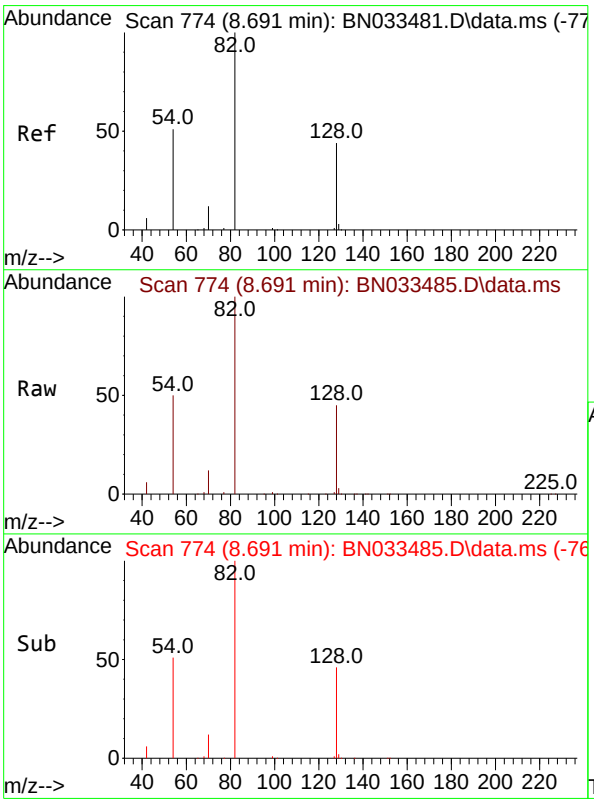
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 21998

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	9.9	8.3	12.5
68	7.3	5.9	8.9

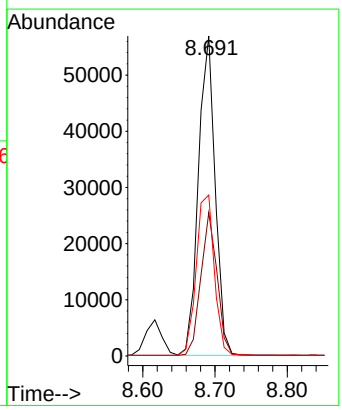


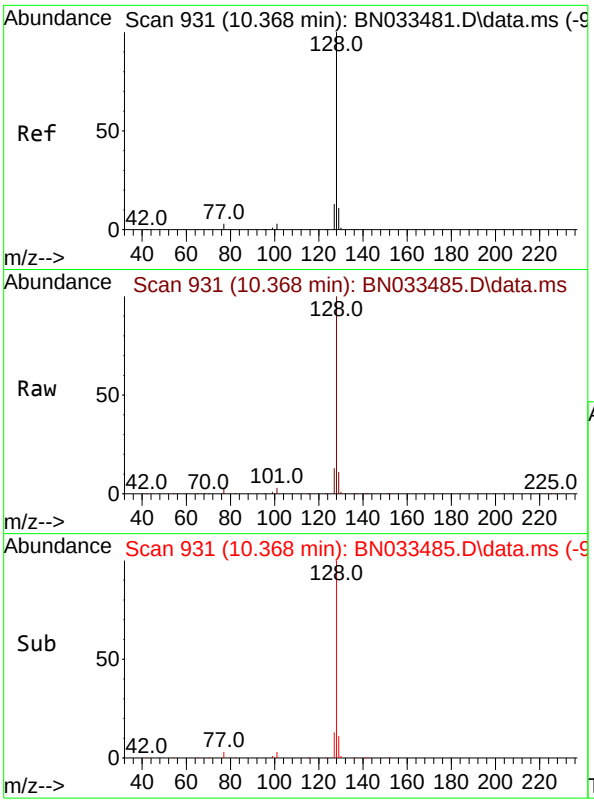


#8
Nitrobenzene-d5
Concen: 5.507 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion: 82 Resp: 91772

Ion	Ratio	Lower	Upper
82	100		
128	44.8	36.0	54.0
54	50.3	42.0	63.0



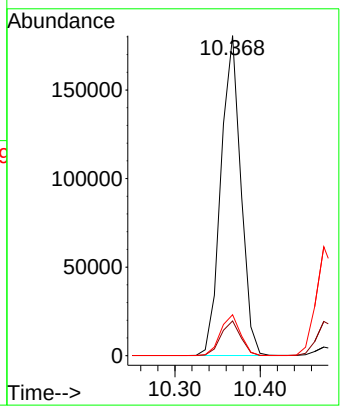


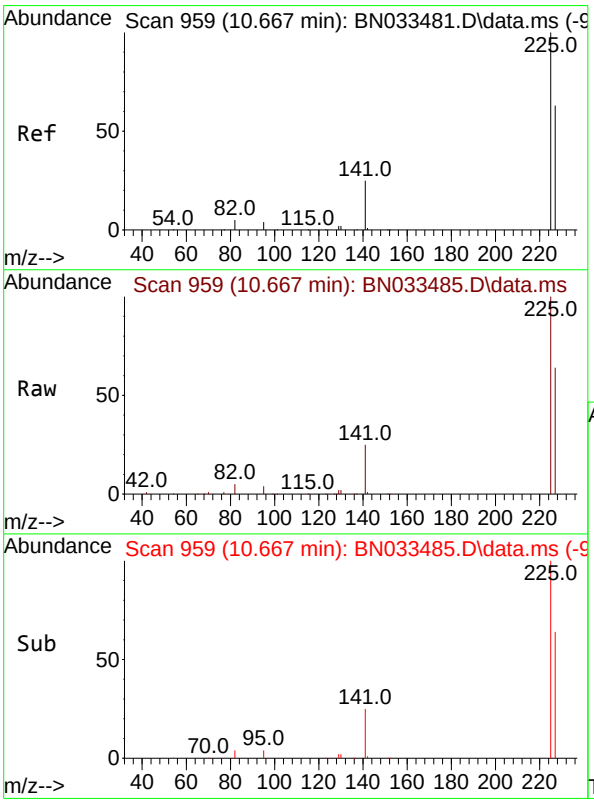
#9
Naphthalene
Concen: 4.891 ng
RT: 10.368 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 291947

Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.1	13.7
127	12.8	10.7	16.1

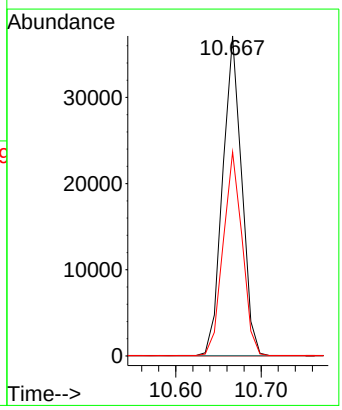


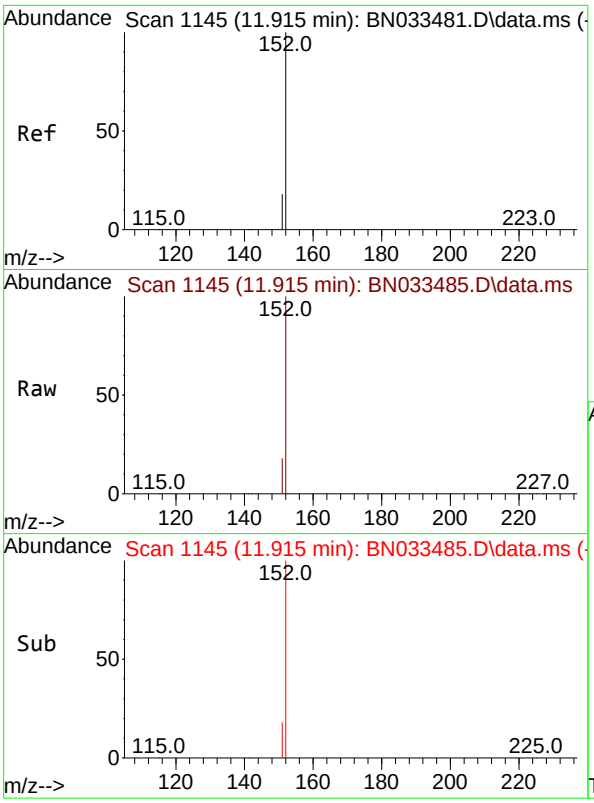


#10
Hexachlorobutadiene
Concen: 5.014 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:225 Resp: 57398

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.2	76.8



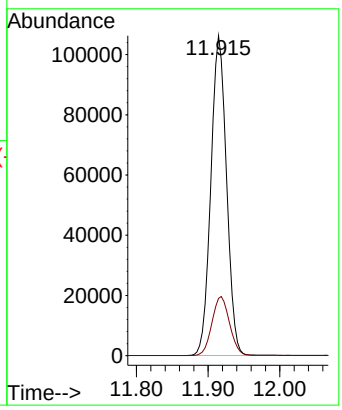


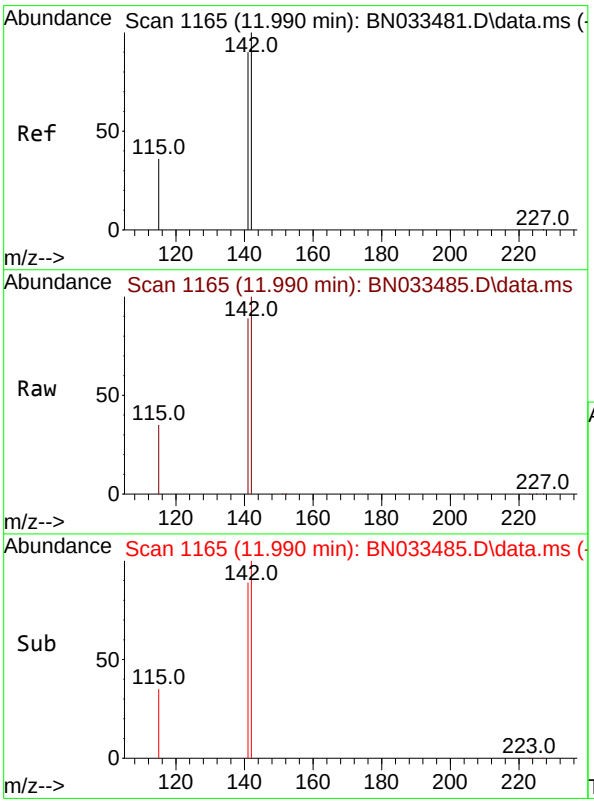
#11
2-Methylnaphthalene-d10
Concen: 4.865 ng
RT: 11.915 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 160871

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

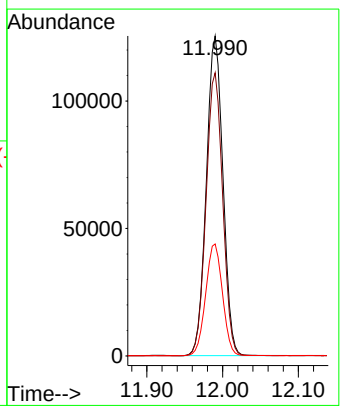


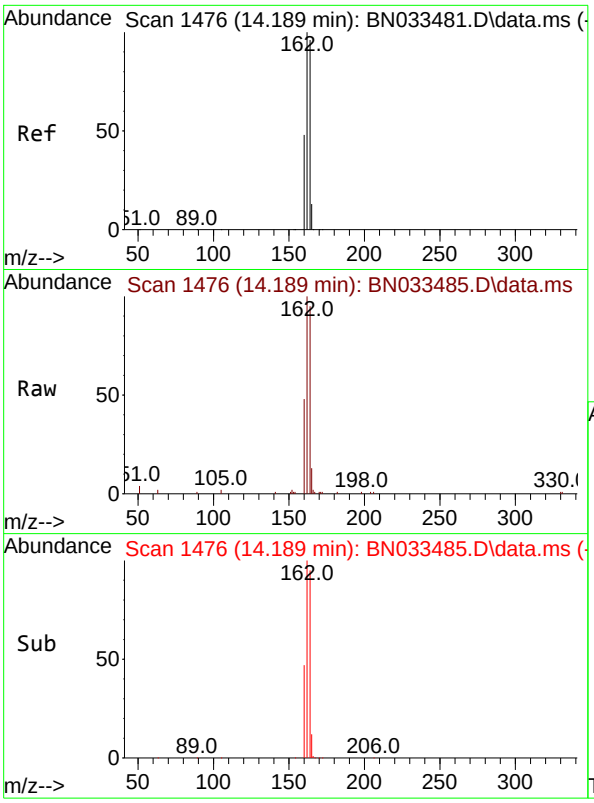


#12
2-Methylnaphthalene
Concen: 4.768 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:142 Resp: 190474

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.7	107.5
115	35.0	29.4	44.2



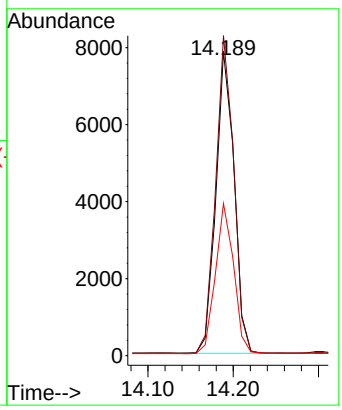


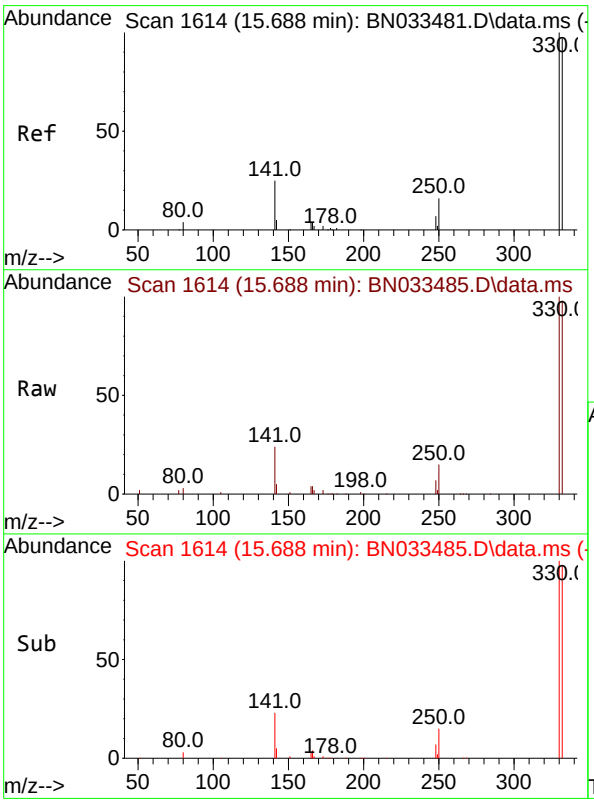
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 11634

Ion	Ratio	Lower	Upper
164	100		
162	105.2	83.5	125.3
160	50.1	40.2	60.4

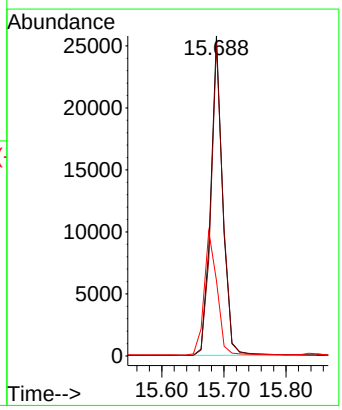


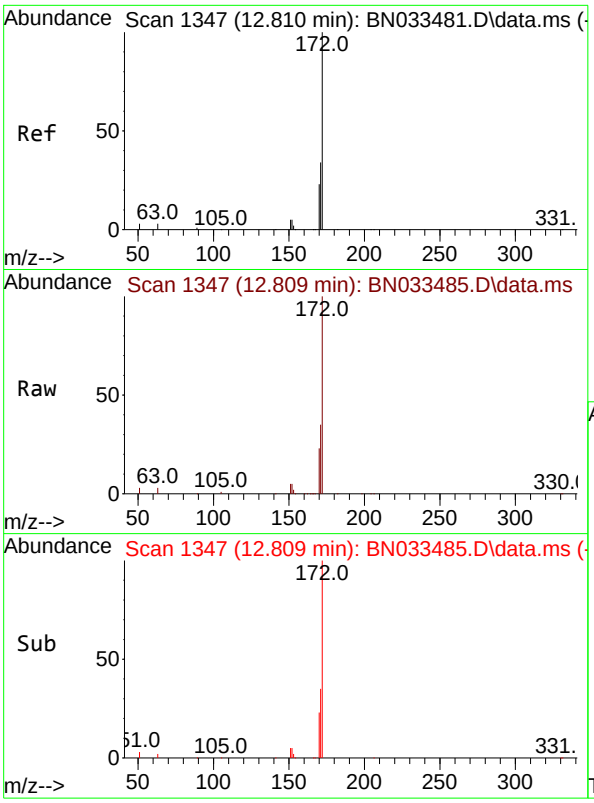


#14
2,4,6-Tribromophenol
Concen: 5.811 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:330 Resp: 34523

Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.5	116.3
141	41.7	33.9	50.9



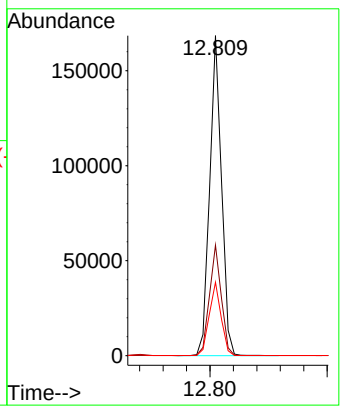


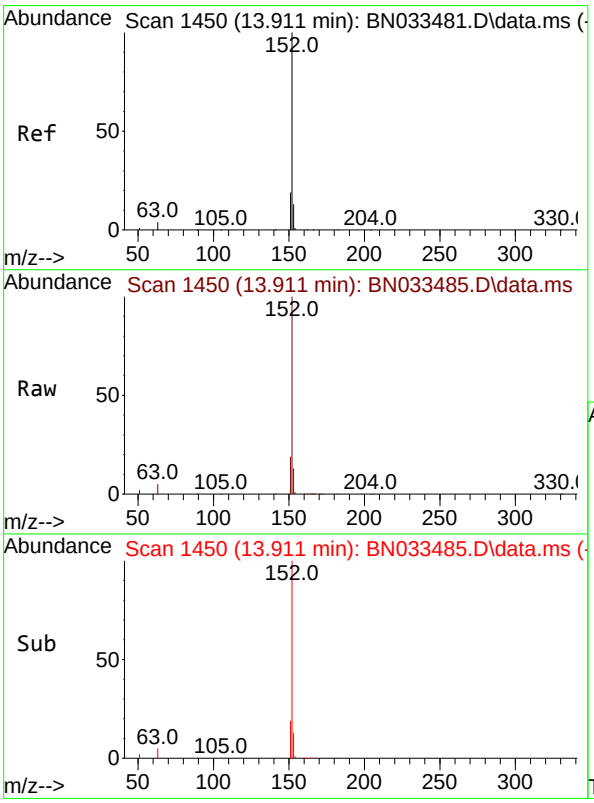
#15
2-Fluorobiphenyl
Concen: 5.007 ng
RT: 12.809 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 235781

Ion	Ratio	Lower	Upper
172	100		
171	34.5	27.7	41.5
170	23.0	18.3	27.5

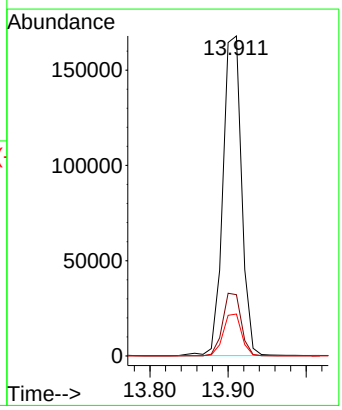


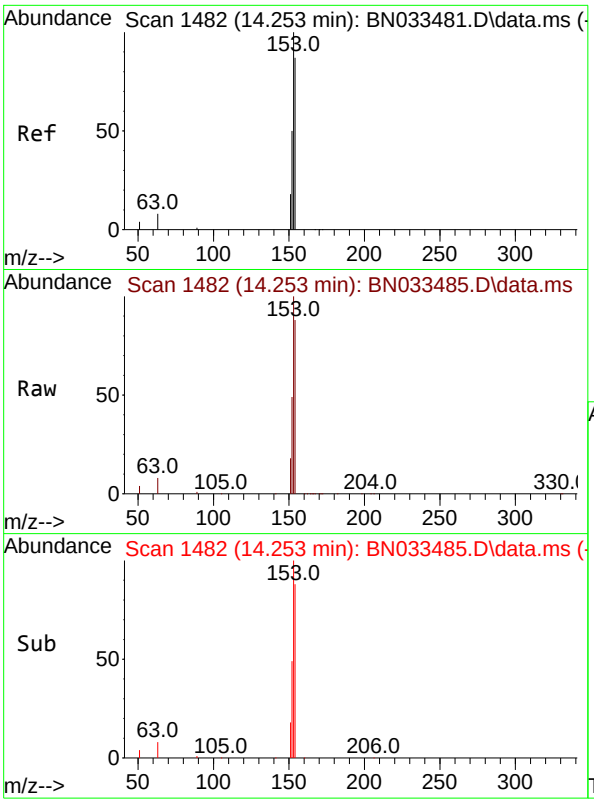


#16
Acenaphthylene
Concen: 5.198 ng
RT: 13.911 min Scan# 1450
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:152 Resp: 277888

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.7	23.5
153	13.0	10.3	15.5



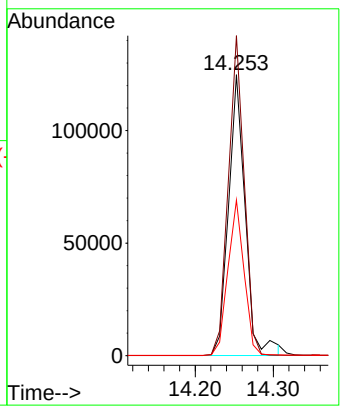


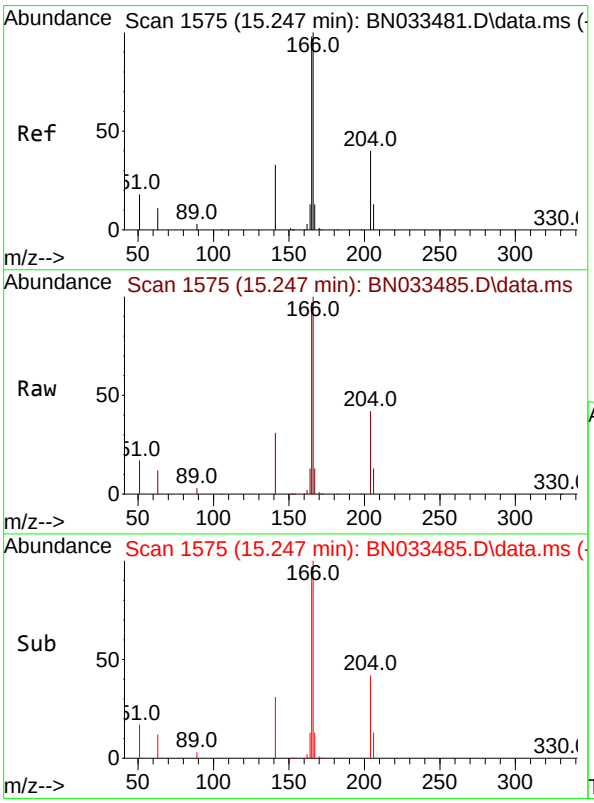
#17
Acenaphthene
Concen: 5.047 ng
RT: 14.253 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 185664

Ion	Ratio	Lower	Upper
154	100		
153	108.5	89.0	133.6
152	53.5	45.2	67.8

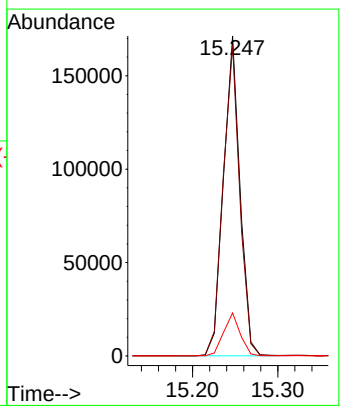


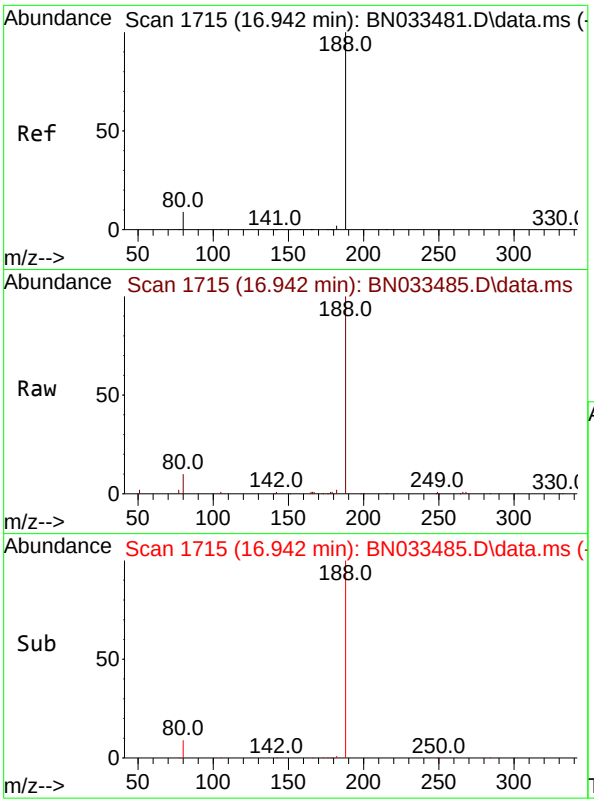


#18
Fluorene
Concen: 4.786 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:166 Resp: 230419

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.2	117.4
167	13.4	10.6	16.0



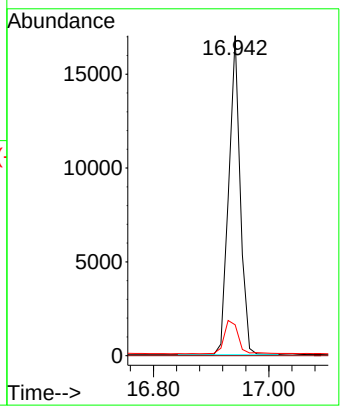


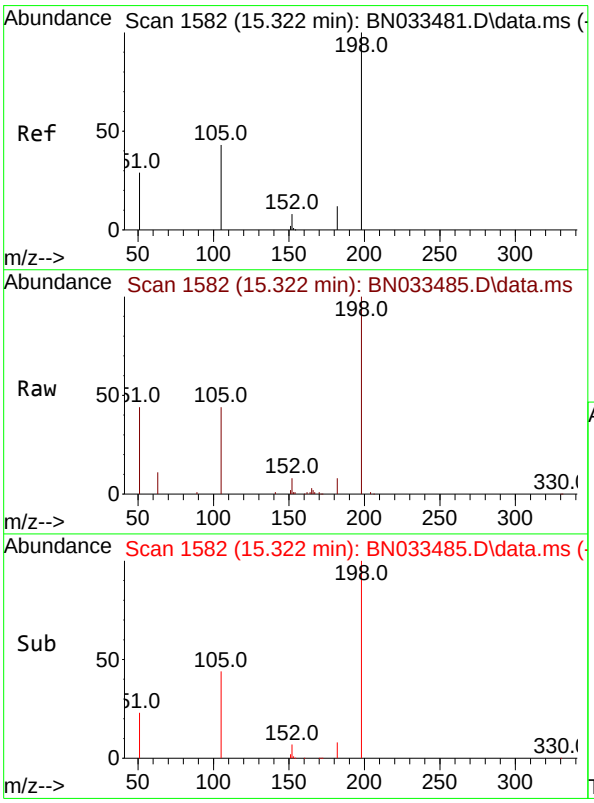
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 23558

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.6	7.8	11.8

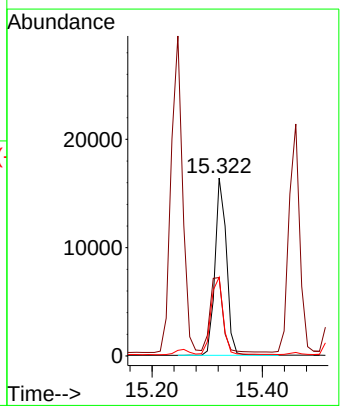


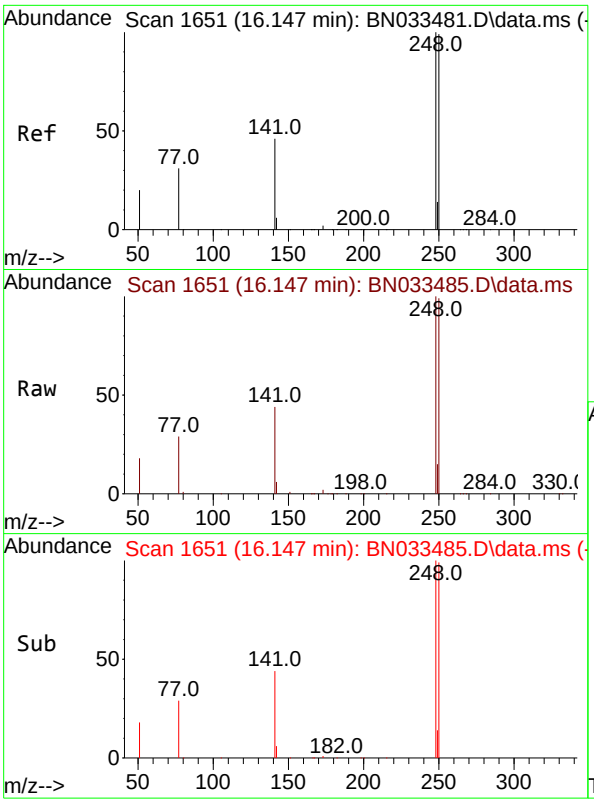


#20
4,6-Dinitro-2-methylphenol
Concen: 7.938 ng
RT: 15.322 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:198 Resp: 23328

Ion	Ratio	Lower	Upper
198	100		
51	44.0	65.1	97.7#
105	44.3	44.8	67.2#



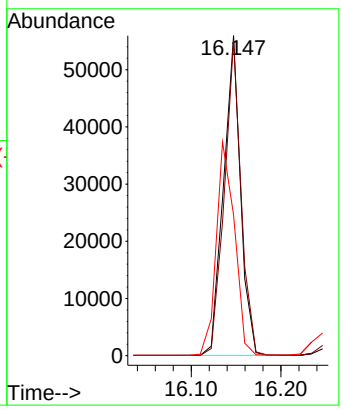


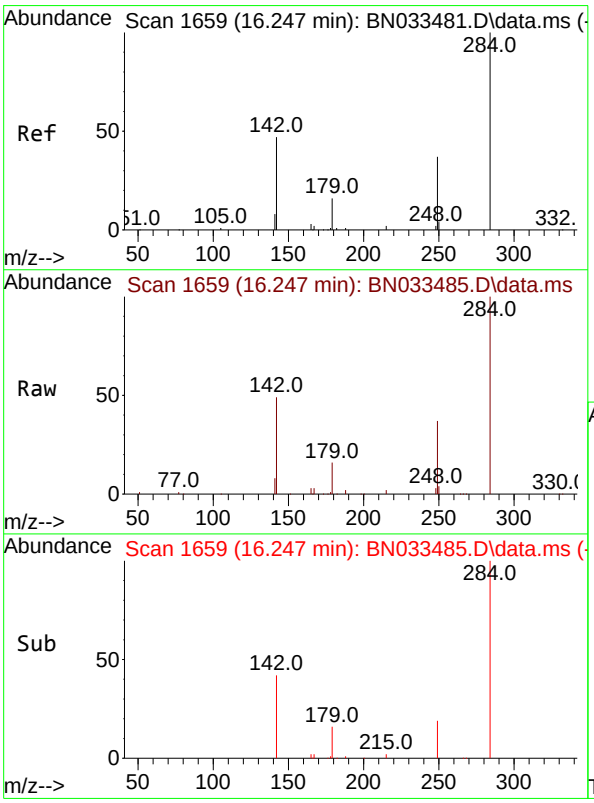
#21
4-Bromophenyl-phenylether
Concen: 5.238 ng
RT: 16.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 73606

Ion	Ratio	Lower	Upper
248	100		
250	98.6	79.2	118.8
141	44.0	37.9	56.9

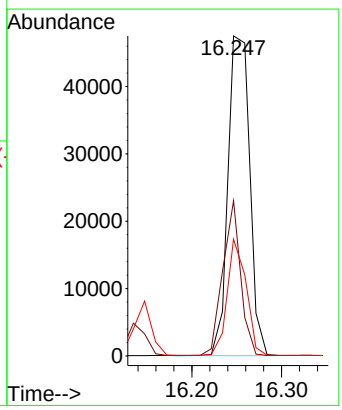


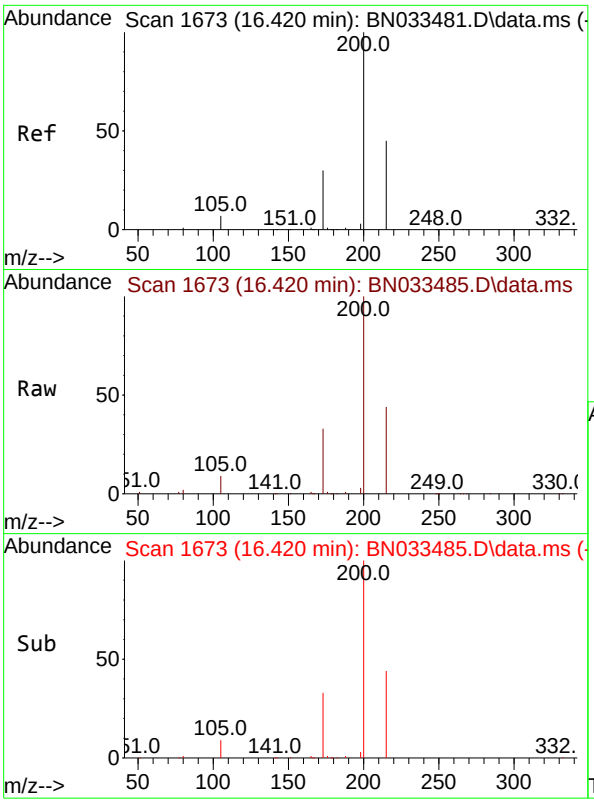


#22
Hexachlorobenzene
Concen: 5.080 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:284 Resp: 79732

Ion	Ratio	Lower	Upper
284	100		
142	39.6	31.8	47.6
249	31.6	26.0	39.0



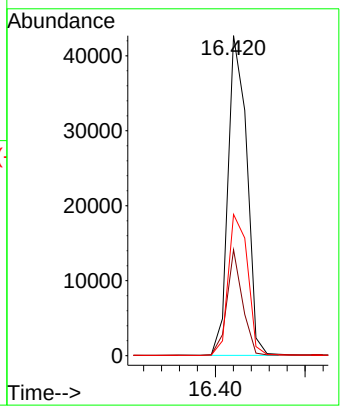


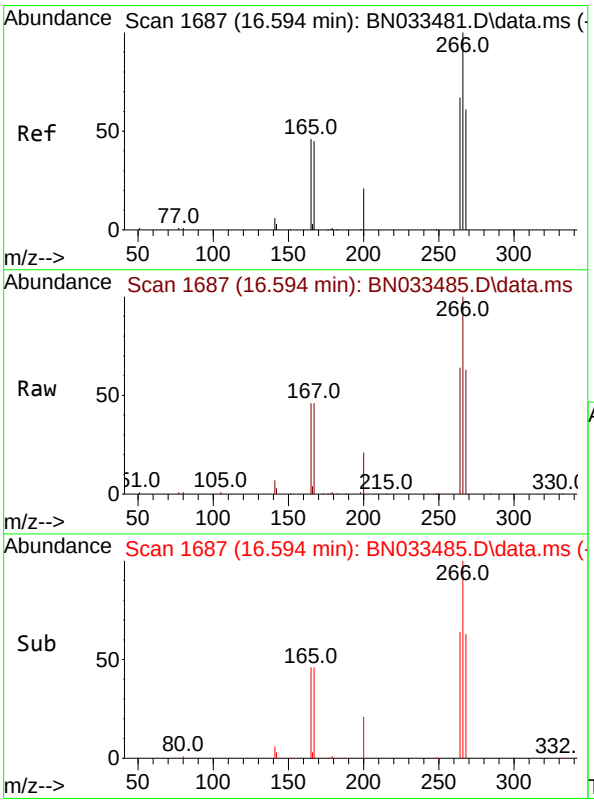
#23
Atrazine
Concen: 5.519 ng
RT: 16.420 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 61750

Ion	Ratio	Lower	Upper
200	100		
173	33.1	25.3	37.9
215	44.2	36.6	54.8

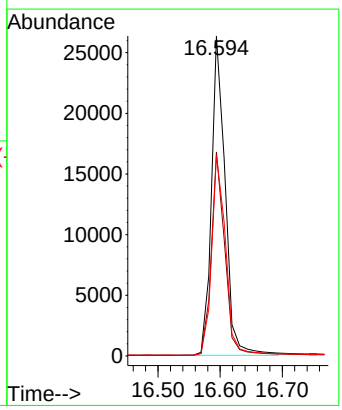


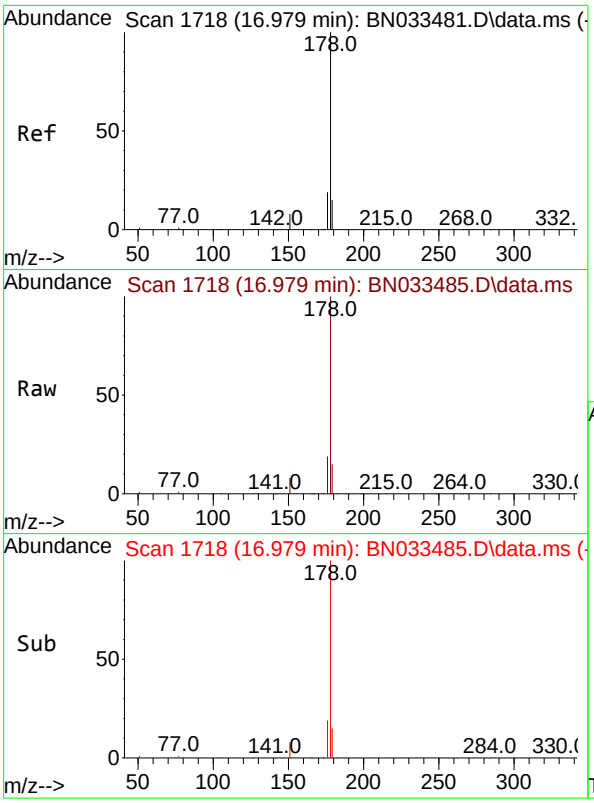


#24
Pentachlorophenol
Concen: 6.275 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:266 Resp: 40313

Ion	Ratio	Lower	Upper
266	100		
264	62.7	51.9	77.9
268	63.8	51.0	76.4



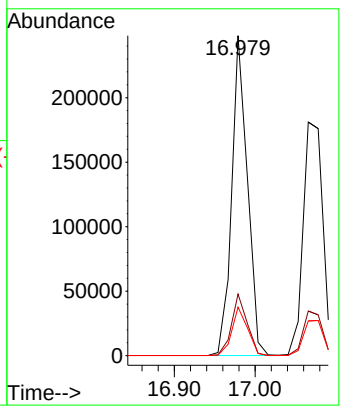


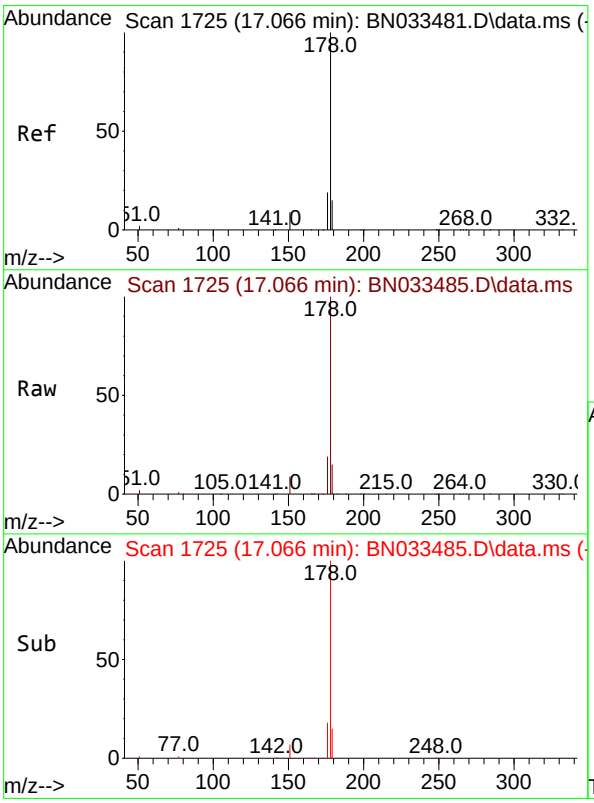
#25
Phenanthrene
Concen: 4.976 ng
RT: 16.979 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 335366

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.2	12.3	18.5

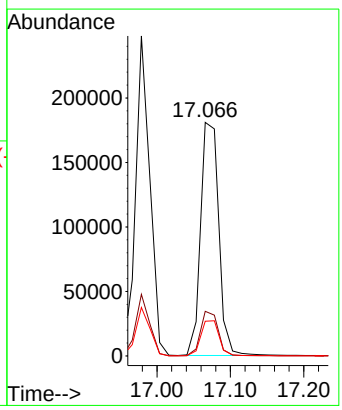


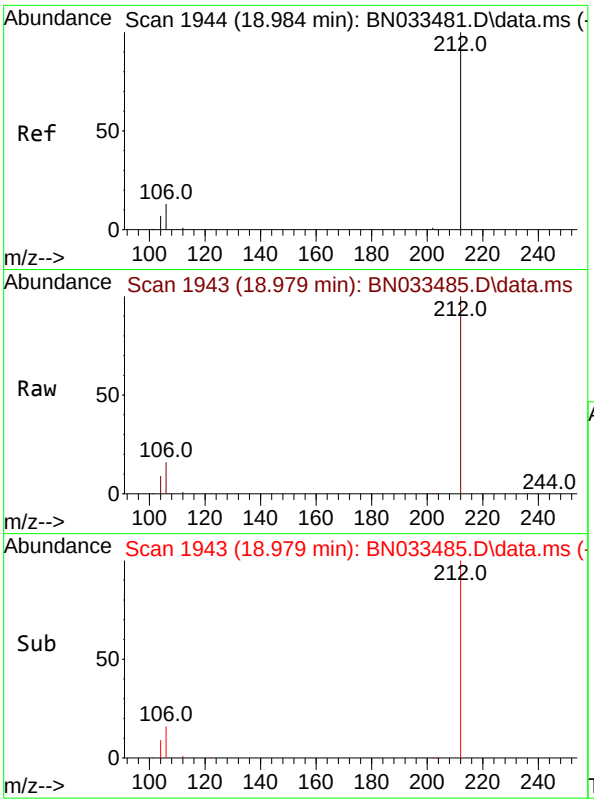


#26
Anthracene
Concen: 5.228 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:178 Resp: 311339

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.2	12.4	18.6



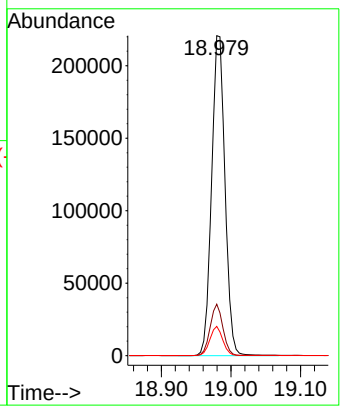


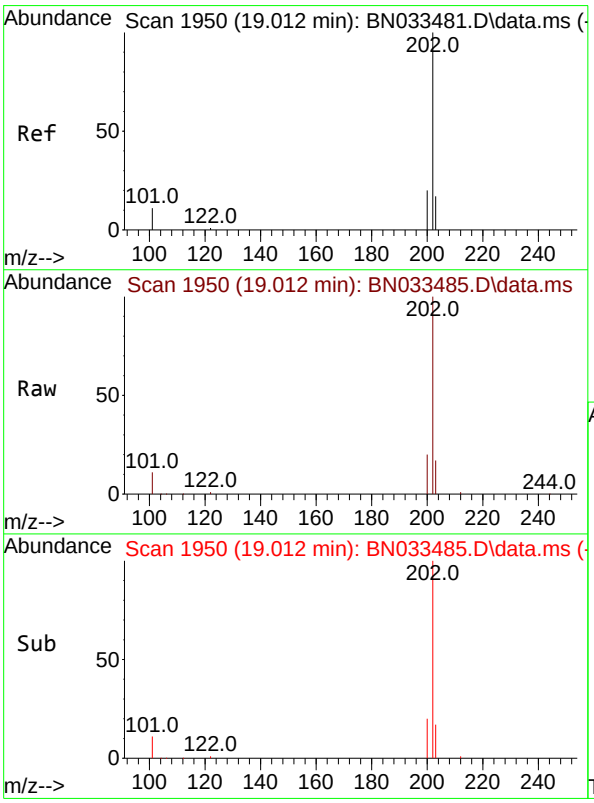
#27
Fluoranthene-d10
Concen: 4.770 ng
RT: 18.979 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 294565

Ion	Ratio	Lower	Upper
212	100		
106	15.3	12.3	18.5
104	8.7	7.0	10.4

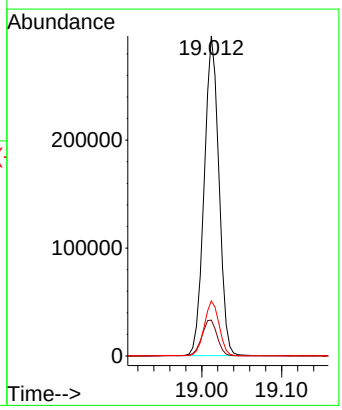


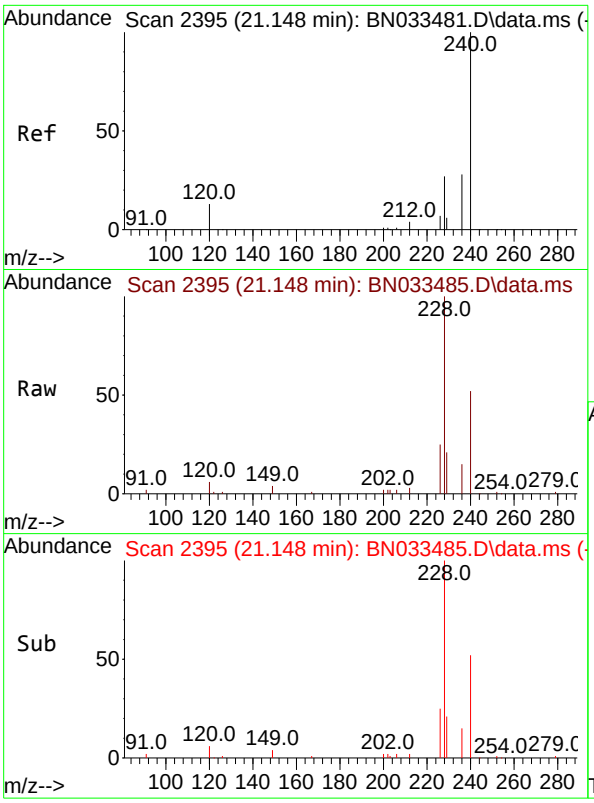


#28
Fluoranthene
Concen: 4.638 ng
RT: 19.012 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:202 Resp: 379353

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.5	14.3
203	17.3	13.8	20.6



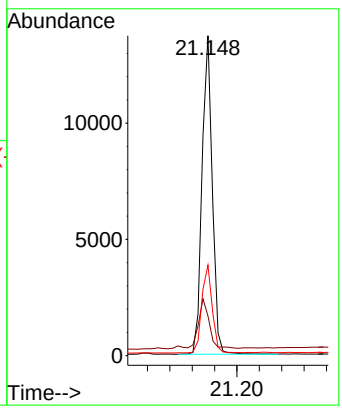


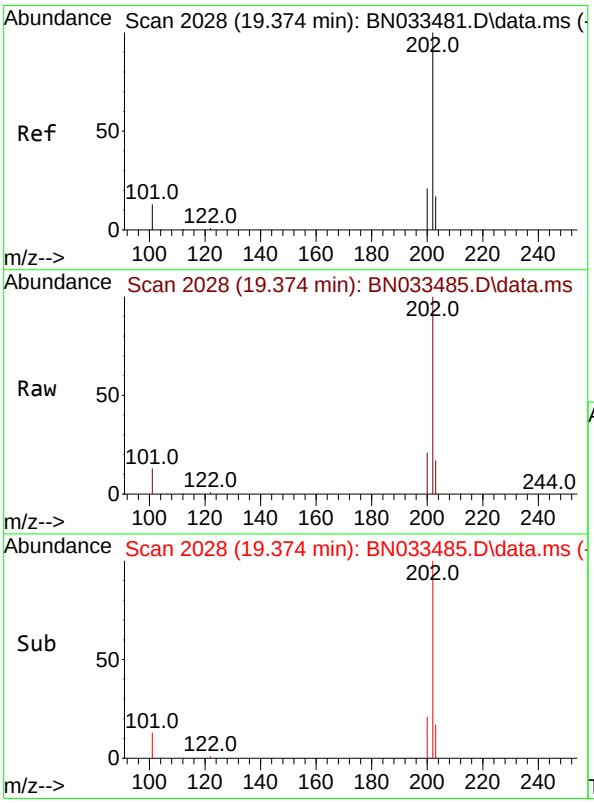
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 17408

Ion	Ratio	Lower	Upper
240	100		
120	12.4	12.4	18.6#
236	28.3	23.0	34.6

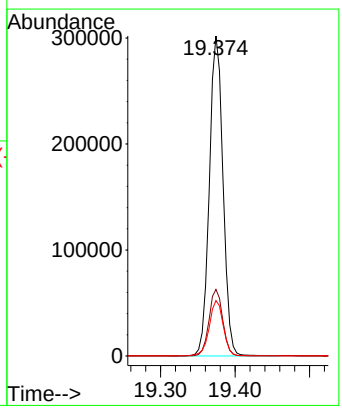


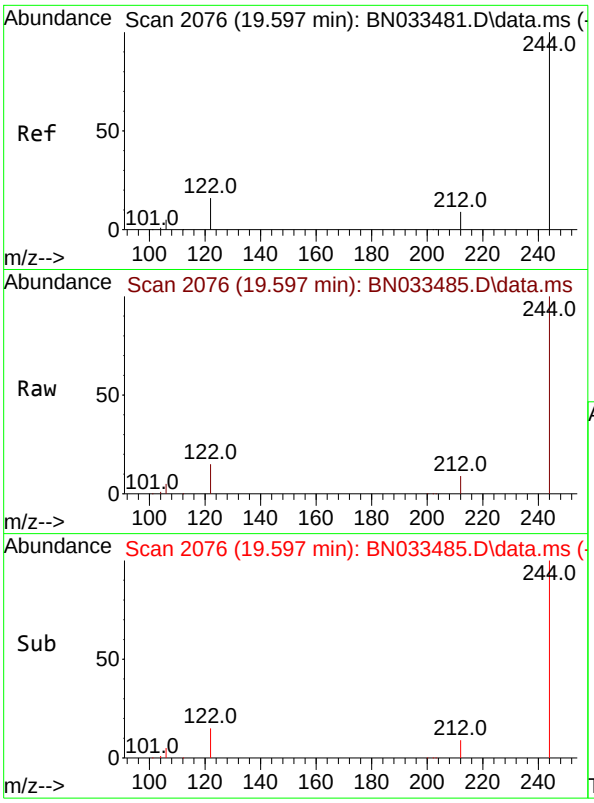


#30
Pyrene
Concen: 5.482 ng
RT: 19.374 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:202 Resp: 384431

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	24.8
203	17.7	14.2	21.4



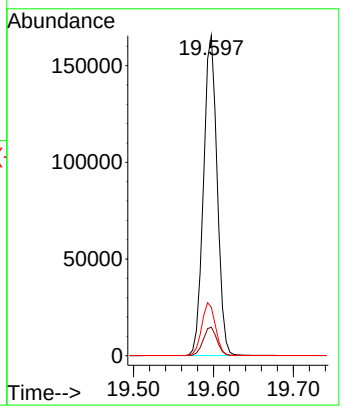


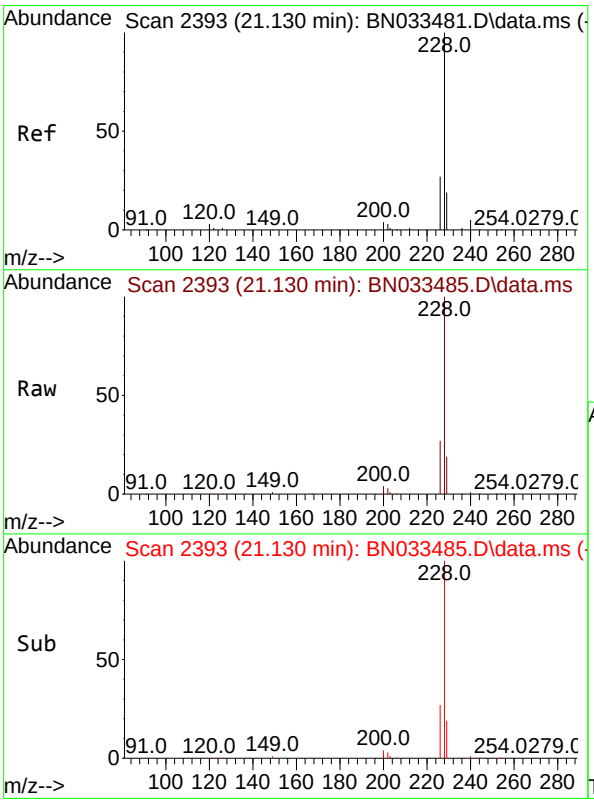
#31
Terphenyl-d14
Concen: 5.835 ng
RT: 19.597 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 195740

Ion	Ratio	Lower	Upper
244	100		
212	8.9	7.8	11.6
122	15.2	13.3	19.9

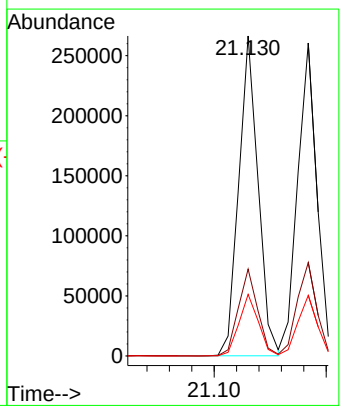


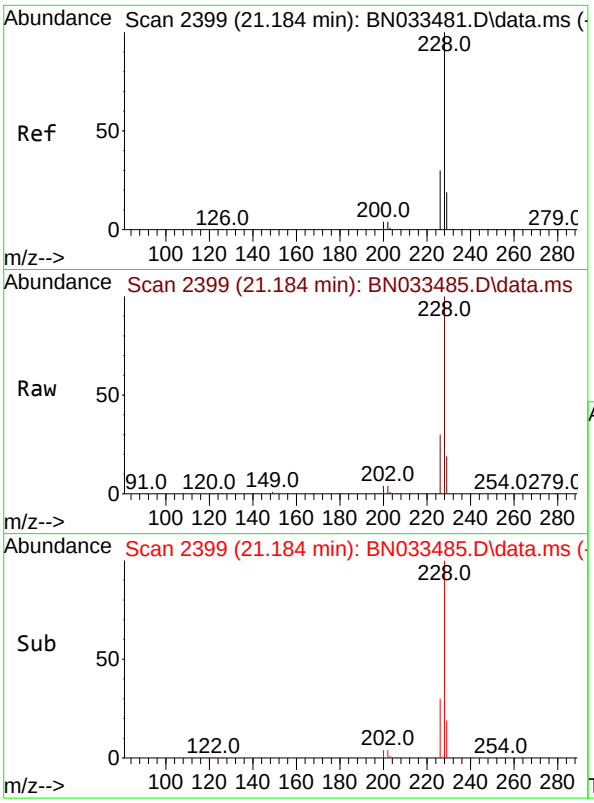


#32
Benzo(a)anthracene
Concen: 4.958 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:228 Resp: 320243

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.6
229	19.3	15.8	23.6



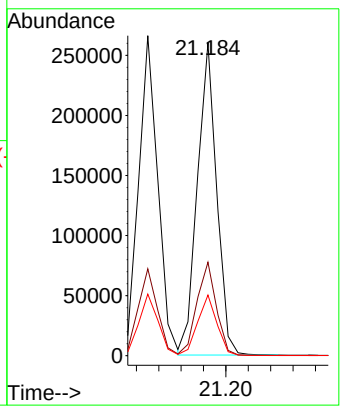


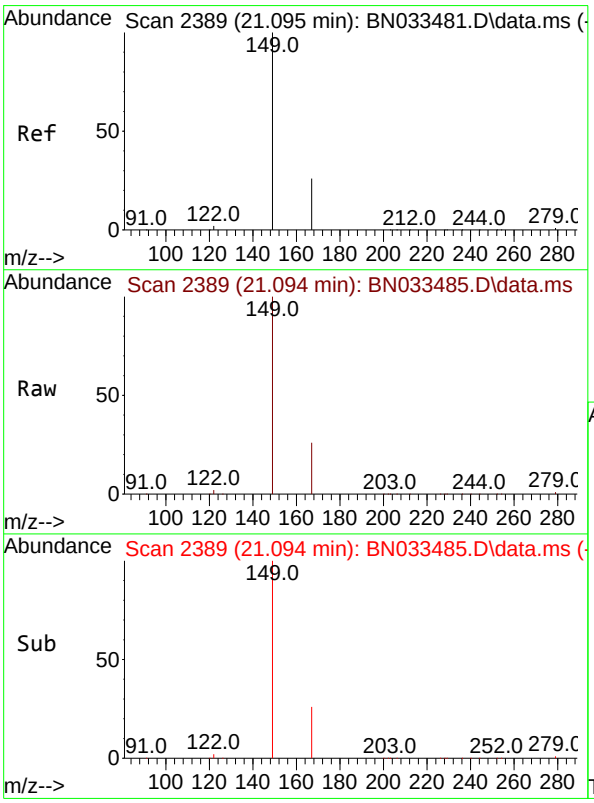
#33
Chrysene
Concen: 4.829 ng
RT: 21.184 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 311144

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.8	35.8
229	19.4	15.6	23.4

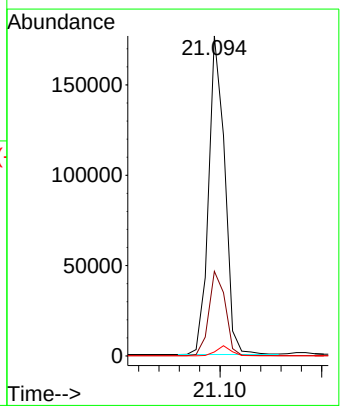


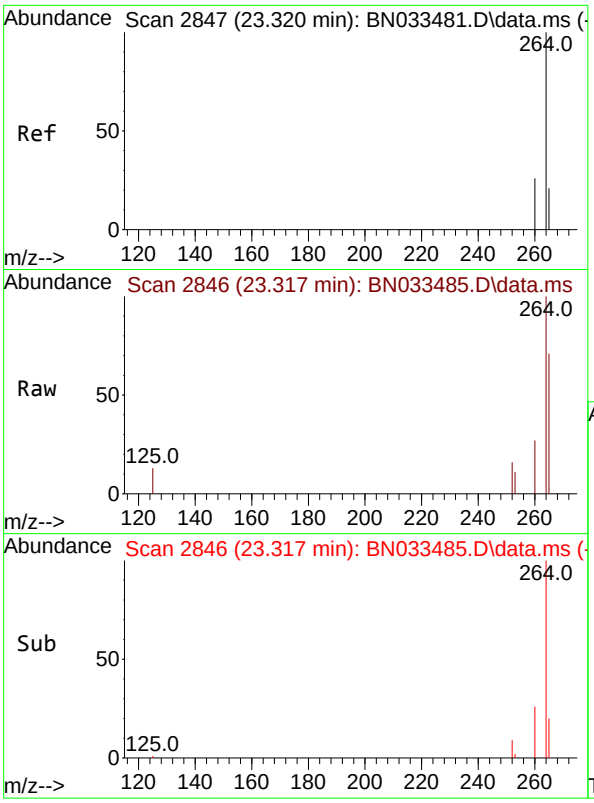


#34
Bis(2-ethylhexyl)phthalate
Concen: 6.264 ng
RT: 21.094 min Scan# 2389
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:149 Resp: 193548

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.5	32.3
279	2.9	2.2	3.2



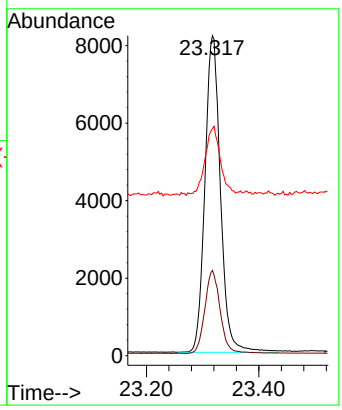


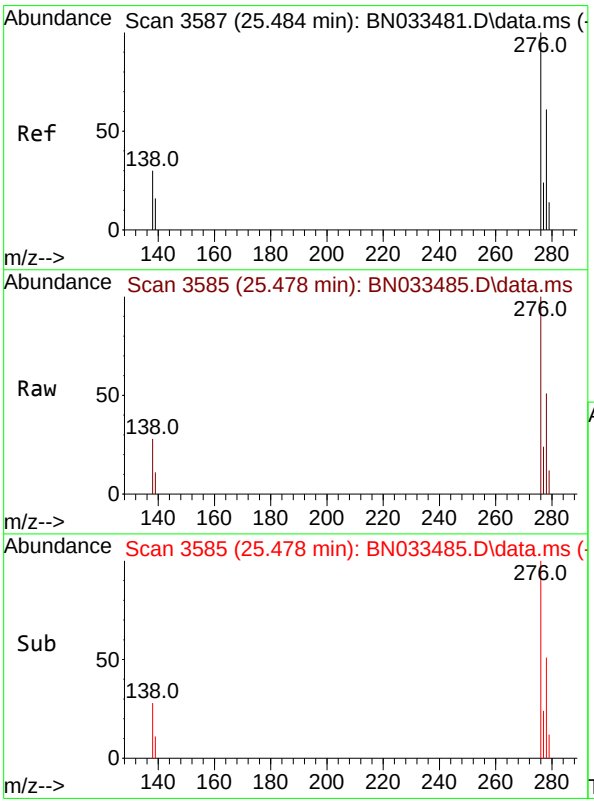
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 15627

Ion	Ratio	Lower	Upper
264	100		
260	26.7	20.8	31.2
265	71.0	52.2	78.2

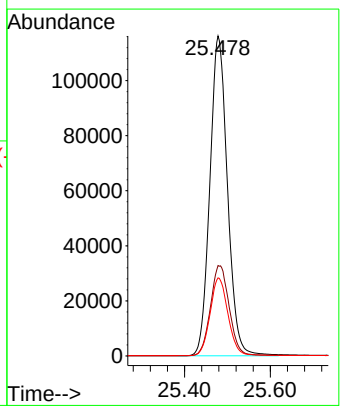


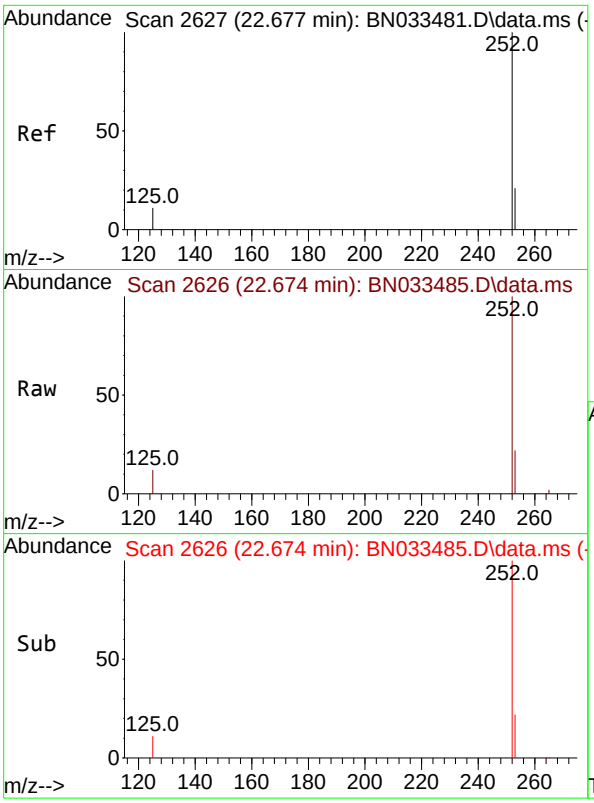


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.109 ng
RT: 25.478 min Scan# 3585
Delta R.T. -0.006 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:276 Resp: 330983

Ion	Ratio	Lower	Upper
276	100		
138	30.0	24.4	36.6
277	24.8	19.8	29.6



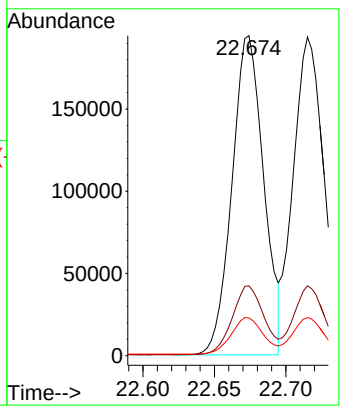


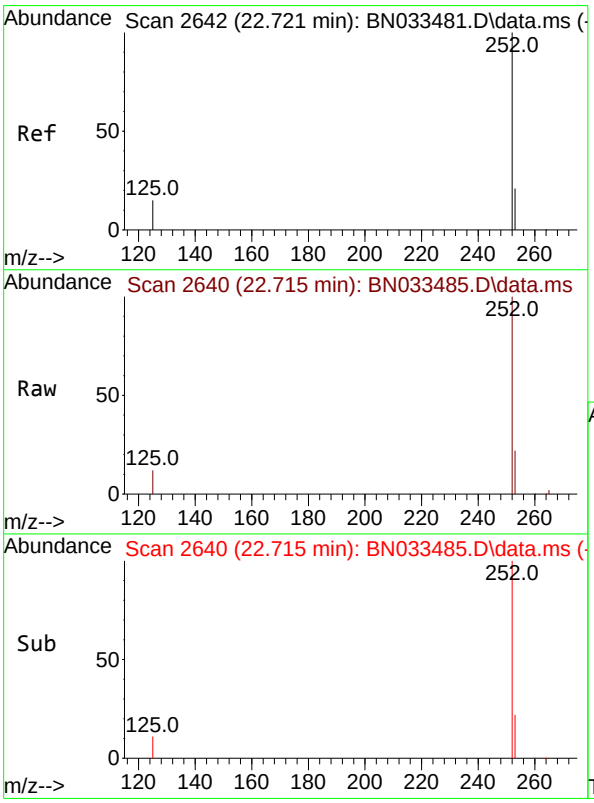
#37
Benzo(b)fluoranthene
Concen: 5.133 ng
RT: 22.674 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 299478

Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.8	29.8
125	11.8	13.9	20.9#

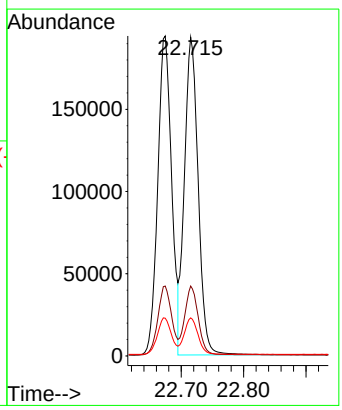


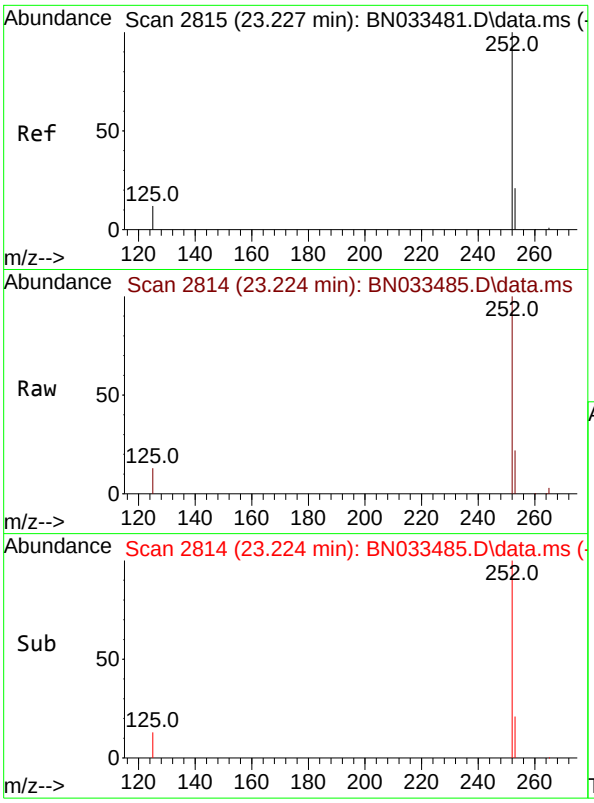


#38
Benzo(k)fluoranthene
Concen: 4.997 ng
RT: 22.715 min Scan# 2640
Delta R.T. -0.006 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:252 Resp: 295429

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.8	29.8
125	12.0	15.8	23.8#



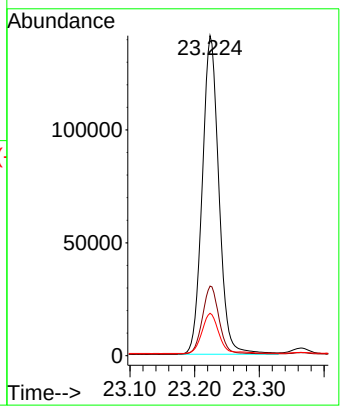


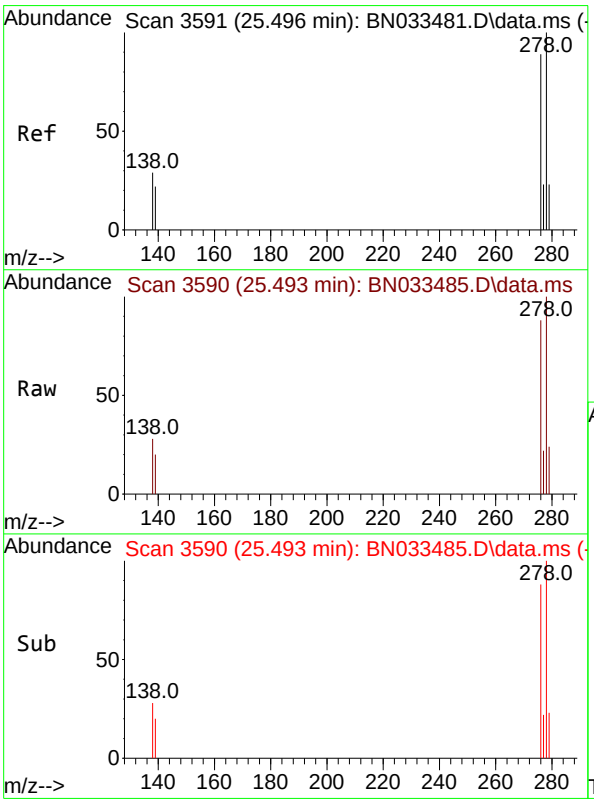
#39
Benzo(a)pyrene
Concen: 5.121 ng
RT: 23.224 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 251984

Ion	Ratio	Lower	Upper
252	100		
253	21.7	21.5	32.3
125	13.3	17.0	25.4#

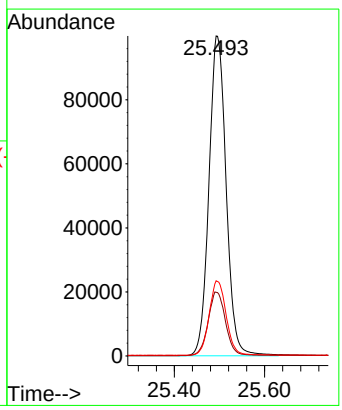


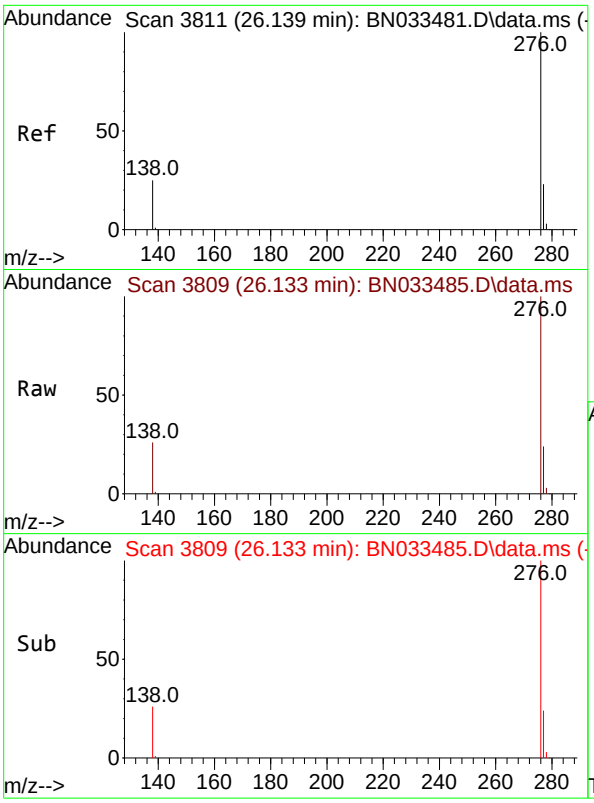


#40
Dibenzo(a,h)anthracene
Concen: 5.151 ng
RT: 25.493 min Scan# 3590
Delta R.T. -0.003 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:278 Resp: 264087

Ion	Ratio	Lower	Upper
278	100		
139	19.9	19.1	28.7
279	23.5	21.0	31.4



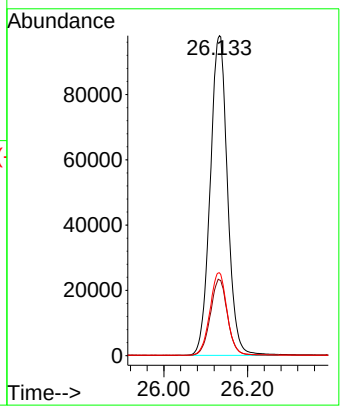


#41
Benzo(g,h,i)perylene
Concen: 4.978 ng
RT: 26.133 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 280592

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.7	29.5
138	25.9	21.8	32.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033486.D
Acq On : 20 Aug 2024 01:56
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Quant Time: Aug 20 02:44:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.552	152	12026	0.400	ng		0.00
7) Naphthalene-d8	10.314	136	33045	0.400	ng		0.00
13) Acenaphthene-d10	14.189	164	17848	0.400	ng		0.00
19) Phenanthrene-d10	16.942	188	35827	0.400	ng		0.00
29) Chrysene-d12	21.148	240	21483	0.400	ng	#	0.00
35) Perylene-d12	23.314	264	20739	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.183	112	17640	0.462	ng		0.00
5) Phenol-d6	6.736	99	22583	0.497	ng		0.00
8) Nitrobenzene-d5	8.691	82	9916	0.362	ng		0.00
11) 2-Methylnaphthalene-d10	11.915	152	17348	0.367	ng		0.00
14) 2,4,6-Tribromophenol	15.688	330	3037	0.317	ng		0.00
15) 2-Fluorobiphenyl	12.810	172	26095	0.358	ng		0.00
27) Fluoranthene-d10	18.980	212	29700	0.345	ng		0.00
31) Terphenyl-d14	19.593	244	19462	0.399	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.183	88	6628	0.479	ng		99
3) n-Nitrosodimethylamine	3.479	42	7119	0.442	ng		99
6) bis(2-Chloroethyl)ether	6.989	93	13027	0.404	ng		100
9) Naphthalene	10.368	128	32687	0.370	ng		99
10) Hexachlorobutadiene	10.667	225	6415	0.364	ng	#	99
12) 2-Methylnaphthalene	11.986	142	20730	0.371	ng		99
16) Acenaphthylene	13.900	152	26801	0.342	ng		100
17) Acenaphthene	14.253	154	19654	0.357	ng		99
18) Fluorene	15.247	166	24565	0.354	ng		100
20) 4,6-Dinitro-2-methylph...	15.322	198	1803	0.322	ng	#	82
21) 4-Bromophenyl-phenylether	16.147	248	7966	0.366	ng		94
22) Hexachlorobenzene	16.247	284	9039	0.376	ng		99
23) Atrazine	16.420	200	5969	0.344	ng		98
24) Pentachlorophenol	16.594	266	3006	0.289	ng		98
25) Phenanthrene	16.979	178	37016	0.371	ng		100
26) Anthracene	17.066	178	31155	0.353	ng		99
28) Fluoranthene	19.007	202	38365	0.348	ng		100
30) Pyrene	19.374	202	38735	0.404	ng		100
32) Benzo(a)anthracene	21.130	228	28298	0.364	ng		99
33) Chrysene	21.184	228	28782	0.373	ng		99
34) Bis(2-ethylhexyl)phtha...	21.095	149	15827	0.322	ng		99
36) Indeno(1,2,3-cd)pyrene	25.472	276	31883	0.370	ng		99
37) Benzo(b)fluoranthene	22.671	252	27618	0.357	ng		98
38) Benzo(k)fluoranthene	22.715	252	28035	0.368	ng		99
39) Benzo(a)pyrene	23.221	252	22480	0.351	ng		97
40) Dibenzo(a,h)anthracene	25.490	278	25600	0.372	ng		99
41) Benzo(g,h,i)perylene	26.124	276	26587	0.361	ng		100

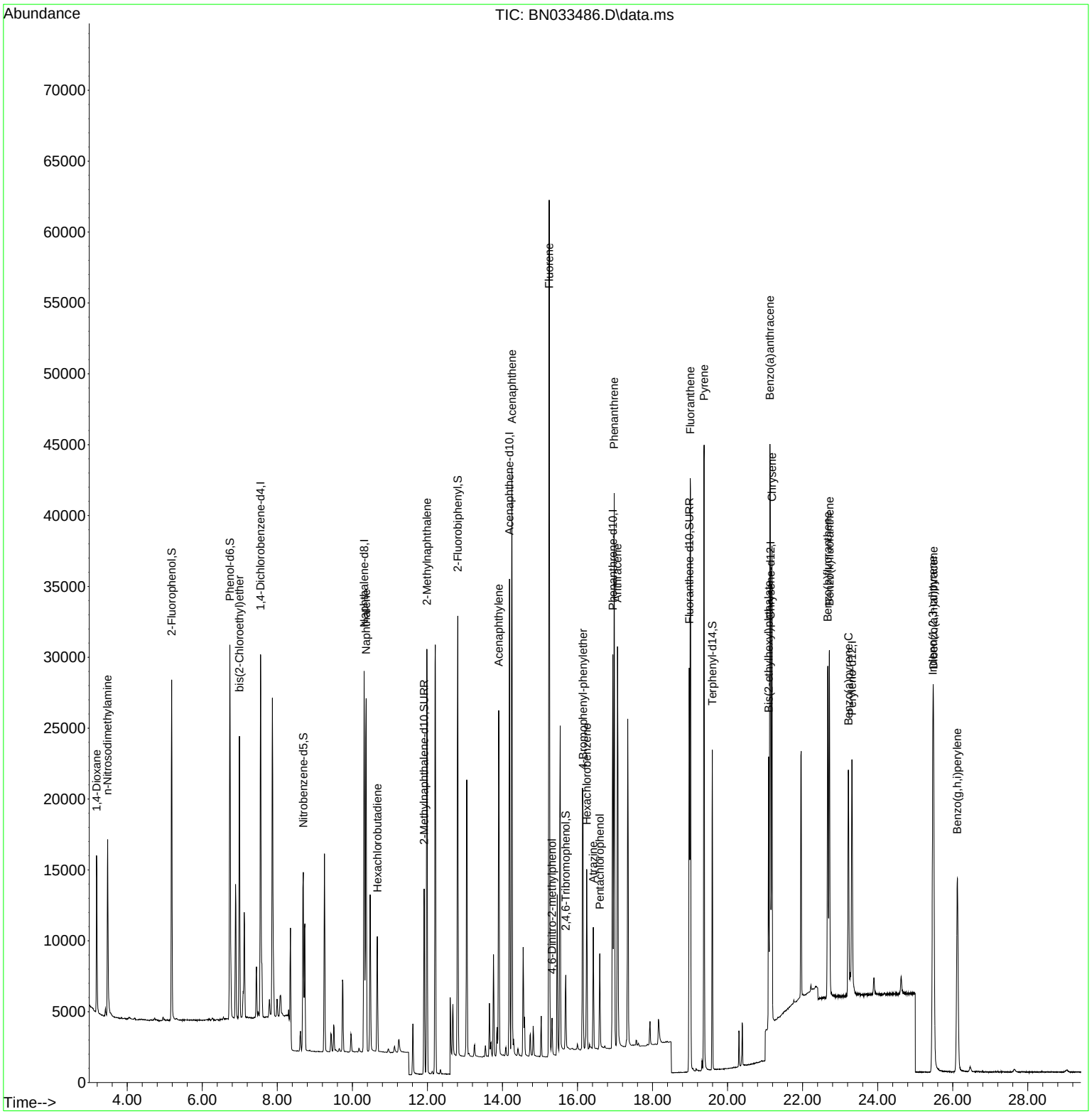
(#) = qualifier out of range (m) = manual integration (+) = signals summed

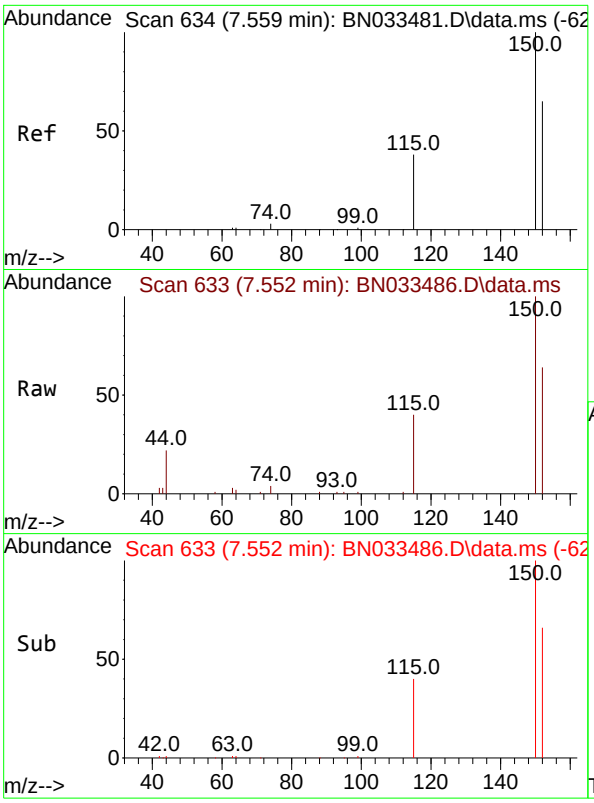
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033486.D
Acq On : 20 Aug 2024 01:56
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Quant Time: Aug 20 02:44:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration



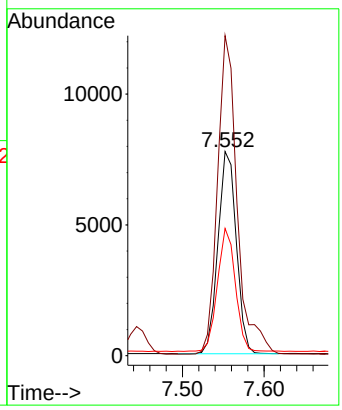


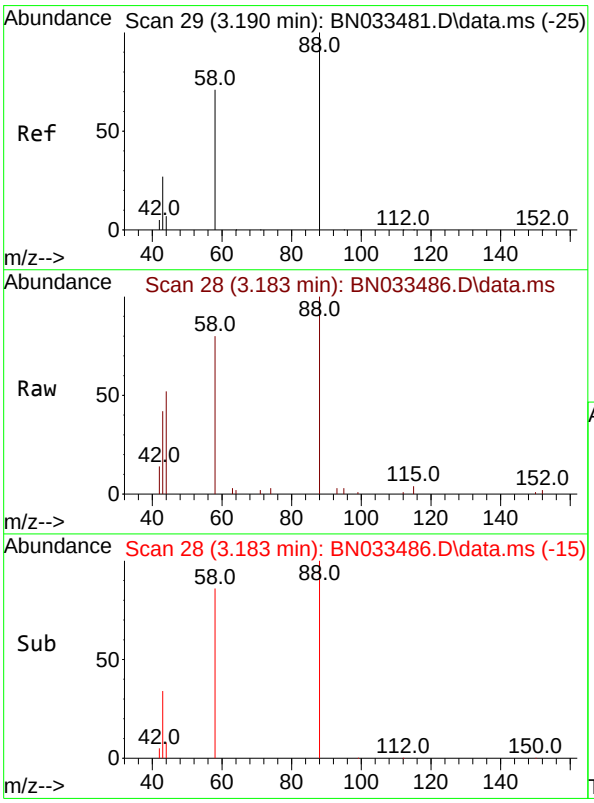
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.552 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:152 Resp: 12026

Ion	Ratio	Lower	Upper
152	100		
150	156.7	122.2	183.2
115	62.3	47.2	70.8

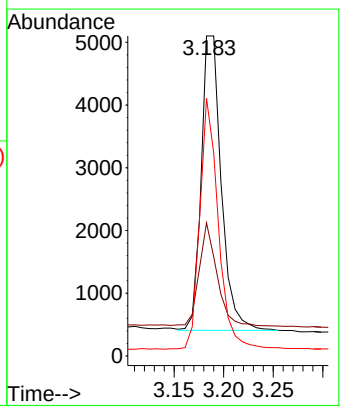


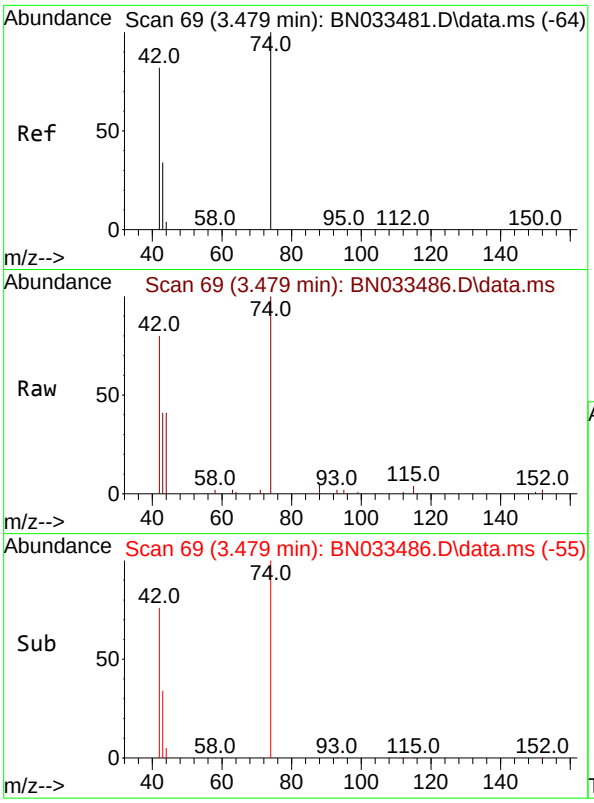


#2
1,4-Dioxane
Concen: 0.479 ng
RT: 3.183 min Scan# 28
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion: 88 Resp: 6628

Ion	Ratio	Lower	Upper
88	100		
43	30.9	25.0	37.4
58	78.5	62.5	93.7



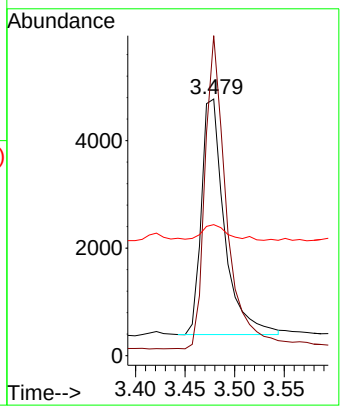


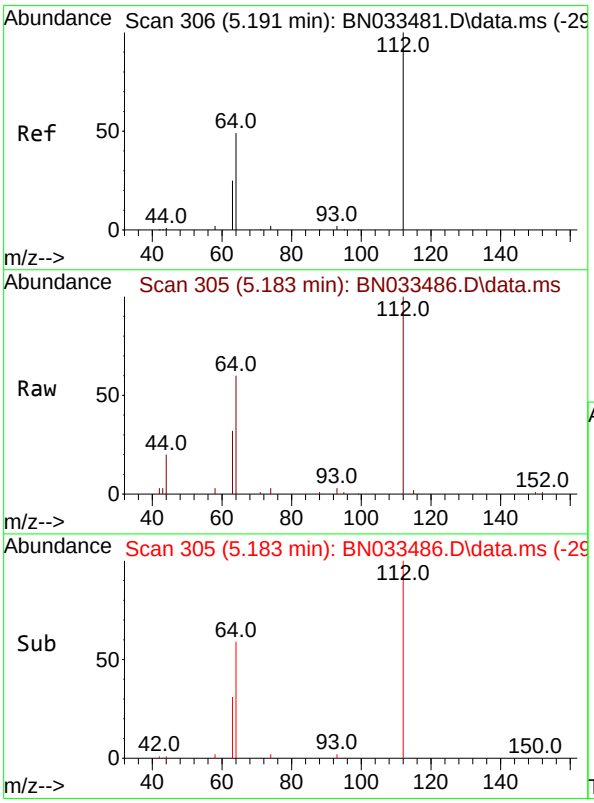
#3
n-Nitrosodimethylamine
Concen: 0.442 ng
RT: 3.479 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion: 42 Resp: 7119

Ion	Ratio	Lower	Upper
42	100		
74	123.8	100.2	150.2
44	7.5	5.3	7.9

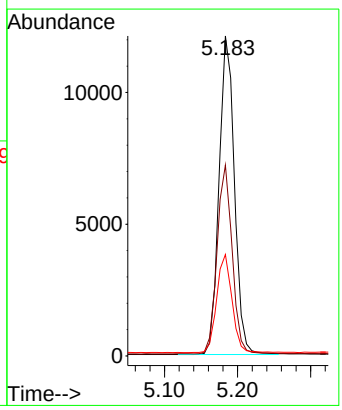


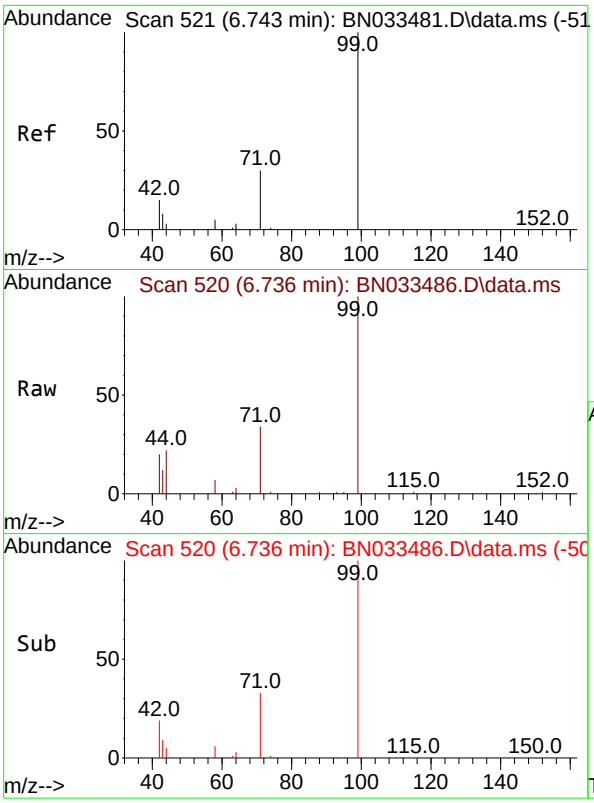


#4
2-Fluorophenol
Concen: 0.462 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:112 Resp: 17640

Ion	Ratio	Lower	Upper
112	100		
64	58.4	47.1	70.7
63	30.6	24.9	37.3



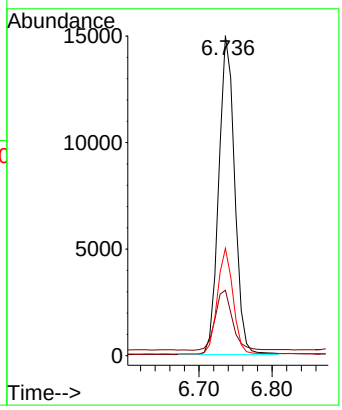


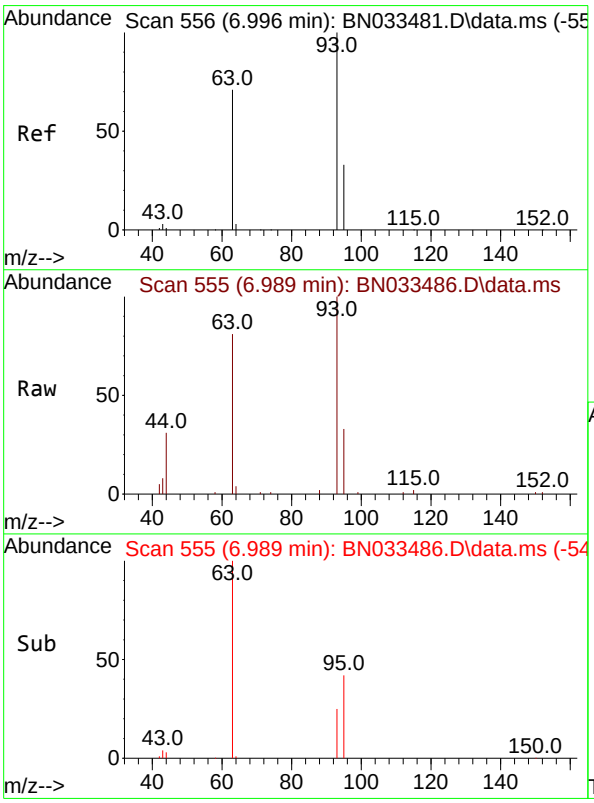
#5
Phenol-d6
Concen: 0.497 ng
RT: 6.736 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion: 99 Resp: 22583

Ion	Ratio	Lower	Upper
99	100		
42	20.4	16.6	24.8
71	32.6	26.2	39.4

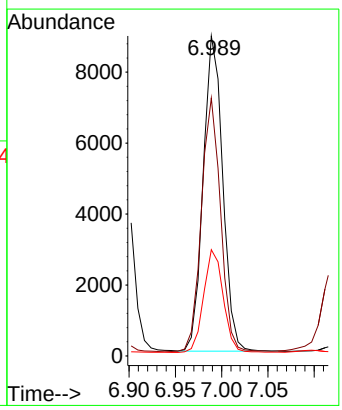


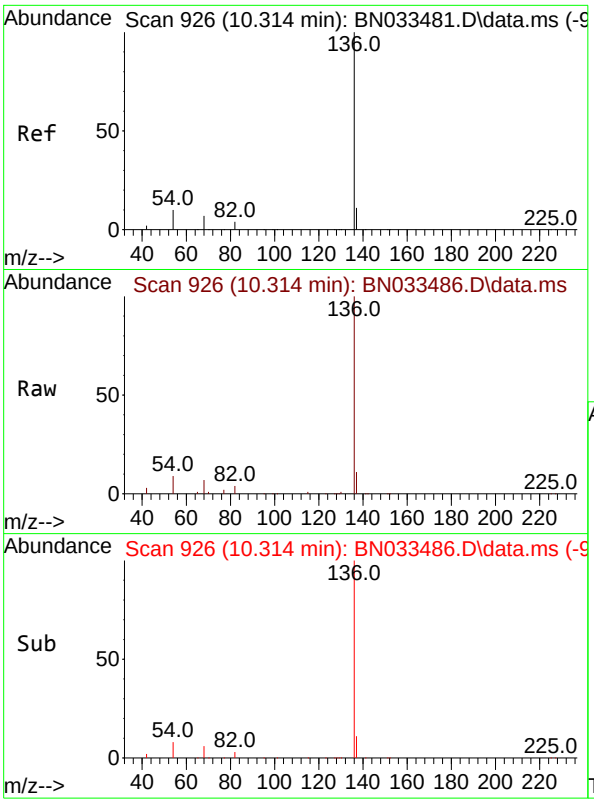


#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion: 93 Resp: 13027

Ion	Ratio	Lower	Upper
93	100		
63	78.8	63.0	94.4
95	32.6	26.0	39.0



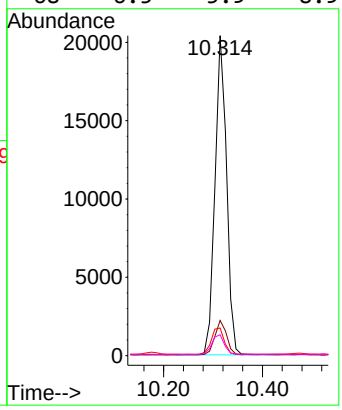


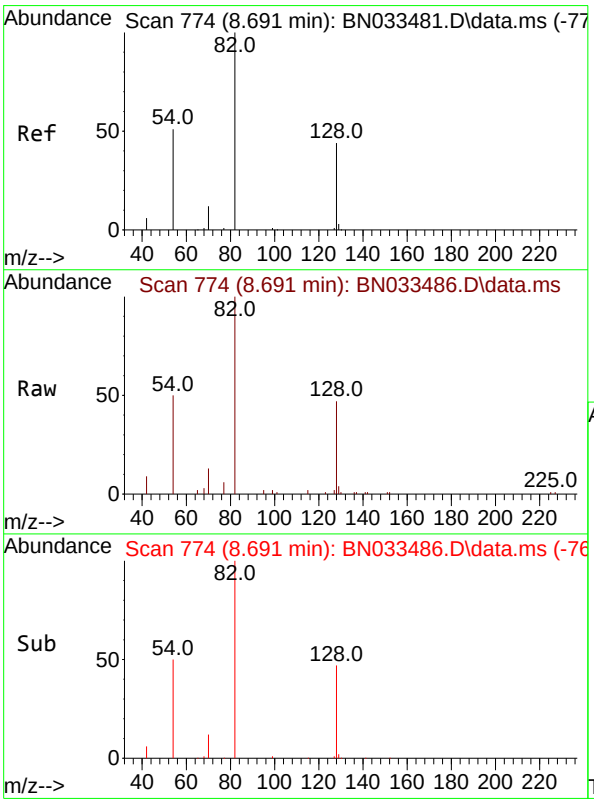
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:136 Resp: 33045

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.6
54	8.6	8.3	12.5
68	6.5	5.9	8.9

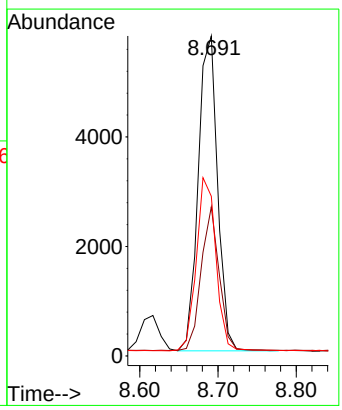


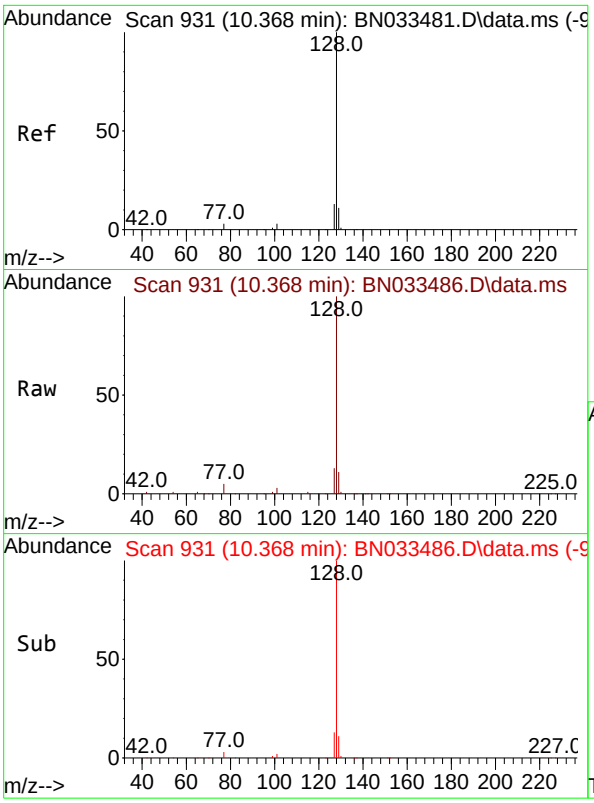


#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion: 82 Resp: 9916

Ion	Ratio	Lower	Upper
82	100		
128	46.6	36.0	54.0
54	49.9	42.0	63.0



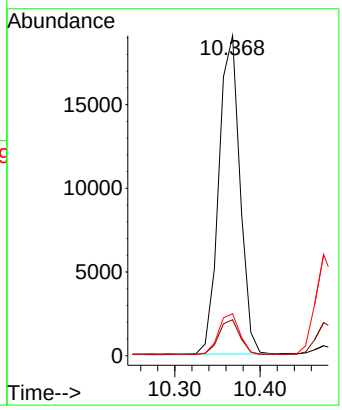


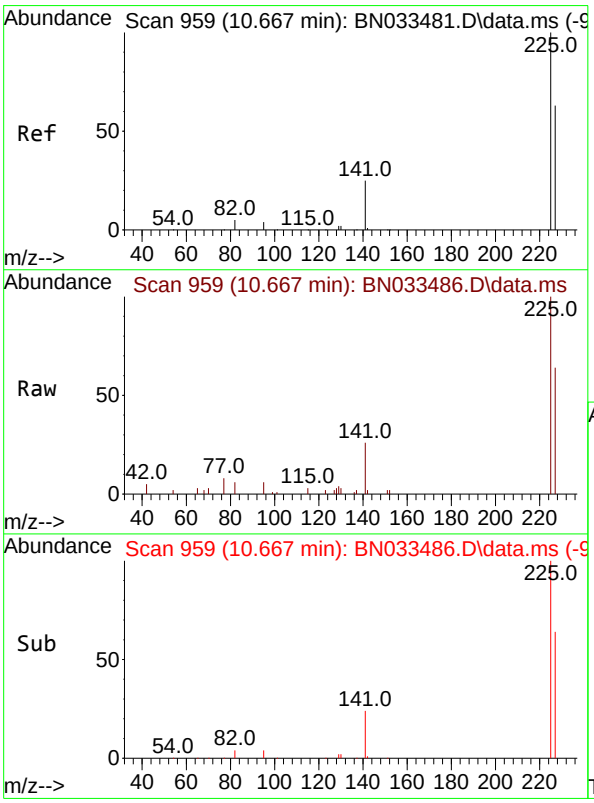
#9
Naphthalene
Concen: 0.370 ng
RT: 10.368 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:128 Resp: 32687

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.1	13.7
127	13.1	10.7	16.1

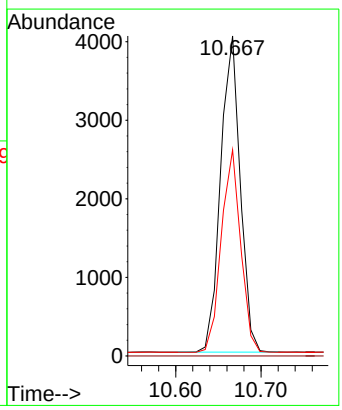


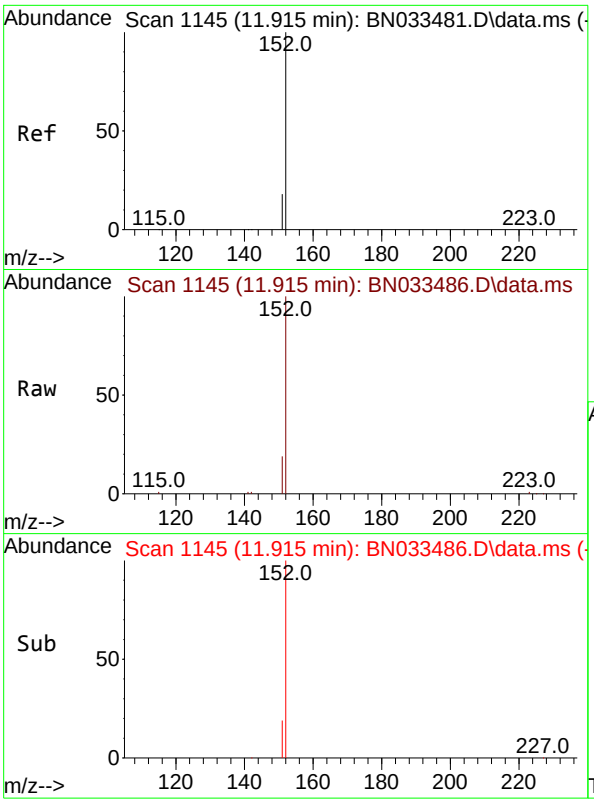


#10
Hexachlorobutadiene
Concen: 0.364 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:225 Resp: 6415

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	51.2	76.8



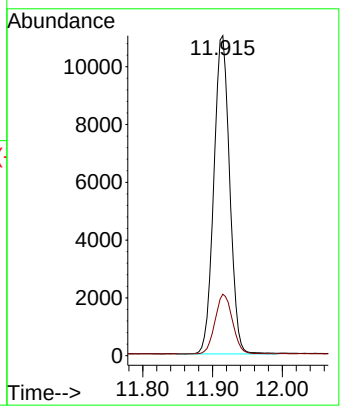


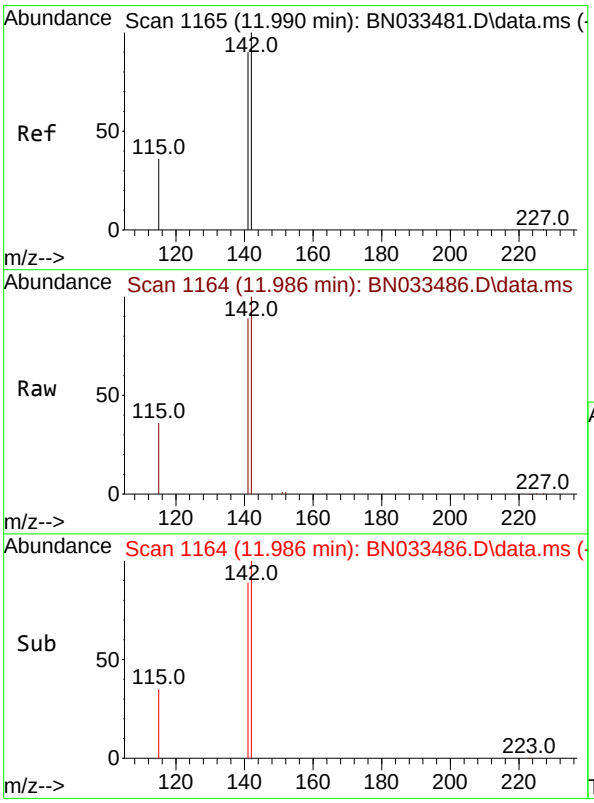
#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.915 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:152 Resp: 17348

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

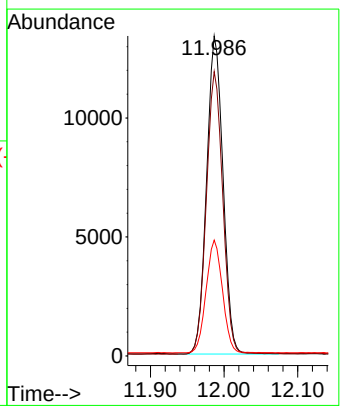


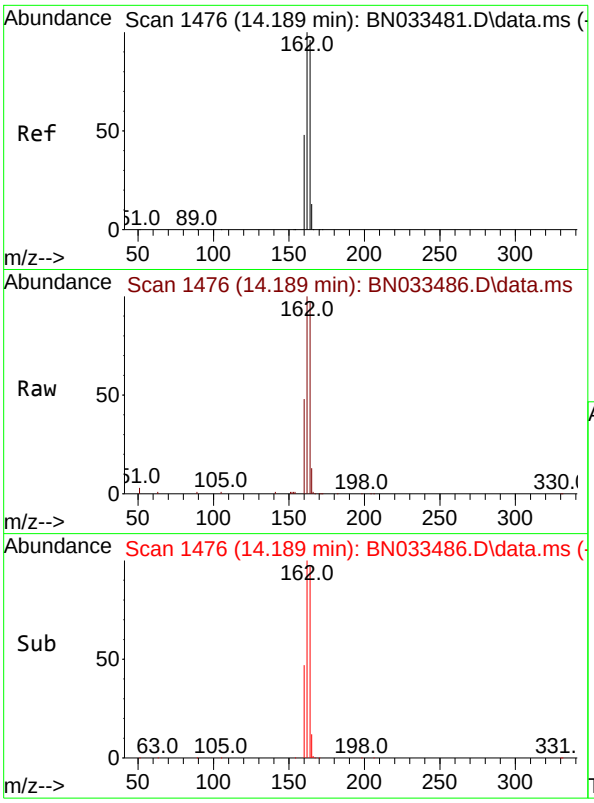


#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.986 min Scan# 1164
Delta R.T. -0.004 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:142 Resp: 20730

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.7	107.5
115	36.2	29.4	44.2



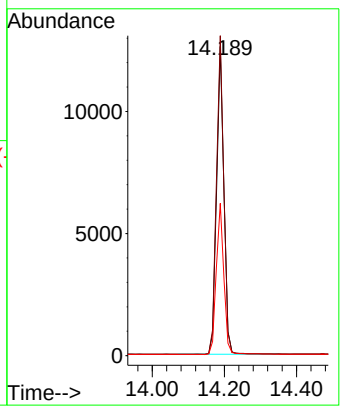


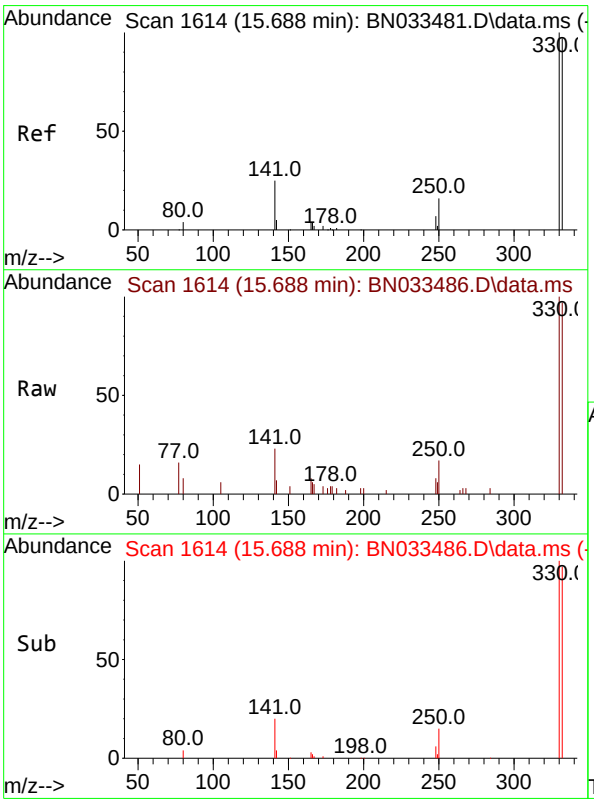
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:164 Resp: 17848

Ion	Ratio	Lower	Upper
164	100		
162	103.5	83.5	125.3
160	49.3	40.2	60.4

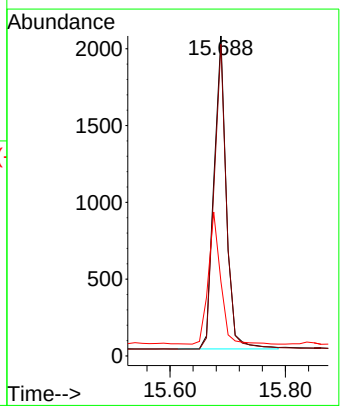


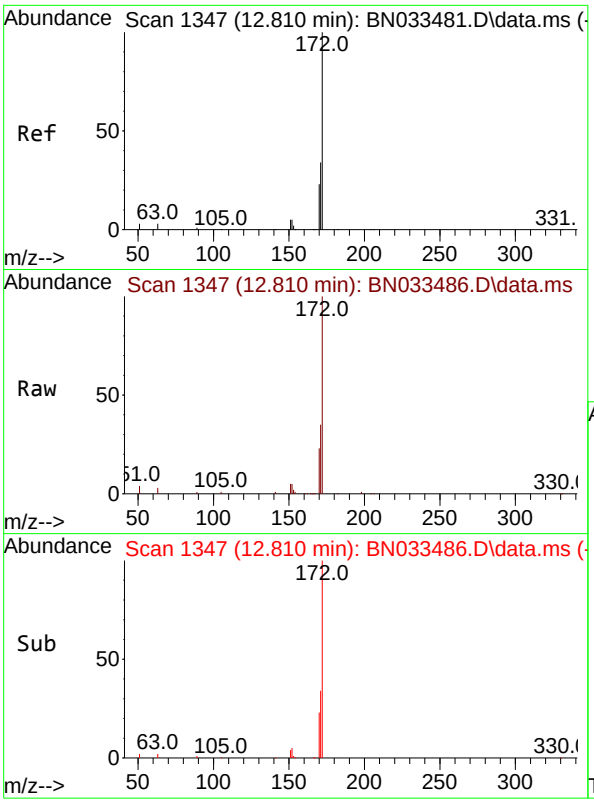


#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:330 Resp: 3037

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.5	116.3
141	41.8	33.9	50.9



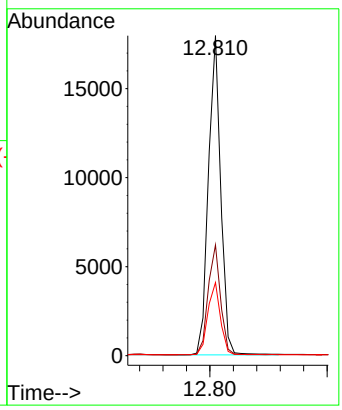


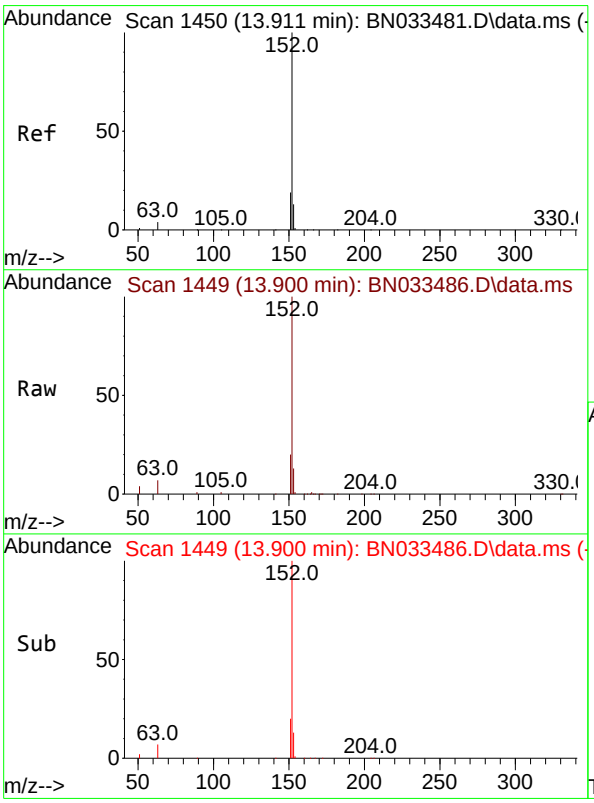
#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:172 Resp: 26095

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.7	41.5
170	22.8	18.3	27.5

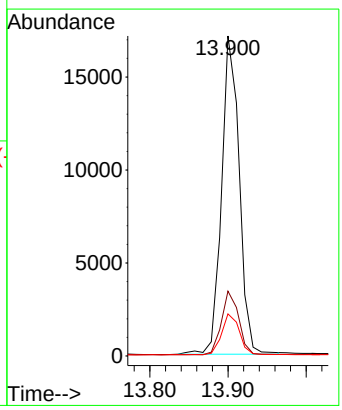


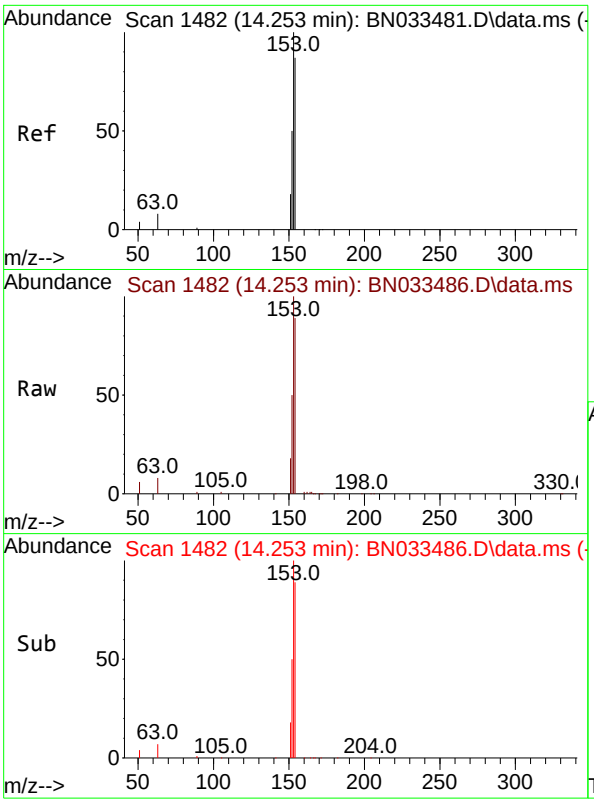


#16
Acenaphthylene
Concen: 0.342 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:152 Resp: 26801

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.7	23.5
153	12.8	10.3	15.5



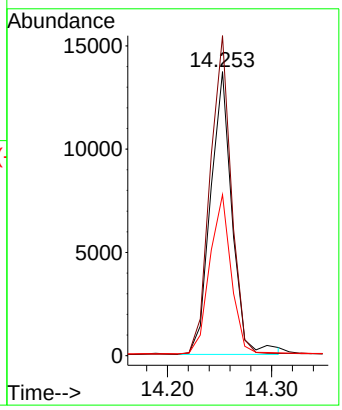


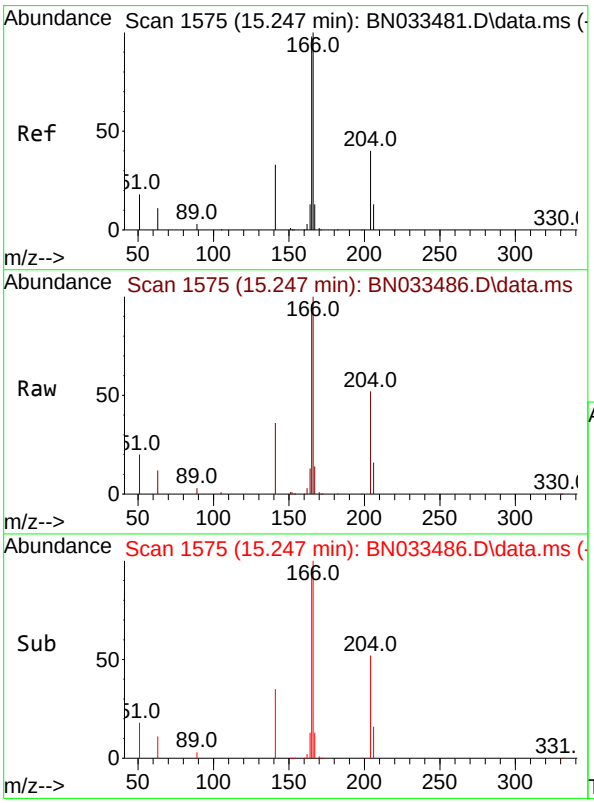
#17
Acenaphthene
Concen: 0.357 ng
RT: 14.253 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:154 Resp: 19654

Ion	Ratio	Lower	Upper
154	100		
153	110.4	89.0	133.6
152	55.9	45.2	67.8

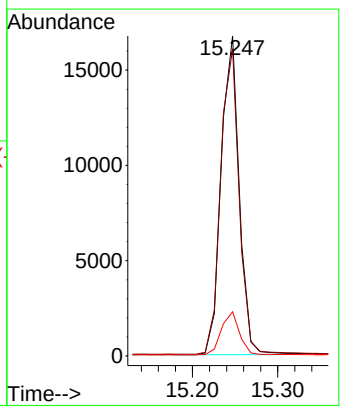


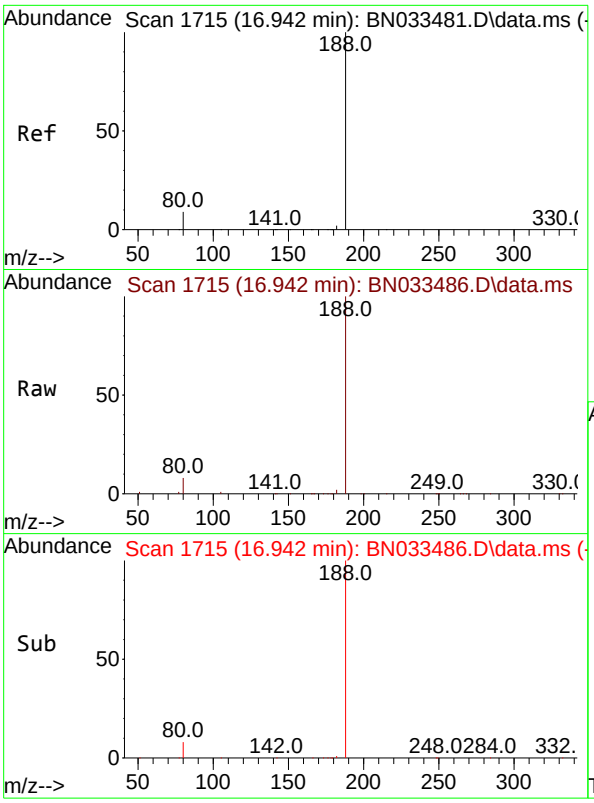


#18
Fluorene
Concen: 0.354 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:166 Resp: 24565

Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.2	117.4
167	13.5	10.6	16.0



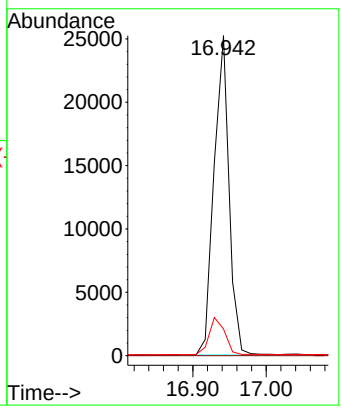


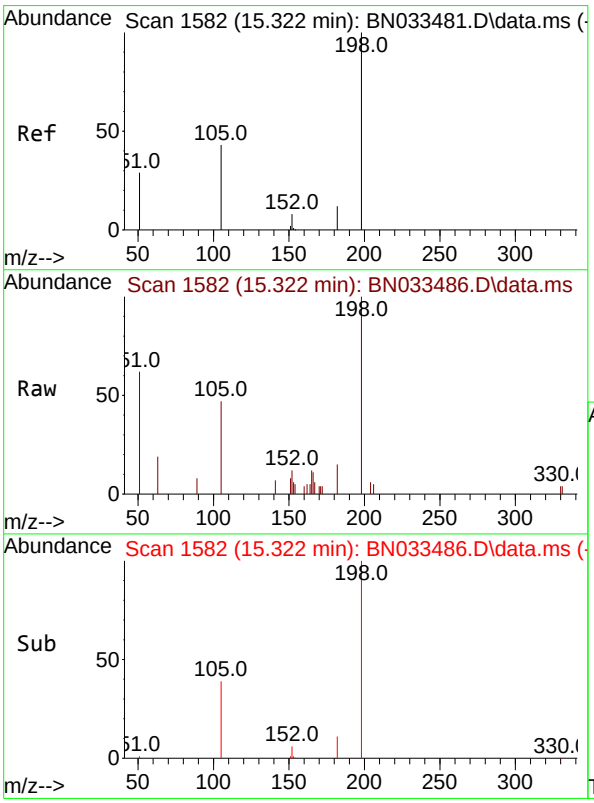
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:188 Resp: 35827

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	7.8	11.8

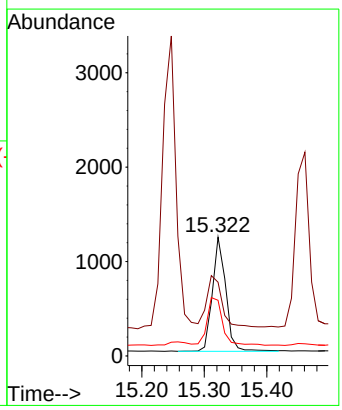


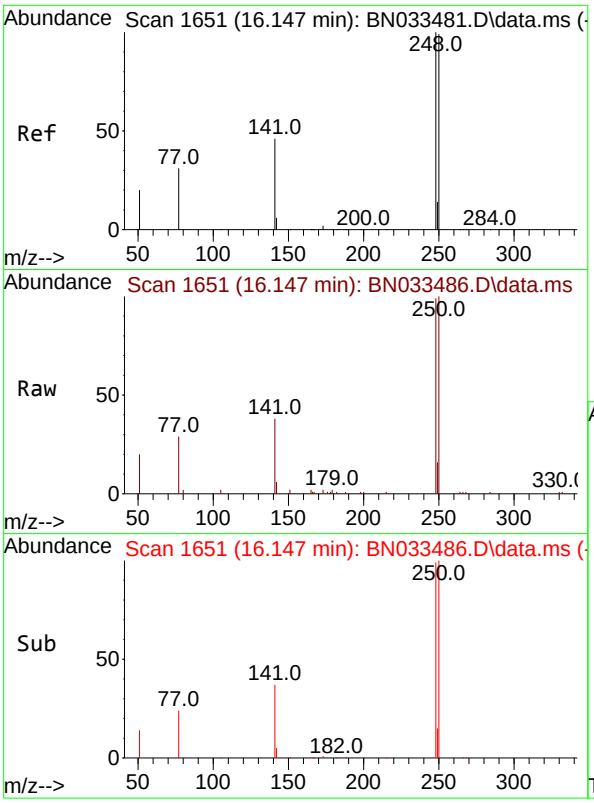


#20
4,6-Dinitro-2-methylphenol
Concen: 0.322 ng
RT: 15.322 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:198 Resp: 1803

Ion	Ratio	Lower	Upper
198	100		
51	62.1	65.1	97.7#
105	46.9	44.8	67.2



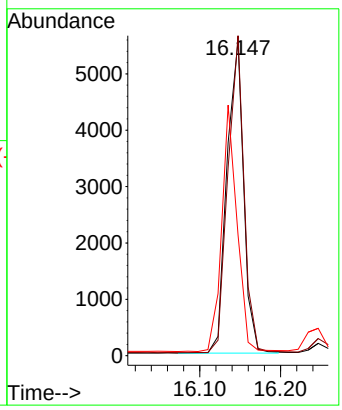


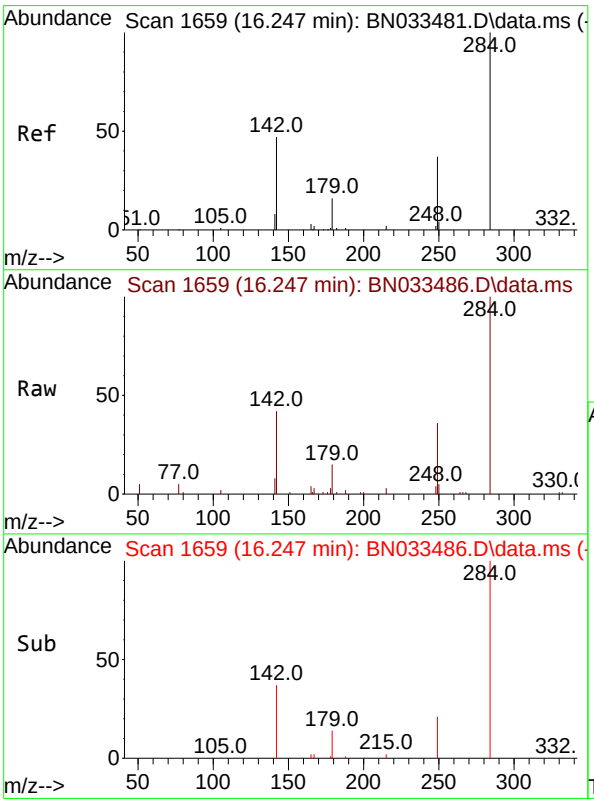
#21
4-Bromophenyl-phenylether
Concen: 0.366 ng
RT: 16.147 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:248 Resp: 7966

Ion	Ratio	Lower	Upper
248	100		
250	101.5	79.2	118.8
141	38.3	37.9	56.9

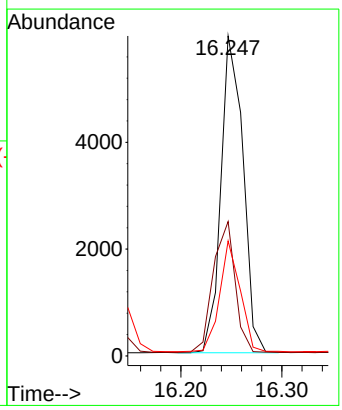


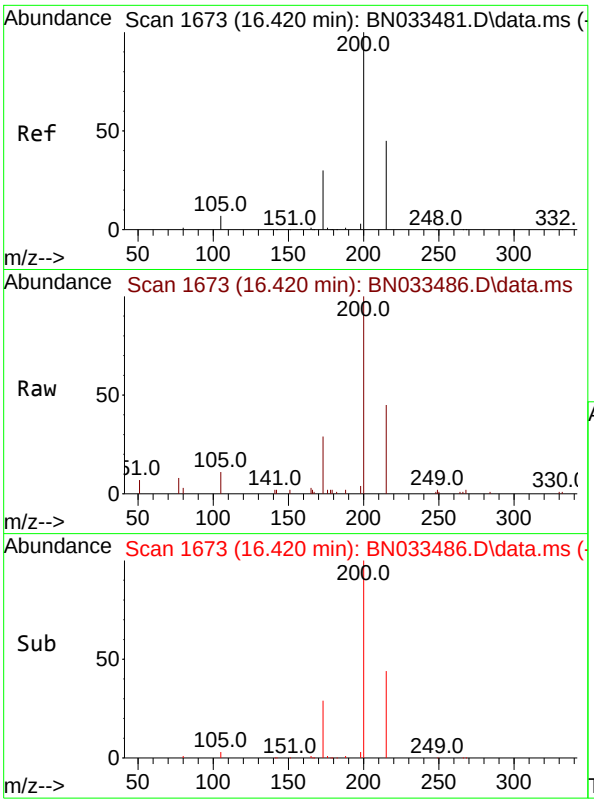


#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:284 Resp: 9039

Ion	Ratio	Lower	Upper
284	100		
142	40.7	31.8	47.6
249	32.2	26.0	39.0



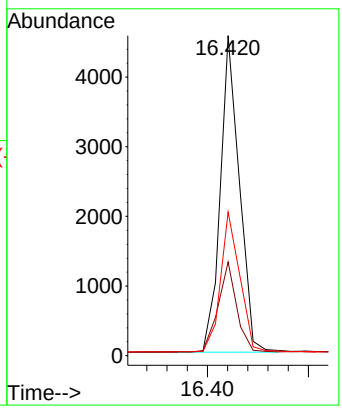


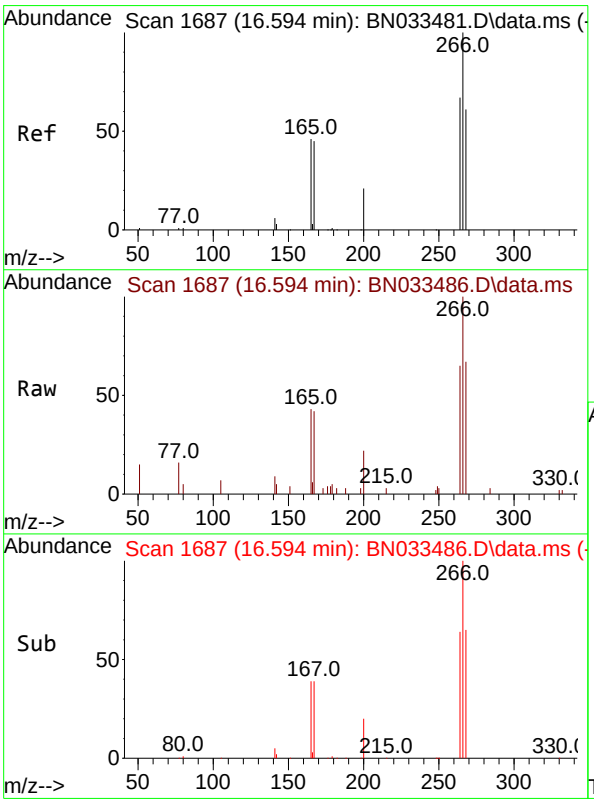
#23
Atrazine
Concen: 0.344 ng
RT: 16.420 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:200 Resp: 5969

Ion	Ratio	Lower	Upper
200	100		
173	29.3	25.3	37.9
215	44.9	36.6	54.8

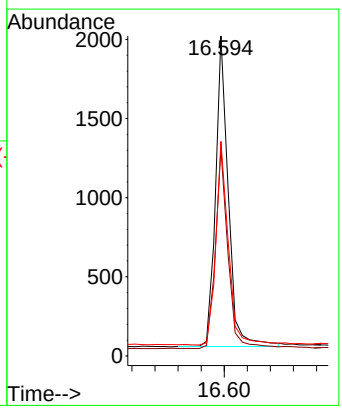


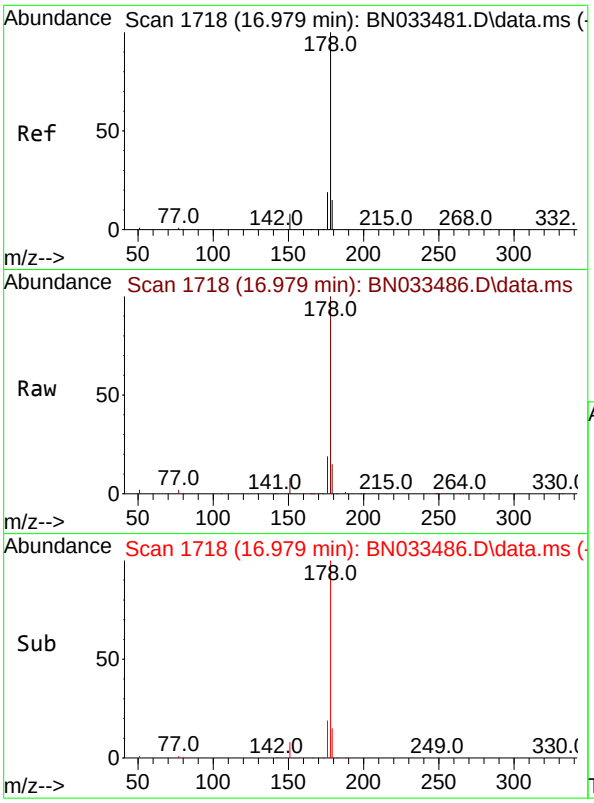


#24
Pentachlorophenol
Concen: 0.289 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:266 Resp: 3006

Ion	Ratio	Lower	Upper
266	100		
264	63.2	51.9	77.9
268	64.5	51.0	76.4



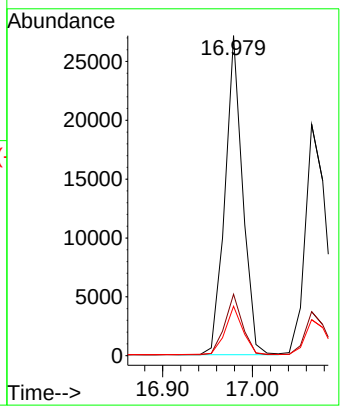


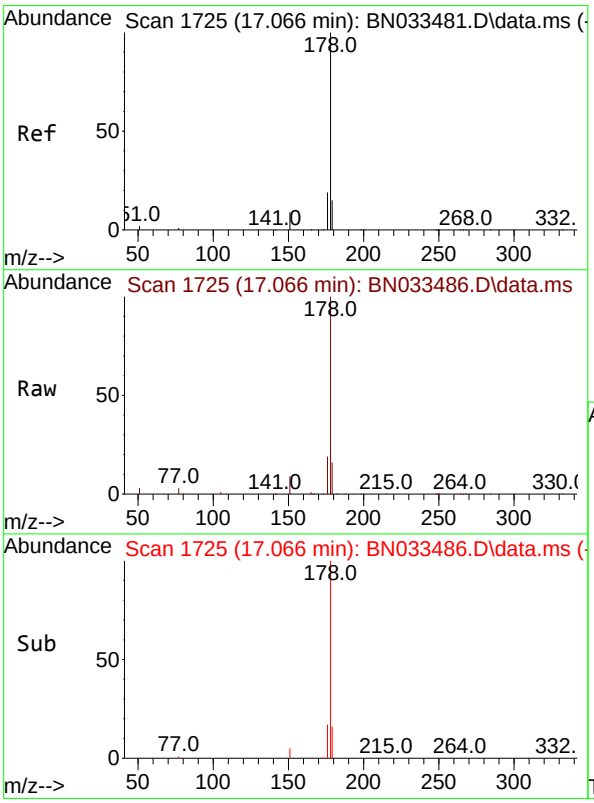
#25
Phenanthrene
Concen: 0.371 ng
RT: 16.979 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:178 Resp: 37016

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.2	12.3	18.5

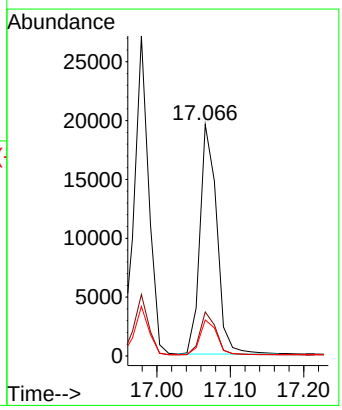


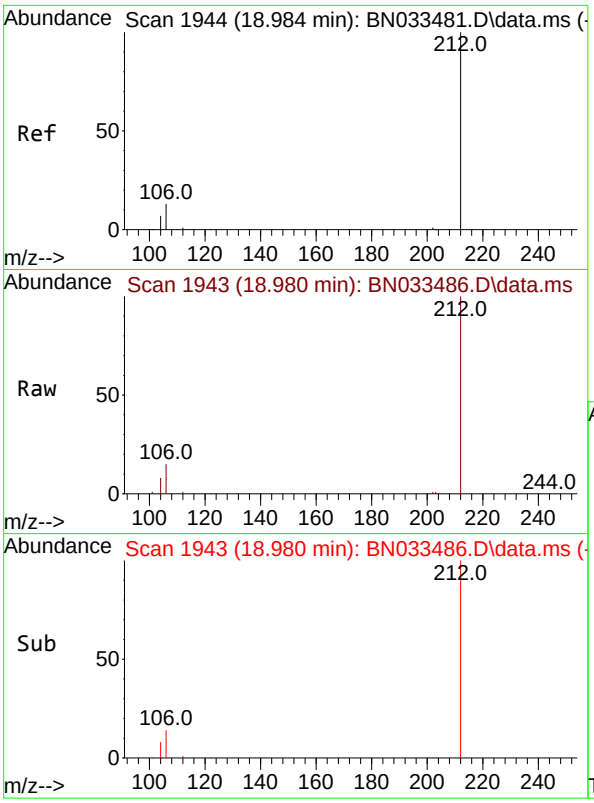


#26
Anthracene
Concen: 0.353 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:178 Resp: 31155

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.6
179	15.2	12.4	18.6



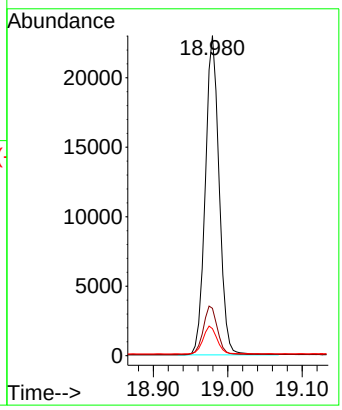


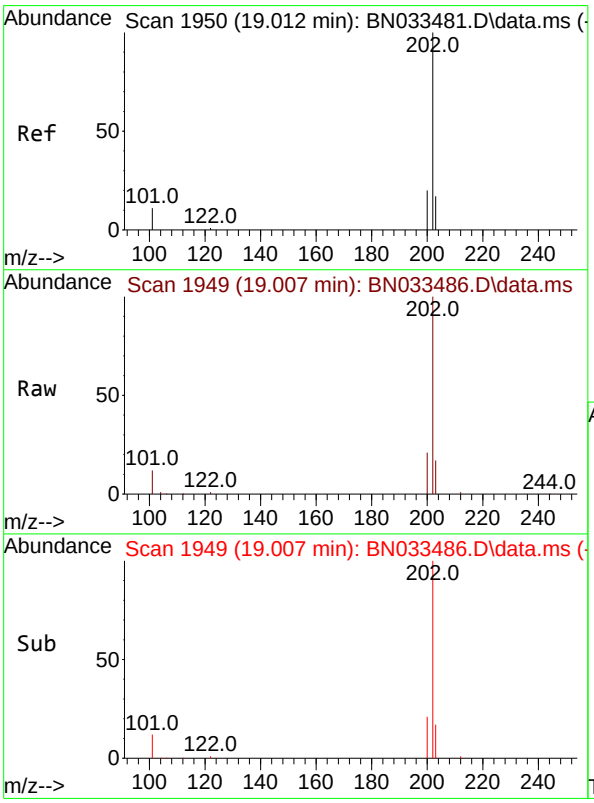
#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 18.980 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:212 Resp: 29700

Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.3	18.5
104	8.8	7.0	10.4

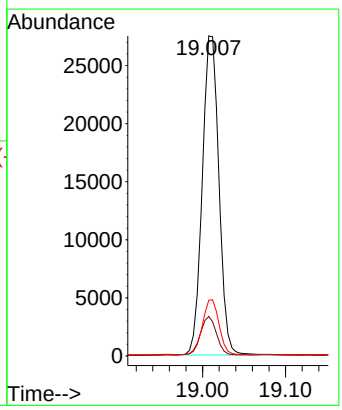


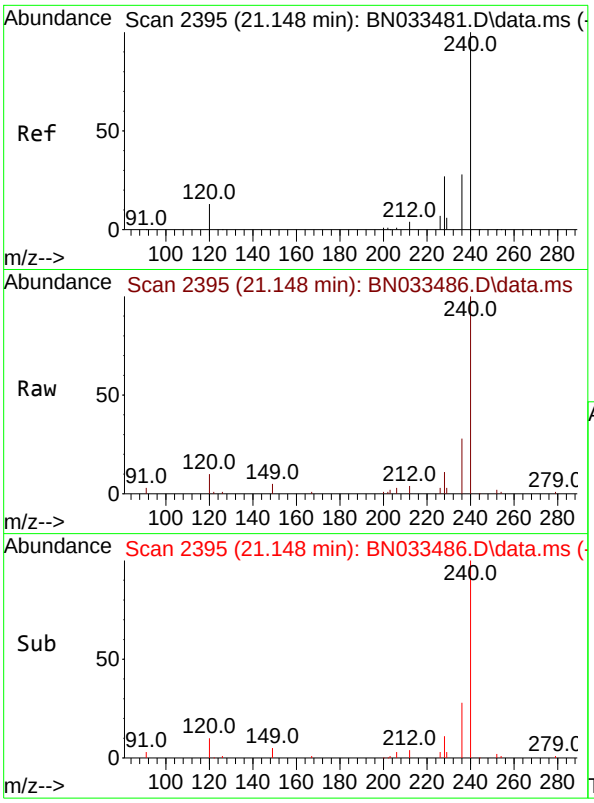


#28
Fluoranthene
Concen: 0.348 ng
RT: 19.007 min Scan# 1949
Delta R.T. -0.005 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:202 Resp: 38365

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.5	14.3
203	17.1	13.8	20.6



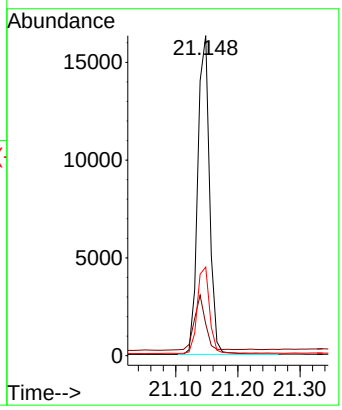


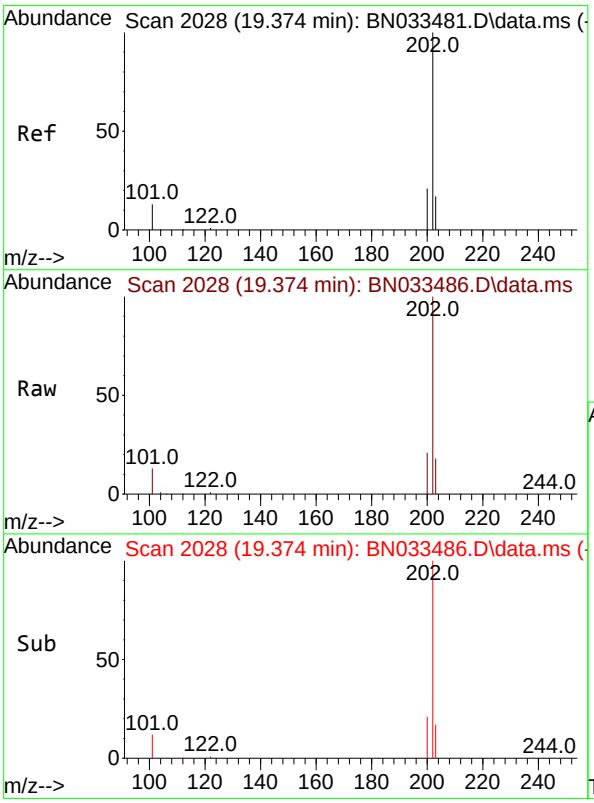
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:240 Resp: 21483

Ion	Ratio	Lower	Upper
240	100		
120	9.9	12.4	18.6#
236	27.7	23.0	34.6

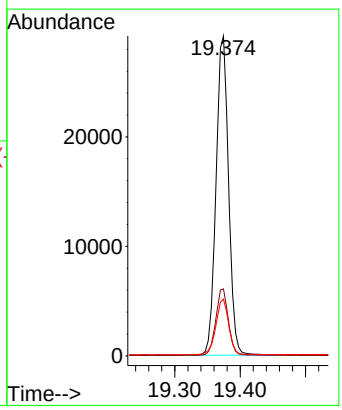


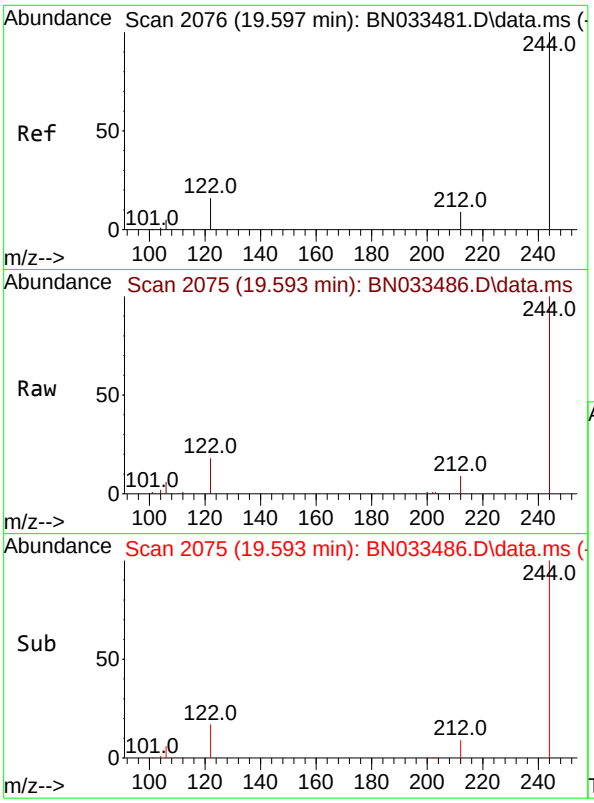


#30
Pyrene
Concen: 0.404 ng
RT: 19.374 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:202 Resp: 38735

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.6	24.8
203	18.0	14.2	21.4



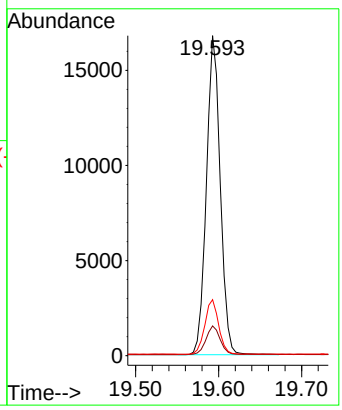


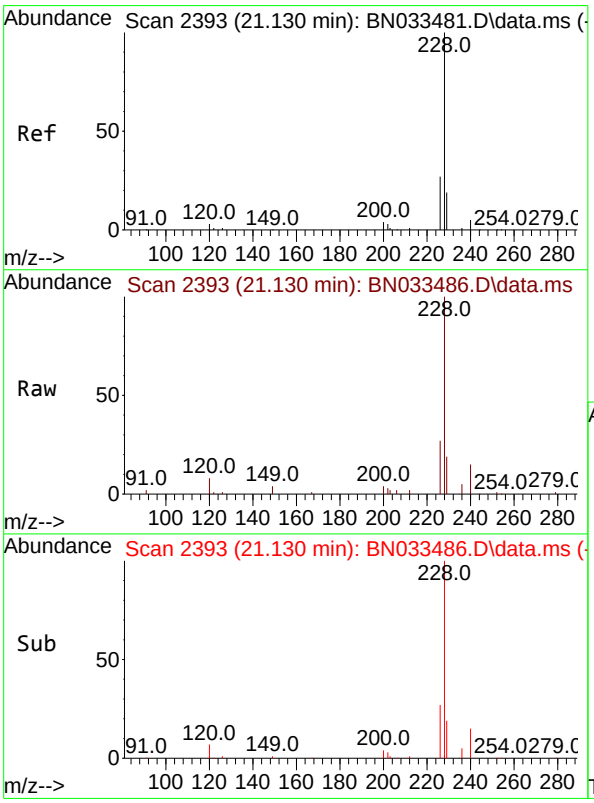
#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.593 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:244 Resp: 19462

Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.8	11.6
122	17.5	13.3	19.9

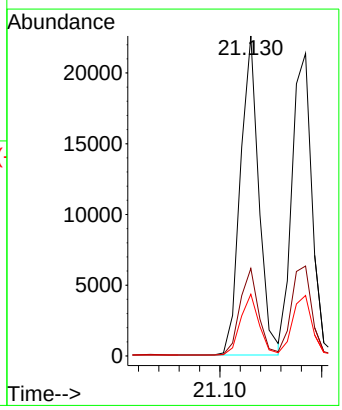


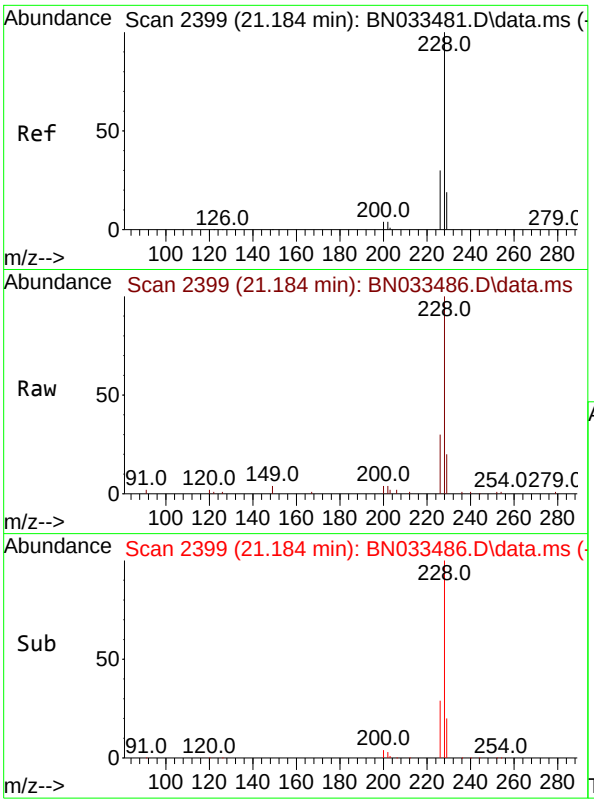


#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:228 Resp: 28298

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.8	32.6
229	19.3	15.8	23.6



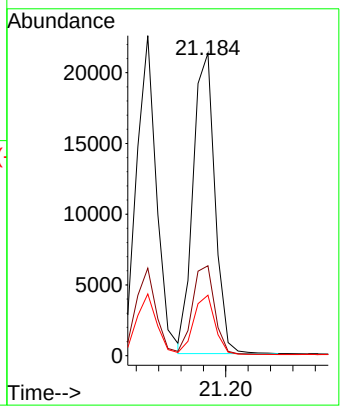


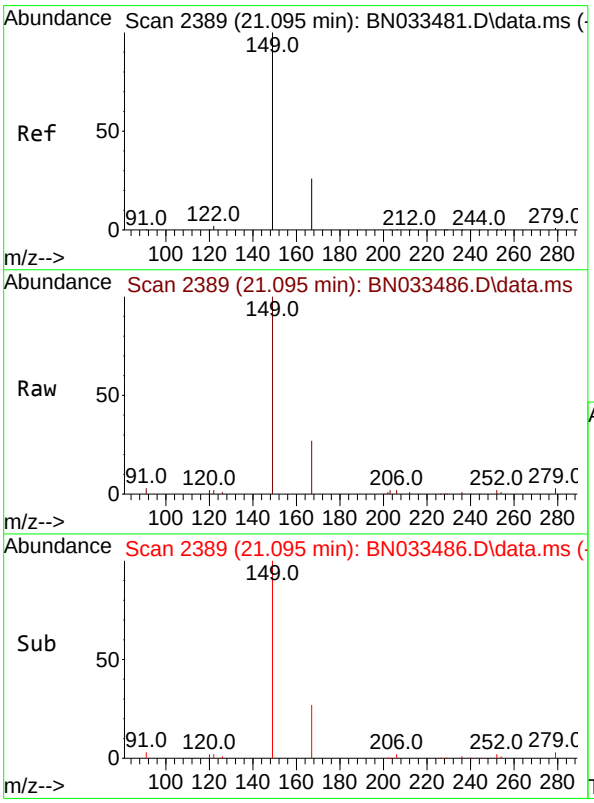
#33
Chrysene
Concen: 0.373 ng
RT: 21.184 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:228 Resp: 28782

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.8	35.8
229	20.0	15.6	23.4

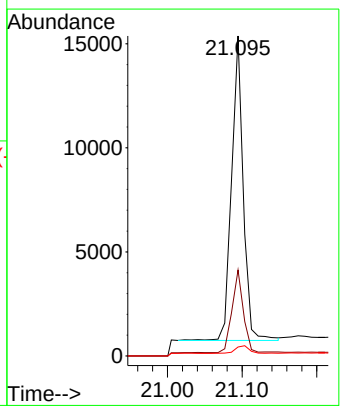


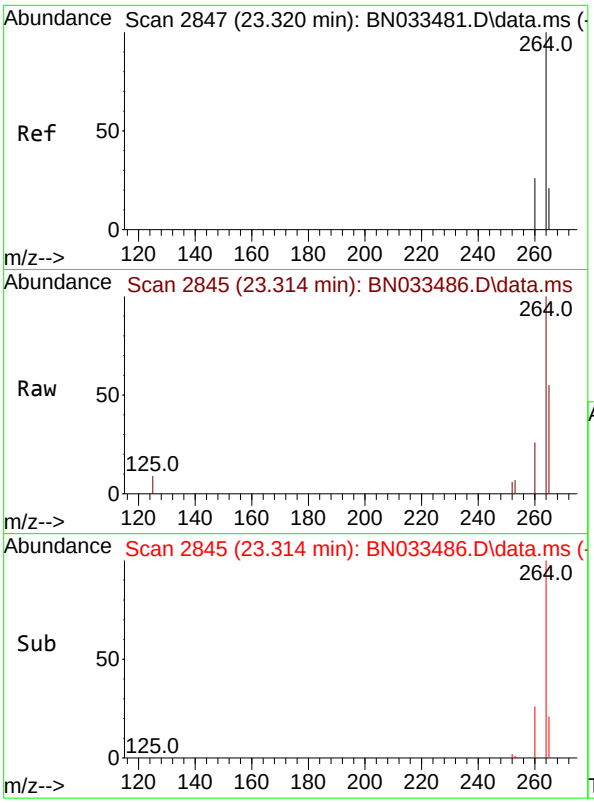


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.322 ng
RT: 21.095 min Scan# 2389
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:149 Resp: 15827

Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.5	32.3
279	2.8	2.2	3.2



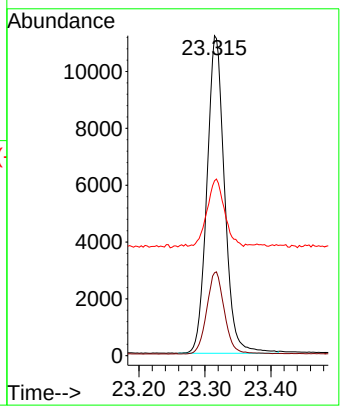


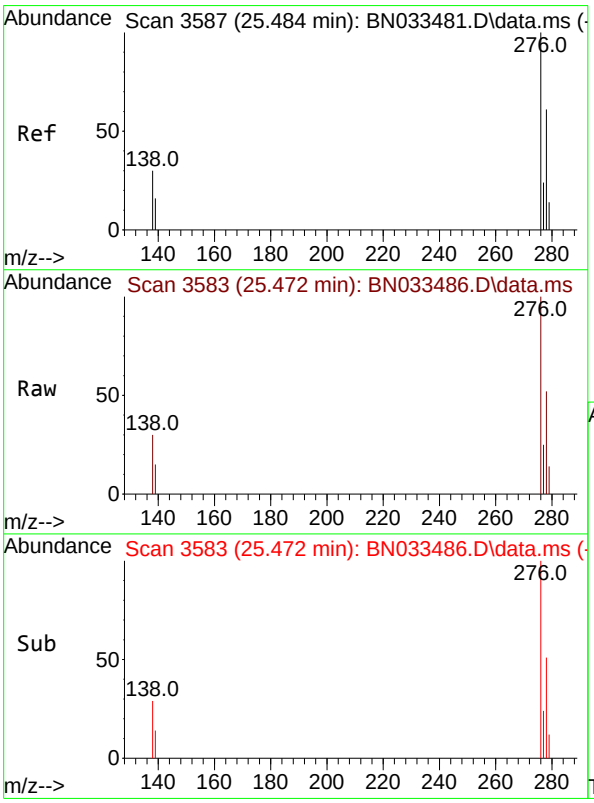
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.314 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:264 Resp: 20739

Ion	Ratio	Lower	Upper
264	100		
260	25.9	20.8	31.2
265	54.7	52.2	78.2

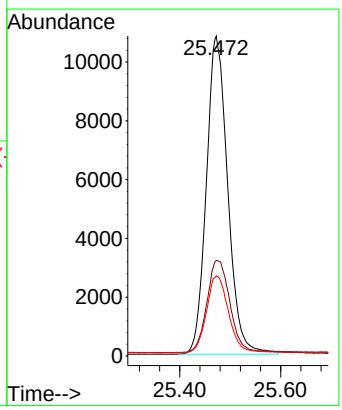


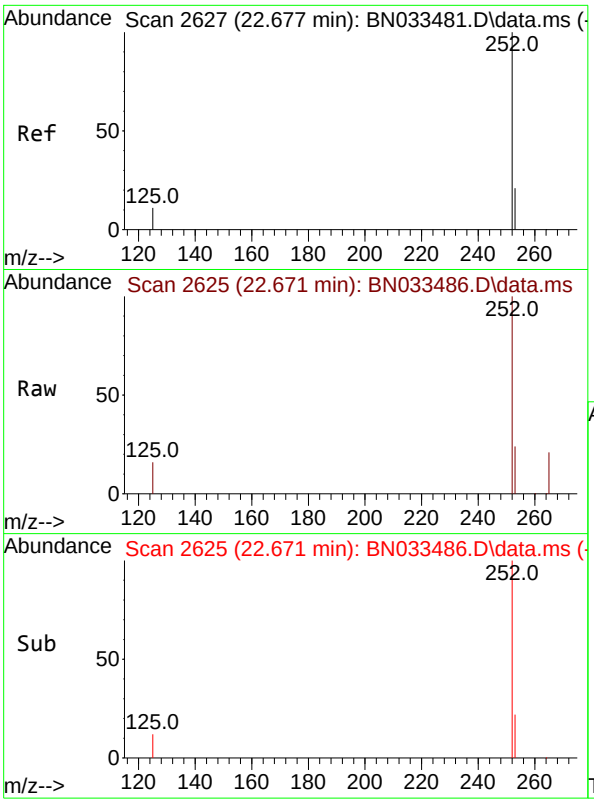


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.370 ng
RT: 25.472 min Scan# 3583
Delta R.T. -0.012 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:276 Resp: 31883

Ion	Ratio	Lower	Upper
276	100		
138	31.1	24.4	36.6
277	24.9	19.8	29.6



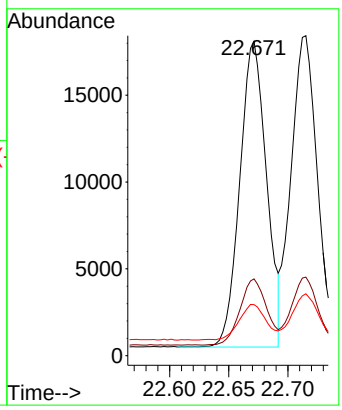


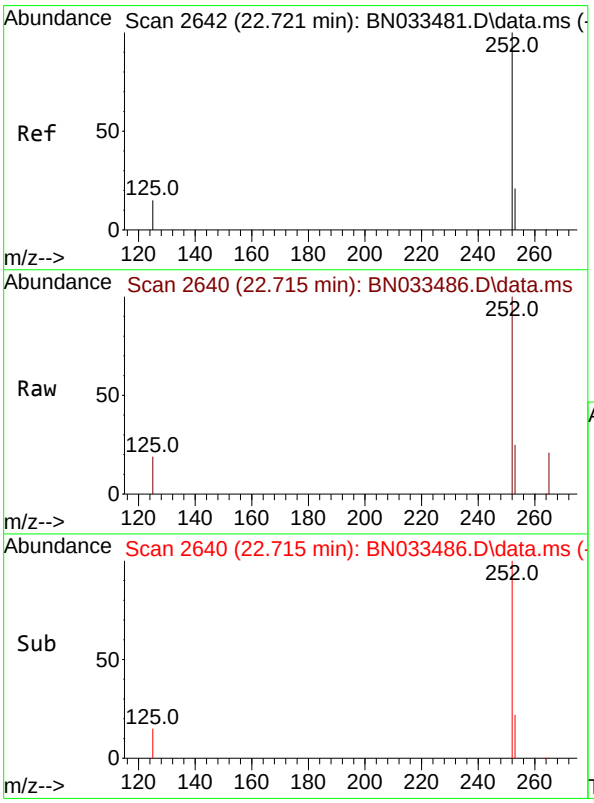
#37
Benzo(b)fluoranthene
Concen: 0.357 ng
RT: 22.671 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:252 Resp: 27618

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.8	29.8
125	16.2	13.9	20.9

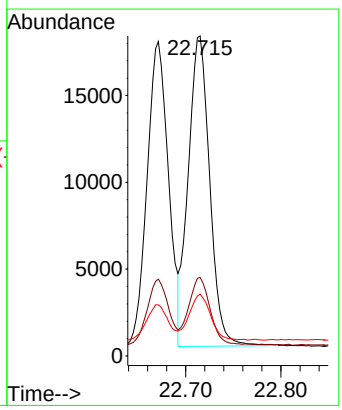


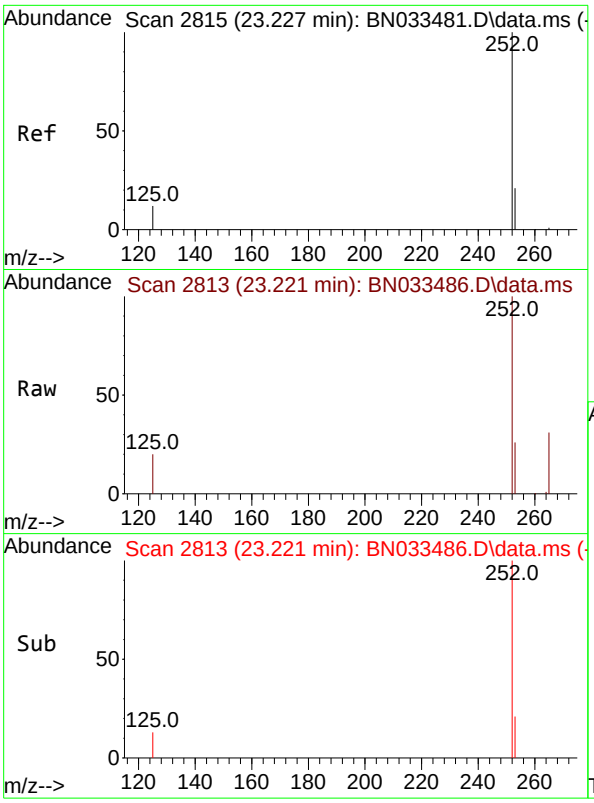


#38
Benzo(k)fluoranthene
Concen: 0.368 ng
RT: 22.715 min Scan# 2640
Delta R.T. -0.006 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:252 Resp: 28035

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.8	29.8
125	19.3	15.8	23.8



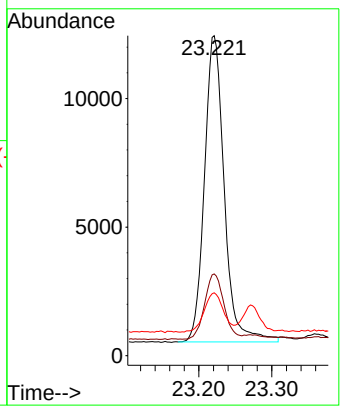


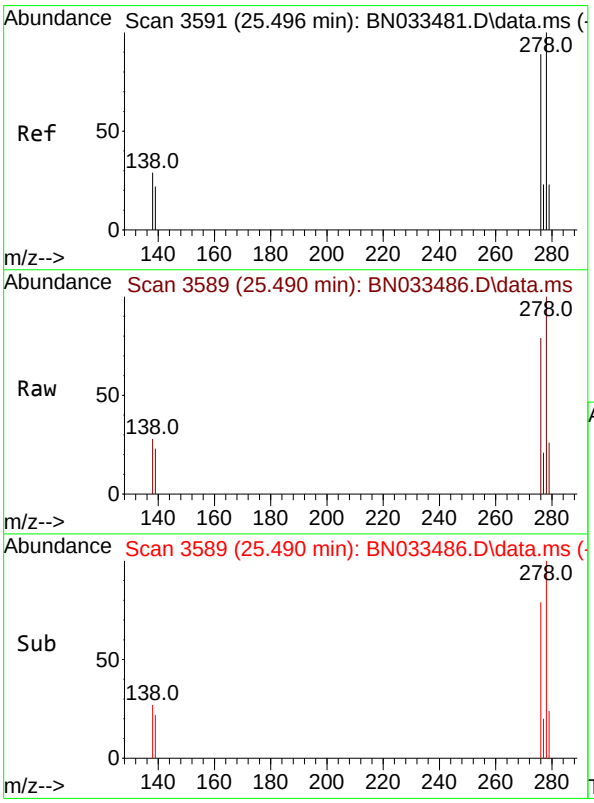
#39
Benzo(a)pyrene
Concen: 0.351 ng
RT: 23.221 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:252 Resp: 22480

Ion	Ratio	Lower	Upper
252	100		
253	25.5	21.5	32.3
125	19.6	17.0	25.4

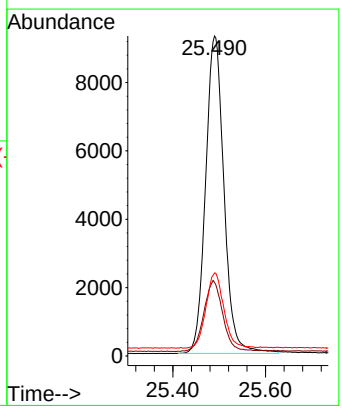


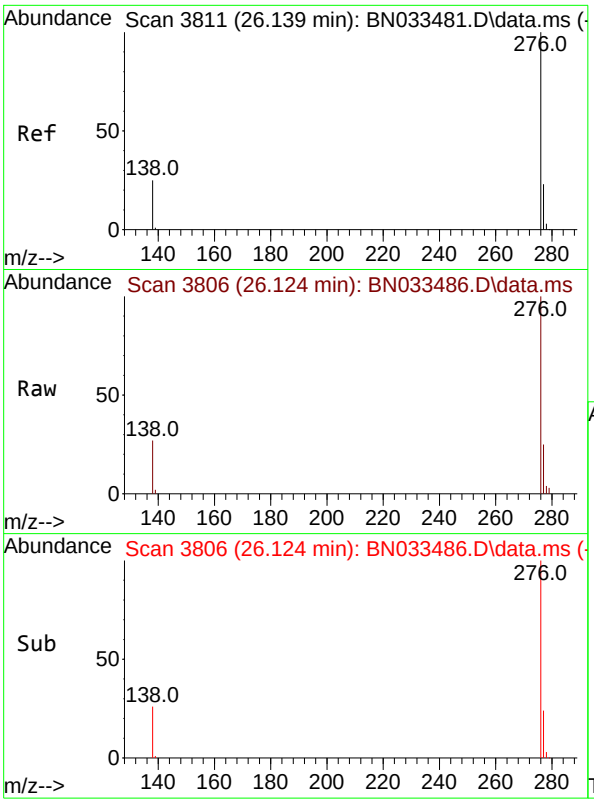


#40
Dibenzo(a,h)anthracene
Concen: 0.372 ng
RT: 25.490 min Scan# 3589
Delta R.T. -0.006 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:278 Resp: 25600

Ion	Ratio	Lower	Upper
278	100		
139	23.0	19.1	28.7
279	26.0	21.0	31.4



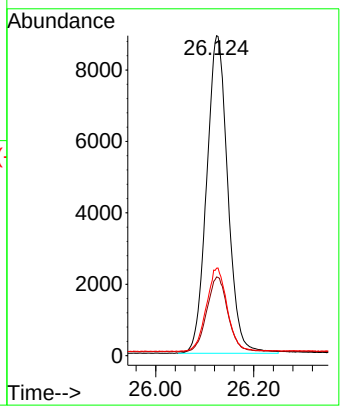


#41
Benzo(g,h,i)perylene
Concen: 0.361 ng
RT: 26.124 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Tgt Ion:276 Resp: 26587

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.7	29.5
138	27.4	21.8	32.6



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033486.D
Acq On : 20 Aug 2024 01:56
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Quant Time: Aug 20 02:44:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2		1,4-Dioxane	0.460	0.551	-19.8	156#	0.00
3		n-Nitrosodimethylamine	0.535	0.592	-10.7	121	0.00
4	S	2-Fluorophenol	1.271	1.467	-15.4	108	0.00
5	S	Phenol-d6	1.512	1.878	-24.2	129	0.00
6		bis(2-Chloroethyl)ether	1.072	1.083	-1.0	134	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	135	0.00
8	S	Nitrobenzene-d5	0.332	0.300	9.6	134	0.00
9		Naphthalene	1.069	0.989	7.5	142	0.00
10		Hexachlorobutadiene	0.213	0.194	8.9	137	0.00
11	SURR	2-Methylnaphthalene-d10	0.572	0.525	8.2	144	0.00
12		2-Methylnaphthalene	0.677	0.627	7.4	145	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	149	0.00
14	S	2,4,6-Tribromophenol	0.215	0.170	20.9	137	0.00
15	S	2-Fluorobiphenyl	1.634	1.462	10.5	146	0.00
16		Acenaphthylene	1.754	1.502	14.4	145	-0.01
17		Acenaphthene	1.234	1.101	10.8	148	0.00
18		Fluorene	1.555	1.376	11.5	148	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	146	0.00
20		4,6-Dinitro-2-methylphenol	0.062	0.050	19.4	144	0.00
21		4-Bromophenyl-phenylether	0.243	0.222	8.6	147	0.00
22		Hexachlorobenzene	0.268	0.252	6.0	148	0.00
23		Atrazine	0.194	0.167	13.9	140	0.00
24		Pentachlorophenol	0.116	0.084	27.6#	127	0.00
25		Phenanthrene	1.113	1.033	7.2	146	0.00
26		Anthracene	0.985	0.870	11.7	145	0.00
27	SURR	Fluoranthene-d10	0.961	0.829	13.7	139	0.00
28		Fluoranthene	1.230	1.071	12.9	142	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	133	0.00
30		Pyrene	1.785	1.803	-1.0	141	0.00
31	S	Terphenyl-d14	0.909	0.906	0.3	140	0.00
32		Benzo(a)anthracene	1.446	1.317	8.9	133	0.00
33		Chrysene	1.437	1.340	6.8	134	0.00
34		Bis(2-ethylhexyl)phthalate	0.915	0.737	19.5	121	0.00
35	I	Perylene-d12	1.000	1.000	0.0	130	0.00
36		Indeno(1,2,3-cd)pyrene	1.661	1.537	7.5	131	-0.01
37		Benzo(b)fluoranthene	1.494	1.332	10.8	130	0.00
38		Benzo(k)fluoranthene	1.470	1.352	8.0	133	0.00
39	C	Benzo(a)pyrene	1.236	1.084	12.3	129	0.00
40		Dibenzo(a,h)anthracene	1.328	1.234	7.1	131	0.00
41		Benzo(g,h,i)perylene	1.420	1.282	9.7	129	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033486.D
Acq On : 20 Aug 2024 01:56
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Quant Time: Aug 20 02:44:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	93	0.00
2		1,4-Dioxane	0.400	0.479	-19.7	156	0.00
3		n-Nitrosodimethylamine	0.400	0.442	-10.5	121	0.00
4	S	2-Fluorophenol	0.400	0.462	-15.5	108	0.00
5	S	Phenol-d6	0.400	0.497	-24.2	129	0.00
6		bis(2-Chloroethyl)ether	0.400	0.404	-1.0	134	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	135	0.00
8	S	Nitrobenzene-d5	0.400	0.362	9.5	134	0.00
9		Naphthalene	0.400	0.370	7.5	142	0.00
10		Hexachlorobutadiene	0.400	0.364	9.0	137	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.367	8.3	144	0.00
12		2-Methylnaphthalene	0.400	0.371	7.3	145	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	149	0.00
14	S	2,4,6-Tribromophenol	0.400	0.317	20.8	137	0.00
15	S	2-Fluorobiphenyl	0.400	0.358	10.5	146	0.00
16		Acenaphthylene	0.400	0.342	14.5	145	-0.01
17		Acenaphthene	0.400	0.357	10.8	148	0.00
18		Fluorene	0.400	0.354	11.5	148	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	146	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.322	19.5	144	0.00
21		4-Bromophenyl-phenylether	0.400	0.366	8.5	147	0.00
22		Hexachlorobenzene	0.400	0.376	6.0	148	0.00
23		Atrazine	0.400	0.344	14.0	140	0.00
24		Pentachlorophenol	0.400	0.289	27.8#	127	0.00
25		Phenanthrene	0.400	0.371	7.3	146	0.00
26		Anthracene	0.400	0.353	11.8	145	0.00
27	SURR	Fluoranthene-d10	0.400	0.345	13.8	139	0.00
28		Fluoranthene	0.400	0.348	13.0	142	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	133	0.00
30		Pyrene	0.400	0.404	-1.0	141	0.00
31	S	Terphenyl-d14	0.400	0.399	0.3	140	0.00
32		Benzo(a)anthracene	0.400	0.364	9.0	133	0.00
33		Chrysene	0.400	0.373	6.8	134	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.322	19.5	121	0.00
35	I	Perylene-d12	0.400	0.400	0.0	130	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.370	7.5	131	-0.01
37		Benzo(b)fluoranthene	0.400	0.357	10.8	130	0.00
38		Benzo(k)fluoranthene	0.400	0.368	8.0	133	0.00
39	C	Benzo(a)pyrene	0.400	0.351	12.3	129	0.00
40		Dibenzo(a,h)anthracene	0.400	0.372	7.0	131	0.00
41		Benzo(g,h,i)perylene	0.400	0.361	9.8	129	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3645 SAS No.: P3645 SDG No.: P3645

Instrument ID: BNA_N Calibration Date/Time: 08/20/2024 04:44

Lab File ID: BN033489.D Init. Calib. Date(s): 08/19/2024 08/19/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:16 19:53

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.572	0.523		-8.6	20.0
Fluoranthene-d10	0.961	0.802		-16.5	20.0
2-Fluorophenol	1.271	1.003		-21.1	20.0
Phenol-d6	1.512	1.274		-15.7	20.0
Nitrobenzene-d5	0.332	0.284		-14.5	20.0
Naphthalene	1.069	0.986		-7.8	20.0
2-Methylnaphthalene	0.677	0.626		-7.5	20.0
2-Fluorobiphenyl	1.634	1.511		-7.5	20.0
Acenaphthylene	1.754	1.526		-13.0	20.0
Acenaphthene	1.234	1.122		-9.1	20.0
Fluorene	1.555	1.402		-9.8	20.0
2,4,6-Tribromophenol	0.215	0.163		-24.2	20.0
Phenanthrene	1.113	1.038		-6.7	20.0
Anthracene	0.985	0.858		-12.9	20.0
Fluoranthene	1.230	1.056		-14.1	20.0
Pyrene	1.785	1.802		1.0	20.0
Terphenyl-d14	0.909	0.886		-2.5	20.0
Benzo(a)anthracene	1.446	1.315		-9.1	20.0
Chrysene	1.437	1.353		-5.8	20.0
Benzo(b)fluoranthene	1.494	1.423		-4.8	20.0
Benzo(k)fluoranthene	1.470	1.396		-5.0	20.0
Benzo(a)pyrene	1.236	1.083		-12.4	20.0
Indeno(1,2,3-cd)pyrene	1.661	1.557		-6.3	20.0
Dibenzo(a,h)anthracene	1.328	1.239		-6.7	20.0
Benzo(g,h,i)perylene	1.420	1.309		-7.8	20.0
1,4-Dioxane	0.460	0.396		-13.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033489.D
Acq On : 20 Aug 2024 04:44
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 20 05:11:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

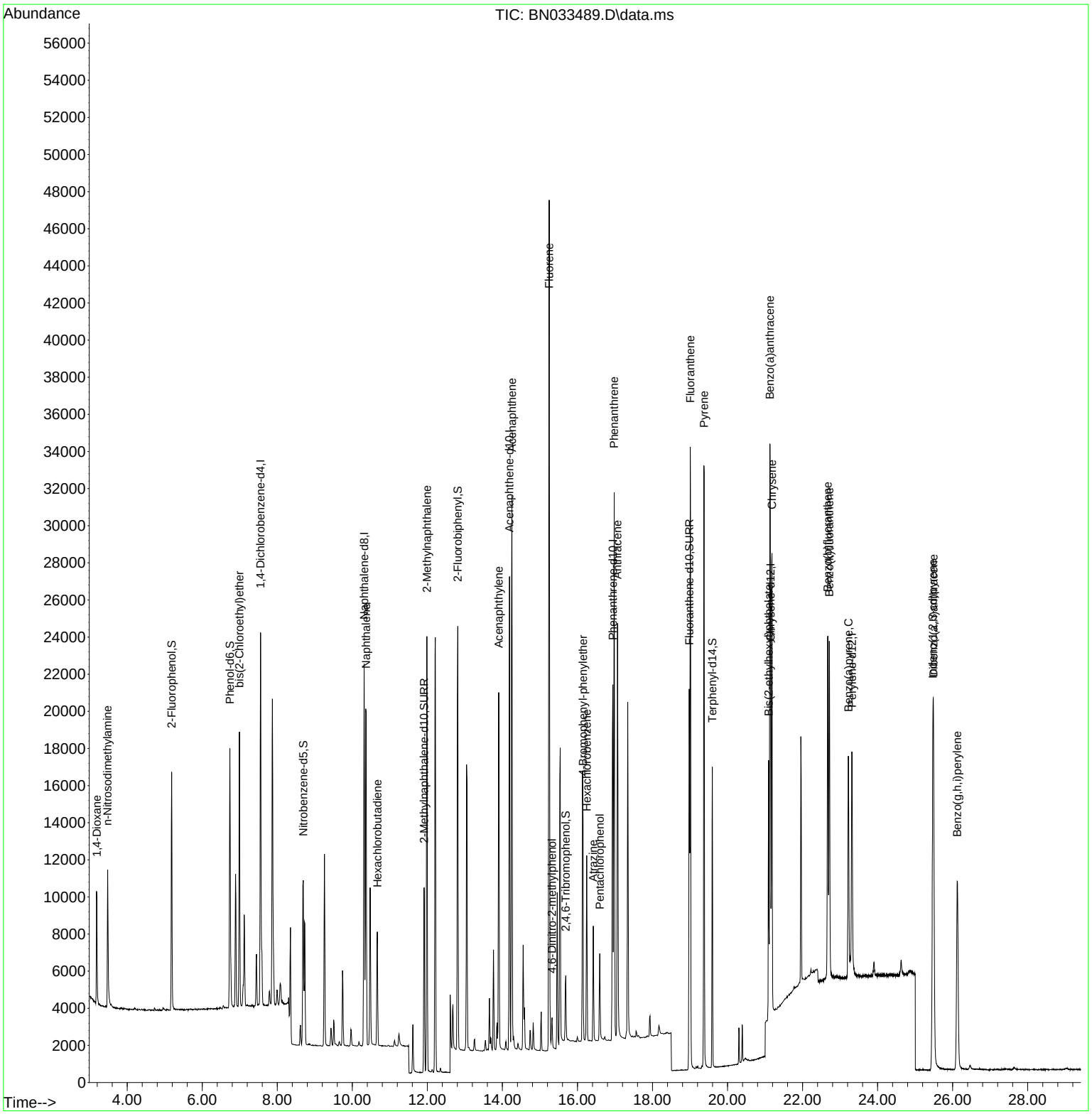
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.552	152	9356	0.400	ng		0.00
7) Naphthalene-d8	10.314	136	25244	0.400	ng		0.00
13) Acenaphthene-d10	14.189	164	13324	0.400	ng		0.00
19) Phenanthrene-d10	16.942	188	27326	0.400	ng	#	0.00
29) Chrysene-d12	21.148	240	15982	0.400	ng	#	0.00
35) Perylene-d12	23.315	264	15401	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.183	112	9381	0.315	ng		0.00
5) Phenol-d6	6.736	99	11919	0.337	ng		0.00
8) Nitrobenzene-d5	8.692	82	7174	0.343	ng		0.00
11) 2-Methylnaphthalene-d10	11.911	152	13215	0.366	ng		0.00
14) 2,4,6-Tribromophenol	15.688	330	2176	0.304	ng		0.00
15) 2-Fluorobiphenyl	12.810	172	20133	0.370	ng		0.00
27) Fluoranthene-d10	18.980	212	21914	0.334	ng		0.00
31) Terphenyl-d14	19.593	244	14166	0.390	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.190	88	3709	0.345	ng		99
3) n-Nitrosodimethylamine	3.479	42	4333	0.346	ng		95
6) bis(2-Chloroethyl)ether	6.989	93	9500	0.379	ng		98
9) Naphthalene	10.368	128	24880	0.369	ng		99
10) Hexachlorobutadiene	10.667	225	4937	0.367	ng	#	99
12) 2-Methylnaphthalene	11.987	142	15814	0.370	ng		100
16) Acenaphthylene	13.900	152	20338	0.348	ng		100
17) Acenaphthene	14.253	154	14950	0.364	ng		100
18) Fluorene	15.247	166	18685	0.361	ng		100
20) 4,6-Dinitro-2-methylph...	15.322	198	1207	0.283	ng		84
21) 4-Bromophenyl-phenylether	16.147	248	5992	0.361	ng		92
22) Hexachlorobenzene	16.247	284	6968	0.380	ng		98
23) Atrazine	16.421	200	4319	0.326	ng		97
24) Pentachlorophenol	16.594	266	2289	0.288	ng		98
25) Phenanthrene	16.979	178	28352	0.373	ng		100
26) Anthracene	17.066	178	23445	0.349	ng		99
28) Fluoranthene	19.008	202	28847	0.343	ng		100
30) Pyrene	19.375	202	28803	0.404	ng		100
32) Benzo(a)anthracene	21.130	228	21018	0.364	ng		100
33) Chrysene	21.184	228	21631	0.377	ng		99
34) Bis(2-ethylhexyl)phtha...	21.095	149	11819	0.323	ng		99
36) Indeno(1,2,3-cd)pyrene	25.472	276	23975	0.375	ng		99
37) Benzo(b)fluoranthene	22.671	252	21917	0.381	ng		99
38) Benzo(k)fluoranthene	22.712	252	21498	0.380	ng		99
39) Benzo(a)pyrene	23.221	252	16672	0.350	ng		100
40) Dibenzo(a,h)anthracene	25.490	278	19084	0.373	ng		99
41) Benzo(g,h,i)perylene	26.121	276	20155	0.369	ng		100

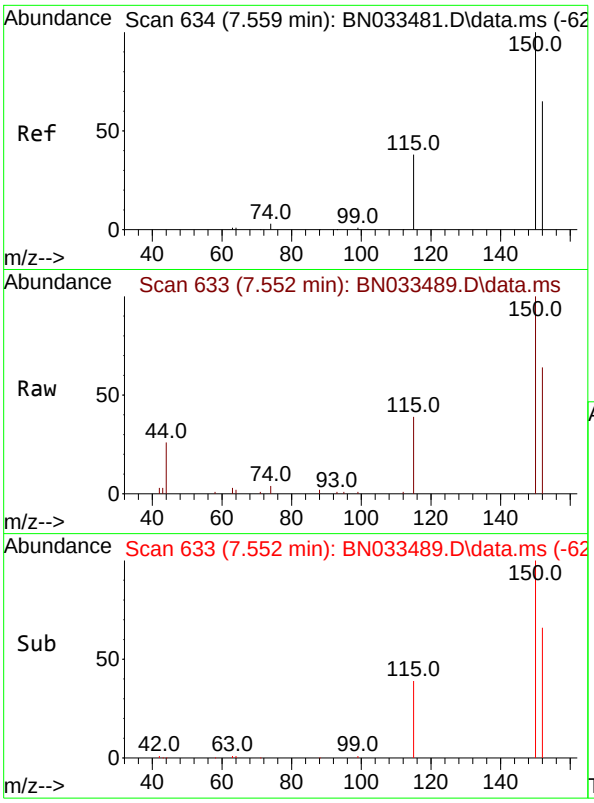
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033489.D
Acq On : 20 Aug 2024 04:44
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 20 05:11:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration



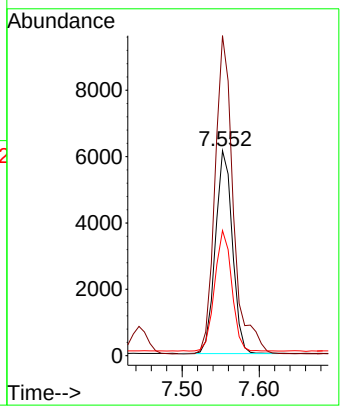


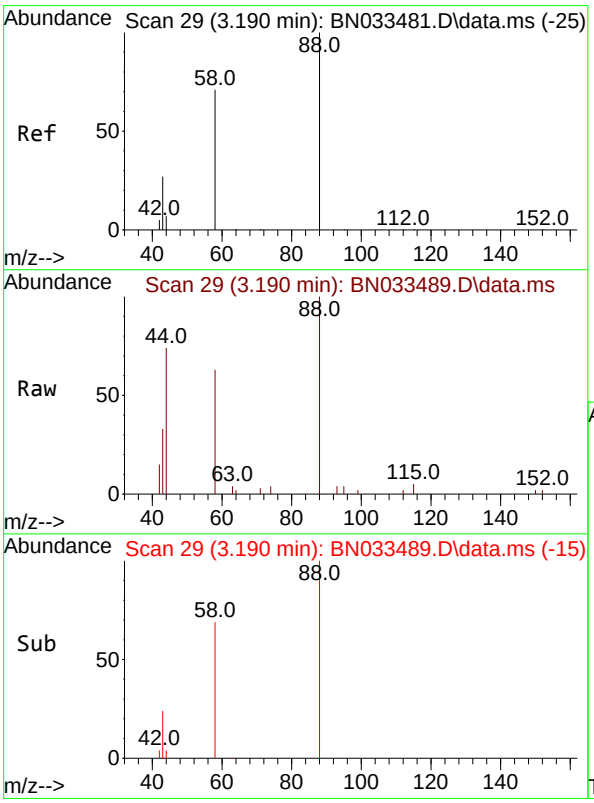
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.552 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 9356

Ion	Ratio	Lower	Upper
152	100		
150	156.2	122.2	183.2
115	61.1	47.2	70.8

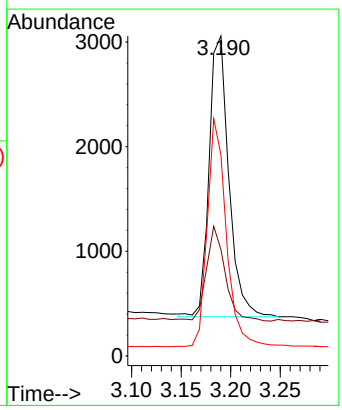


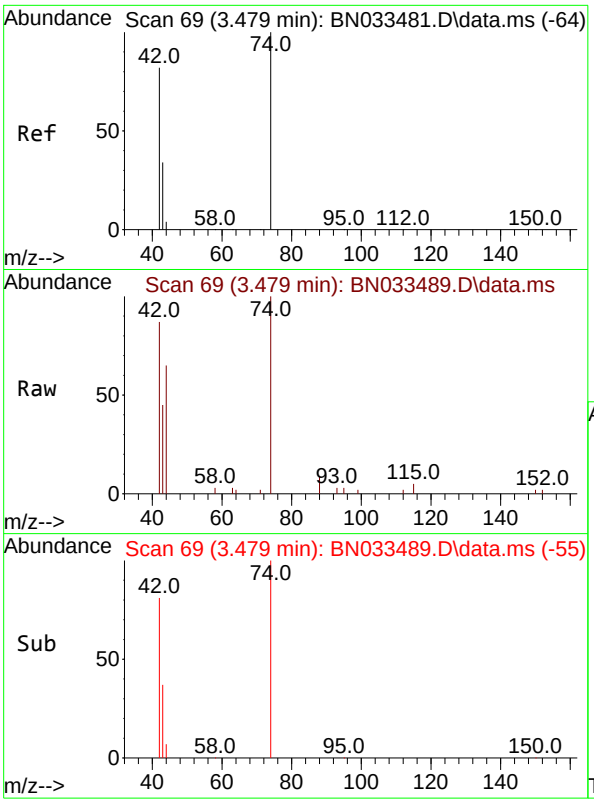


#2
1,4-Dioxane
Concen: 0.345 ng
RT: 3.190 min Scan# 29
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion: 88 Resp: 3709

Ion	Ratio	Lower	Upper
88	100		
43	31.8	25.0	37.4
58	78.6	62.5	93.7



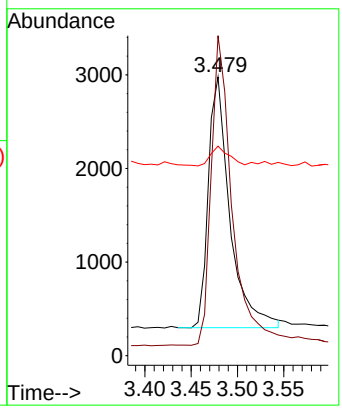


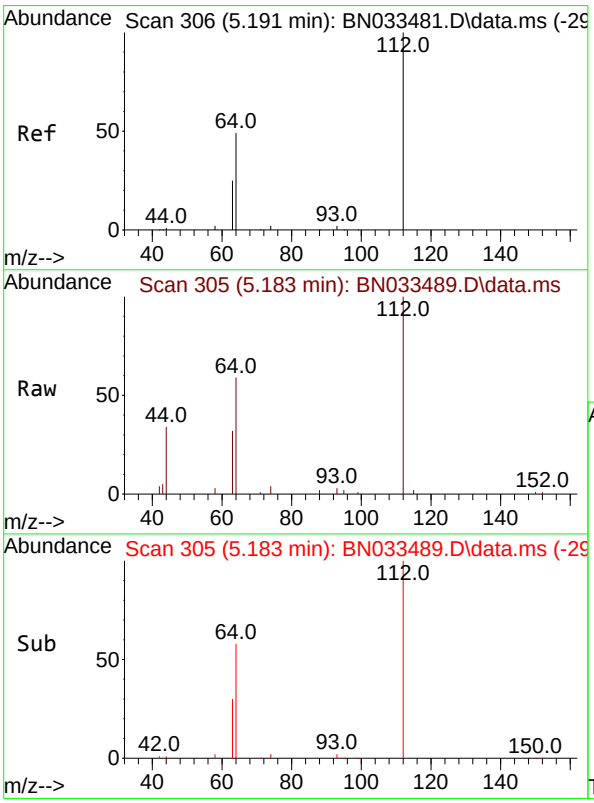
#3
n-Nitrosodimethylamine
Concen: 0.346 ng
RT: 3.479 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 4333

Ion	Ratio	Lower	Upper
42	100		
74	119.4	100.2	150.2
44	6.6	5.3	7.9

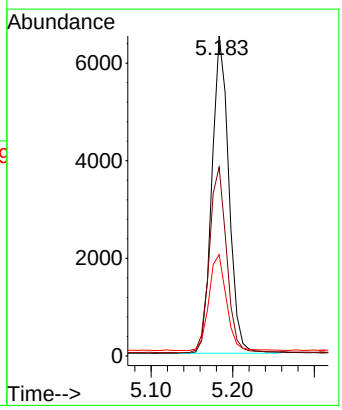


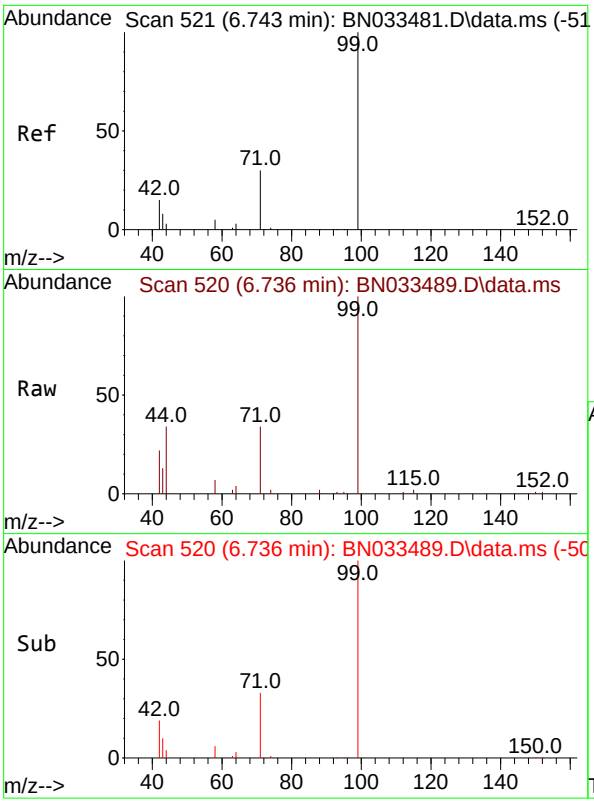


#4
2-Fluorophenol
Concen: 0.315 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.007 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:112 Resp: 9381

Ion	Ratio	Lower	Upper
112	100		
64	59.6	47.1	70.7
63	31.2	24.9	37.3



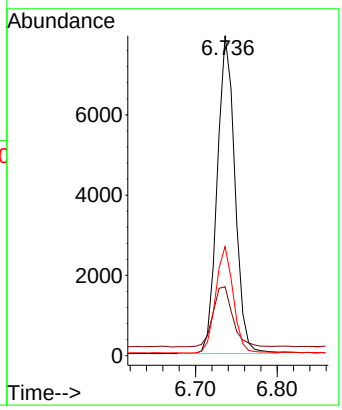


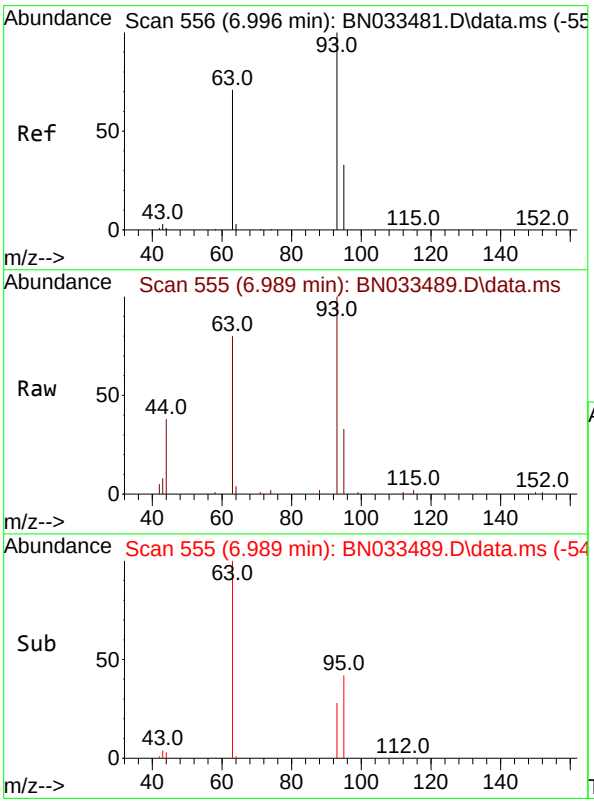
#5
Phenol-d6
Concen: 0.337 ng
RT: 6.736 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 11919

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.6	24.8
71	33.2	26.2	39.4

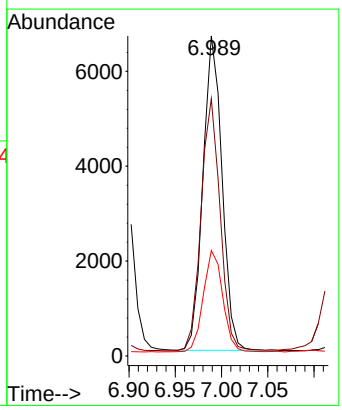


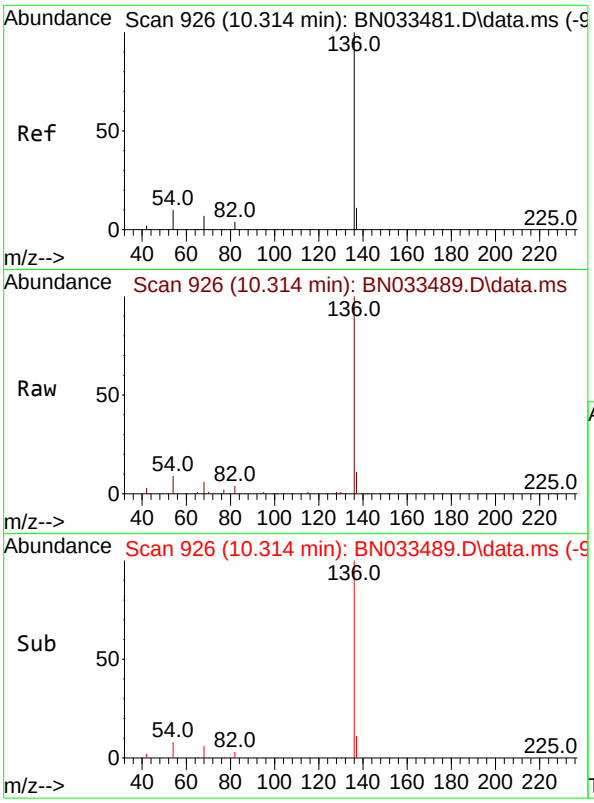


#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion: 93 Resp: 9500

Ion	Ratio	Lower	Upper
93	100		
63	80.3	63.0	94.4
95	33.0	26.0	39.0



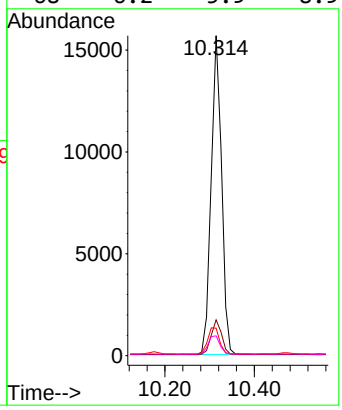


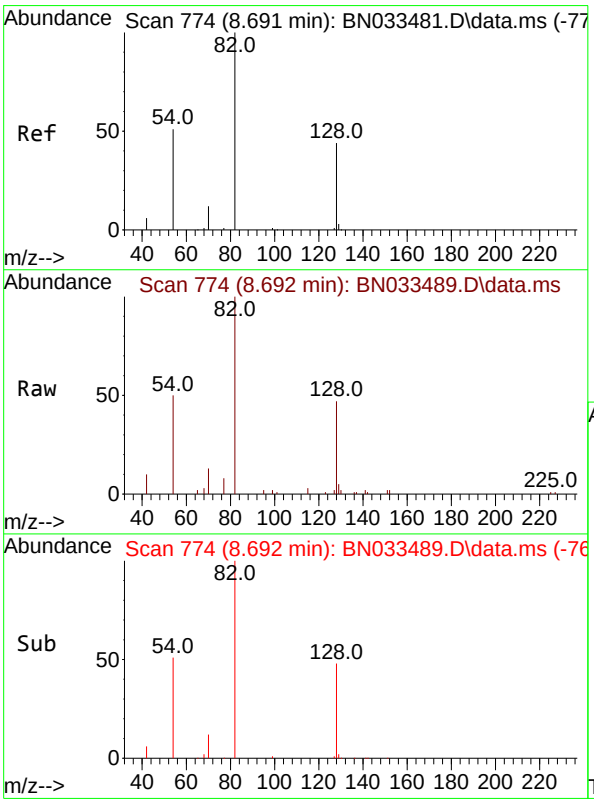
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 25244

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.6
54	8.6	8.3	12.5
68	6.2	5.9	8.9

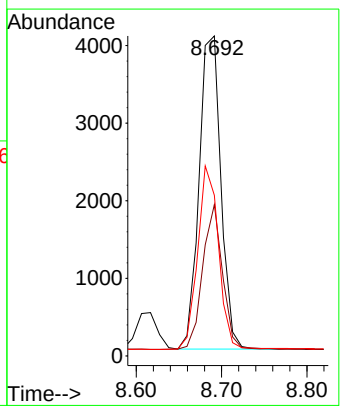


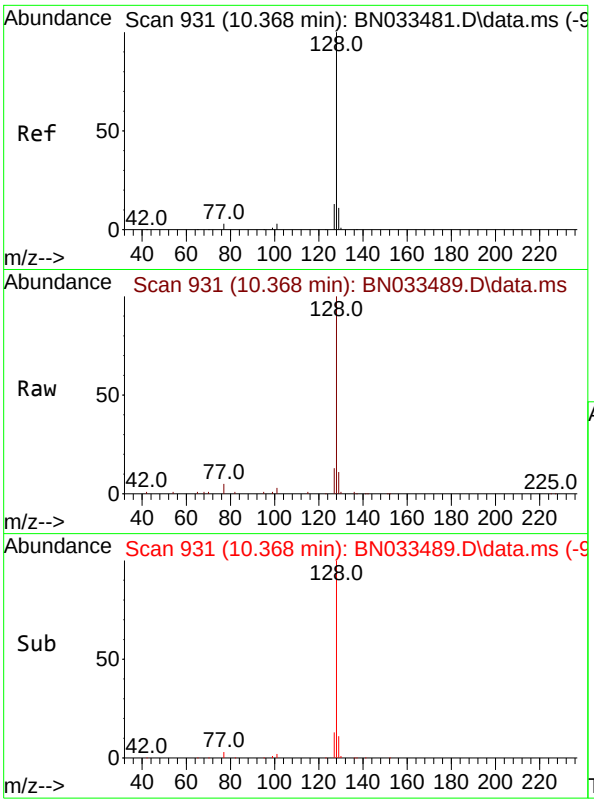


#8
Nitrobenzene-d5
Concen: 0.343 ng
RT: 8.692 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion: 82 Resp: 7174

Ion	Ratio	Lower	Upper
82	100		
128	47.3	36.0	54.0
54	50.2	42.0	63.0



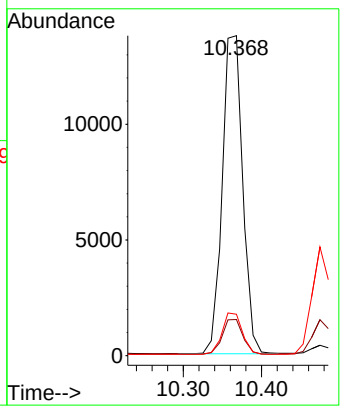


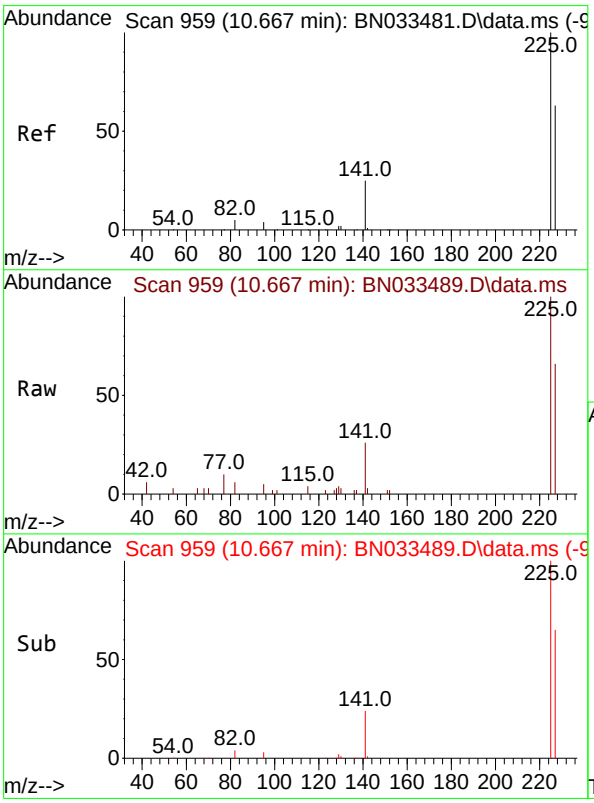
#9
Naphthalene
Concen: 0.369 ng
RT: 10.368 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 24880

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.1	13.7
127	13.0	10.7	16.1

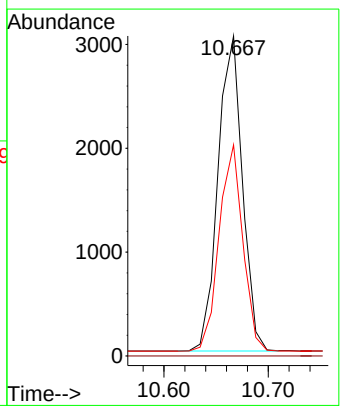


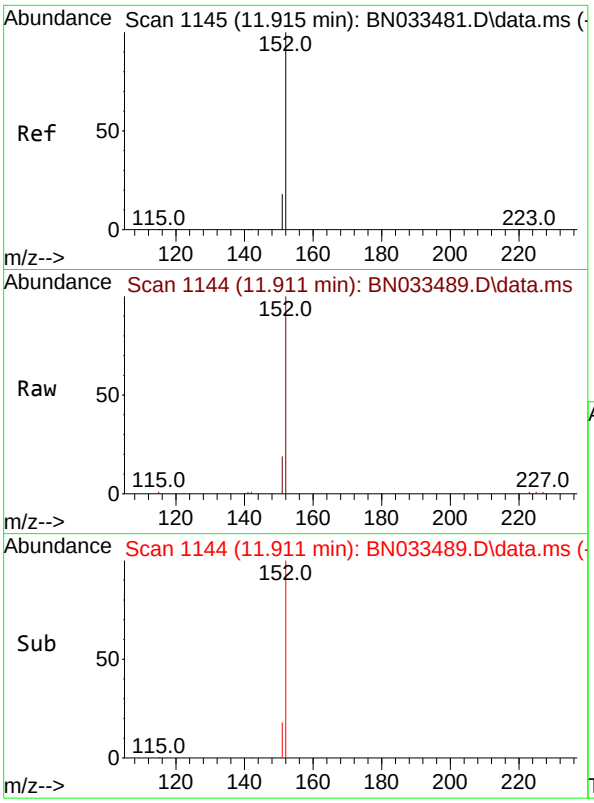


#10
Hexachlorobutadiene
Concen: 0.367 ng
RT: 10.667 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:225 Resp: 4937

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.2	76.8



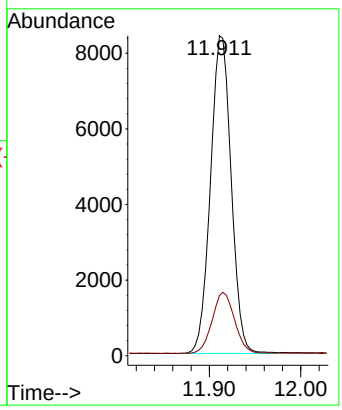


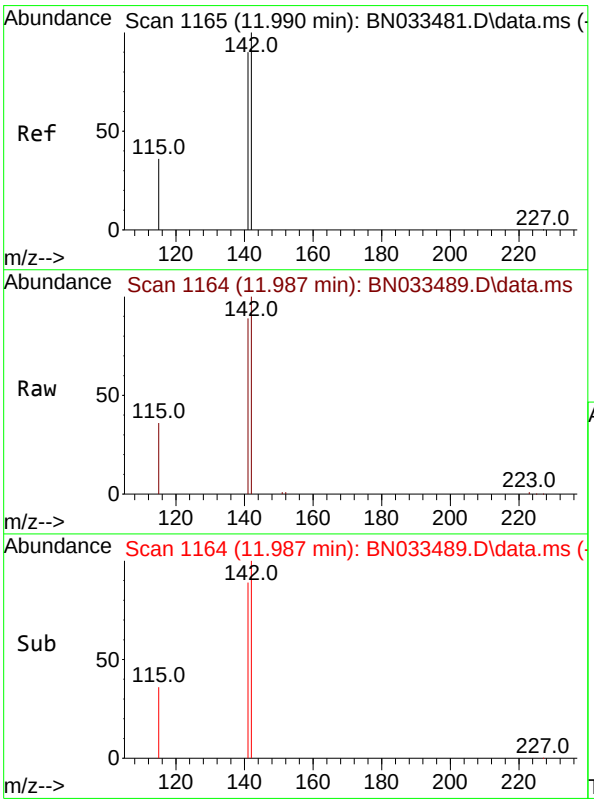
#11
2-Methylnaphthalene-d10
Concen: 0.366 ng
RT: 11.911 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 13215

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0

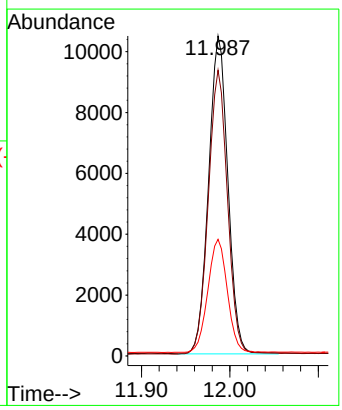


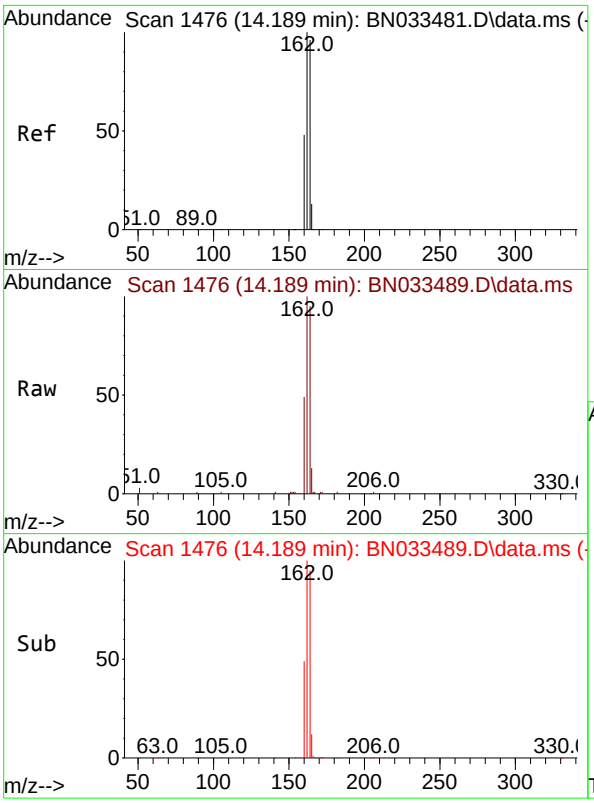


#12
2-Methylnaphthalene
Concen: 0.370 ng
RT: 11.987 min Scan# 1164
Delta R.T. -0.004 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:142 Resp: 15814

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.7	107.5
115	36.4	29.4	44.2



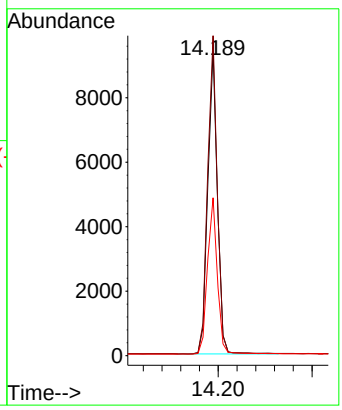


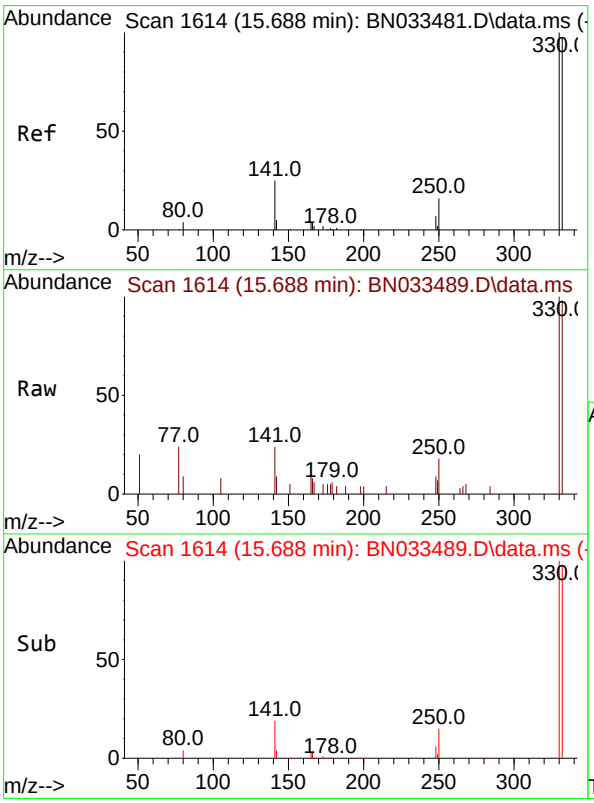
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 13324

Ion	Ratio	Lower	Upper
164	100		
162	104.7	83.5	125.3
160	51.7	40.2	60.4

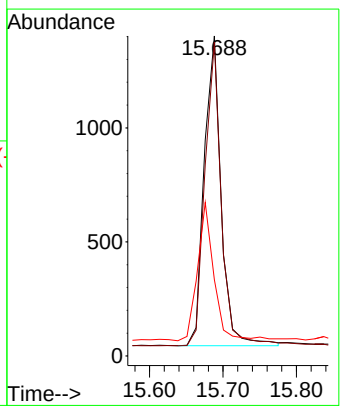


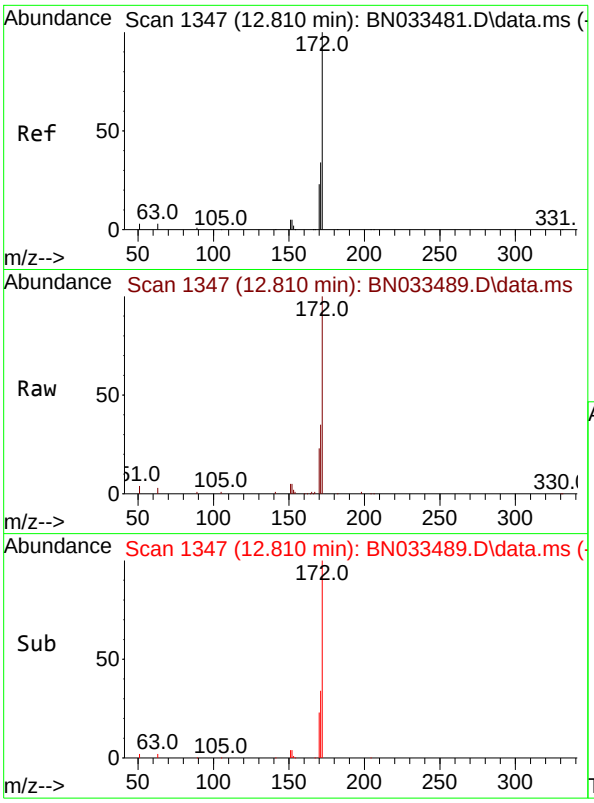


#14
2,4,6-Tribromophenol
Concen: 0.304 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:330 Resp: 2176

Ion	Ratio	Lower	Upper
330	100		
332	94.8	77.5	116.3
141	41.6	33.9	50.9



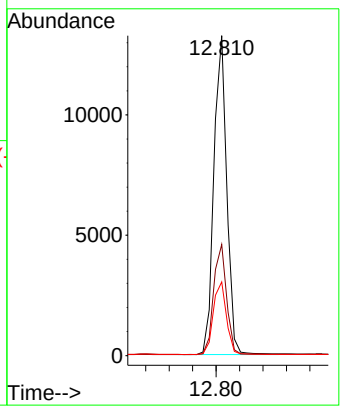


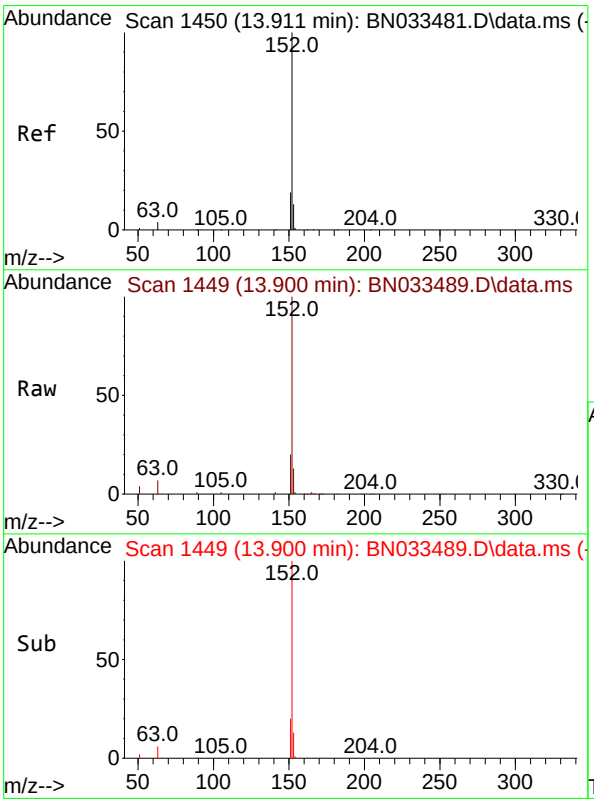
#15
2-Fluorobiphenyl
Concen: 0.370 ng
RT: 12.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 20133

Ion	Ratio	Lower	Upper
172	100		
171	34.7	27.7	41.5
170	23.0	18.3	27.5

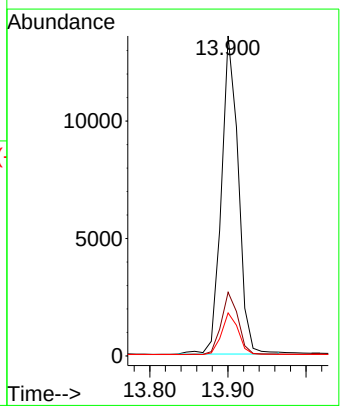


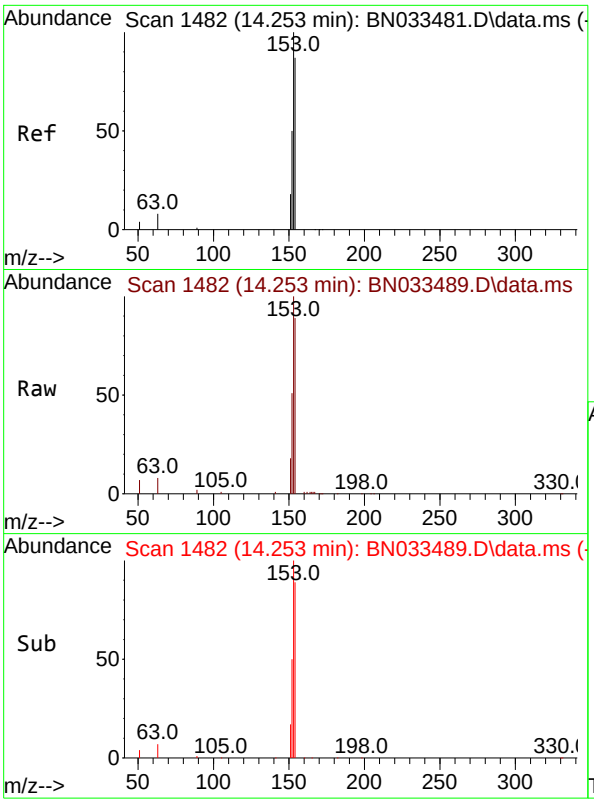


#16
Acenaphthylene
Concen: 0.348 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:152 Resp: 20338

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.7	23.5
153	13.0	10.3	15.5



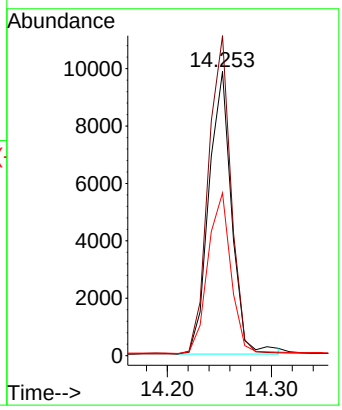


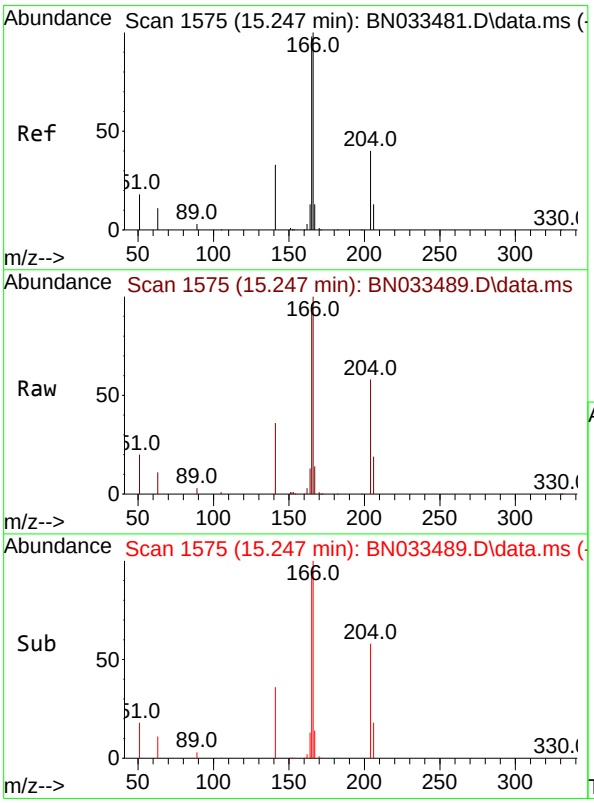
#17
Acenaphthene
Concen: 0.364 ng
RT: 14.253 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 14950

Ion	Ratio	Lower	Upper
154	100		
153	111.5	89.0	133.6
152	57.1	45.2	67.8

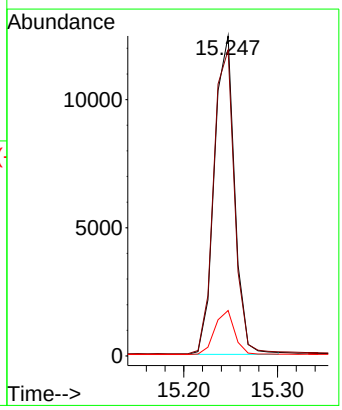


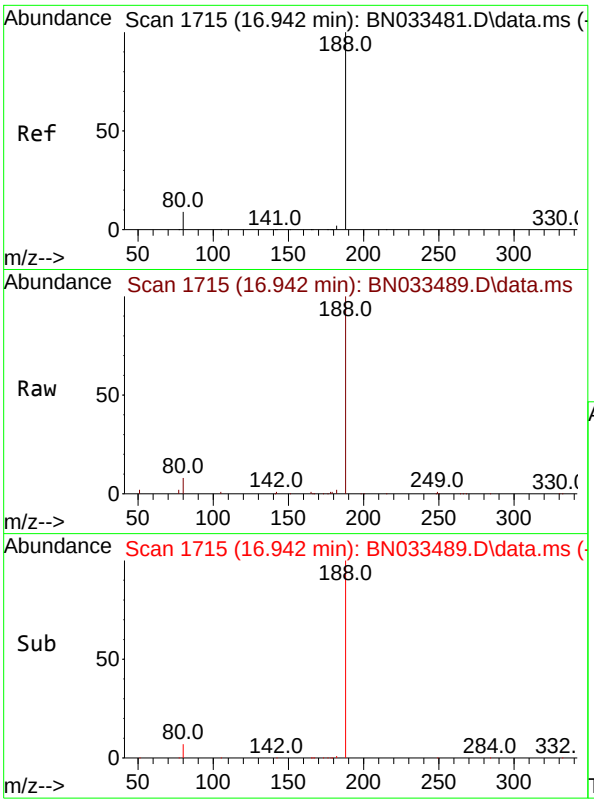


#18
Fluorene
Concen: 0.361 ng
RT: 15.247 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:166 Resp: 18685

Ion	Ratio	Lower	Upper
166	100		
165	98.2	78.2	117.4
167	13.6	10.6	16.0



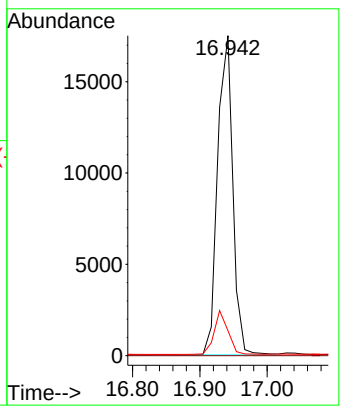


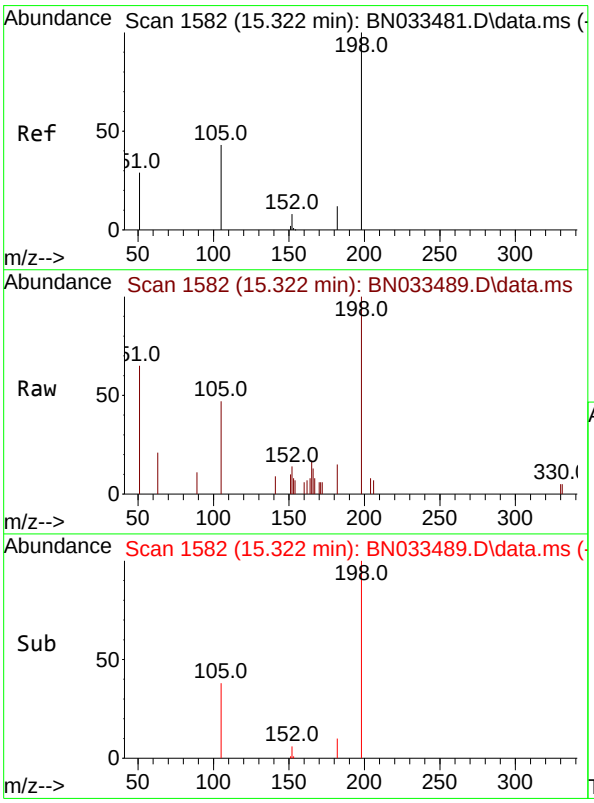
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 27326

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

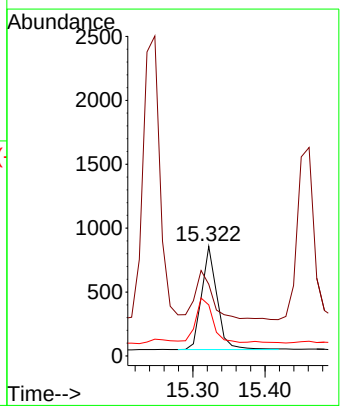


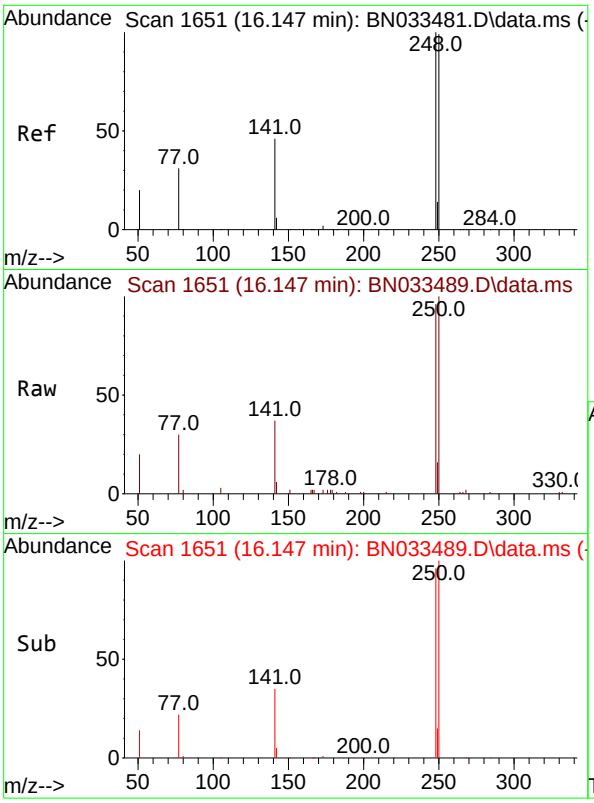


#20
4,6-Dinitro-2-methylphenol
Concen: 0.283 ng
RT: 15.322 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:198 Resp: 1207

Ion	Ratio	Lower	Upper
198	100		
51	65.4	65.1	97.7
105	46.5	44.8	67.2



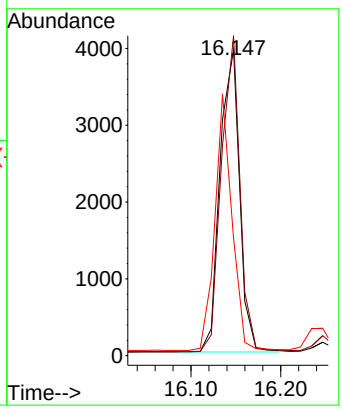


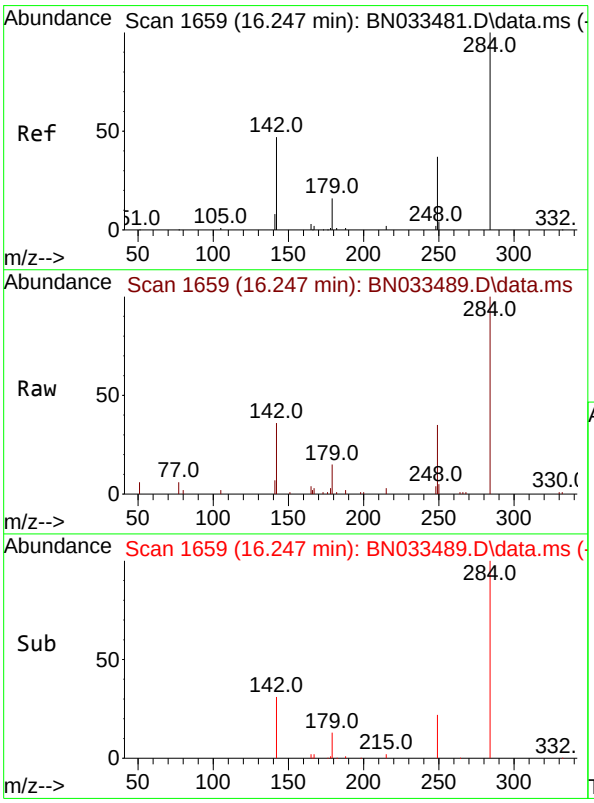
#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 16.147 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 5992

Ion	Ratio	Lower	Upper
248	100		
250	104.5	79.2	118.8
141	38.3	37.9	56.9

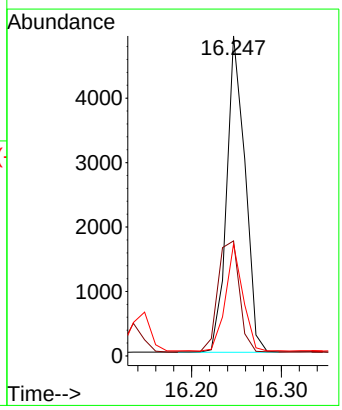


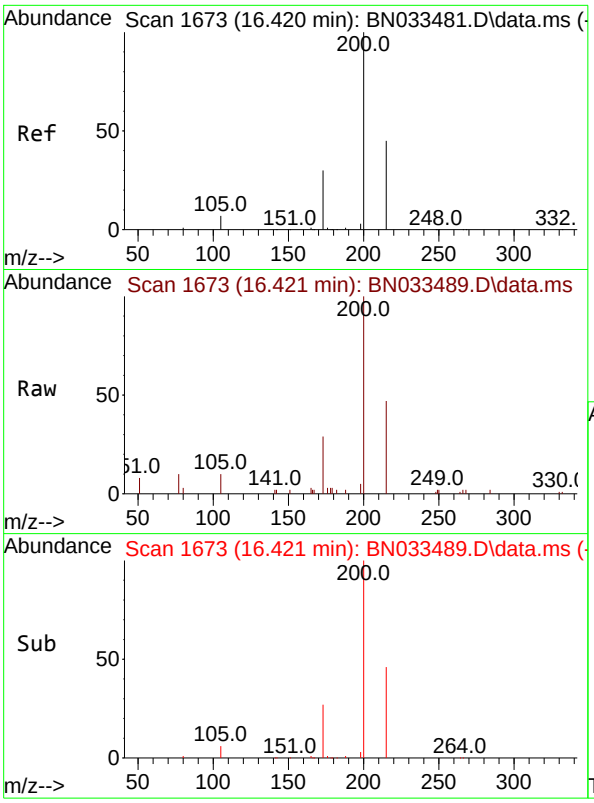


#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:284 Resp: 6968

Ion	Ratio	Lower	Upper
284	100		
142	41.1	31.8	47.6
249	31.7	26.0	39.0



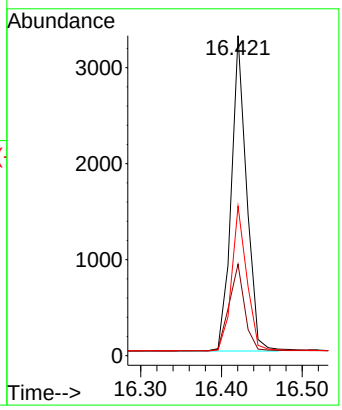


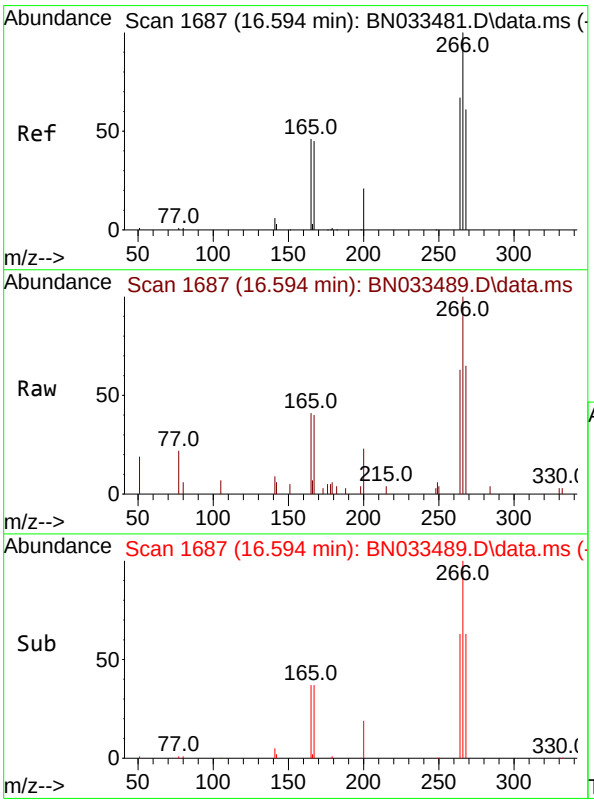
#23
Atrazine
Concen: 0.326 ng
RT: 16.421 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 4319

Ion	Ratio	Lower	Upper
200	100		
173	28.6	25.3	37.9
215	46.7	36.6	54.8

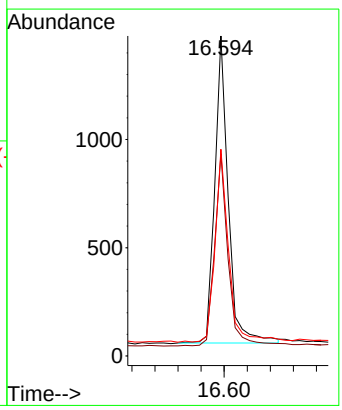


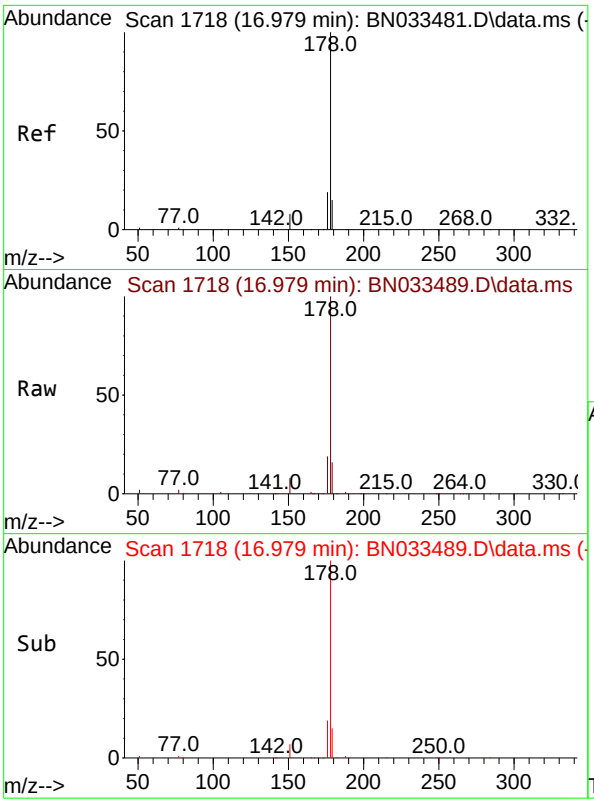


#24
Pentachlorophenol
Concen: 0.288 ng
RT: 16.594 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:266 Resp: 2289

Ion	Ratio	Lower	Upper
266	100		
264	62.5	51.9	77.9
268	63.8	51.0	76.4



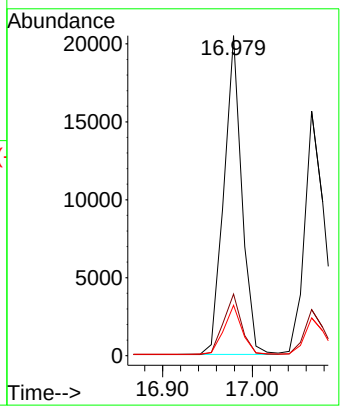


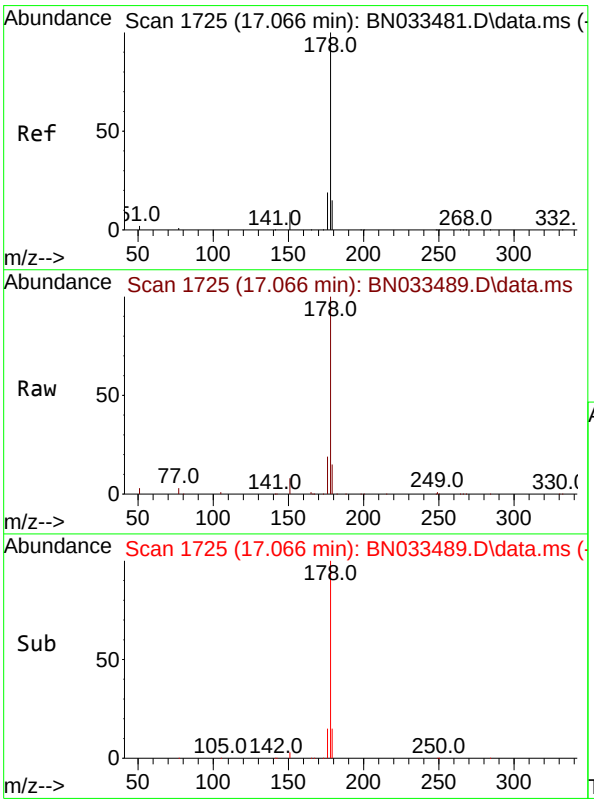
#25
Phenanthrene
Concen: 0.373 ng
RT: 16.979 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 28352

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.5	12.3	18.5

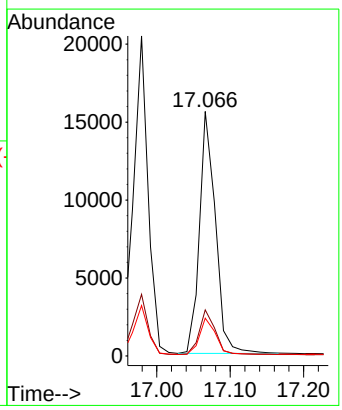


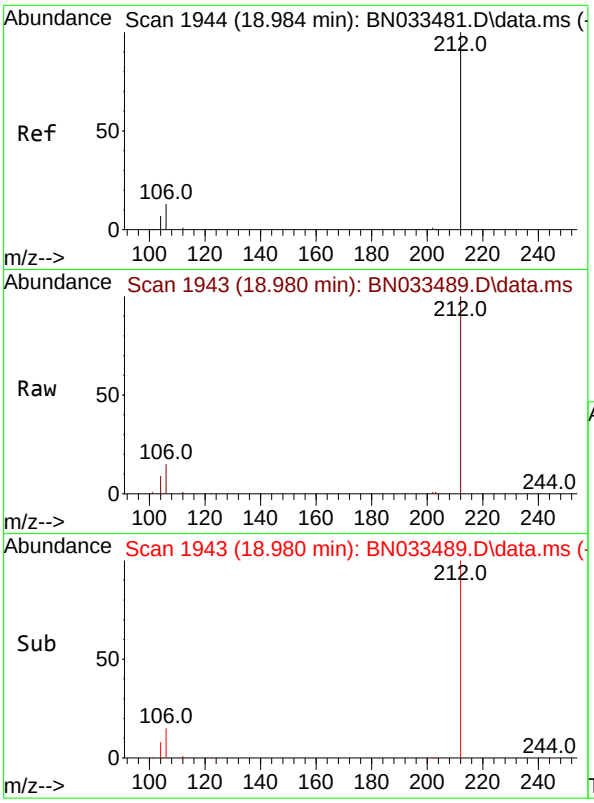


#26
Anthracene
Concen: 0.349 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:178 Resp: 23445

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.2	12.4	18.6



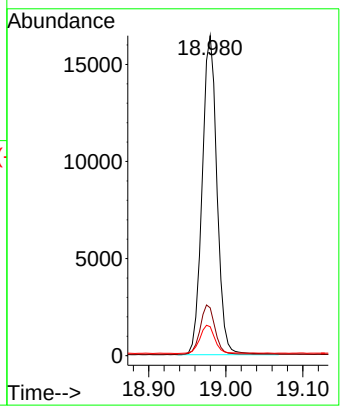


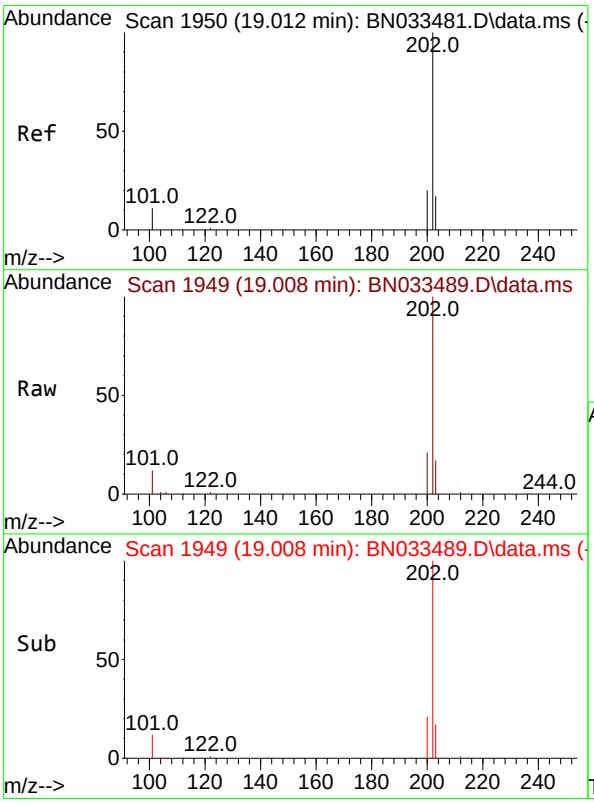
#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 18.980 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 21914

Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.3	18.5
104	8.9	7.0	10.4

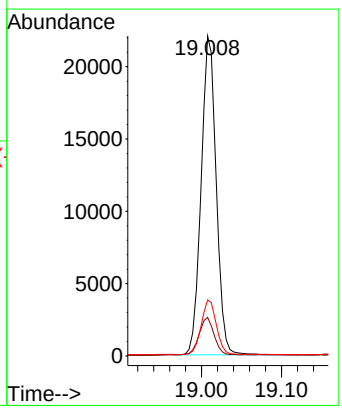


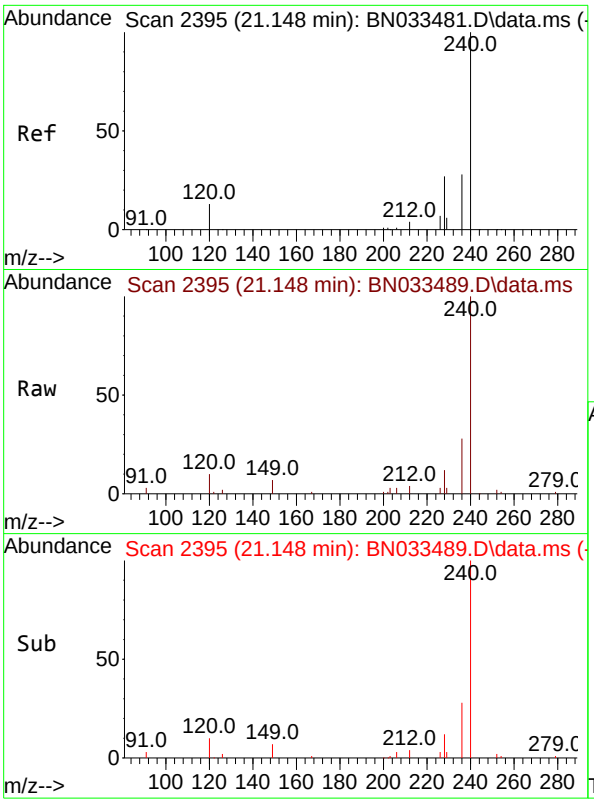


#28
Fluoranthene
Concen: 0.343 ng
RT: 19.008 min Scan# 1949
Delta R.T. -0.005 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:202 Resp: 28847

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.5	14.3
203	17.2	13.8	20.6



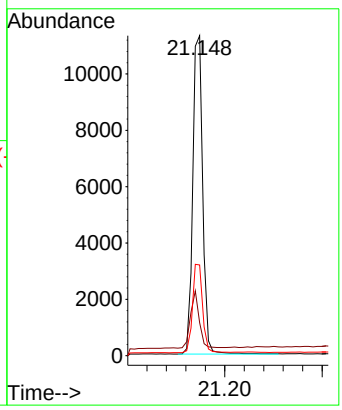


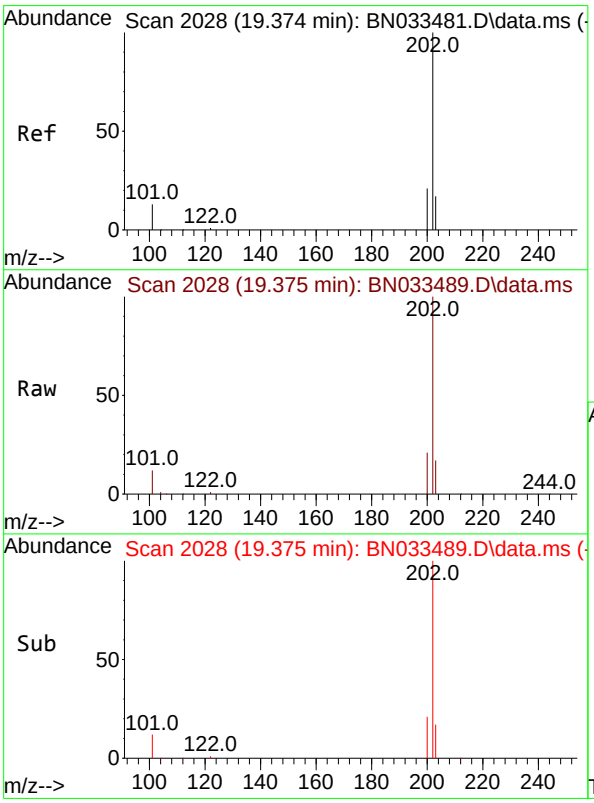
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 15982

Ion	Ratio	Lower	Upper
240	100		
120	10.3	12.4	18.6#
236	28.3	23.0	34.6

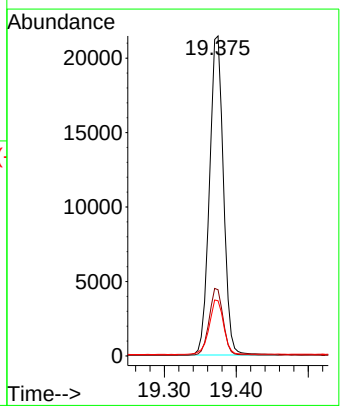


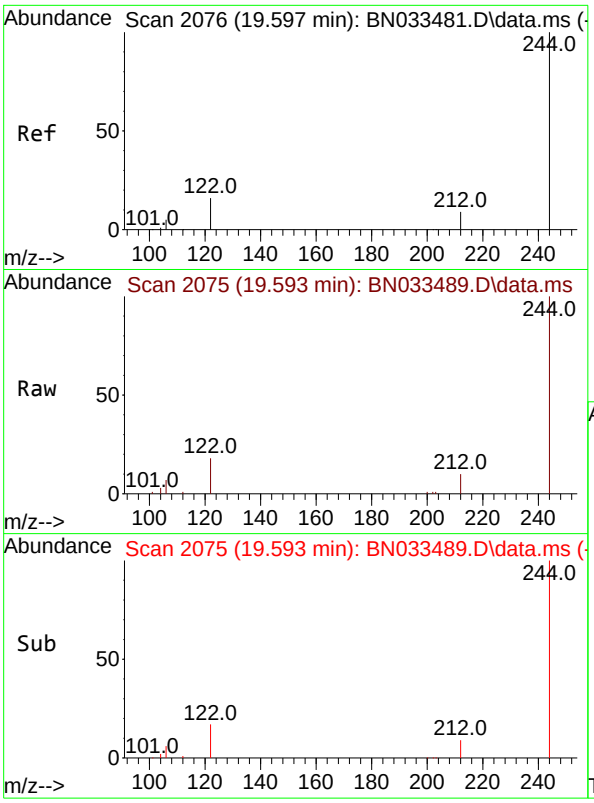


#30
Pyrene
Concen: 0.404 ng
RT: 19.375 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:202 Resp: 28803

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	17.8	14.2	21.4



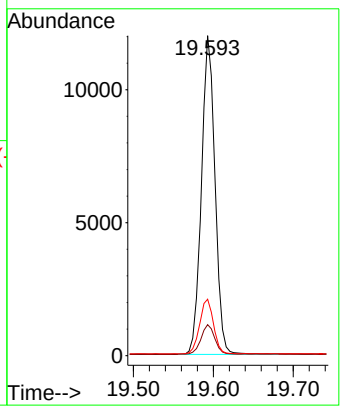


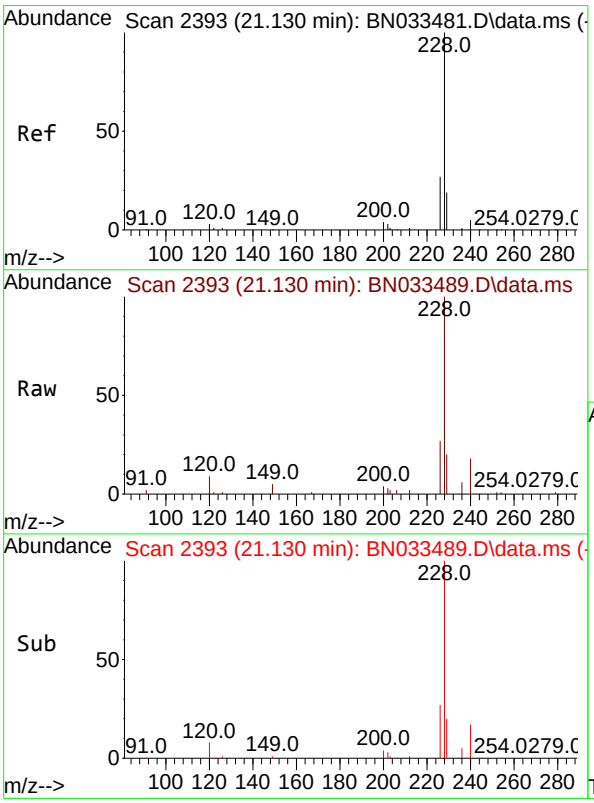
#31
Terphenyl-d14
Concen: 0.390 ng
RT: 19.593 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 14166

Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.8	11.6
122	17.7	13.3	19.9

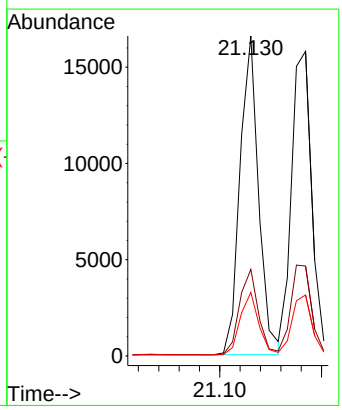


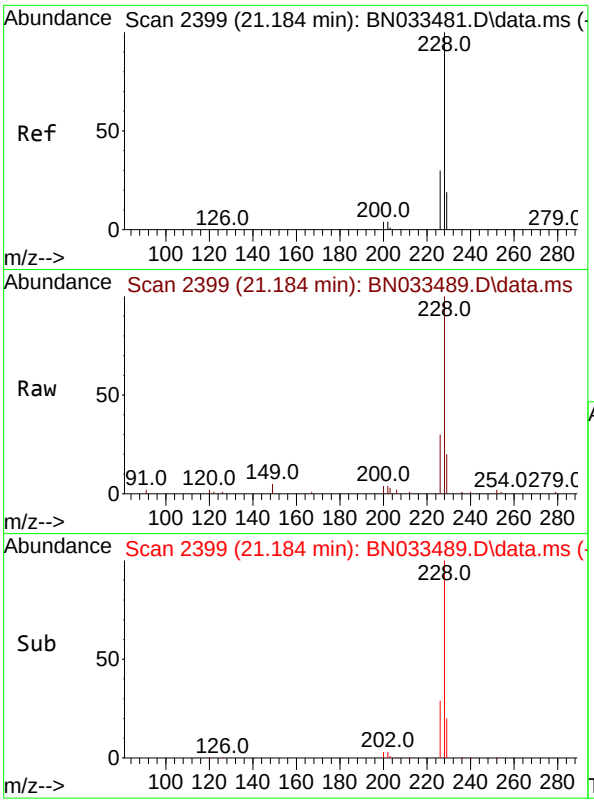


#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.130 min Scan# 2393
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:228 Resp: 21018

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.6
229	19.9	15.8	23.6



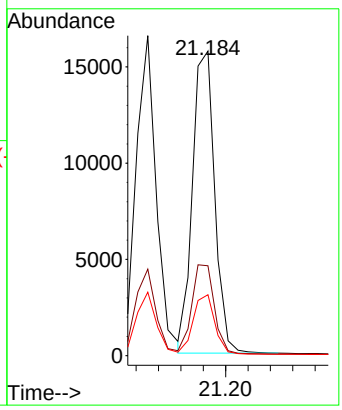


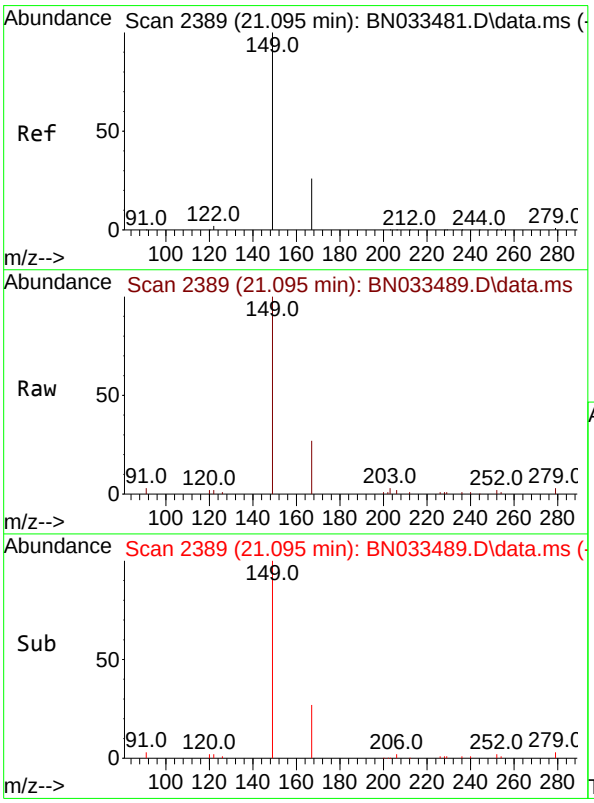
#33
Chrysene
Concen: 0.377 ng
RT: 21.184 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 21631

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.8	35.8
229	20.0	15.6	23.4

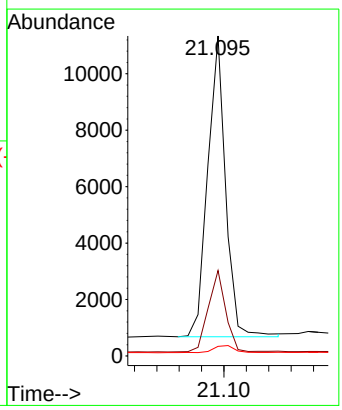


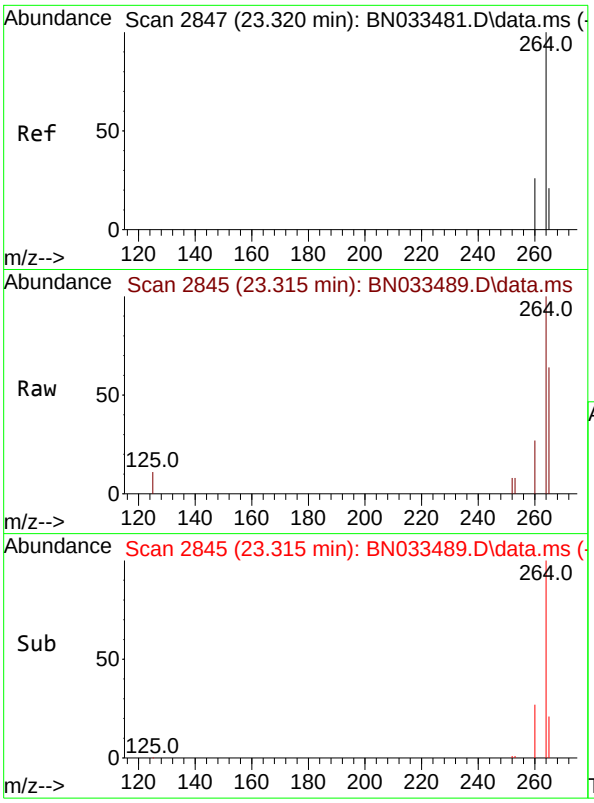


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.323 ng
RT: 21.095 min Scan# 2389
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:149 Resp: 11819

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.5	32.3
279	2.7	2.2	3.2



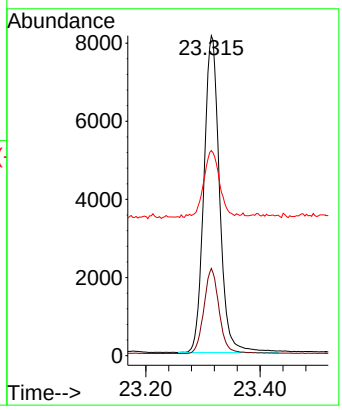


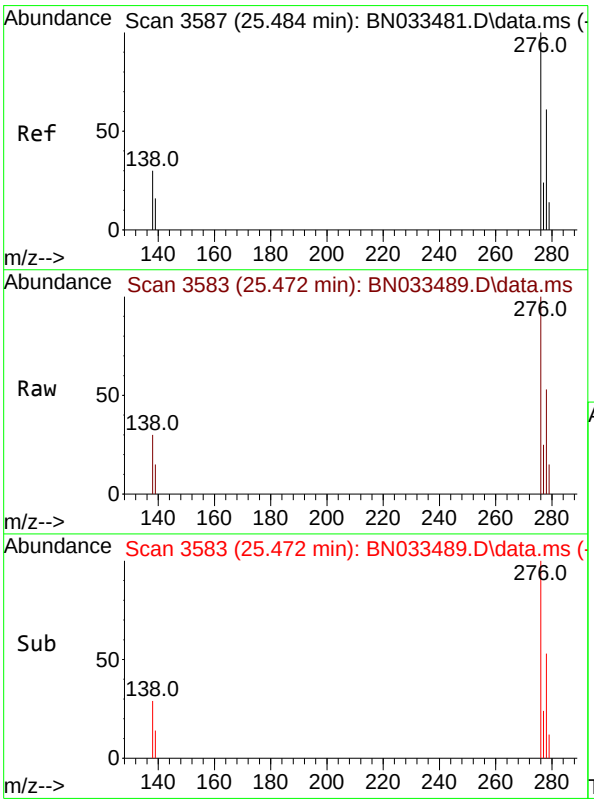
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.315 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 15401

Ion	Ratio	Lower	Upper
264	100		
260	27.3	20.8	31.2
265	64.1	52.2	78.2

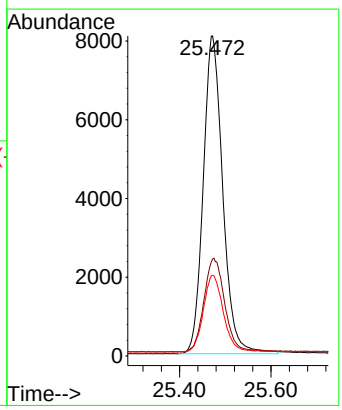


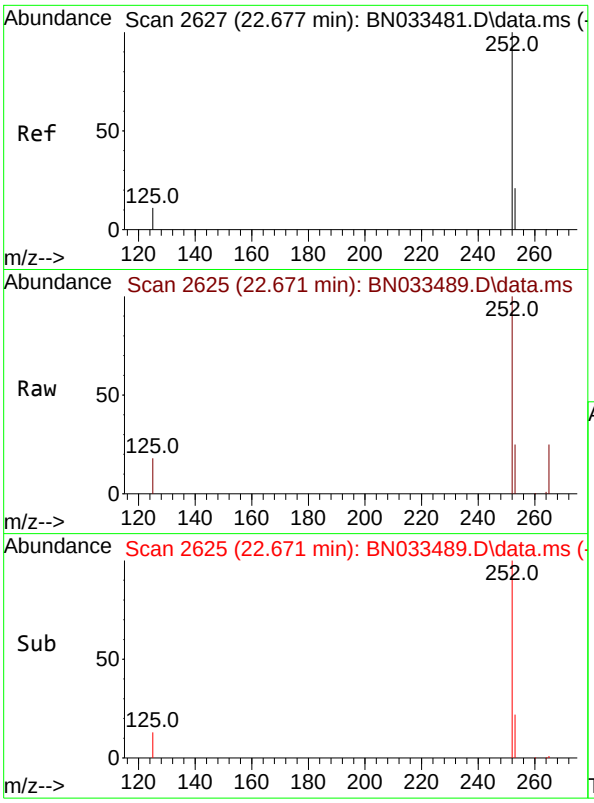


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.375 ng
RT: 25.472 min Scan# 3583
Delta R.T. -0.012 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:276 Resp: 23975

Ion	Ratio	Lower	Upper
276	100		
138	31.1	24.4	36.6
277	24.5	19.8	29.6



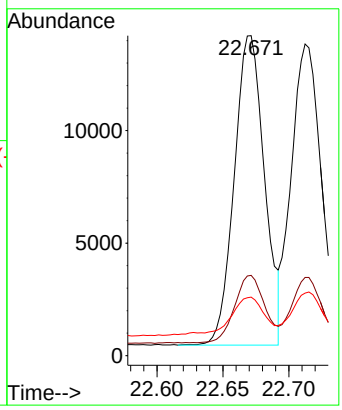


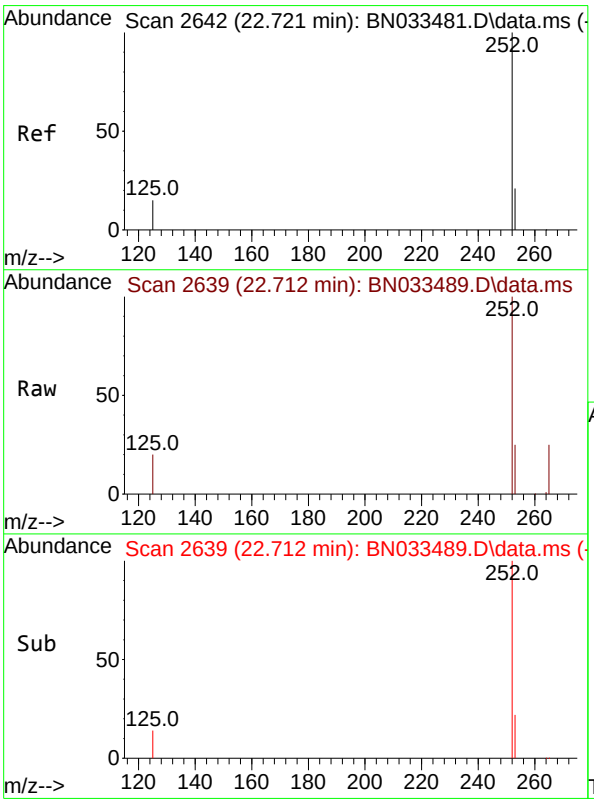
#37
Benzo(b)fluoranthene
Concen: 0.381 ng
RT: 22.671 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 21917

Ion	Ratio	Lower	Upper
252	100		
253	25.1	19.8	29.8
125	18.3	13.9	20.9

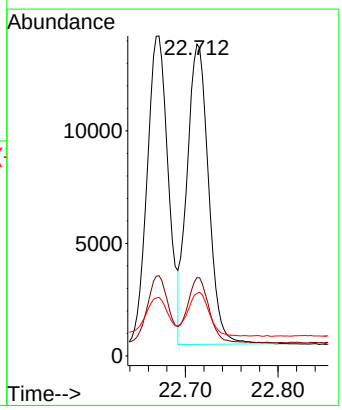


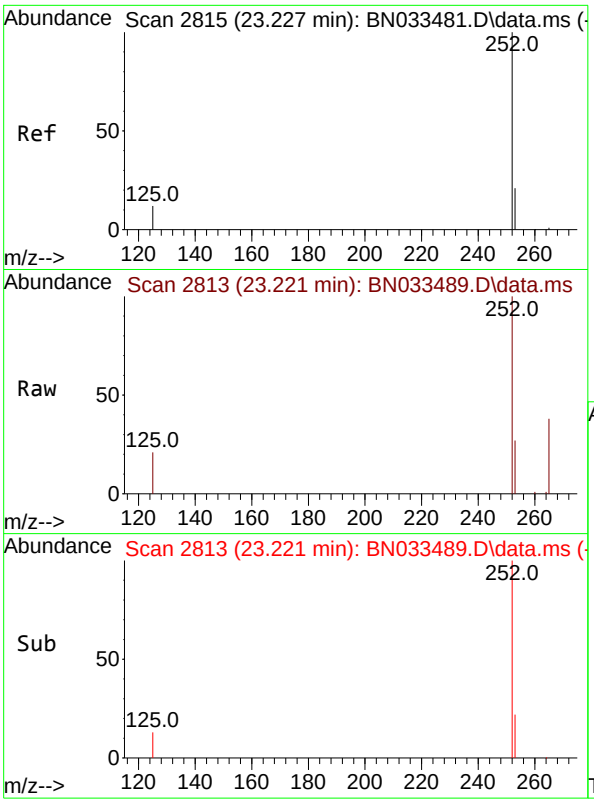


#38
Benzo(k)fluoranthene
Concen: 0.380 ng
RT: 22.712 min Scan# 2639
Delta R.T. -0.009 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:252 Resp: 21498

Ion	Ratio	Lower	Upper
252	100		
253	25.1	19.8	29.8
125	20.1	15.8	23.8



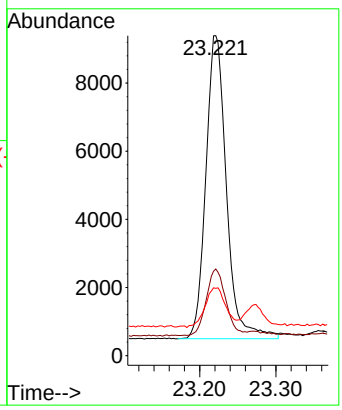


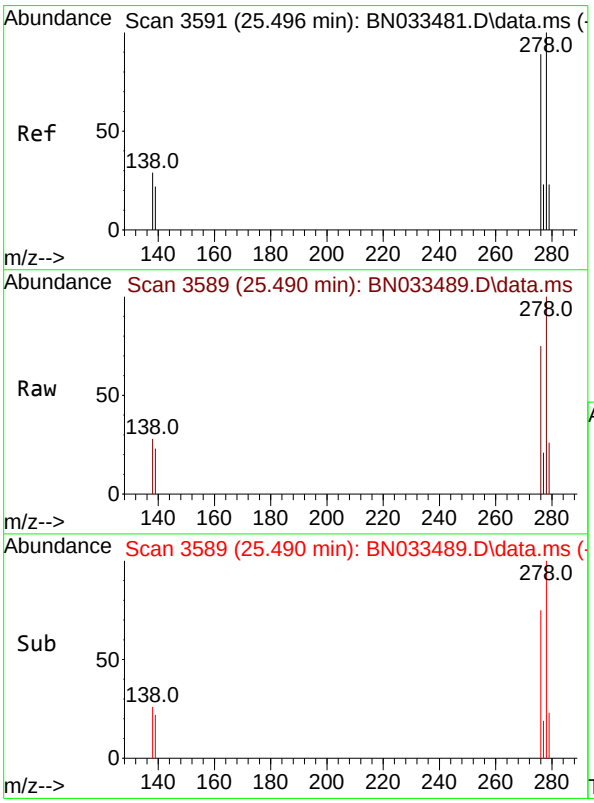
#39
Benzo(a)pyrene
Concen: 0.350 ng
RT: 23.221 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 16672

Ion	Ratio	Lower	Upper
252	100		
253	27.1	21.5	32.3
125	21.1	17.0	25.4

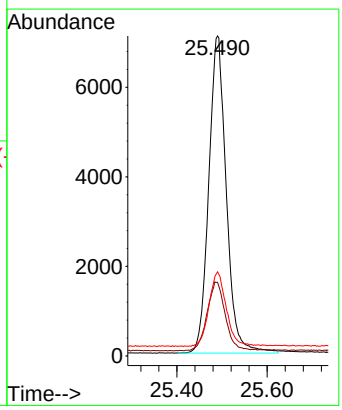


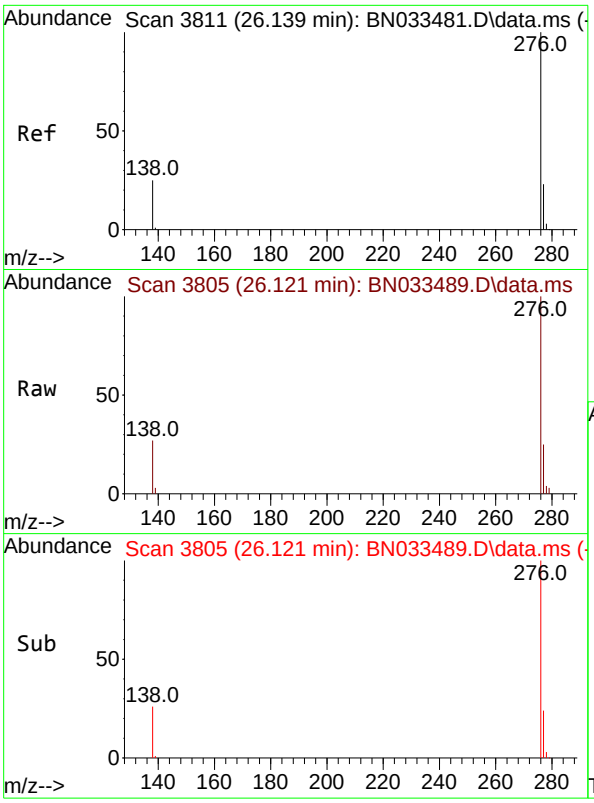


#40
Dibenzo(a,h)anthracene
Concen: 0.373 ng
RT: 25.490 min Scan# 3589
Delta R.T. -0.006 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:278 Resp: 19084

Ion	Ratio	Lower	Upper
278	100		
139	23.0	19.1	28.7
279	26.3	21.0	31.4



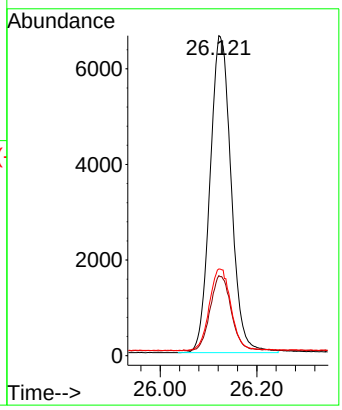


#41
Benzo(g,h,i)perylene
Concen: 0.369 ng
RT: 26.121 min Scan# 3
Delta R.T. -0.017 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 20155

Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.7	29.5
138	27.1	21.8	32.6



Evaluate Continuing Calibration Report

Sample Results: **BN033489.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033489.D
Acq On : 20 Aug 2024 04:44
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 20 05:11:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	73	0.00
2		1,4-Dioxane	0.460	0.396	13.9	87	0.00
3		n-Nitrosodimethylamine	0.535	0.463	13.5	74	0.00
4	S	2-Fluorophenol	1.271	1.003	21.1	57	0.00
5	S	Phenol-d6	1.512	1.274	15.7	68	0.00
6		bis(2-Chloroethyl)ether	1.072	1.015	5.3	98	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00
8	S	Nitrobenzene-d5	0.332	0.284	14.5	97	0.00
9		Naphthalene	1.069	0.986	7.8	108	0.00
10		Hexachlorobutadiene	0.213	0.196	8.0	105	0.00
11	SURR	2-Methylnaphthalene-d10	0.572	0.523	8.6	110	0.00
12		2-Methylnaphthalene	0.677	0.626	7.5	111	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00
14	S	2,4,6-Tribromophenol	0.215	0.163	24.2	98	0.00
15	S	2-Fluorobiphenyl	1.634	1.511	7.5	113	0.00
16		Acenaphthylene	1.754	1.526	13.0	110	-0.01
17		Acenaphthene	1.234	1.122	9.1	113	0.00
18		Fluorene	1.555	1.402	9.8	113	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
20		4,6-Dinitro-2-methylphenol	0.062	0.044	29.0#	96	0.00
21		4-Bromophenyl-phenylether	0.243	0.219	9.9	110	0.00
22		Hexachlorobenzene	0.268	0.255	4.9	114	0.00
23		Atrazine	0.194	0.158	18.6	102	0.00
24		Pentachlorophenol	0.116	0.084	27.6#	97	0.00
25		Phenanthrene	1.113	1.038	6.7	112	0.00
26		Anthracene	0.985	0.858	12.9	109	0.00
27	SURR	Fluoranthene-d10	0.961	0.802	16.5	103	0.00
28		Fluoranthene	1.230	1.056	14.1	106	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	99	0.00
30		Pyrene	1.785	1.802	-1.0	105	0.00
31	S	Terphenyl-d14	0.909	0.886	2.5	102	0.00
32		Benzo(a)anthracene	1.446	1.315	9.1	99	0.00
33		Chrysene	1.437	1.353	5.8	101	0.00
34		Bis(2-ethylhexyl)phthalate	0.915	0.740	19.1	90	0.00
35	I	Perylene-d12	1.000	1.000	0.0	97	0.00
36		Indeno(1,2,3-cd)pyrene	1.661	1.557	6.3	98	-0.01
37		Benzo(b)fluoranthene	1.494	1.423	4.8	103	0.00
38		Benzo(k)fluoranthene	1.470	1.396	5.0	102	0.00
39	C	Benzo(a)pyrene	1.236	1.083	12.4	96	0.00
40		Dibenzo(a,h)anthracene	1.328	1.239	6.7	98	0.00
41		Benzo(g,h,i)perylene	1.420	1.309	7.8	98	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BN033489.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033489.D
Acq On : 20 Aug 2024 04:44
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 20 05:11:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	73	0.00
2		1,4-Dioxane	0.400	0.345	13.8	87	0.00
3		n-Nitrosodimethylamine	0.400	0.346	13.5	74	0.00
4	S	2-Fluorophenol	0.400	0.315	21.3	57	0.00
5	S	Phenol-d6	0.400	0.337	15.8	68	0.00
6		bis(2-Chloroethyl)ether	0.400	0.379	5.3	98	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	104	0.00
8	S	Nitrobenzene-d5	0.400	0.343	14.2	97	0.00
9		Naphthalene	0.400	0.369	7.8	108	0.00
10		Hexachlorobutadiene	0.400	0.367	8.3	105	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.366	8.5	110	0.00
12		2-Methylnaphthalene	0.400	0.370	7.5	111	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	111	0.00
14	S	2,4,6-Tribromophenol	0.400	0.304	24.0	98	0.00
15	S	2-Fluorobiphenyl	0.400	0.370	7.5	113	0.00
16		Acenaphthylene	0.400	0.348	13.0	110	-0.01
17		Acenaphthene	0.400	0.364	9.0	113	0.00
18		Fluorene	0.400	0.361	9.8	113	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	112	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.283	29.3#	96	0.00
21		4-Bromophenyl-phenylether	0.400	0.361	9.8	110	0.00
22		Hexachlorobenzene	0.400	0.380	5.0	114	0.00
23		Atrazine	0.400	0.326	18.5	102	0.00
24		Pentachlorophenol	0.400	0.288	28.0#	97	0.00
25		Phenanthrene	0.400	0.373	6.8	112	0.00
26		Anthracene	0.400	0.349	12.8	109	0.00
27	SURR	Fluoranthene-d10	0.400	0.334	16.5	103	0.00
28		Fluoranthene	0.400	0.343	14.2	106	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	99	0.00
30		Pyrene	0.400	0.404	-1.0	105	0.00
31	S	Terphenyl-d14	0.400	0.390	2.5	102	0.00
32		Benzo(a)anthracene	0.400	0.364	9.0	99	0.00
33		Chrysene	0.400	0.377	5.8	101	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.323	19.3	90	0.00
35	I	Perylene-d12	0.400	0.400	0.0	97	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.375	6.3	98	-0.01
37		Benzo(b)fluoranthene	0.400	0.381	4.8	103	0.00
38		Benzo(k)fluoranthene	0.400	0.380	5.0	102	0.00
39	C	Benzo(a)pyrene	0.400	0.350	12.5	96	0.00
40		Dibenzo(a,h)anthracene	0.400	0.373	6.8	98	0.00
41		Benzo(g,h,i)perylene	0.400	0.369	7.8	98	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3645 SAS No.: P3645 SDG No.: P3645

Instrument ID: BNA_N Calibration Date/Time: 08/20/2024 15:51

Lab File ID: BN033507.D Init. Calib. Date(s): 08/19/2024 08/19/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:16 19:53

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.572	0.507		-11.4	20.0
Fluoranthene-d10	0.961	0.788		-18.0	20.0
2-Fluorophenol	1.271	1.002		-21.2	20.0
Phenol-d6	1.512	1.276		-15.6	20.0
Nitrobenzene-d5	0.332	0.279		-16.0	20.0
Naphthalene	1.069	0.968		-9.4	20.0
2-Methylnaphthalene	0.677	0.607		-10.3	20.0
2-Fluorobiphenyl	1.634	1.523		-6.8	20.0
Acenaphthylene	1.754	1.480		-15.6	20.0
Acenaphthene	1.234	1.092		-11.5	20.0
Fluorene	1.555	1.355		-12.9	20.0
2,4,6-Tribromophenol	0.215	0.149		-30.7	20.0
Phenanthrene	1.113	1.029		-7.5	20.0
Anthracene	0.985	0.833		-15.4	20.0
Fluoranthene	1.230	1.036		-15.8	20.0
Pyrene	1.785	1.689		-5.4	20.0
Terphenyl-d14	0.909	0.822		-9.6	20.0
Benzo(a)anthracene	1.446	1.307		-9.6	20.0
Chrysene	1.437	1.359		-5.4	20.0
Benzo(b)fluoranthene	1.494	1.410		-5.6	20.0
Benzo(k)fluoranthene	1.470	1.388		-5.6	20.0
Benzo(a)pyrene	1.236	1.066		-13.8	20.0
Indeno(1,2,3-cd)pyrene	1.661	1.583		-4.7	20.0
Dibenzo(a,h)anthracene	1.328	1.262		-5.0	20.0
Benzo(g,h,i)perylene	1.420	1.318		-7.2	20.0
1,4-Dioxane	0.460	0.411		-10.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082024\
Data File : BN033507.D
Acq On : 20 Aug 2024 15:51
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 20 16:56:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

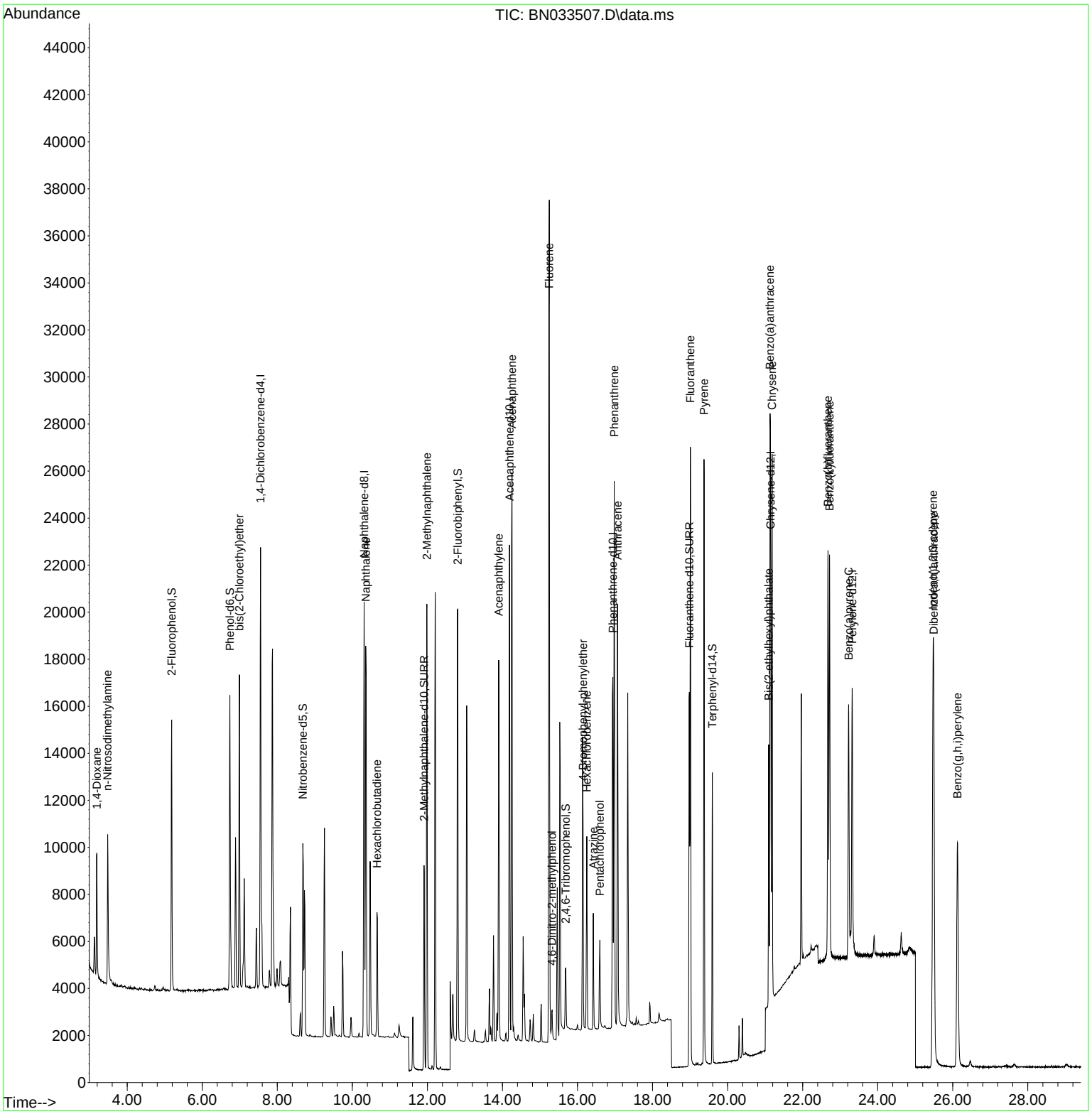
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.552	152	8554	0.400	ng		0.00
7) Naphthalene-d8	10.314	136	22897	0.400	ng	#	0.00
13) Acenaphthene-d10	14.189	164	11496	0.400	ng		0.00
19) Phenanthrene-d10	16.942	188	22430	0.400	ng	#	0.00
29) Chrysene-d12	21.148	240	13701	0.400	ng	#	0.00
35) Perylene-d12	23.317	264	14151	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.183	112	8571	0.315	ng		0.00
5) Phenol-d6	6.736	99	10914	0.337	ng		0.00
8) Nitrobenzene-d5	8.681	82	6385	0.336	ng		-0.01
11) 2-Methylnaphthalene-d10	11.911	152	11605	0.354	ng		0.00
14) 2,4,6-Tribromophenol	15.688	330	1710	0.277	ng		0.00
15) 2-Fluorobiphenyl	12.810	172	17512	0.373	ng		0.00
27) Fluoranthene-d10	18.980	212	17678	0.328	ng		0.00
31) Terphenyl-d14	19.593	244	11258	0.362	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.190	88	3514	0.357	ng		99
3) n-Nitrosodimethylamine	3.479	42	4054	0.354	ng	#	90
6) bis(2-Chloroethyl)ether	6.989	93	8610	0.375	ng		98
9) Naphthalene	10.357	128	22162	0.362	ng		100
10) Hexachlorobutadiene	10.656	225	4487	0.368	ng	#	99
12) 2-Methylnaphthalene	11.986	142	13908	0.359	ng		99
16) Acenaphthylene	13.900	152	17010	0.337	ng		99
17) Acenaphthene	14.253	154	12556	0.354	ng		99
18) Fluorene	15.247	166	15578	0.348	ng		99
20) 4,6-Dinitro-2-methylph...	15.322	198	938	0.268	ng		91
21) 4-Bromophenyl-phenylether	16.147	248	4939	0.363	ng	#	90
22) Hexachlorobenzene	16.247	284	5658	0.376	ng		97
23) Atrazine	16.420	200	3487	0.321	ng		96
24) Pentachlorophenol	16.594	266	1796	0.276	ng		97
25) Phenanthrene	16.979	178	23089	0.370	ng		100
26) Anthracene	17.066	178	18686	0.338	ng		99
28) Fluoranthene	19.007	202	23238	0.337	ng		100
30) Pyrene	19.370	202	23136	0.378	ng		100
32) Benzo(a)anthracene	21.130	228	17904	0.361	ng		100
33) Chrysene	21.184	228	18620	0.378	ng		100
34) Bis(2-ethylhexyl)phtha...	21.095	149	9328	0.297	ng		98
36) Indeno(1,2,3-cd)pyrene	25.475	276	22396	0.381	ng		99
37) Benzo(b)fluoranthene	22.674	252	19952	0.378	ng		98
38) Benzo(k)fluoranthene	22.715	252	19638	0.378	ng		99
39) Benzo(a)pyrene	23.224	252	15088	0.345	ng		99
40) Dibenzo(a,h)anthracene	25.493	278	17860	0.380	ng		98
41) Benzo(g,h,i)perylene	26.124	276	18653	0.371	ng		99

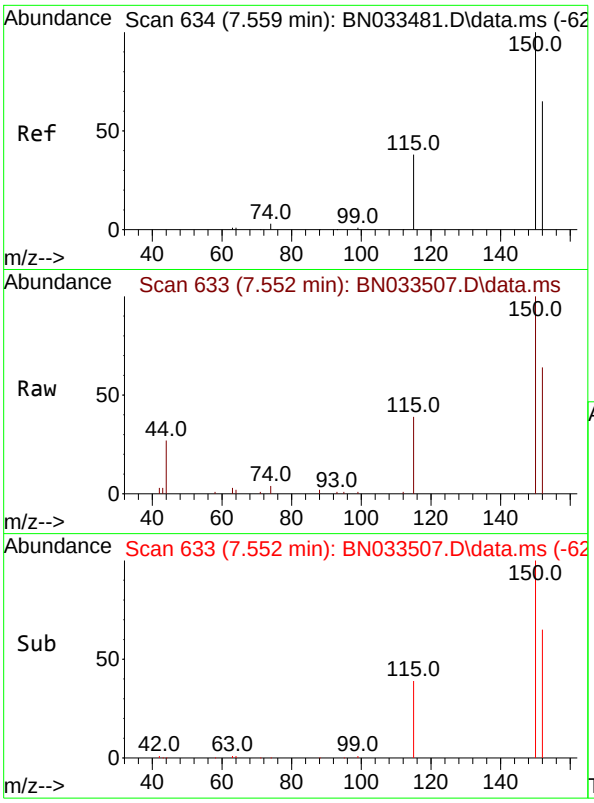
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082024\
Data File : BN033507.D
Acq On : 20 Aug 2024 15:51
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 20 16:56:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration



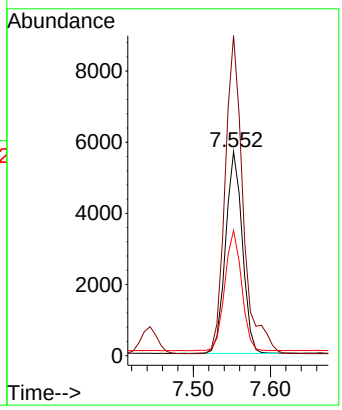


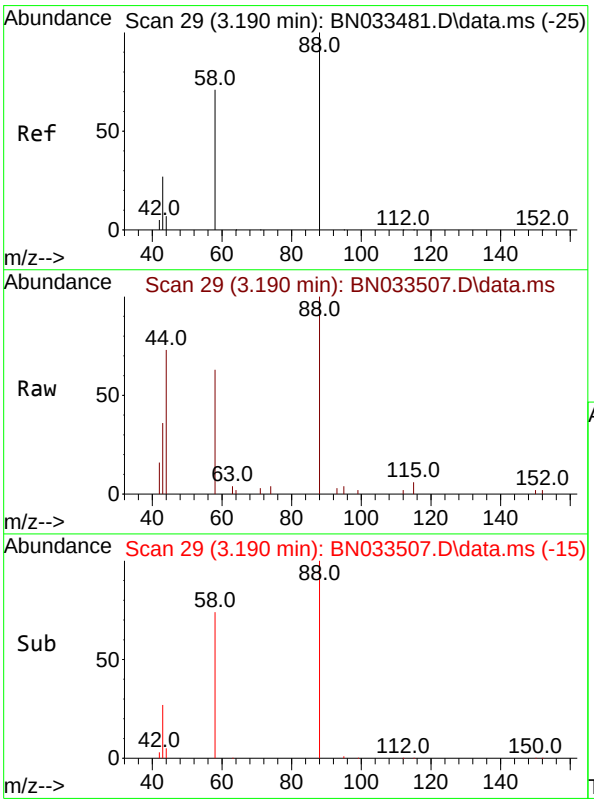
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.552 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 8554

Ion	Ratio	Lower	Upper
152	100		
150	156.9	122.2	183.2
115	61.4	47.2	70.8

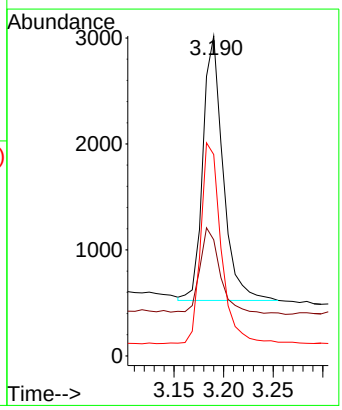


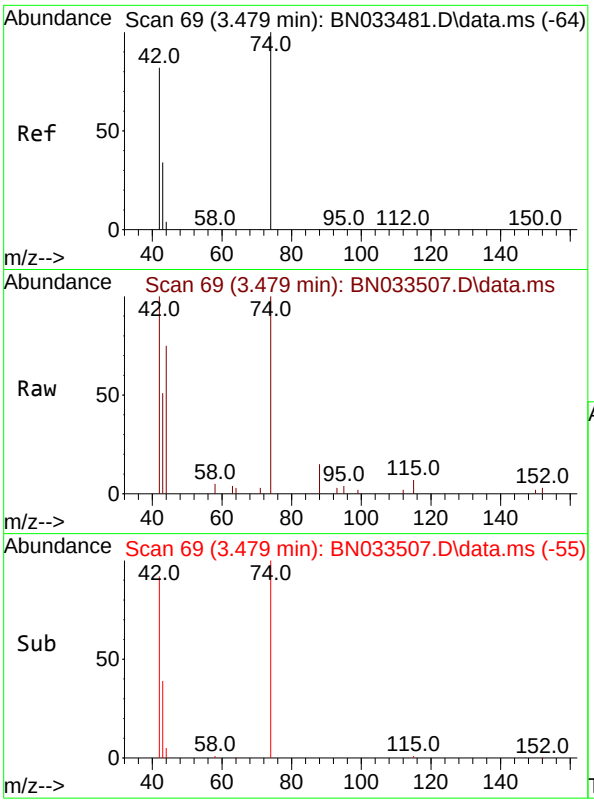


#2
1,4-Dioxane
Concen: 0.357 ng
RT: 3.190 min Scan# 29
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion: 88 Resp: 3514

Ion	Ratio	Lower	Upper
88	100		
43	31.9	25.0	37.4
58	77.6	62.5	93.7



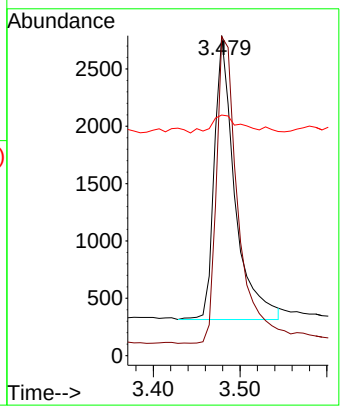


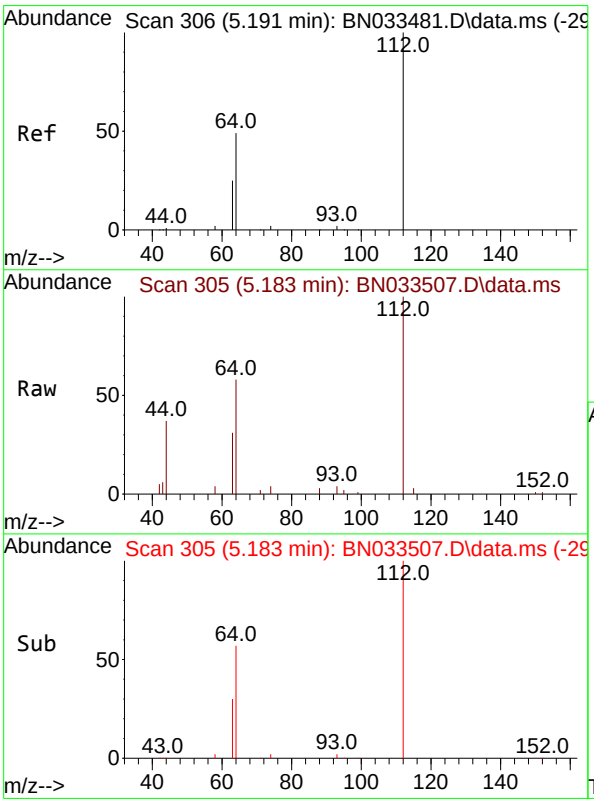
#3
n-Nitrosodimethylamine
Concen: 0.354 ng
RT: 3.479 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 4054

Ion	Ratio	Lower	Upper
42	100		
74	113.9	100.2	150.2
44	8.5	5.3	7.9#

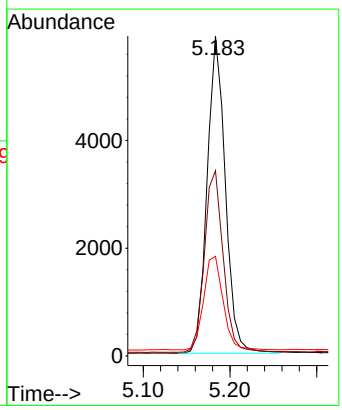


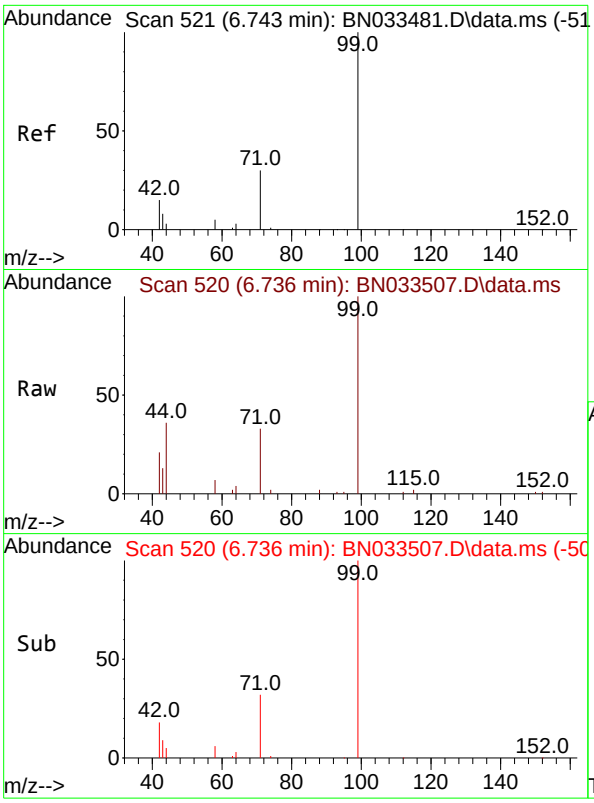


#4
2-Fluorophenol
Concen: 0.315 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.007 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:112 Resp: 8571

Ion	Ratio	Lower	Upper
112	100		
64	59.3	47.1	70.7
63	31.5	24.9	37.3



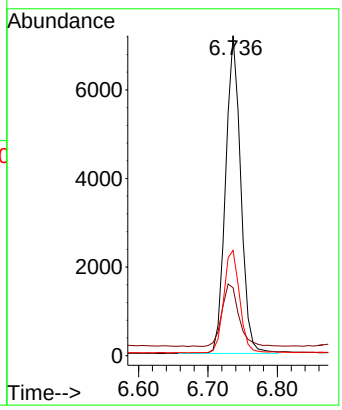


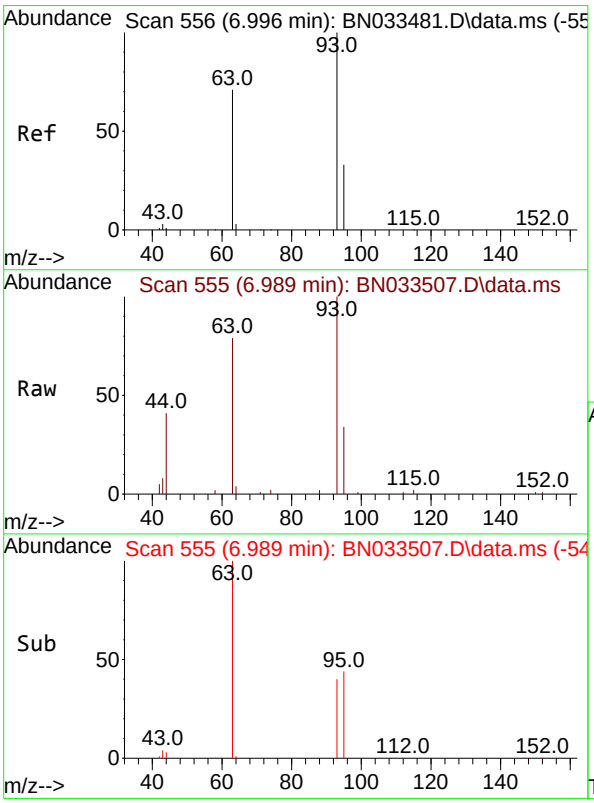
#5
Phenol-d6
Concen: 0.337 ng
RT: 6.736 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 10914

Ion	Ratio	Lower	Upper
99	100		
42	22.0	16.6	24.8
71	33.7	26.2	39.4

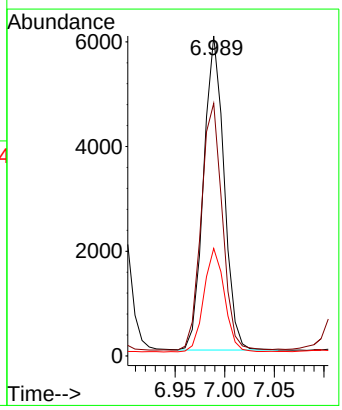


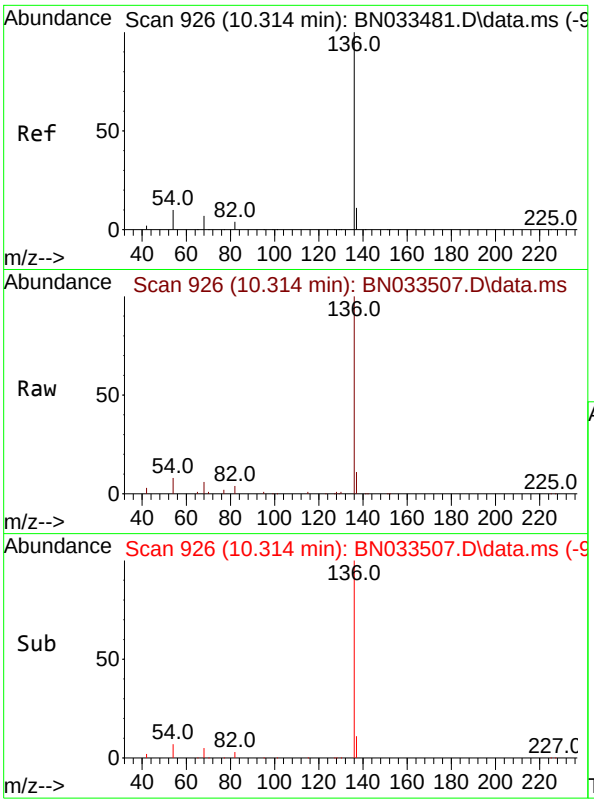


#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion: 93 Resp: 8610

Ion	Ratio	Lower	Upper
93	100		
63	81.1	63.0	94.4
95	33.2	26.0	39.0



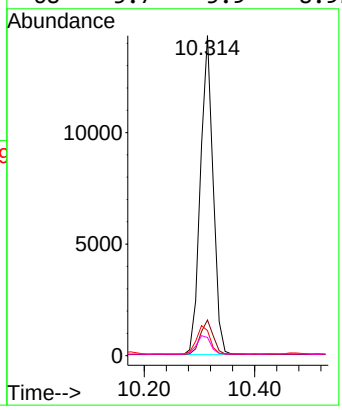


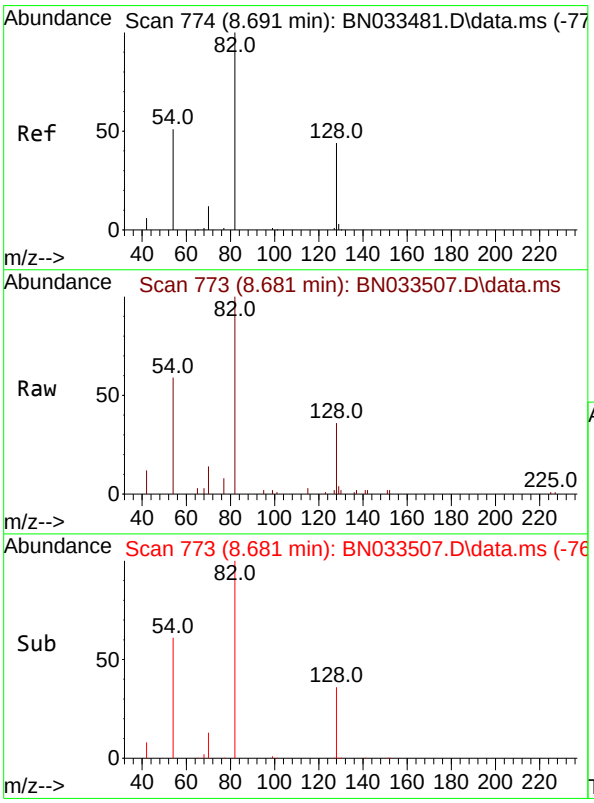
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 22897

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.6
54	7.8	8.3	12.5#
68	5.7	5.9	8.9#

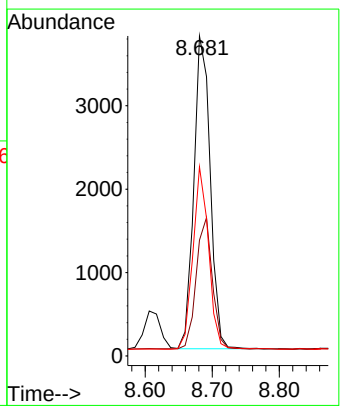


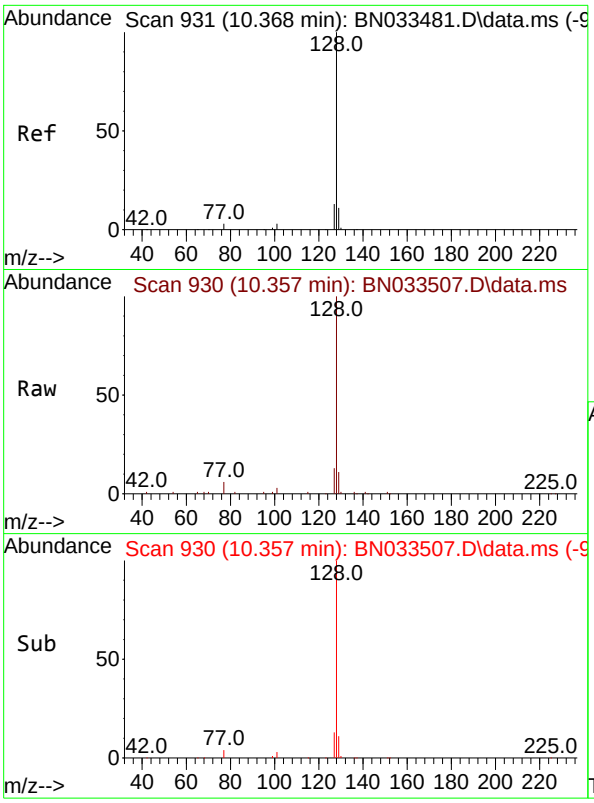


#8
Nitrobenzene-d5
Concen: 0.336 ng
RT: 8.681 min Scan# 773
Delta R.T. -0.011 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion: 82 Resp: 6385

Ion	Ratio	Lower	Upper
82	100		
128	36.2	36.0	54.0
54	59.1	42.0	63.0



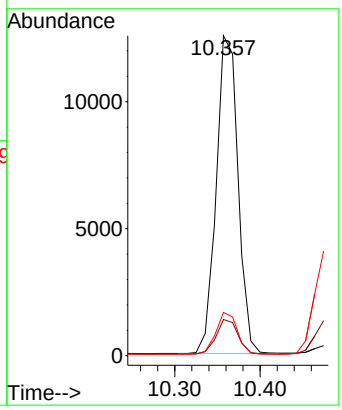


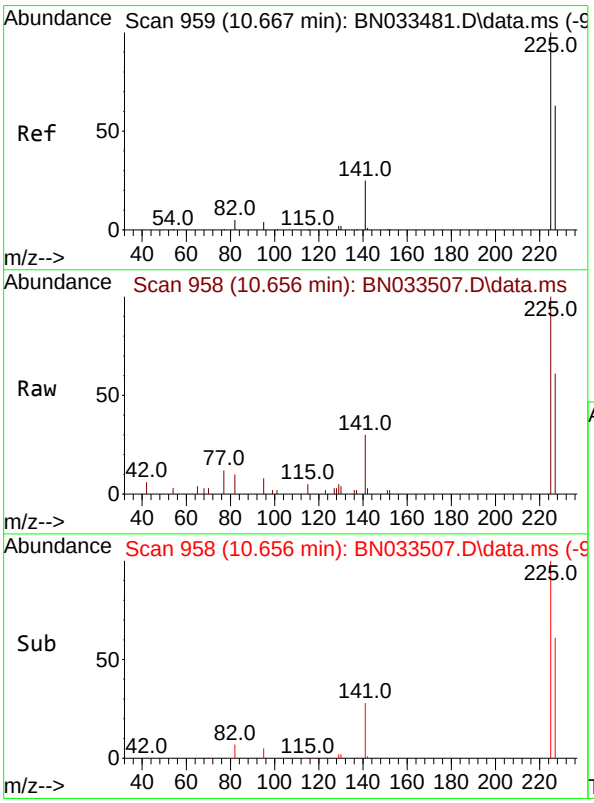
#9
Naphthalene
Concen: 0.362 ng
RT: 10.357 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 22162

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.1	13.7
127	13.5	10.7	16.1

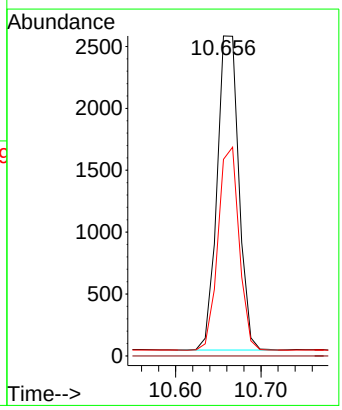


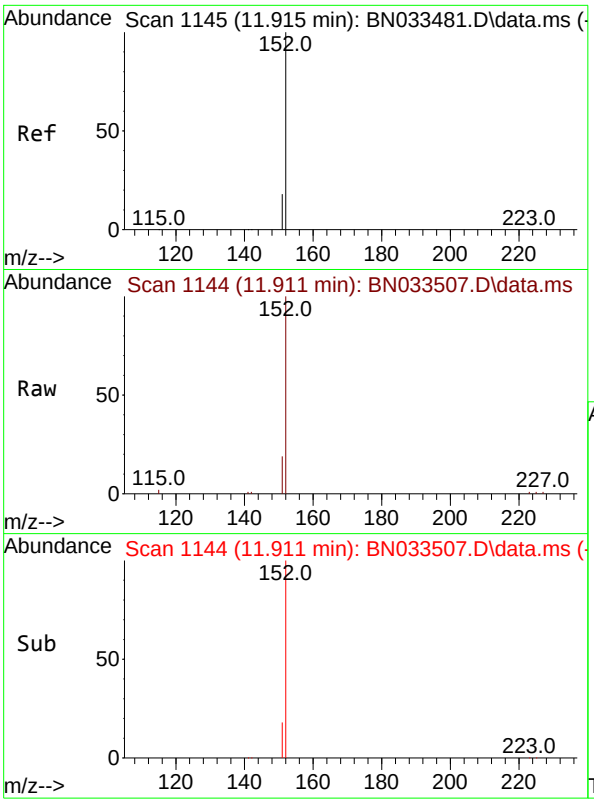


#10
Hexachlorobutadiene
Concen: 0.368 ng
RT: 10.656 min Scan# 958
Delta R.T. -0.011 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:225 Resp: 4487

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	51.2	76.8



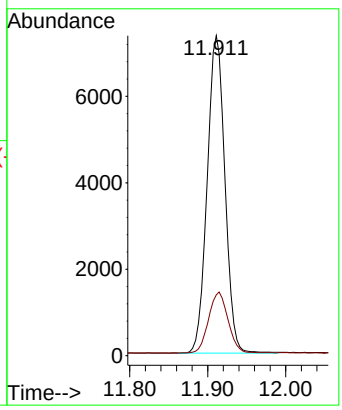


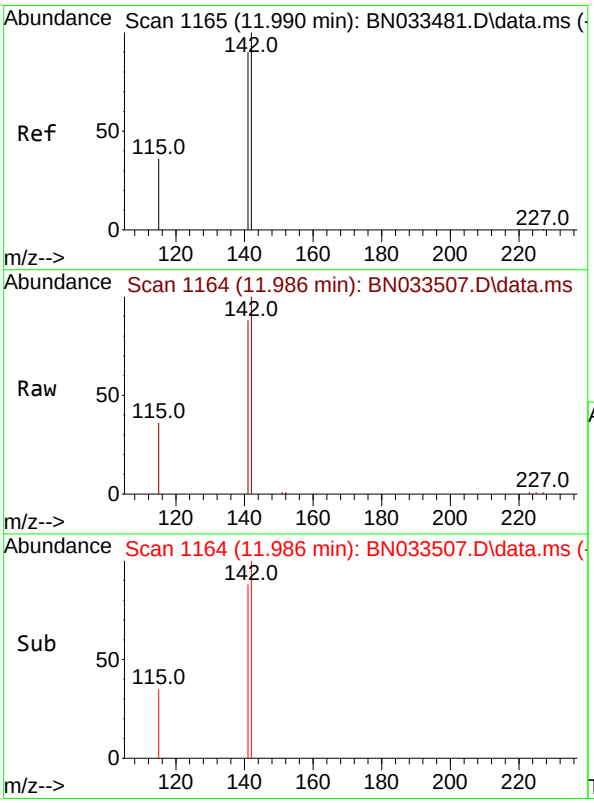
#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 11.911 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 11605

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0

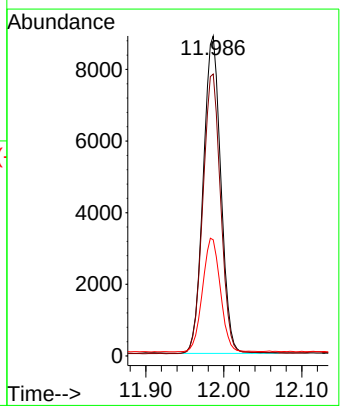


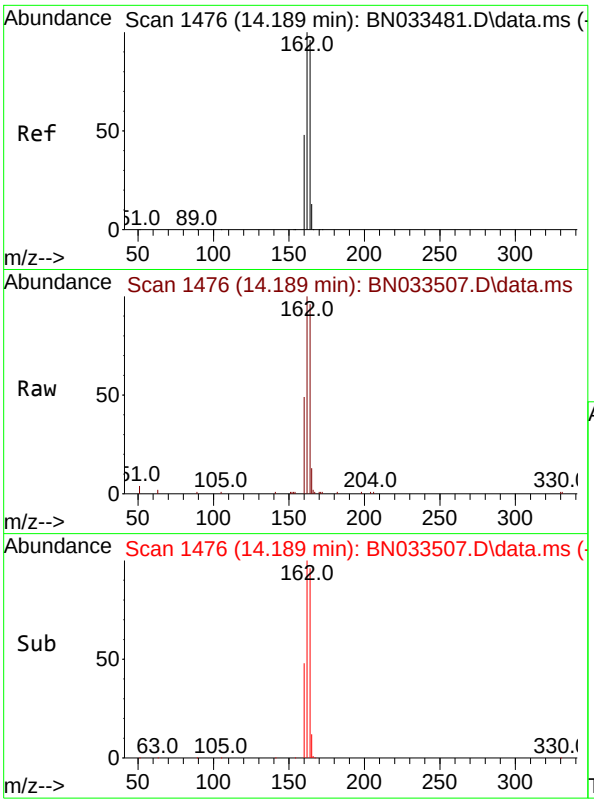


#12
2-Methylnaphthalene
Concen: 0.359 ng
RT: 11.986 min Scan# 1164
Delta R.T. -0.004 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:142 Resp: 13908

Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.7	107.5
115	36.3	29.4	44.2



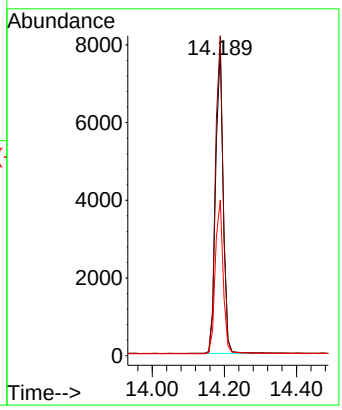


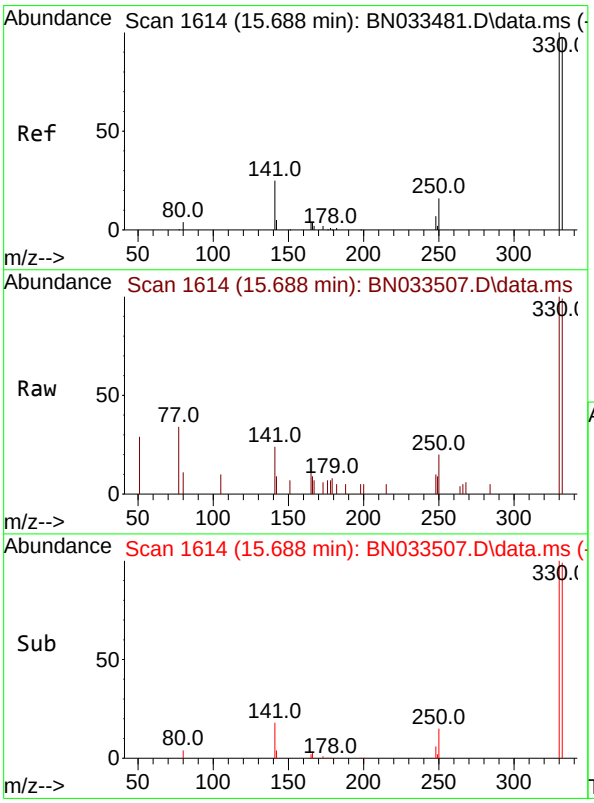
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 11496

Ion	Ratio	Lower	Upper
164	100		
162	104.4	83.5	125.3
160	50.7	40.2	60.4

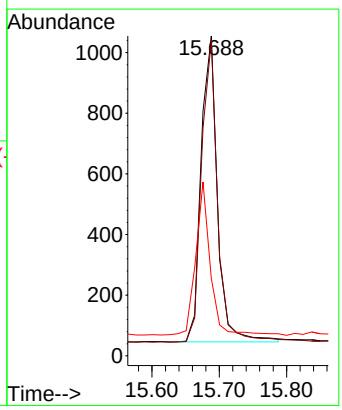


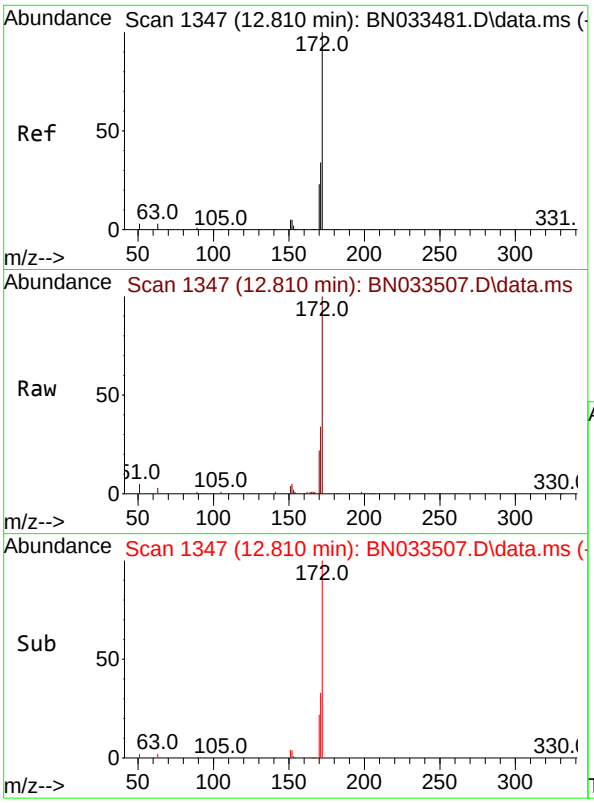


#14
2,4,6-Tribromophenol
Concen: 0.277 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:330 Resp: 1710

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.5	116.3
141	43.9	33.9	50.9



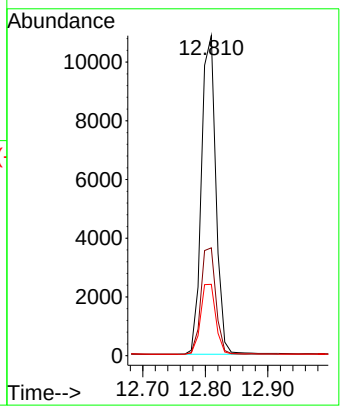


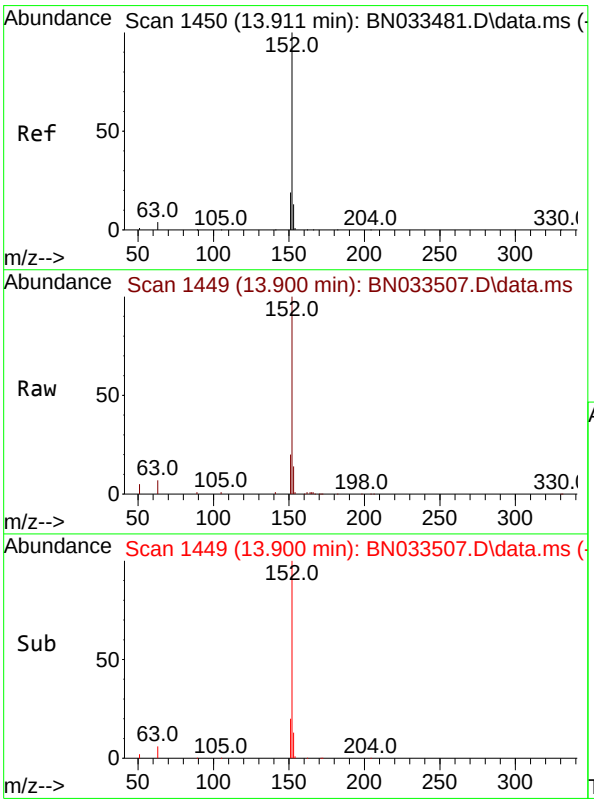
#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 12.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 17512

Ion	Ratio	Lower	Upper
172	100		
171	33.7	27.7	41.5
170	22.3	18.3	27.5

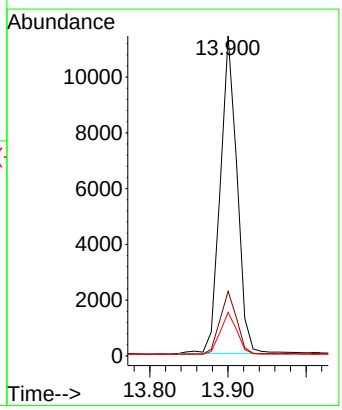


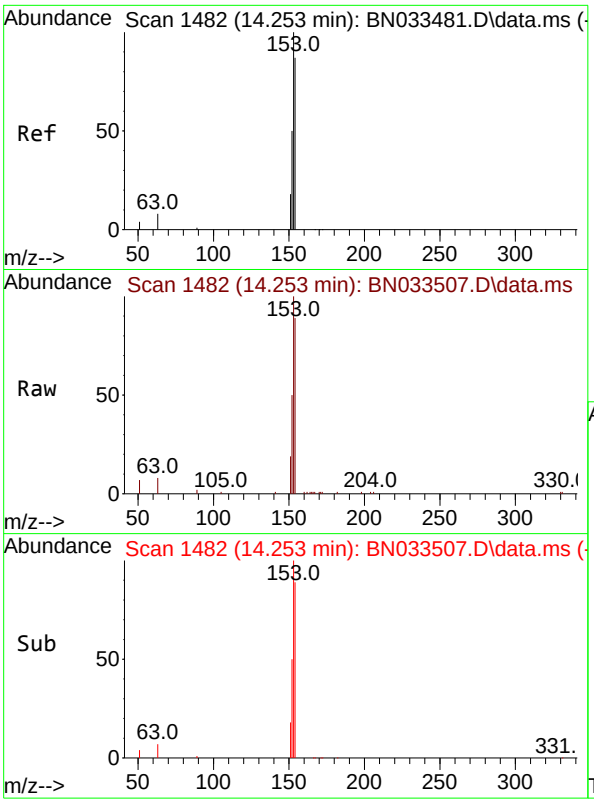


#16
Acenaphthylene
Concen: 0.337 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:152 Resp: 17010

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.7	23.5
153	13.3	10.3	15.5



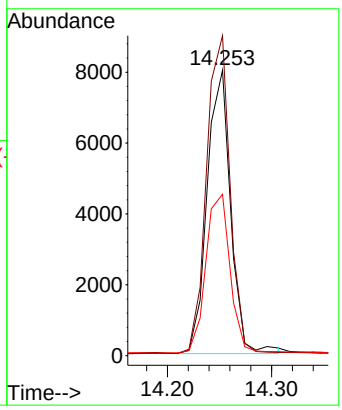


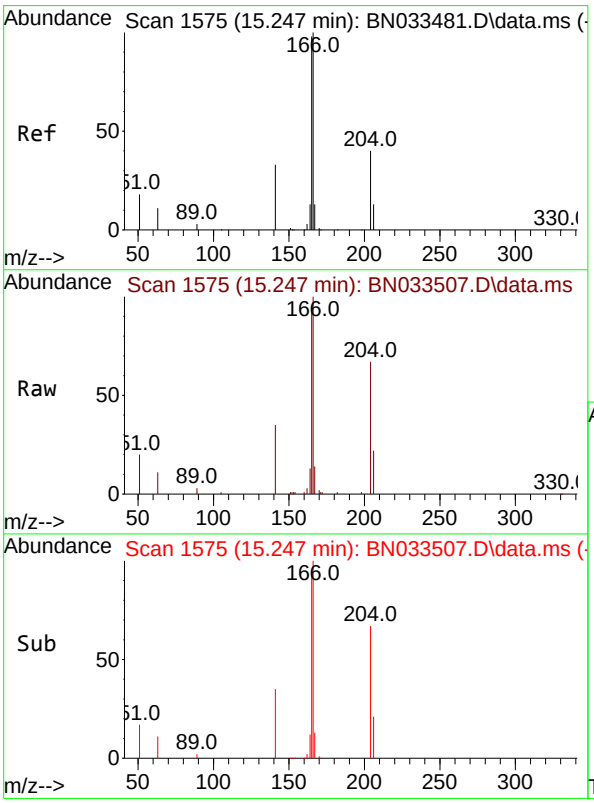
#17
Acenaphthene
Concen: 0.354 ng
RT: 14.253 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 12556

Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.0	133.6
152	57.7	45.2	67.8

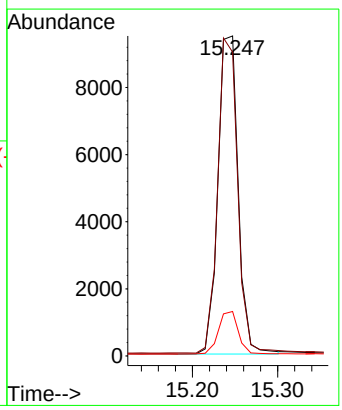


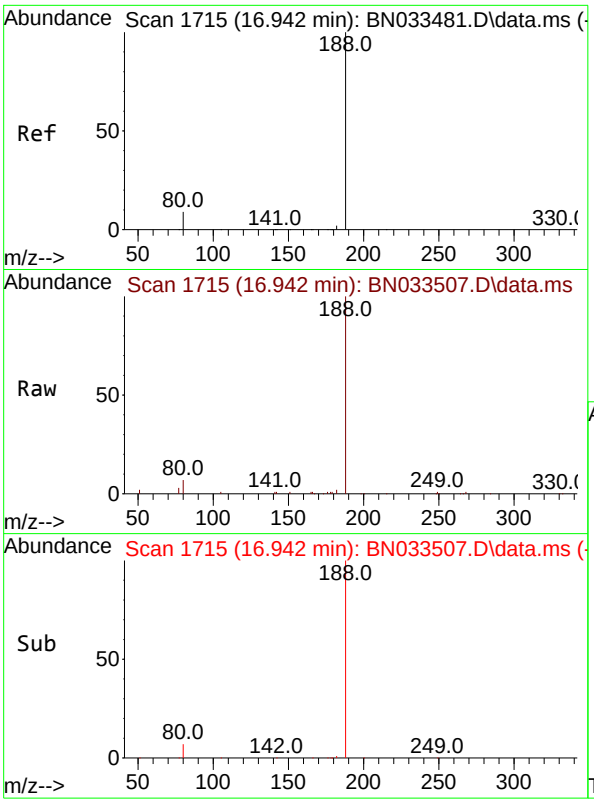


#18
Fluorene
Concen: 0.348 ng
RT: 15.247 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:166 Resp: 15578

Ion	Ratio	Lower	Upper
166	100		
165	97.2	78.2	117.4
167	13.2	10.6	16.0



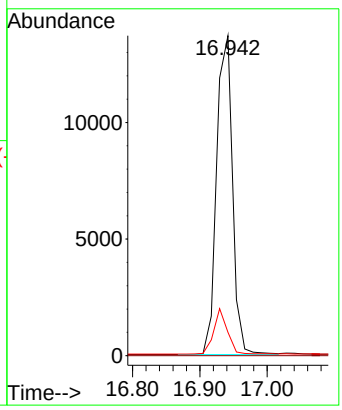


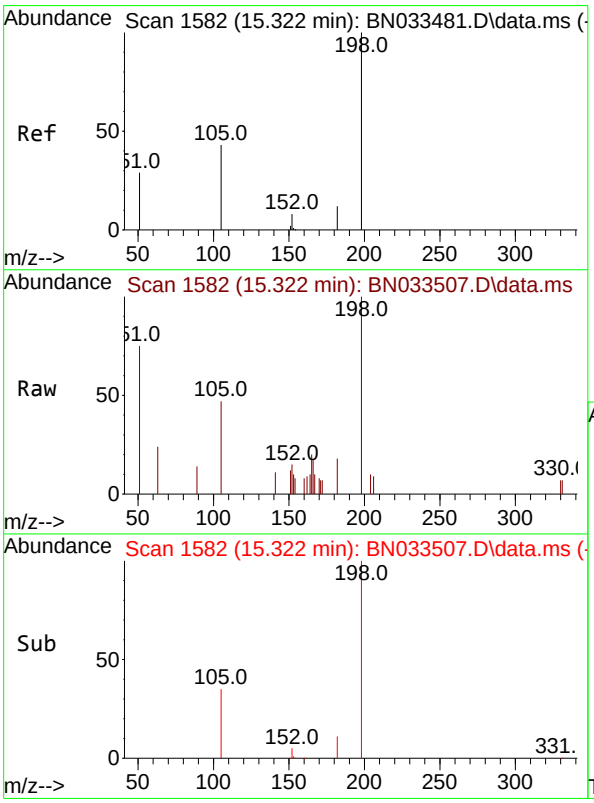
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 22430

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.3	7.8	11.8#

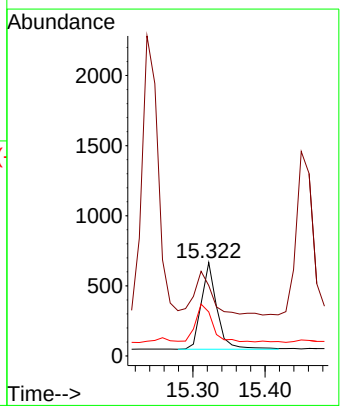


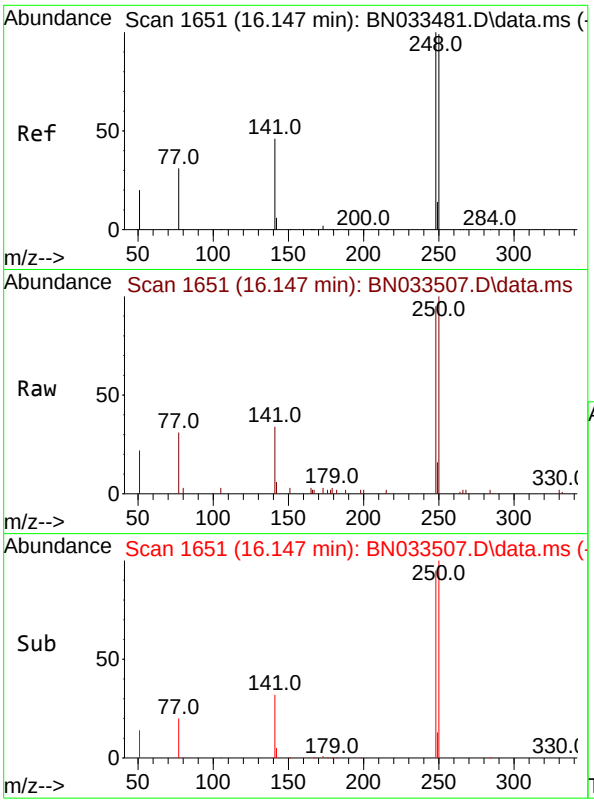


#20
4,6-Dinitro-2-methylphenol
Concen: 0.268 ng
RT: 15.322 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:198 Resp: 938

Ion	Ratio	Lower	Upper
198	100		
51	75.3	65.1	97.7
105	47.1	44.8	67.2



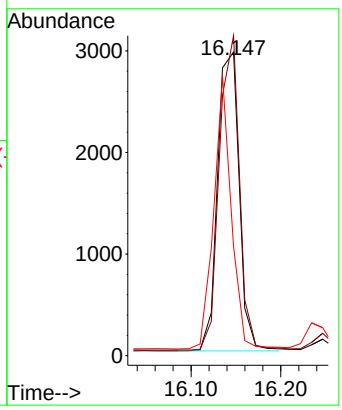


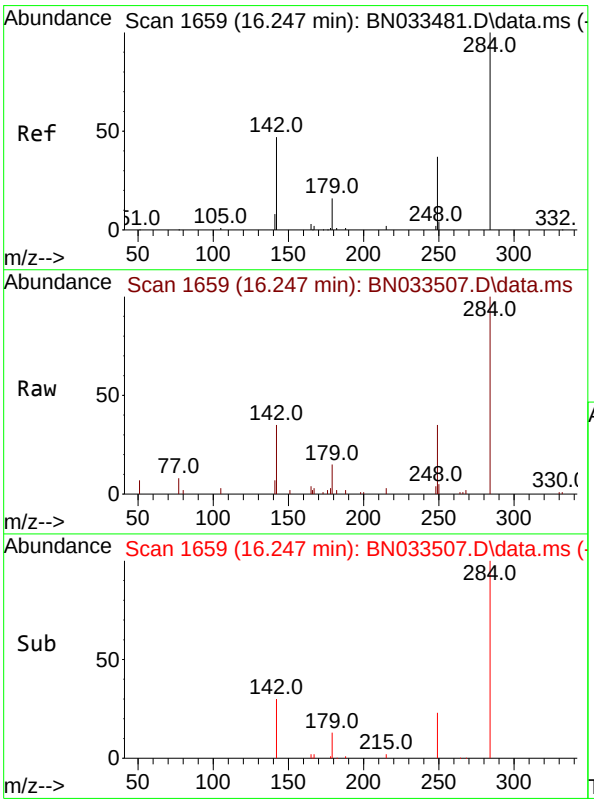
#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 4939

Ion	Ratio	Lower	Upper
248	100		
250	105.4	79.2	118.8
141	35.9	37.9	56.9#

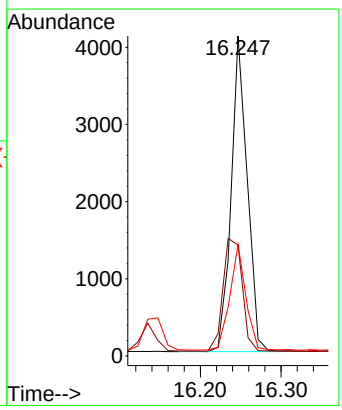


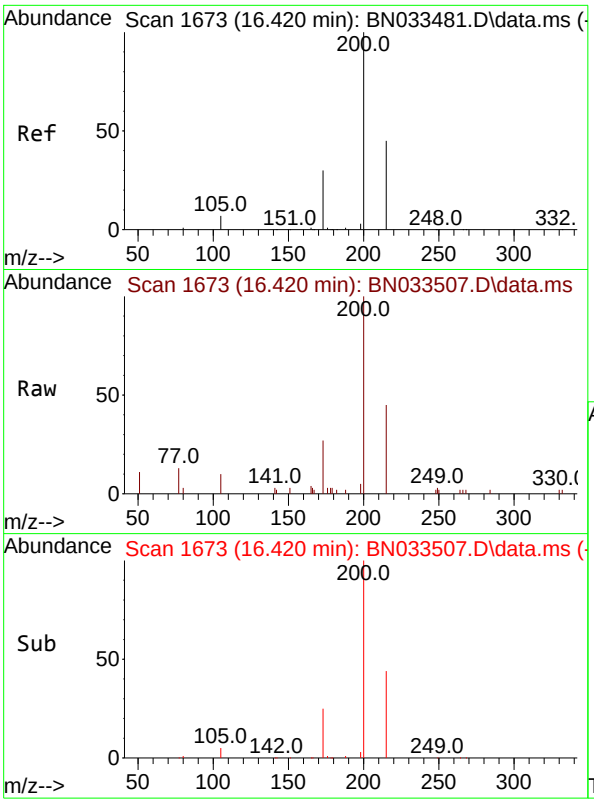


#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:284 Resp: 5658

Ion	Ratio	Lower	Upper
284	100		
142	42.8	31.8	47.6
249	32.9	26.0	39.0



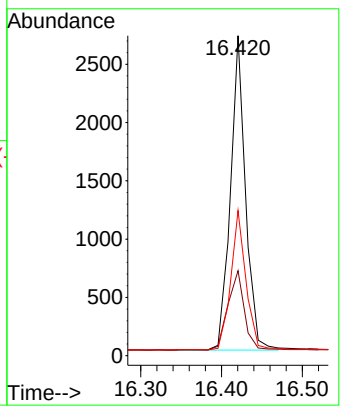


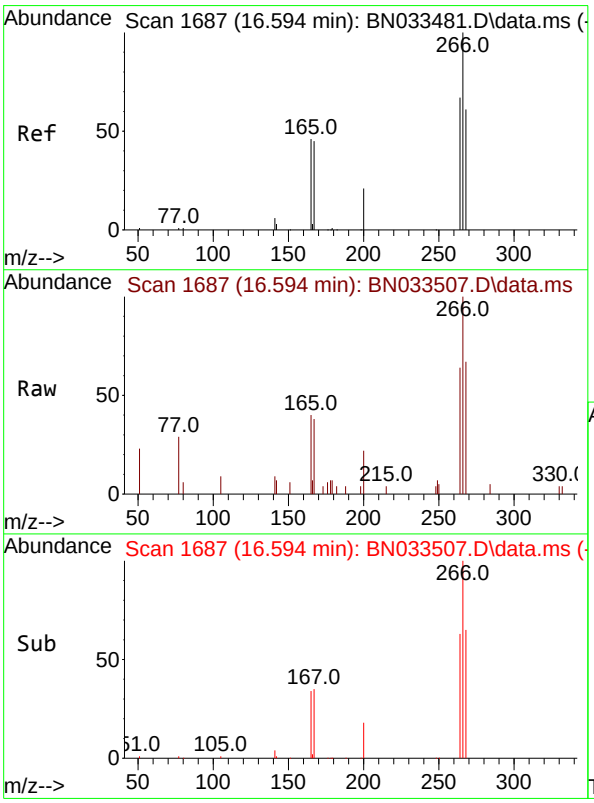
#23
Atrazine
Concen: 0.321 ng
RT: 16.420 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 3487

Ion	Ratio	Lower	Upper
200	100		
173	26.6	25.3	37.9
215	45.4	36.6	54.8

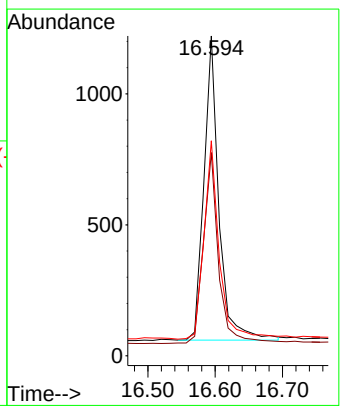


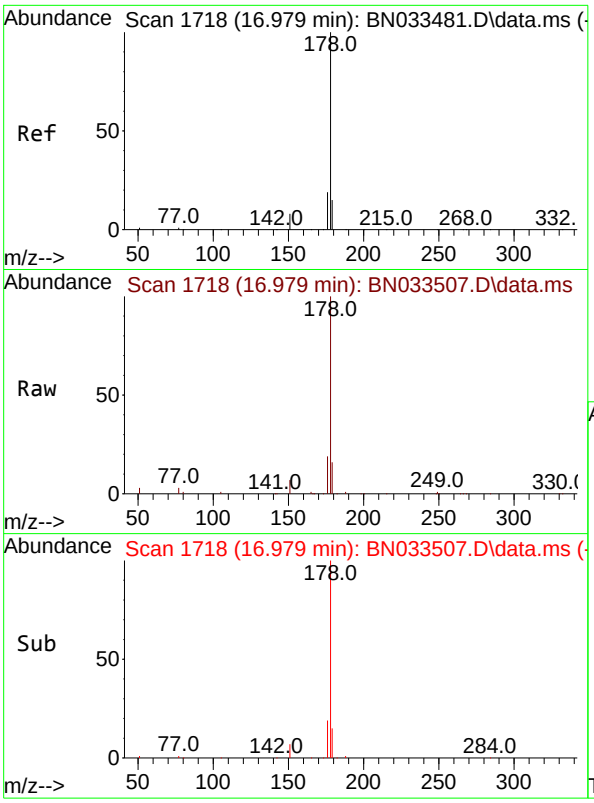


#24
Pentachlorophenol
Concen: 0.276 ng
RT: 16.594 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:266 Resp: 1796

Ion	Ratio	Lower	Upper
266	100		
264	63.4	51.9	77.9
268	66.6	51.0	76.4



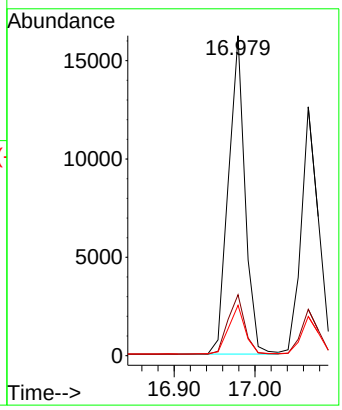


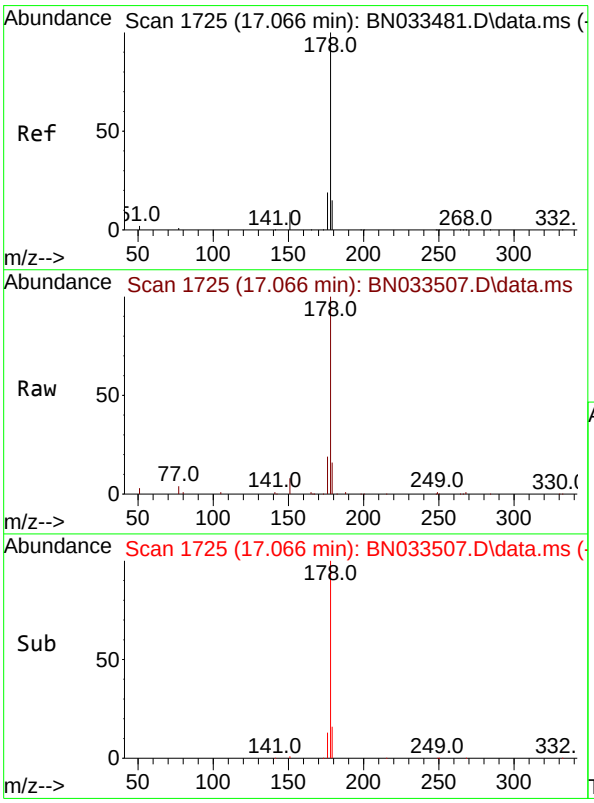
#25
Phenanthrene
Concen: 0.370 ng
RT: 16.979 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 23089

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.4	12.3	18.5

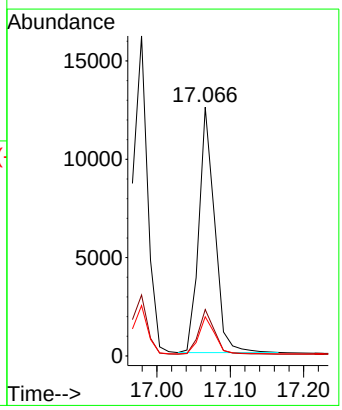


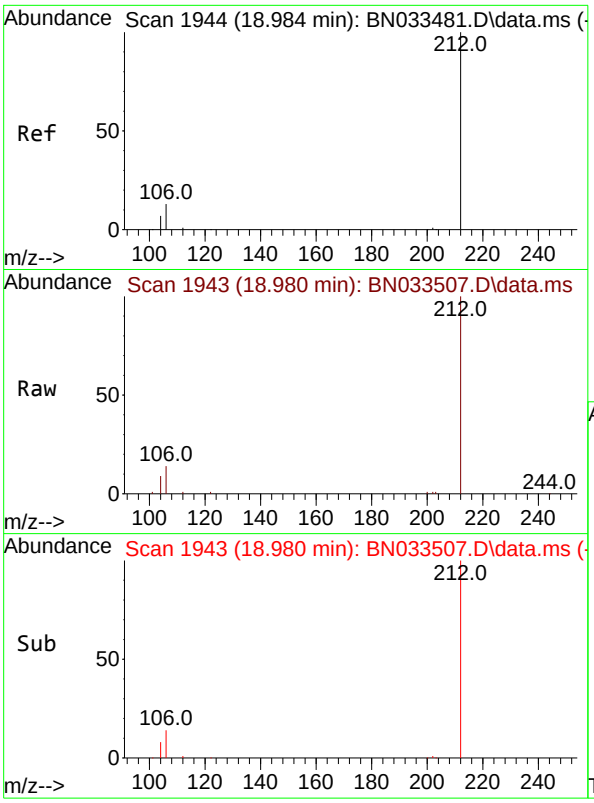


#26
Anthracene
Concen: 0.338 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:178 Resp: 18686

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.6
179	15.5	12.4	18.6



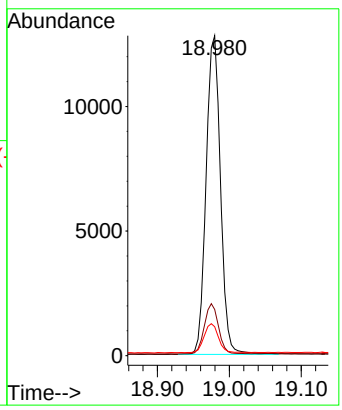


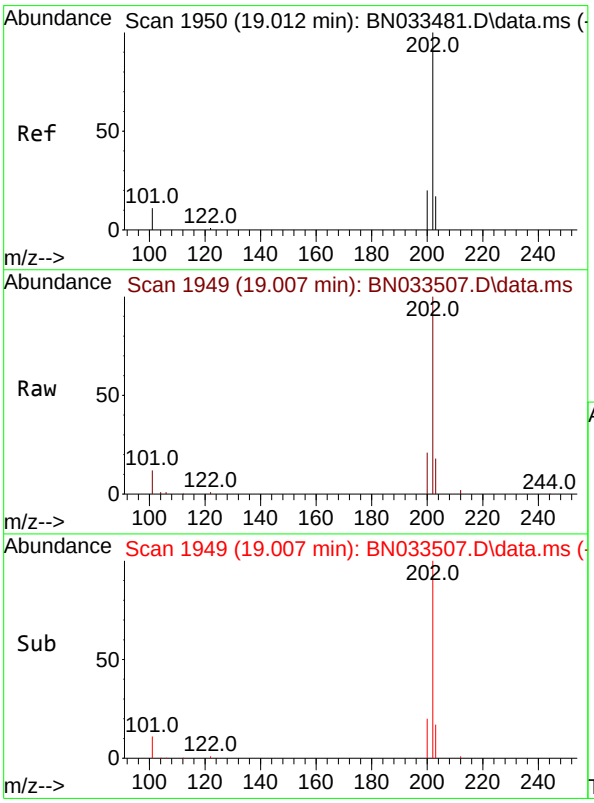
#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 18.980 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 17678

Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.3	18.5
104	9.2	7.0	10.4

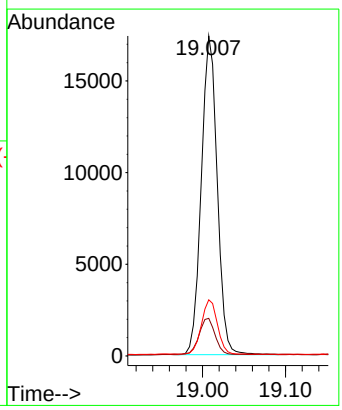


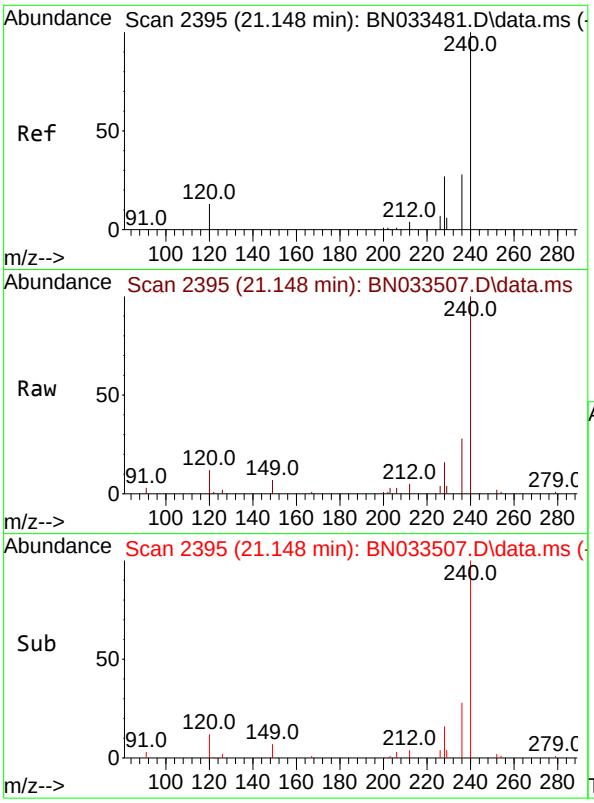


#28
Fluoranthene
Concen: 0.337 ng
RT: 19.007 min Scan# 1949
Delta R.T. -0.005 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:202 Resp: 23238

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.5	14.3
203	17.2	13.8	20.6



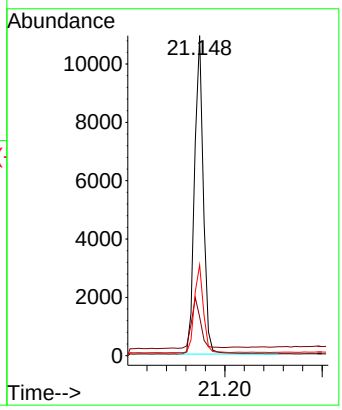


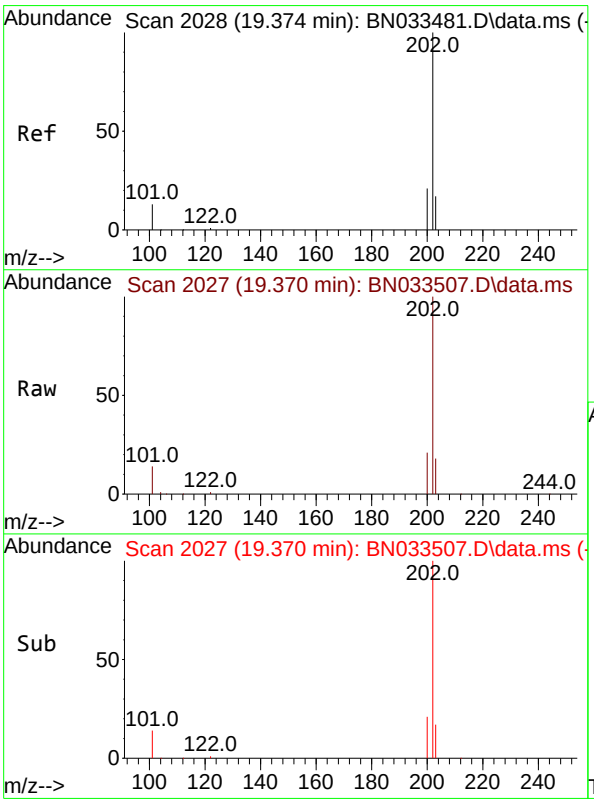
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 13701

Ion	Ratio	Lower	Upper
240	100		
120	12.1	12.4	18.6#
236	28.4	23.0	34.6

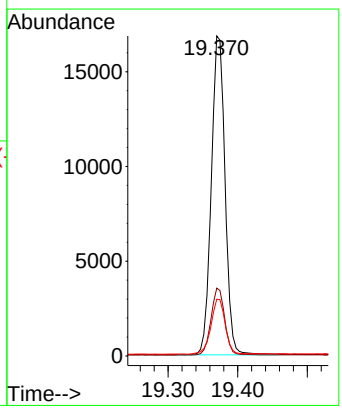


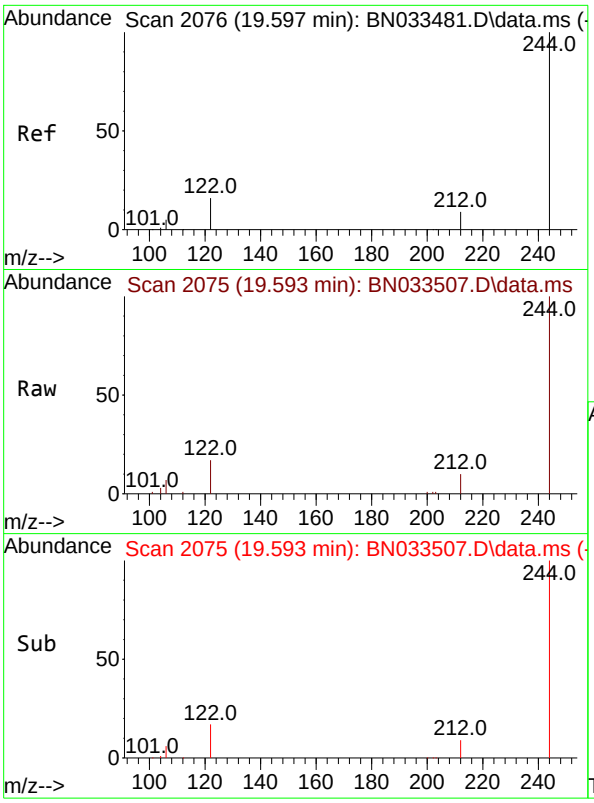


#30
Pyrene
Concen: 0.378 ng
RT: 19.370 min Scan# 2027
Delta R.T. -0.005 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:202 Resp: 23136

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	24.8
203	17.8	14.2	21.4



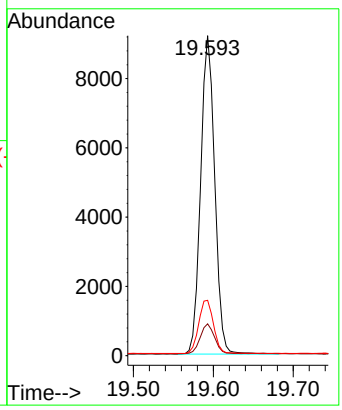


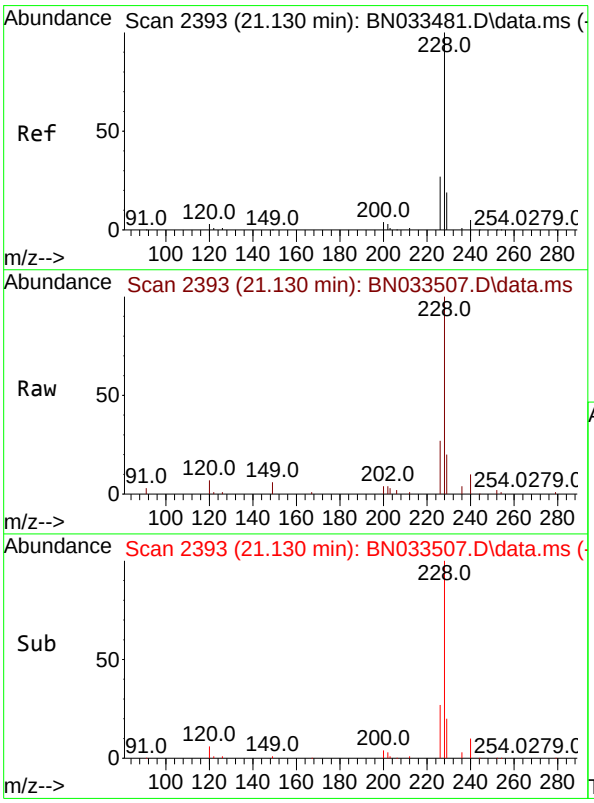
#31
Terphenyl-d14
Concen: 0.362 ng
RT: 19.593 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 11258

Ion	Ratio	Lower	Upper
244	100		
212	9.9	7.8	11.6
122	17.3	13.3	19.9

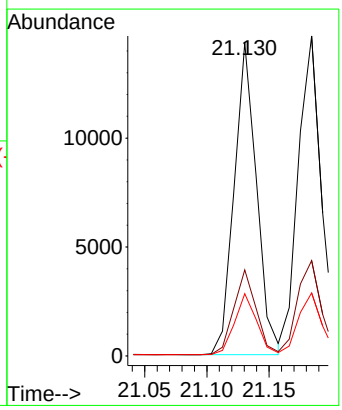


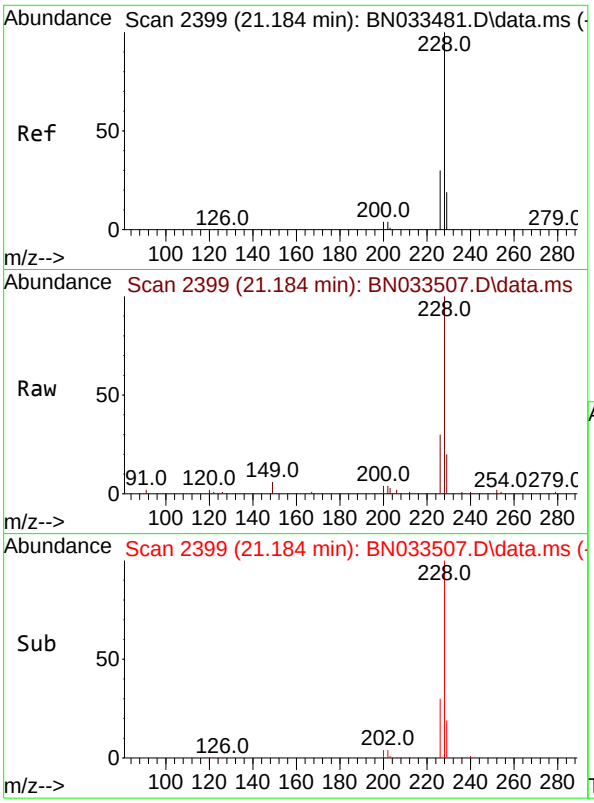


#32
Benzo(a)anthracene
Concen: 0.361 ng
RT: 21.130 min Scan# 2393
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:228 Resp: 17904

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.8	32.6
229	19.8	15.8	23.6



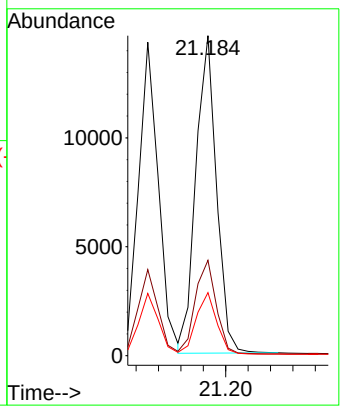


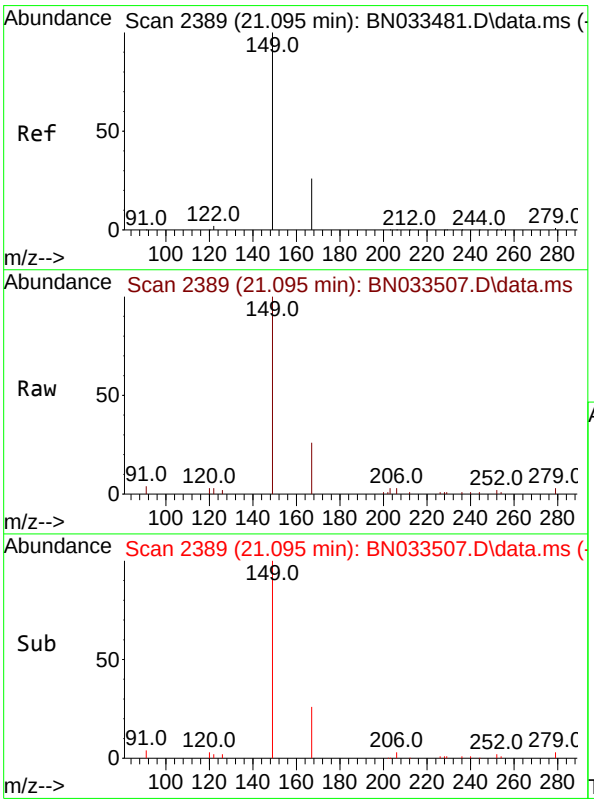
#33
Chrysene
Concen: 0.378 ng
RT: 21.184 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 18620

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.8
229	19.7	15.6	23.4

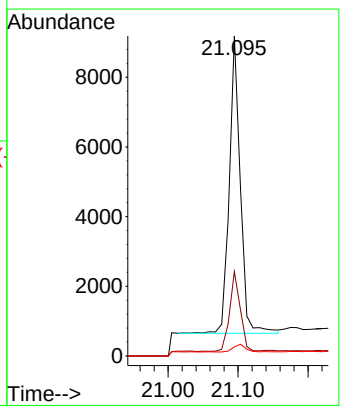


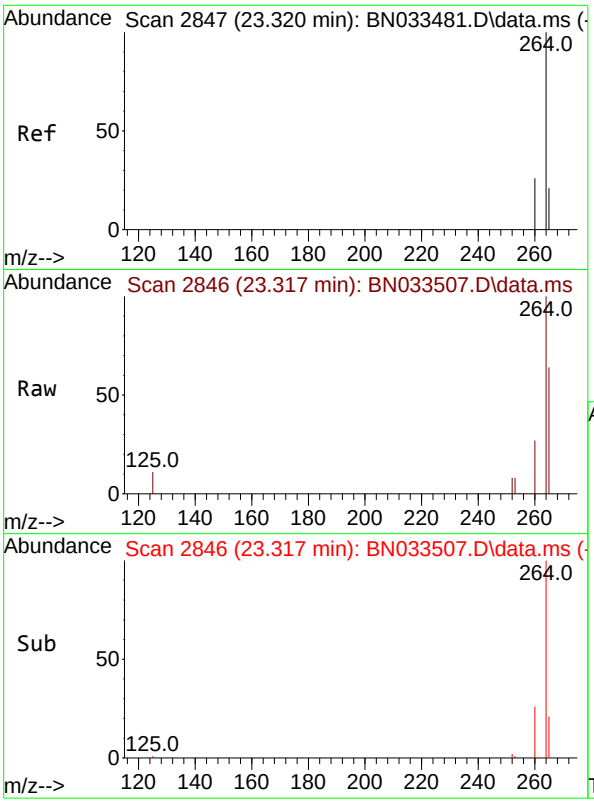


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.297 ng
RT: 21.095 min Scan# 2389
Delta R.T. 0.000 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:149 Resp: 9328

Ion	Ratio	Lower	Upper
149	100		
167	25.7	21.5	32.3
279	3.0	2.2	3.2



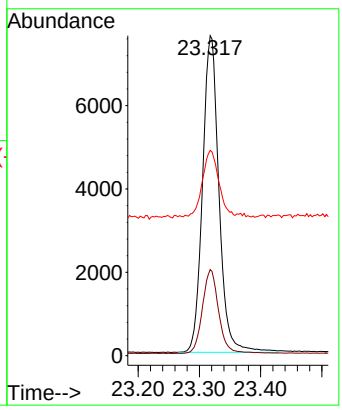


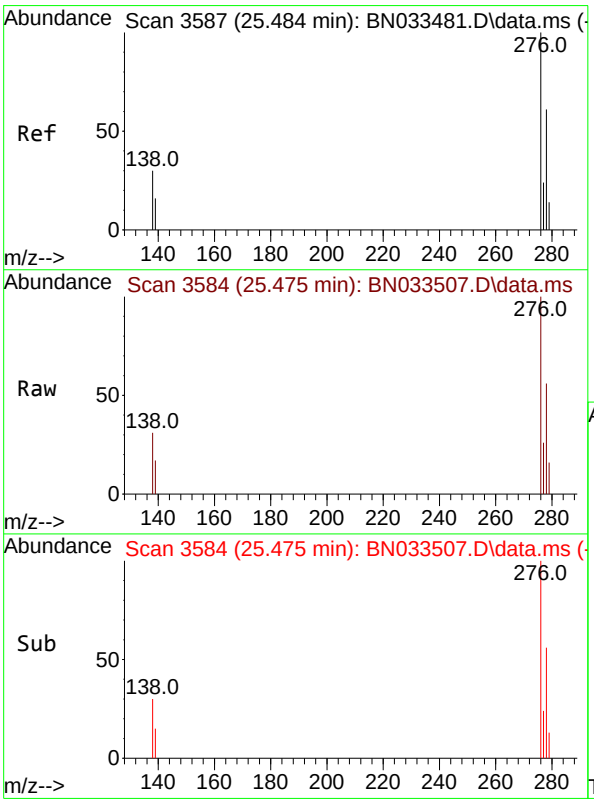
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 14151

Ion	Ratio	Lower	Upper
264	100		
260	26.9	20.8	31.2
265	64.2	52.2	78.2

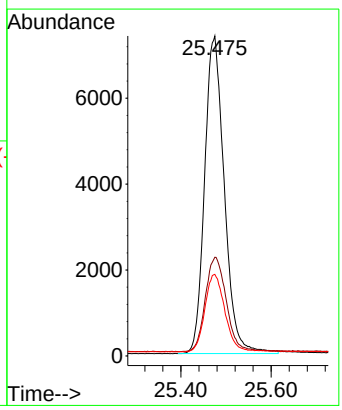


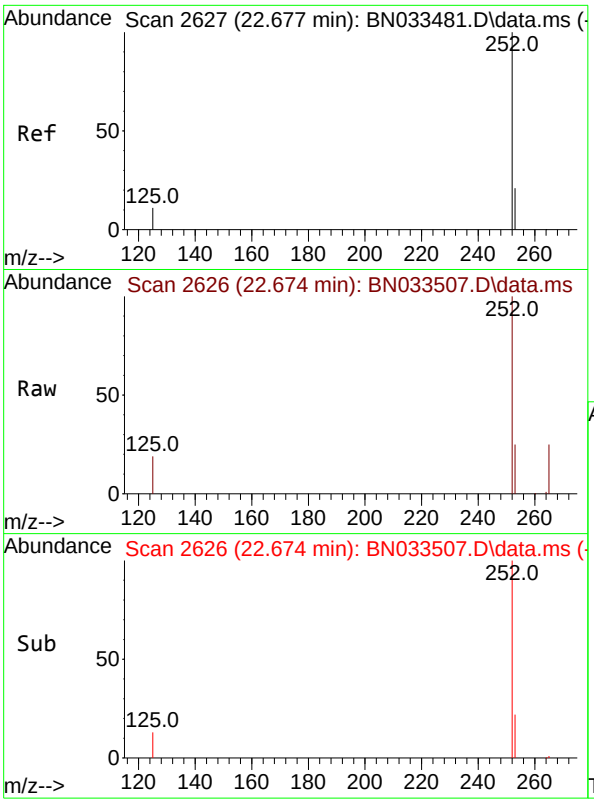


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.381 ng
RT: 25.475 min Scan# 3584
Delta R.T. -0.009 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:276 Resp: 22396

Ion	Ratio	Lower	Upper
276	100		
138	31.7	24.4	36.6
277	24.7	19.8	29.6



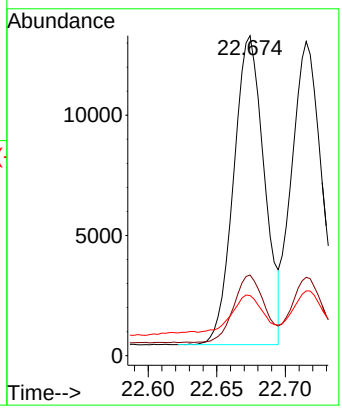


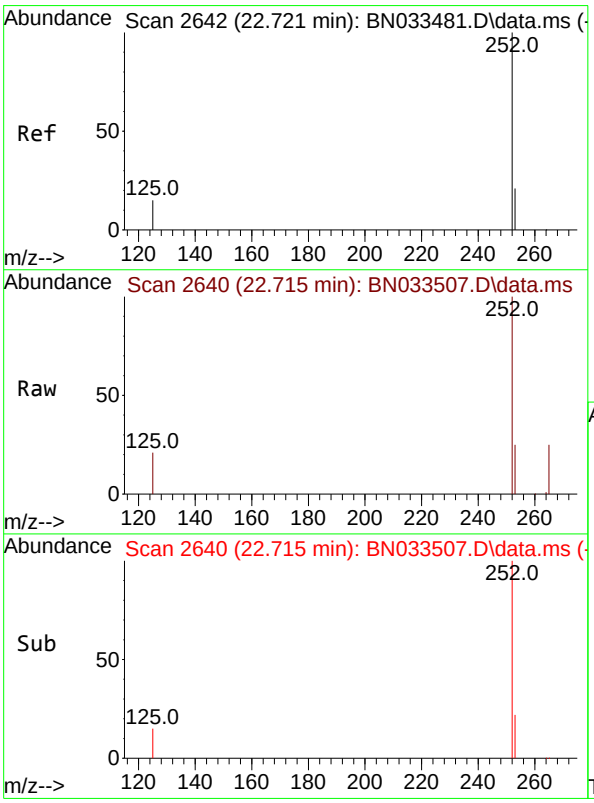
#37
Benzo(b)fluoranthene
Concen: 0.378 ng
RT: 22.674 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 19952

Ion	Ratio	Lower	Upper
252	100		
253	25.2	19.8	29.8
125	18.8	13.9	20.9

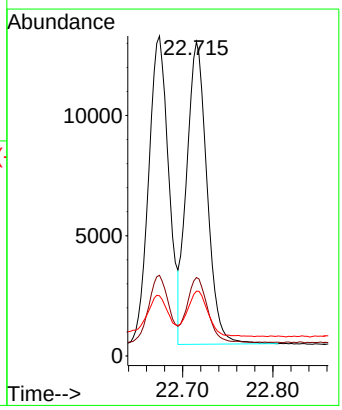


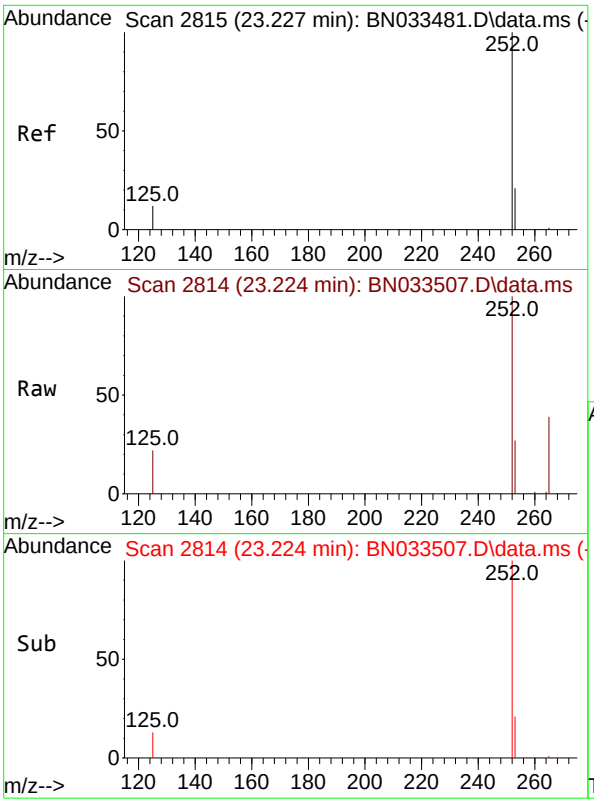


#38
Benzo(k)fluoranthene
Concen: 0.378 ng
RT: 22.715 min Scan# 2640
Delta R.T. -0.006 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:252 Resp: 19638

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.8	29.8
125	20.6	15.8	23.8



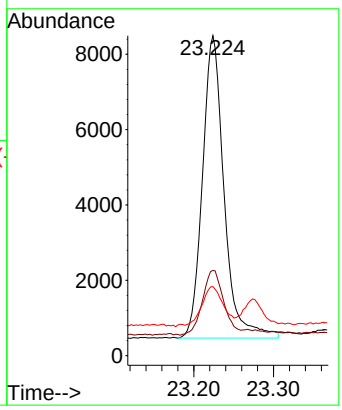


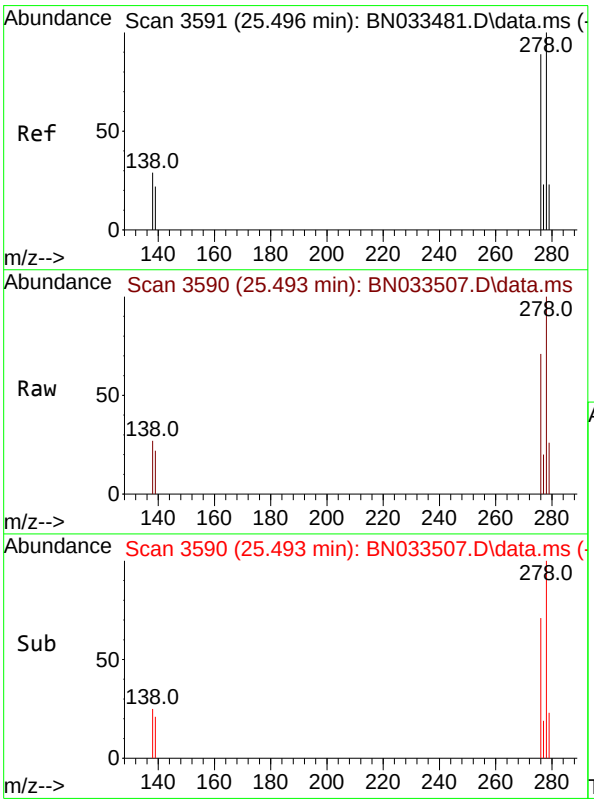
#39
Benzo(a)pyrene
Concen: 0.345 ng
RT: 23.224 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 15088

Ion	Ratio	Lower	Upper
252	100		
253	26.6	21.5	32.3
125	21.6	17.0	25.4

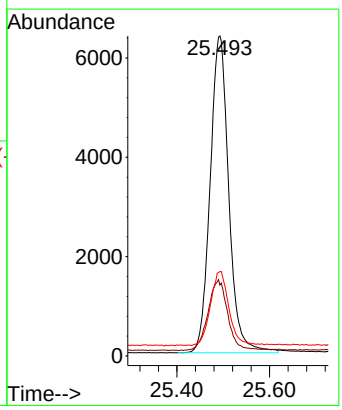


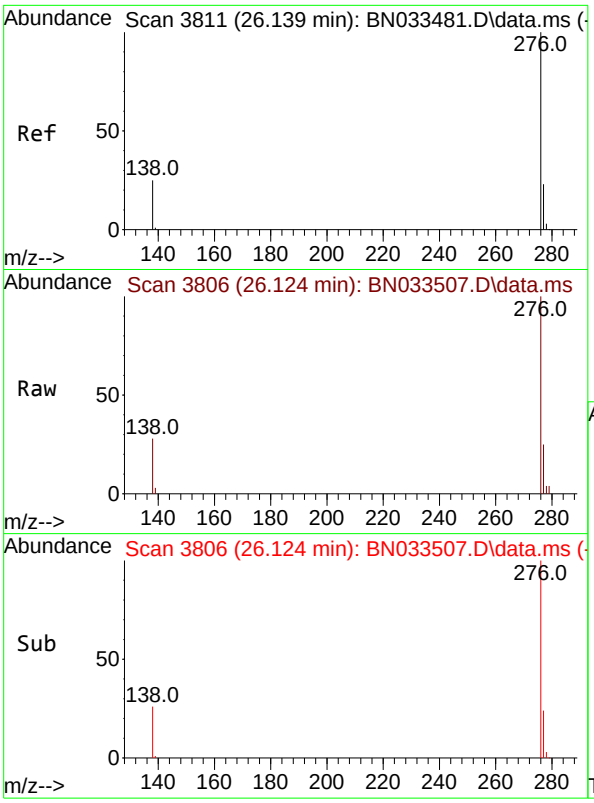


#40
Dibenzo(a,h)anthracene
Concen: 0.380 ng
RT: 25.493 min Scan# 3590
Delta R.T. -0.003 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Tgt Ion:278 Resp: 17860

Ion	Ratio	Lower	Upper
278	100		
139	22.2	19.1	28.7
279	26.4	21.0	31.4



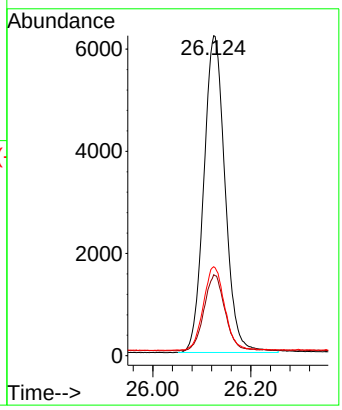


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 26.124 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN033507.D
Acq: 20 Aug 2024 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 18653

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.7	29.5
138	27.8	21.8	32.6



Sample Results: **BN033507.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082024\
Data File : BN033507.D
Acq On : 20 Aug 2024 15:51
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 20 16:56:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	66	0.00
2		1,4-Dioxane	0.460	0.411	10.7	83	0.00
3		n-Nitrosodimethylamine	0.535	0.474	11.4	69	0.00
4	S	2-Fluorophenol	1.271	1.002	21.2	52	0.00
5	S	Phenol-d6	1.512	1.276	15.6	62	0.00
6		bis(2-Chloroethyl)ether	1.072	1.007	6.1	89	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	94	0.00
8	S	Nitrobenzene-d5	0.332	0.279	16.0	86	-0.01
9		Naphthalene	1.069	0.968	9.4	96	-0.01
10		Hexachlorobutadiene	0.213	0.196	8.0	96	-0.01
11	SURR	2-Methylnaphthalene-d10	0.572	0.507	11.4	97	0.00
12		2-Methylnaphthalene	0.677	0.607	10.3	97	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00
14	S	2,4,6-Tribromophenol	0.215	0.149	30.7#	77	0.00
15	S	2-Fluorobiphenyl	1.634	1.523	6.8	98	0.00
16		Acenaphthylene	1.754	1.480	15.6	92	-0.01
17		Acenaphthene	1.234	1.092	11.5	95	0.00
18		Fluorene	1.555	1.355	12.9	94	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	92	0.00
20		4,6-Dinitro-2-methylphenol	0.062	0.042	32.3#	75	0.00
21		4-Bromophenyl-phenylether	0.243	0.220	9.5	91	0.00
22		Hexachlorobenzene	0.268	0.252	6.0	93	0.00
23		Atrazine	0.194	0.155	20.1	82	0.00
24		Pentachlorophenol	0.116	0.080	31.0#	76	0.00
25		Phenanthrene	1.113	1.029	7.5	91	0.00
26		Anthracene	0.985	0.833	15.4	87	0.00
27	SURR	Fluoranthene-d10	0.961	0.788	18.0	83	0.00
28		Fluoranthene	1.230	1.036	15.8	86	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	85	0.00
30		Pyrene	1.785	1.689	5.4	84	0.00
31	S	Terphenyl-d14	0.909	0.822	9.6	81	0.00
32		Benzo(a)anthracene	1.446	1.307	9.6	84	0.00
33		Chrysene	1.437	1.359	5.4	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.915	0.681	25.6#	71	0.00
35	I	Perylene-d12	1.000	1.000	0.0	89	0.00
36		Indeno(1,2,3-cd)pyrene	1.661	1.583	4.7	92	0.00
37		Benzo(b)fluoranthene	1.494	1.410	5.6	94	0.00
38		Benzo(k)fluoranthene	1.470	1.388	5.6	93	0.00
39	C	Benzo(a)pyrene	1.236	1.066	13.8	87	0.00
40		Dibenzo(a,h)anthracene	1.328	1.262	5.0	91	0.00
41		Benzo(g,h,i)perylene	1.420	1.318	7.2	91	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BN033507.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082024\
Data File : BN033507.D
Acq On : 20 Aug 2024 15:51
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 20 16:56:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	66	0.00
2		1,4-Dioxane	0.400	0.357	10.8	83	0.00
3		n-Nitrosodimethylamine	0.400	0.354	11.5	69	0.00
4	S	2-Fluorophenol	0.400	0.315	21.3	52	0.00
5	S	Phenol-d6	0.400	0.337	15.8	62	0.00
6		bis(2-Chloroethyl)ether	0.400	0.375	6.3	89	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	94	0.00
8	S	Nitrobenzene-d5	0.400	0.336	16.0	86	-0.01
9		Naphthalene	0.400	0.362	9.5	96	-0.01
10		Hexachlorobutadiene	0.400	0.368	8.0	96	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.354	11.5	97	0.00
12		2-Methylnaphthalene	0.400	0.359	10.3	97	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	96	0.00
14	S	2,4,6-Tribromophenol	0.400	0.277	30.8#	77	0.00
15	S	2-Fluorobiphenyl	0.400	0.373	6.8	98	0.00
16		Acenaphthylene	0.400	0.337	15.8	92	-0.01
17		Acenaphthene	0.400	0.354	11.5	95	0.00
18		Fluorene	0.400	0.348	13.0	94	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	92	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.268	33.0#	75	0.00
21		4-Bromophenyl-phenylether	0.400	0.363	9.3	91	0.00
22		Hexachlorobenzene	0.400	0.376	6.0	93	0.00
23		Atrazine	0.400	0.321	19.8	82	0.00
24		Pentachlorophenol	0.400	0.276	31.0#	76	0.00
25		Phenanthrene	0.400	0.370	7.5	91	0.00
26		Anthracene	0.400	0.338	15.5	87	0.00
27	SURR	Fluoranthene-d10	0.400	0.328	18.0	83	0.00
28		Fluoranthene	0.400	0.337	15.8	86	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	85	0.00
30		Pyrene	0.400	0.378	5.5	84	0.00
31	S	Terphenyl-d14	0.400	0.362	9.5	81	0.00
32		Benzo(a)anthracene	0.400	0.361	9.8	84	0.00
33		Chrysene	0.400	0.378	5.5	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.297	25.8#	71	0.00
35	I	Perylene-d12	0.400	0.400	0.0	89	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.381	4.8	92	0.00
37		Benzo(b)fluoranthene	0.400	0.378	5.5	94	0.00
38		Benzo(k)fluoranthene	0.400	0.378	5.5	93	0.00
39	C	Benzo(a)pyrene	0.400	0.345	13.8	87	0.00
40		Dibenzo(a,h)anthracene	0.400	0.380	5.0	91	0.00
41		Benzo(g,h,i)perylene	0.400	0.371	7.3	91	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

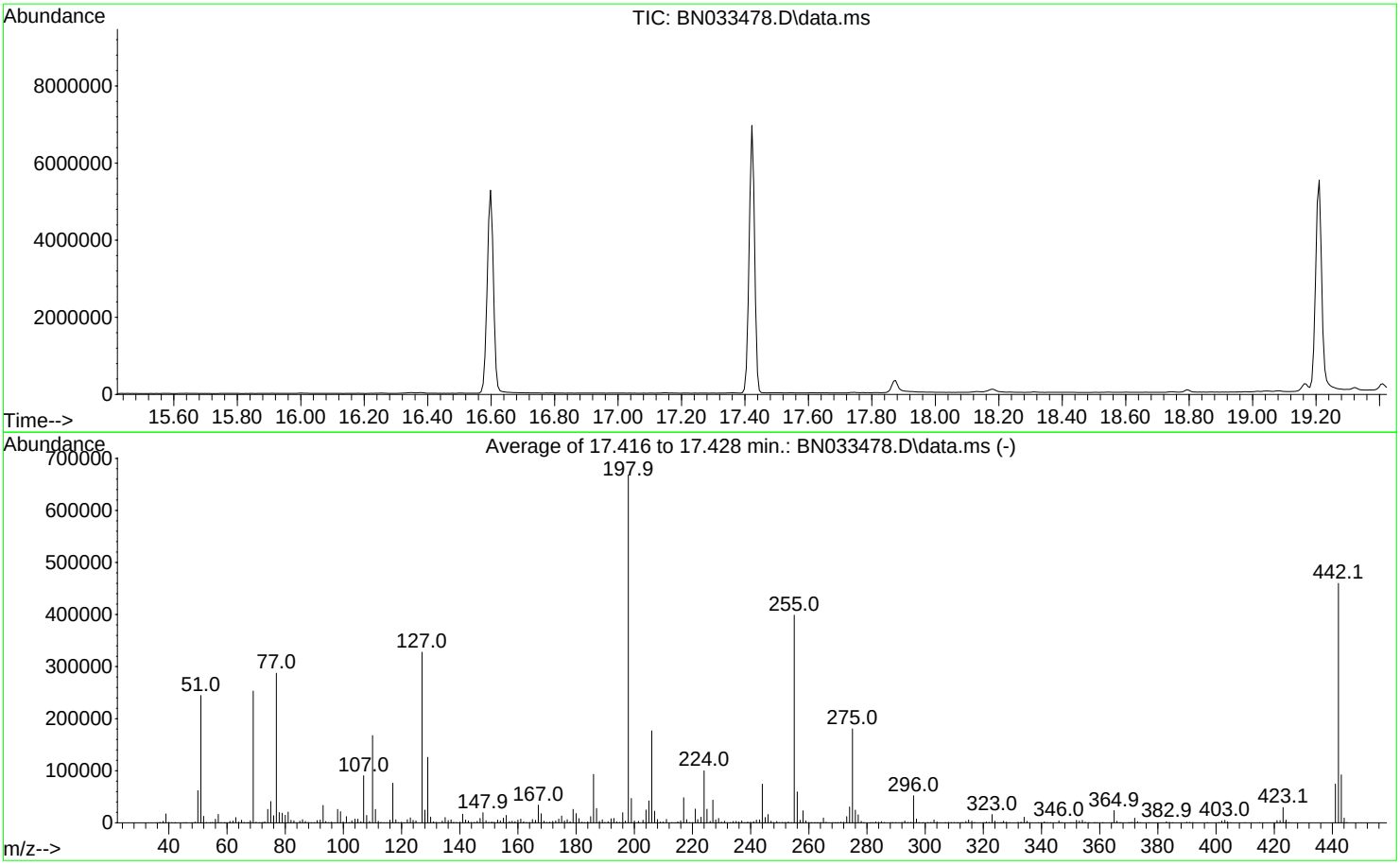
Sample Results: **BN033478.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033478.D
Acq On : 19 Aug 2024 15:37
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 19 23:32:18 2024



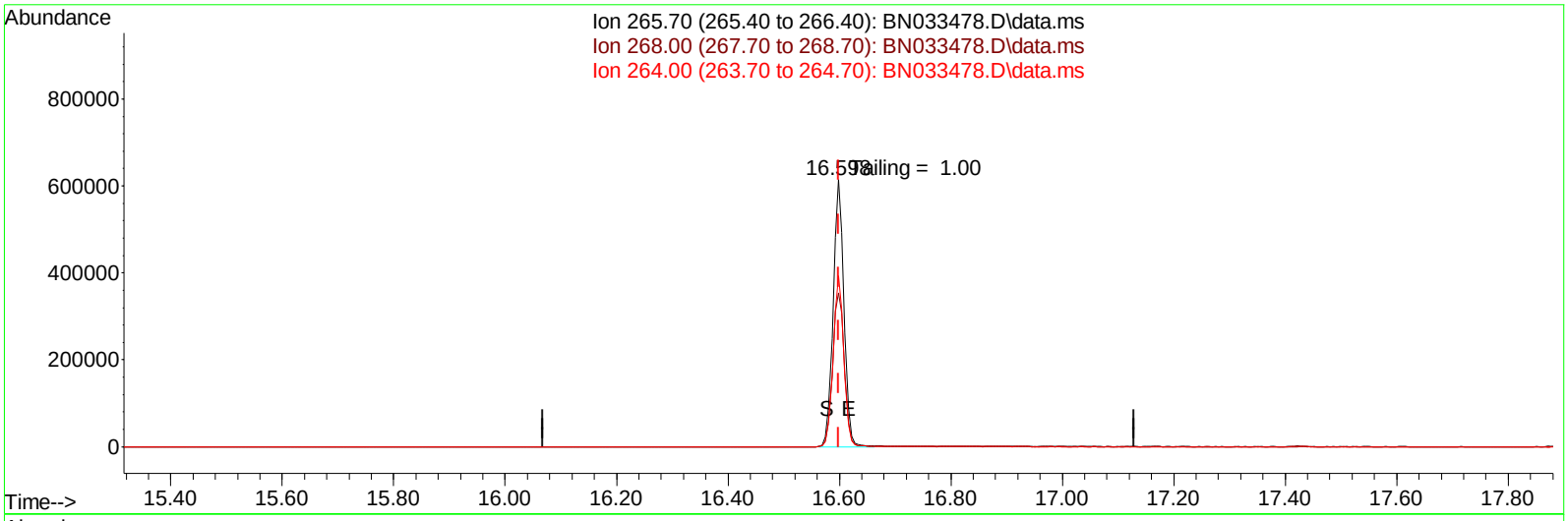
AutoFind: Scans 2453, 2454, 2455; Background Corrected with Scan 2446

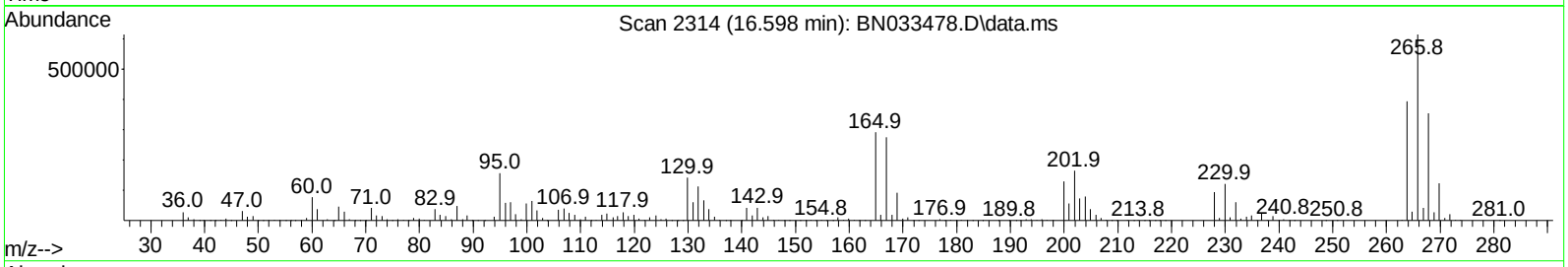
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.6	244669	PASS
68	69	0.00	2	1.6	3975	PASS
69	198	0.00	100	37.9	253111	PASS
70	69	0.00	2	0.4	1124	PASS
127	198	10	80	49.1	327765	PASS
197	198	0.00	2	0.5	3324	PASS
198	198	100	100	100.0	667925	PASS
199	198	5	9	7.0	46784	PASS
275	198	10	60	27.0	180331	PASS
365	198	1	100	3.5	23424	PASS
441	198	0.01	100	11.2	74525	PASS
442	442	50	100	100.0	459861	PASS
443	442	15	24	20.0	92101	PASS

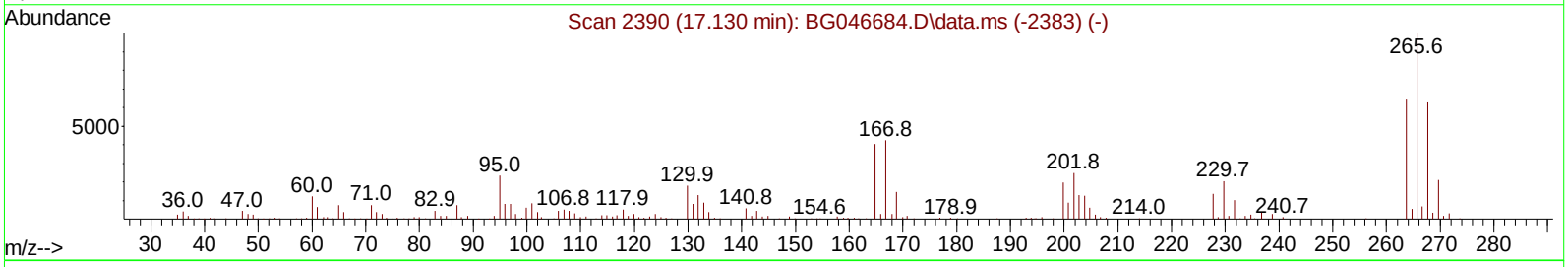
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033478.D
Acq On : 19 Aug 2024 15:37
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 04:50:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 20 04:49:48 2024
Response via : Initial Calibration







TIC: BN033478.D\data.ms

(70) Pentachlorophenol (C)

16.598min (-0.000) 25243.84 ng

response 836211

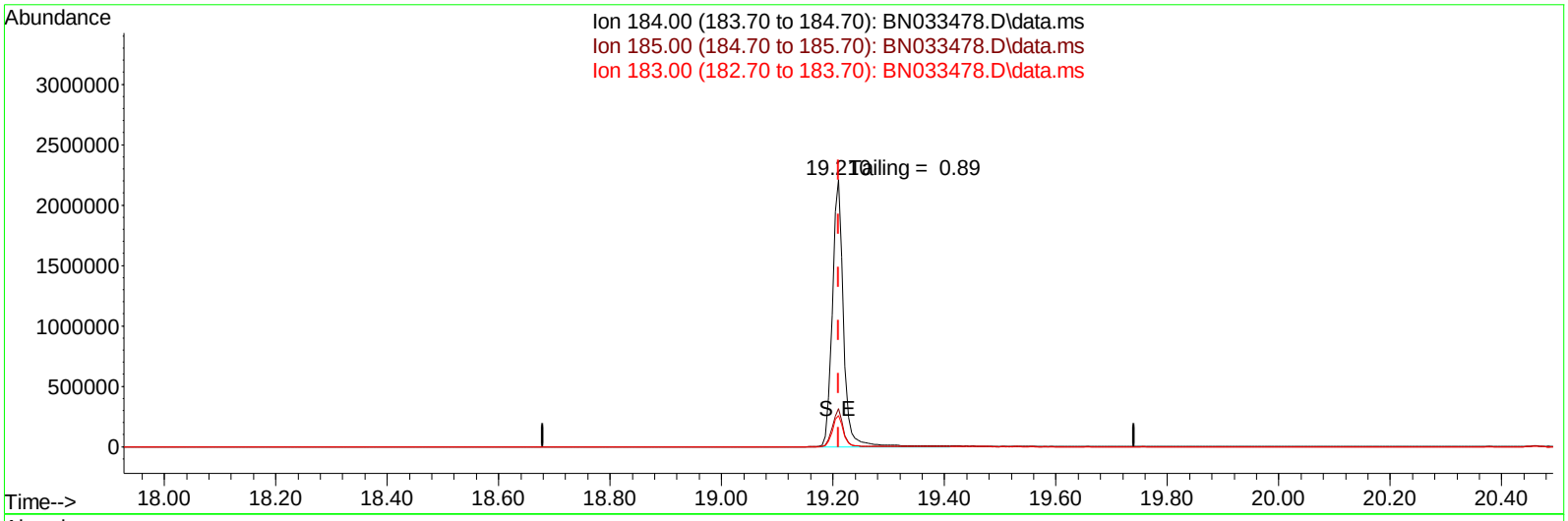
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	57.76
264.00	61.60	64.04
0.00	0.00	0.00

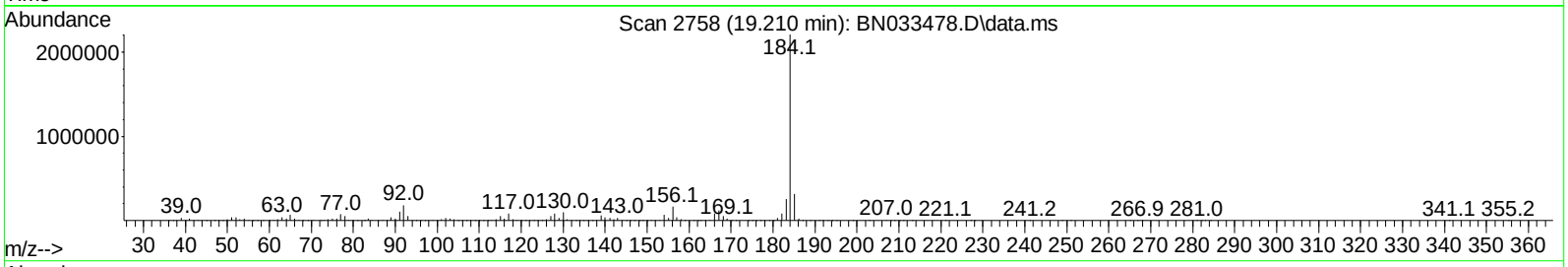
Sample Results: **BN033478.D**

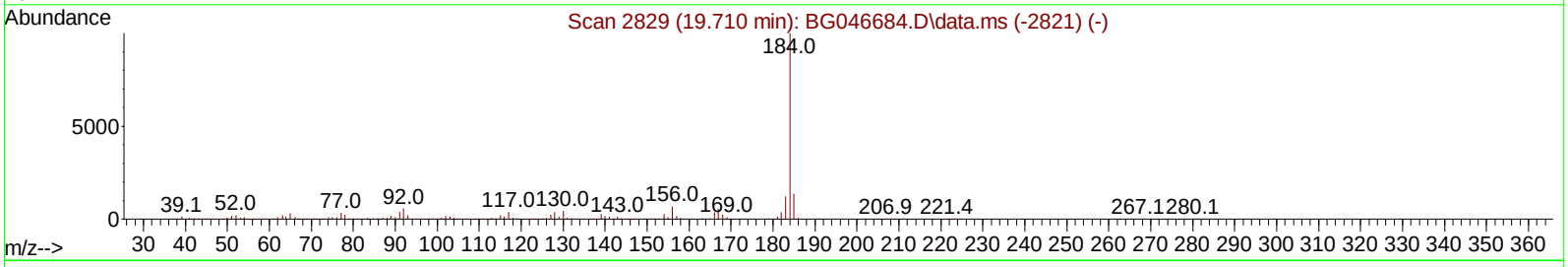
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033478.D
Acq On : 19 Aug 2024 15:37
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 04:50:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 20 04:49:48 2024
Response via : Initial Calibration







TIC: BN033478.D\data.ms

(77) Benzidine

19.210min (-0.000) 1831888.84 ng

response 3105776

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.31
183.00	13.20	11.63
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/19/2024	BNA_N	BN033478.D
Compound Name	**Response**	**Retention Time**
DDT	2164760	20.463
DDD	37665	20.016
DDE	773	19.51
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
38438	2203198	1.74

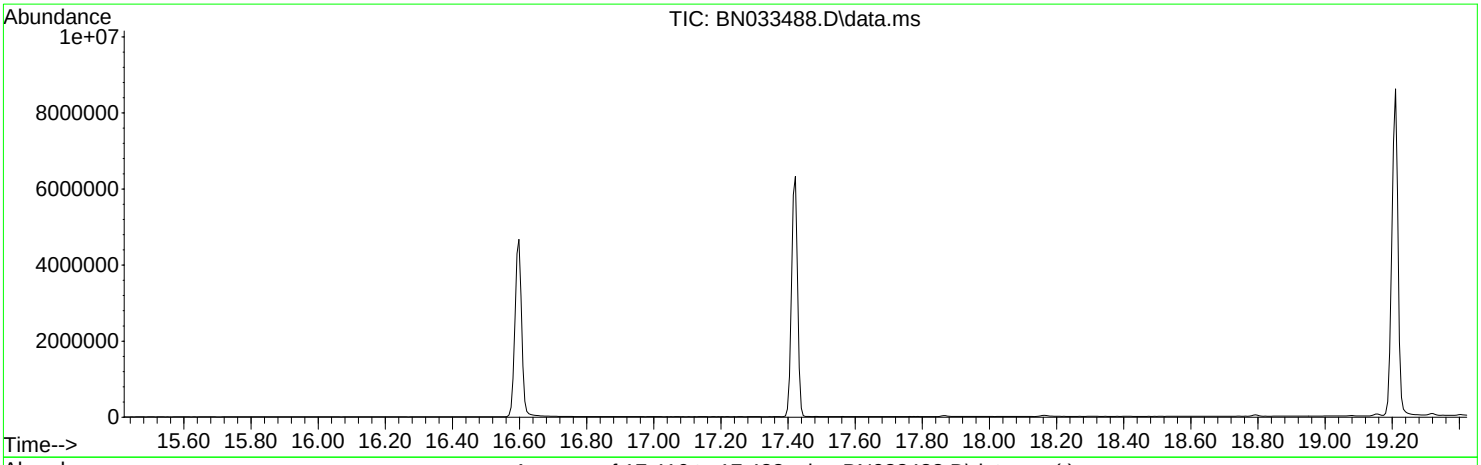
Sample Results: **BN033488.D**

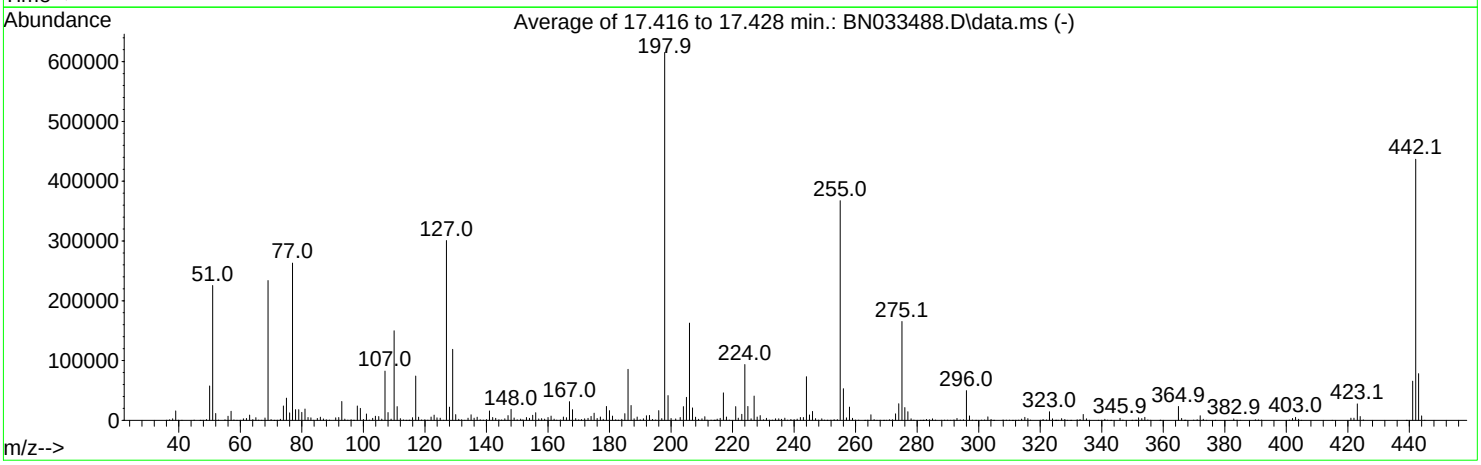
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033488.D
Acq On : 20 Aug 2024 04:04
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 19 23:32:18 2024





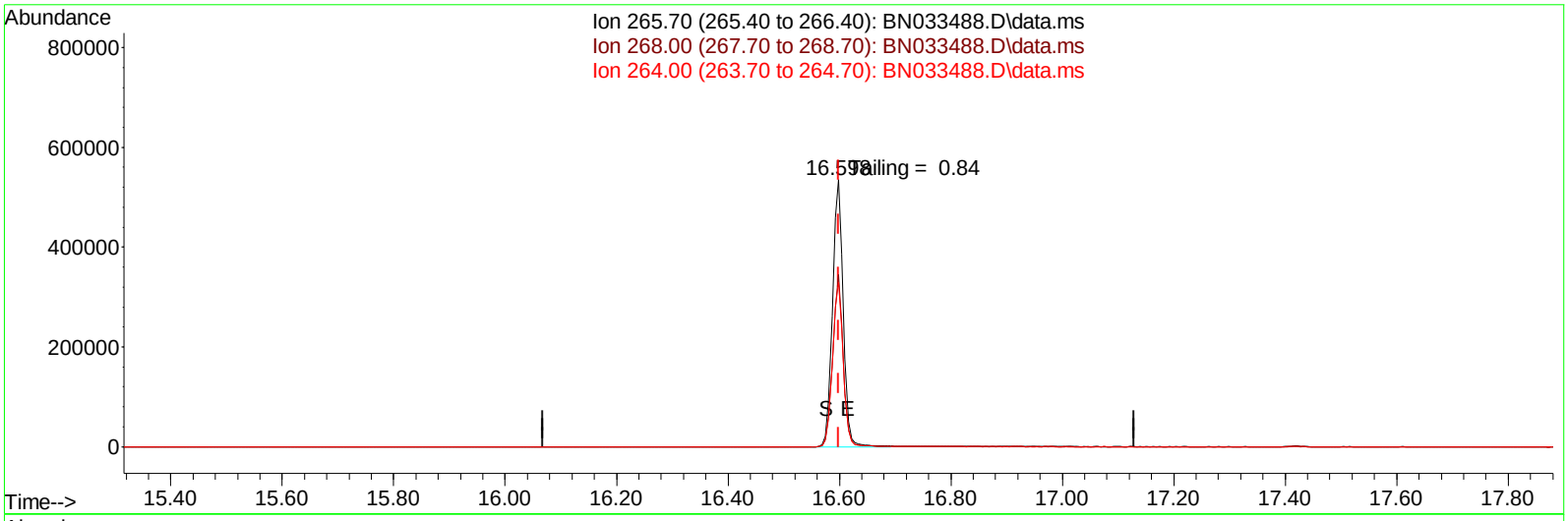
AutoFind: Scans 2453, 2454, 2455; Background Corrected with Scan 2445

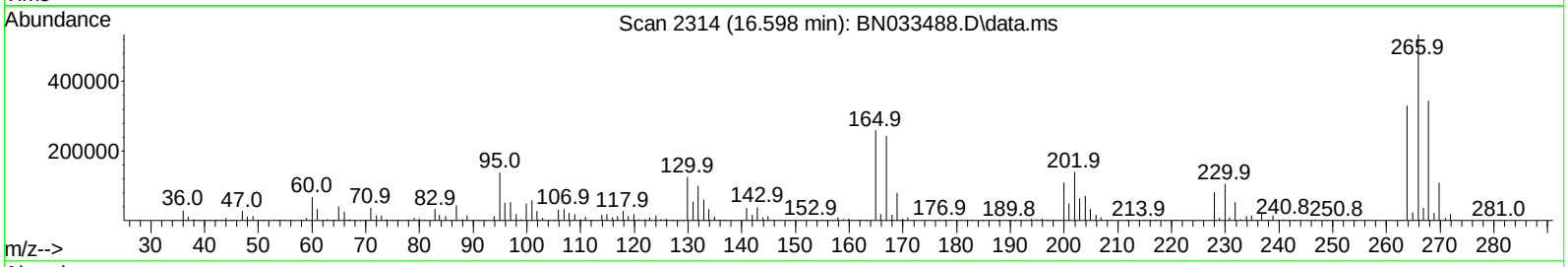
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.7	225531	PASS
68	69	0.00	2	1.7	3948	PASS
69	198	0.00	100	38.0	233941	PASS
70	69	0.00	2	0.5	1218	PASS
127	198	10	80	48.9	300736	PASS
197	198	0.00	2	0.5	3029	PASS
198	198	100	100	100.0	615275	PASS
199	198	5	9	6.8	41555	PASS
275	198	10	60	26.9	165448	PASS
365	198	1	100	3.8	23208	PASS
441	198	0.01	100	10.6	65525	PASS
442	442	50	100	100.0	436715	PASS
443	442	15	24	17.9	78141	PASS

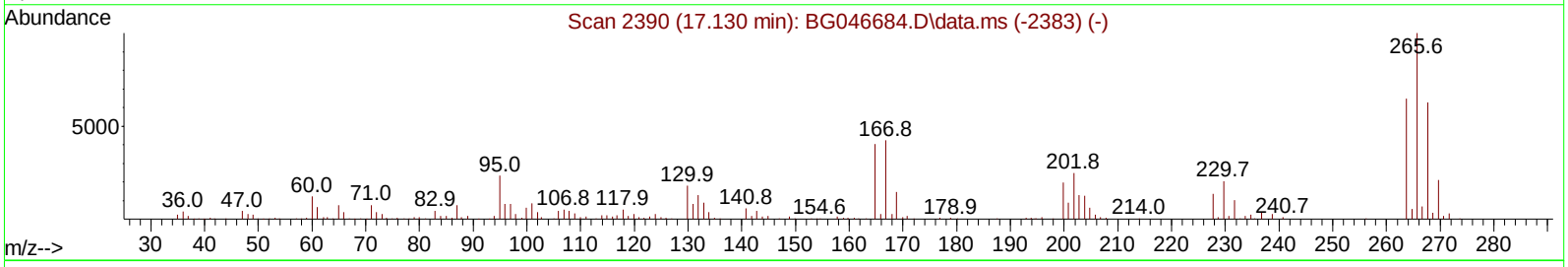
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033488.D
Acq On : 20 Aug 2024 04:04
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 04:49:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 20 04:49:48 2024
Response via : Initial Calibration







TIC: BN033488.D\data.ms

(70) Pentachlorophenol (C)

16.598min (0.000) 23305.39 ng

response 721703

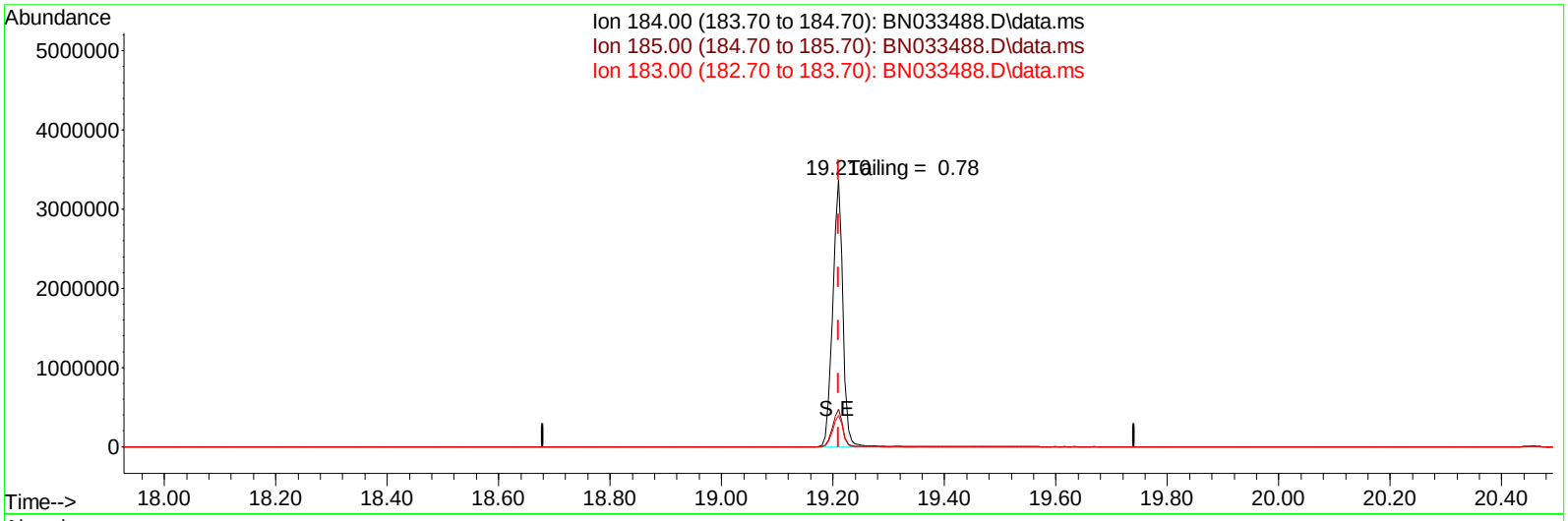
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.39
264.00	61.60	61.61
0.00	0.00	0.00

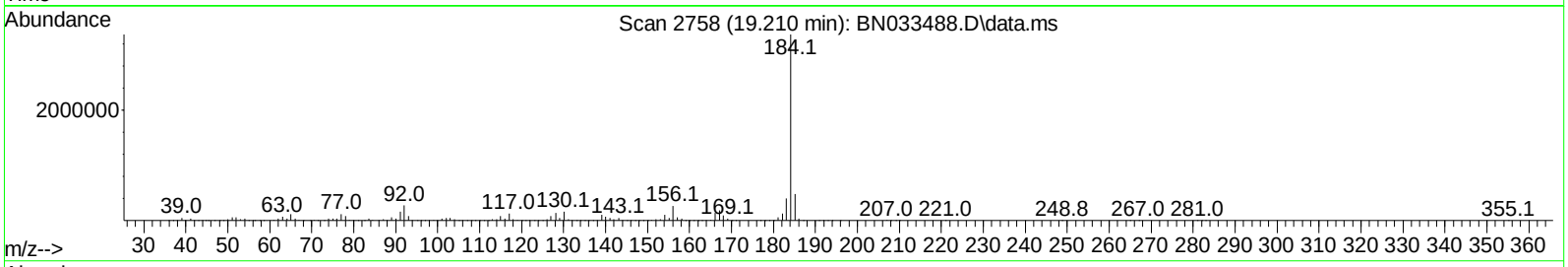
Sample Results: **BN033488.D**

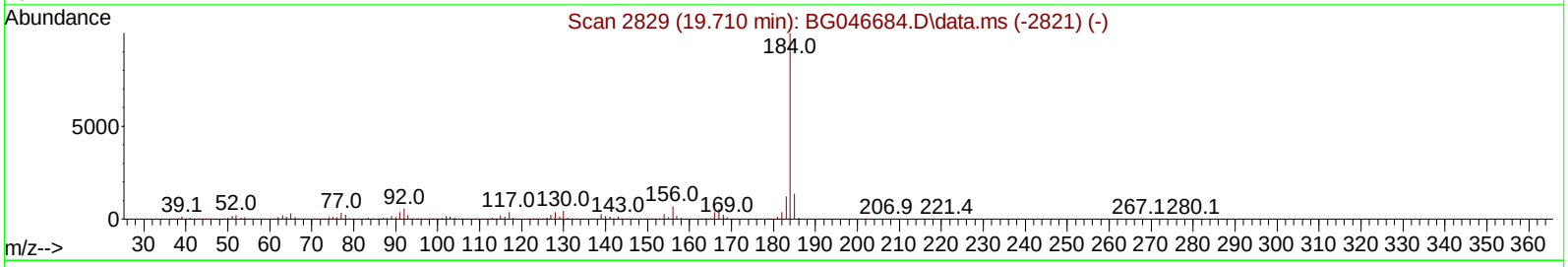
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033488.D
Acq On : 20 Aug 2024 04:04
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 04:49:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 20 04:49:48 2024
Response via : Initial Calibration







TIC: BN033488.D\data.ms

(77) Benzidine

19.210min (0.000) 0.00 ng

response 4312132

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.14
183.00	13.20	11.75
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/19/2024	BNA_N	BN033488.D
Compound Name	**Response**	**Retention Time**
DDT	2112901	20.457
DDD	33939	20.01
DDE	827	19.504
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
34766	2147667	1.62

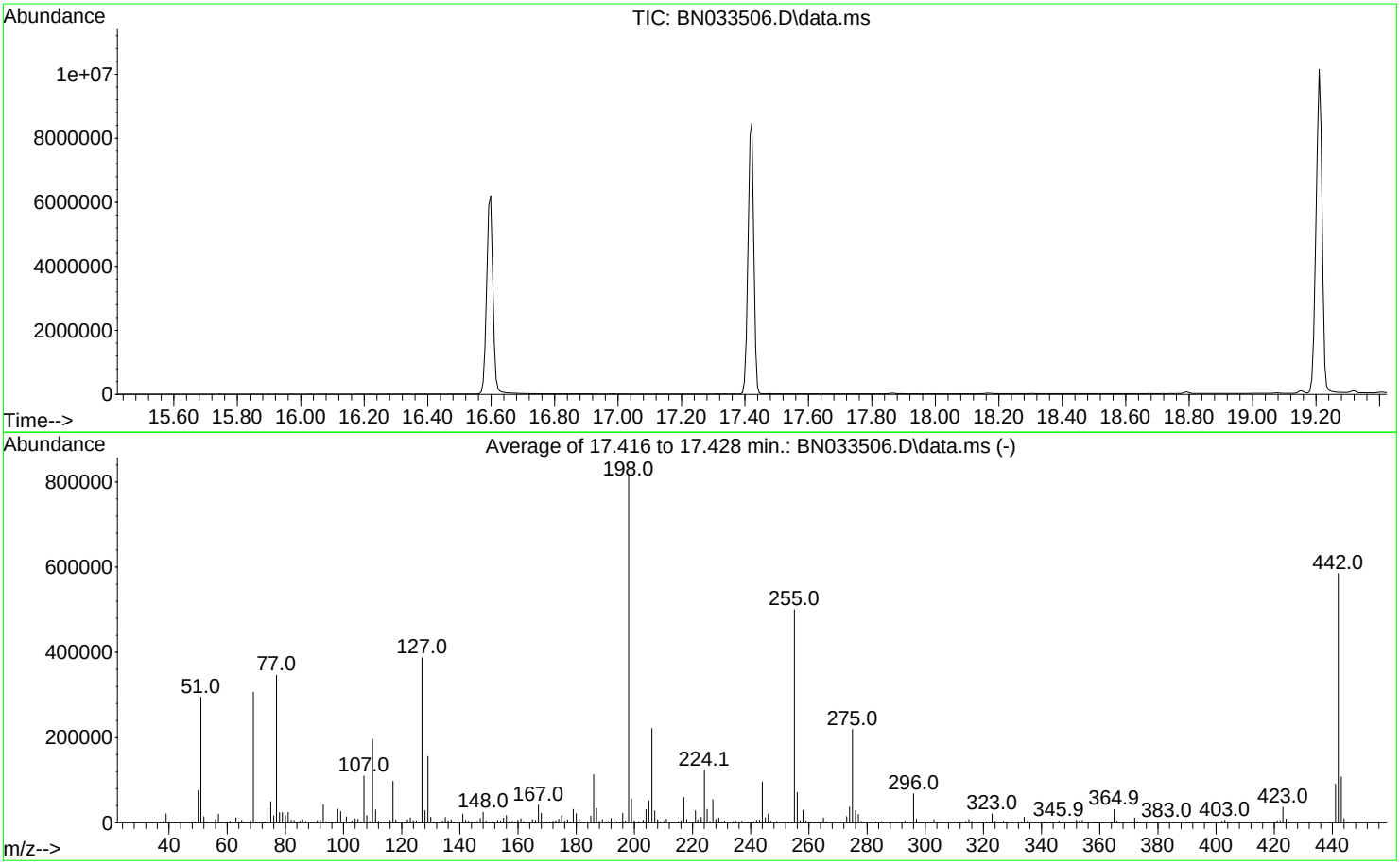
Sample Results: **BN033506.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082024\
Data File : BN033506.D
Acq On : 20 Aug 2024 15:12
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 19 23:32:18 2024



AutoFind: Scans 2453, 2454, 2455; Background Corrected with Scan 2445

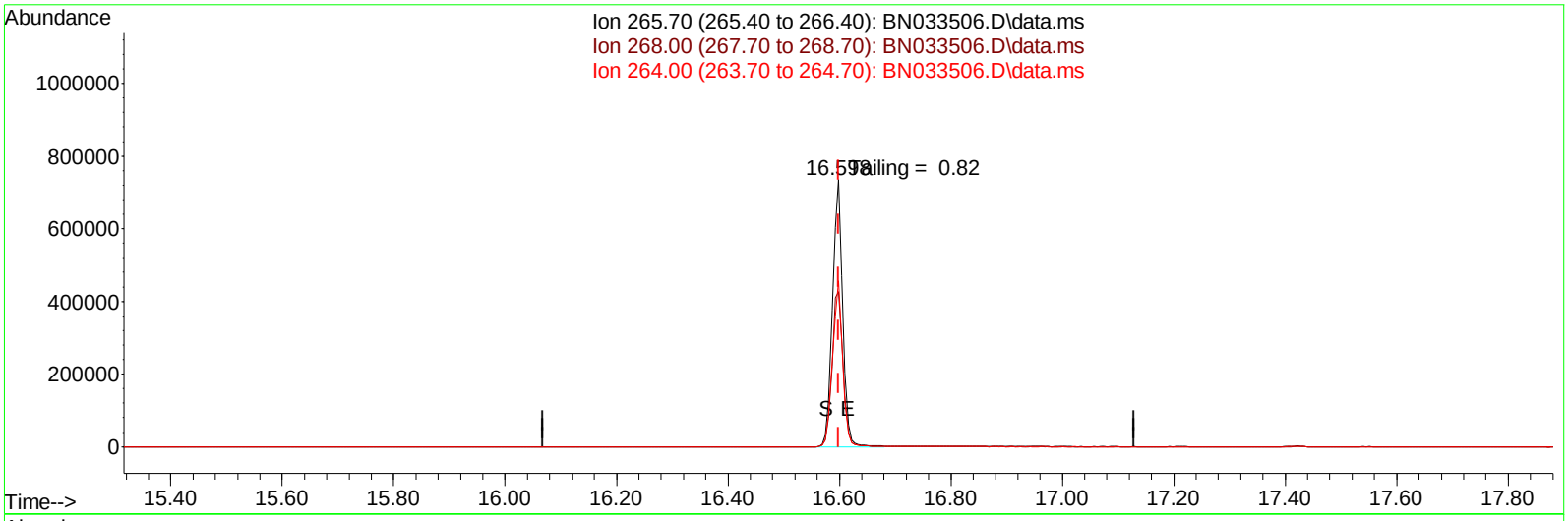
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.1	294566	PASS
68	69	0.00	2	1.8	5531	PASS
69	198	0.00	100	37.6	306667	PASS
70	69	0.00	2	0.5	1683	PASS
127	198	10	80	47.5	387349	PASS
197	198	0.00	2	0.6	5093	PASS
198	198	100	100	100.0	816235	PASS
199	198	5	9	6.9	56176	PASS
275	198	10	60	26.9	219243	PASS
365	198	1	100	3.8	30933	PASS
441	198	0.01	100	11.1	90933	PASS
442	442	50	100	100.0	585109	PASS
443	442	15	24	18.4	107917	PASS

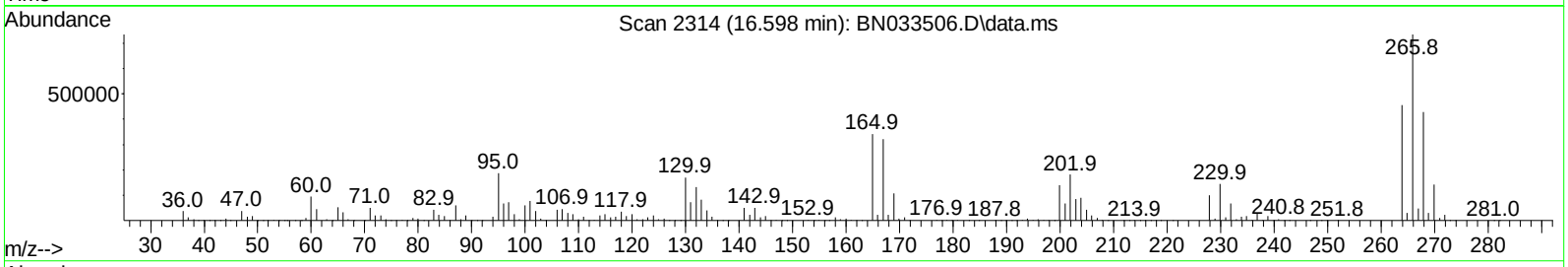
Sample Results: **BN033506.D**

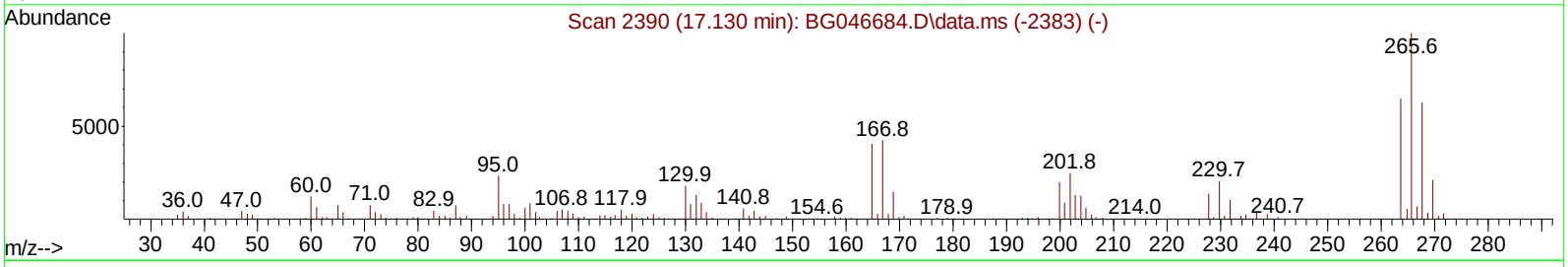
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082024\
Data File : BN033506.D
Acq On : 20 Aug 2024 15:12
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 21 05:32:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 21 05:32:13 2024
Response via : Initial Calibration







TIC: BN033506.D\data.ms

(70) Pentachlorophenol (C)

16.598min (0.000) 21421.68 ng

response 945798

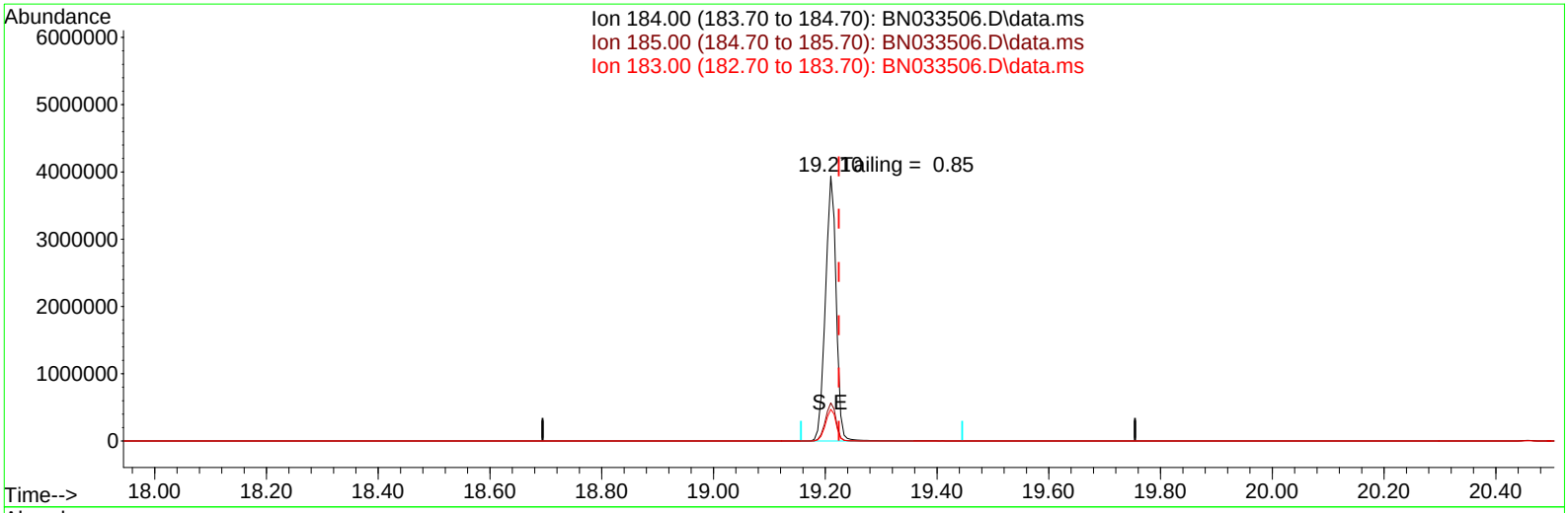
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	58.18
264.00	61.60	62.10
0.00	0.00	0.00

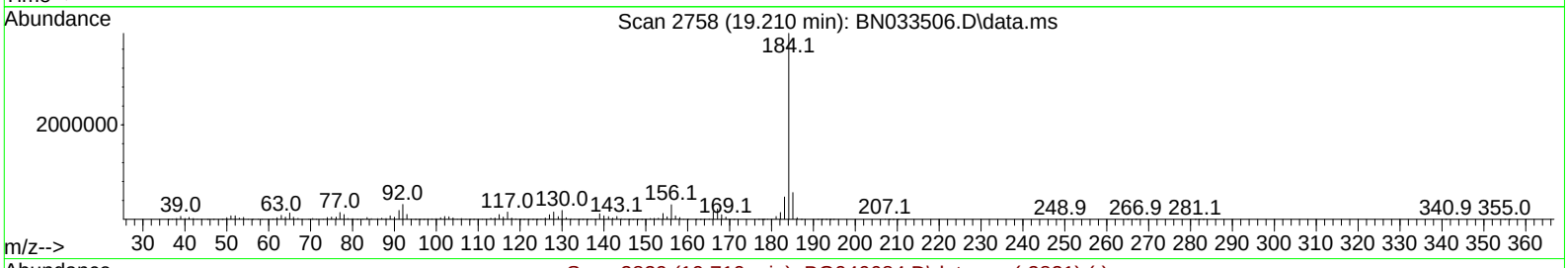
Sample Results: **BN033506.D**

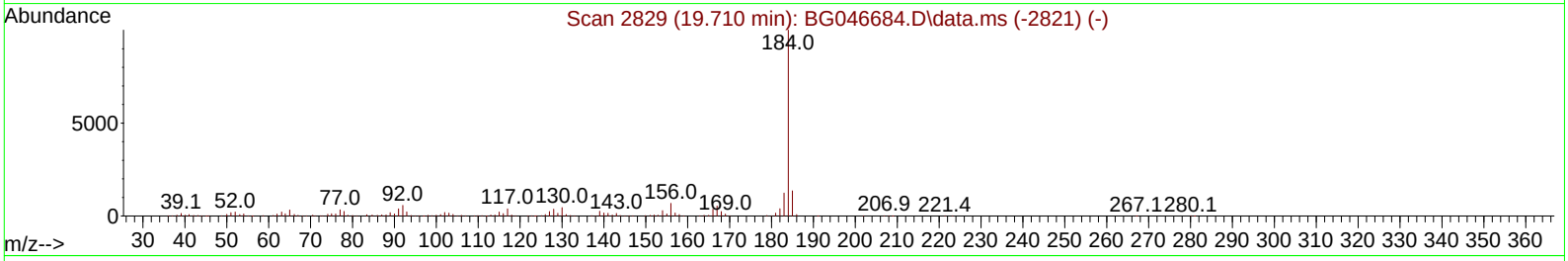
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082024\
Data File : BN033506.D
Acq On : 20 Aug 2024 15:12
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 21 21:50:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 21 05:32:13 2024
Response via : Initial Calibration







TIC: BN033506.D\data.ms

(77) Benzidine

19.210min (-0.014) 0.00 ng

response 5262962

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.38
183.00	13.20	12.01
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/20/2024	BNA_N	BN033506.D
Compound Name	**Response**	**Retention Time**
DDT	2476476	20.457
DDD	70091	20.016
DDE	1205	19.504
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
71296	2547772	2.80

Raw Data: **BN033508.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162787BL	SDG No.:	P3645
Lab Sample ID:	PB162787BL	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
BN033508.D	1	08/16/24 10:33	08/20/24 16:28	PB162787

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	0.30		30 (30) - 150 (150)	74%	SPK: 0.4
367-12-4	2-Fluorophenol	0.26		15 (10) - 110 (100)	64%	SPK: 0.4
13127-88-3	Phenol-d6	0.25		15 (10) - 110 (100)	63%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		30 (27) - 130 (123)	77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		30 (34) - 130 (132)	85%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.18		15 (10) - 110 (131)	46%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.34		30 (35) - 130 (157)	85%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8440	7.552			

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162787BL	SDG No.:	P3645
Lab Sample ID:	PB162787BL	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
BN033508.D	1	08/16/24 10:33	08/20/24 16:28	PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1146-65-2	Naphthalene-d8	21600	10.314			
15067-26-2	Acenaphthene-d10	9670	14.188			
1517-22-2	Phenanthrene-d10	18300	16.942			
1719-03-5	Chrysene-d12	11100	21.148			
1520-96-3	Perylene-d12	11400	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\BN082024\
Data File : BN033508.D
Acq On : 20 Aug 2024 16:28
Operator : MA/JU
Sample : PB162787BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162787BL

Quant Time: Aug 20 16:58:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

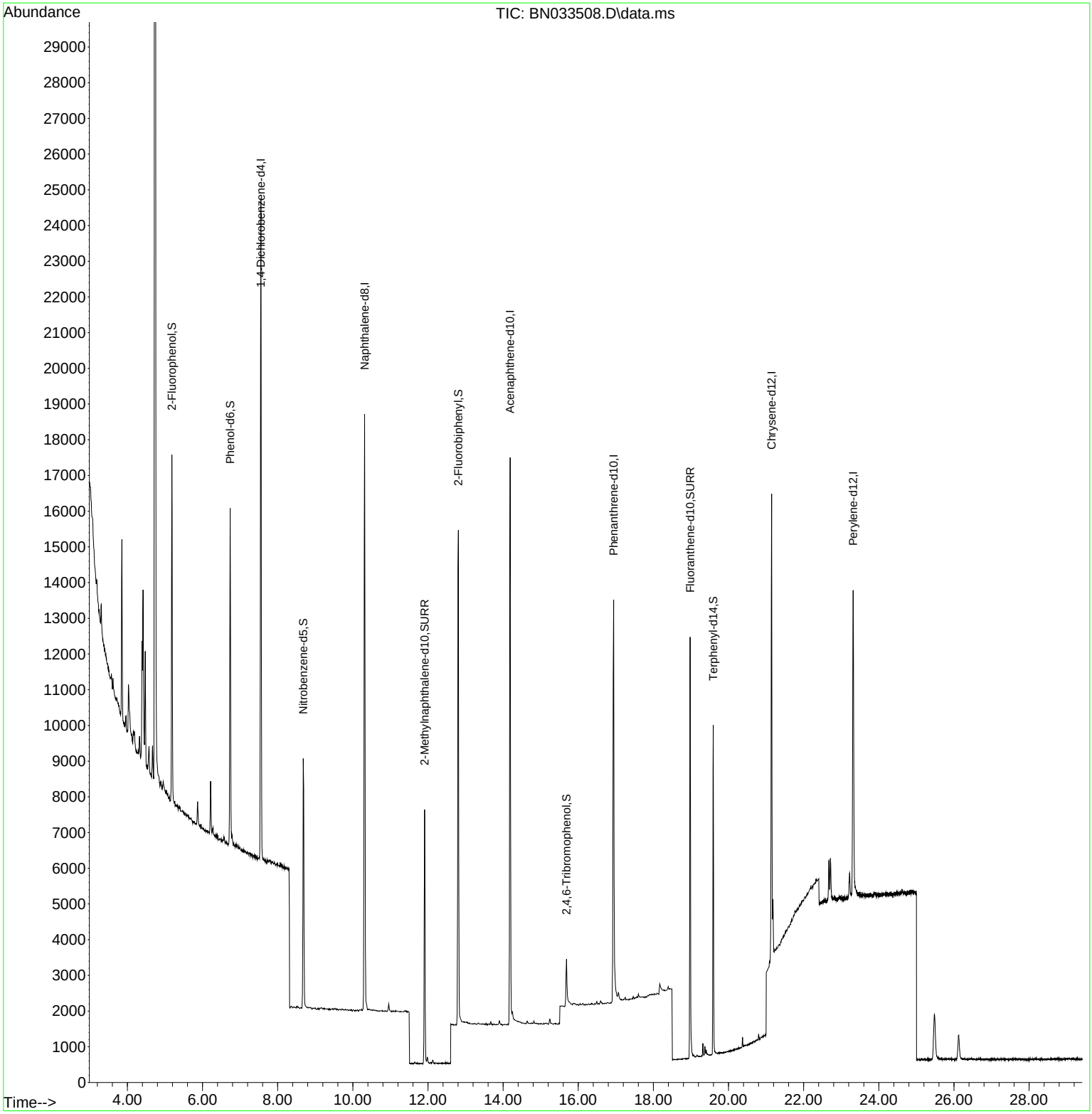
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	8441	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	21567	0.400	ng	# 0.00
13) Acenaphthene-d10	14.188	164	9670	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	18285	0.400	ng	0.00
29) Chrysene-d12	21.148	240	11101	0.400	ng	0.00
35) Perylene-d12	23.317	264	11428	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	6896	0.257	ng	0.00
5) Phenol-d6	6.736	99	8089	0.253	ng	0.00
8) Nitrobenzene-d5	8.681	82	5491	0.307	ng	-0.01
11) 2-Methylnaphthalene-d10	11.911	152	9369	0.304	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	958	0.184	ng	0.00
15) 2-Fluorobiphenyl	12.809	172	13438	0.340	ng	0.00
27) Fluoranthene-d10	18.979	212	12947	0.295	ng	0.00
31) Terphenyl-d14	19.593	244	8561	0.339	ng	0.00
Target Compounds						Qvalue

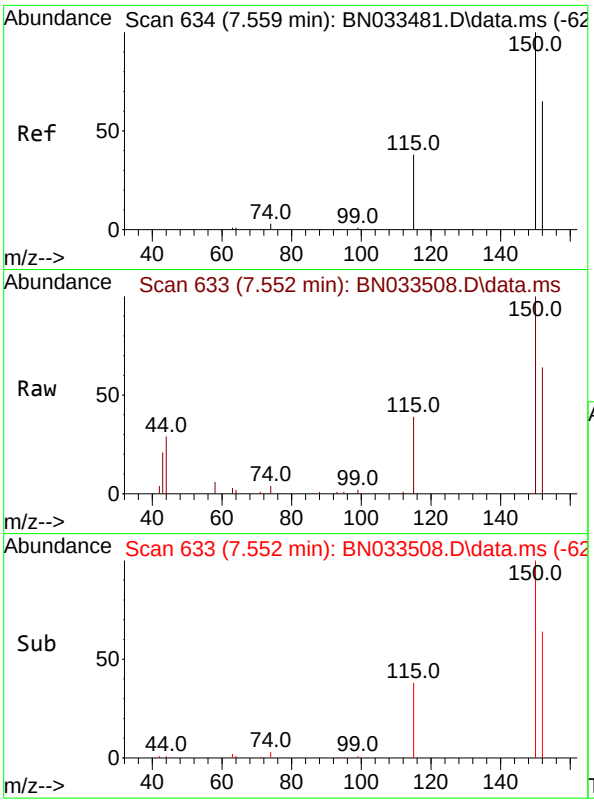
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082024\
Data File : BN033508.D
Acq On : 20 Aug 2024 16:28
Operator : MA/JU
Sample : PB162787BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162787BL

Quant Time: Aug 20 16:58:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration



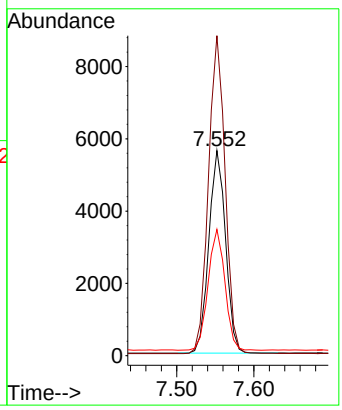


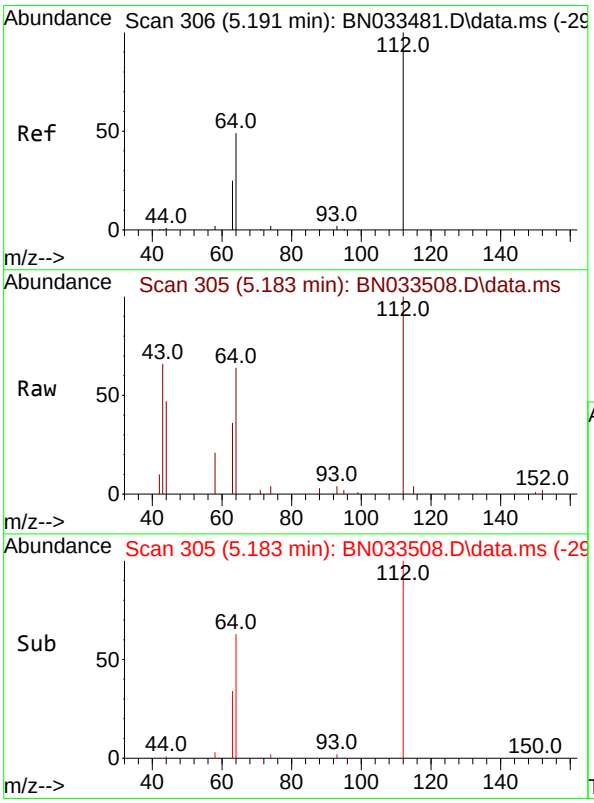
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.552 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Instrument :
BNA_N
ClientSampleId :
PB162787BL

Tgt Ion:152 Resp: 8441

Ion	Ratio	Lower	Upper
152	100		
150	156.0	122.2	183.2
115	61.5	47.2	70.8

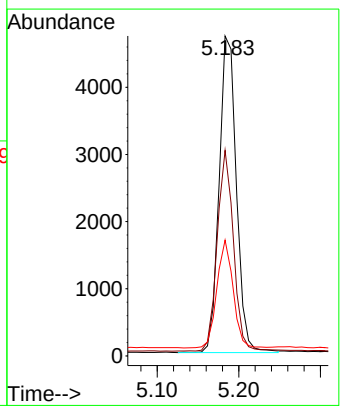


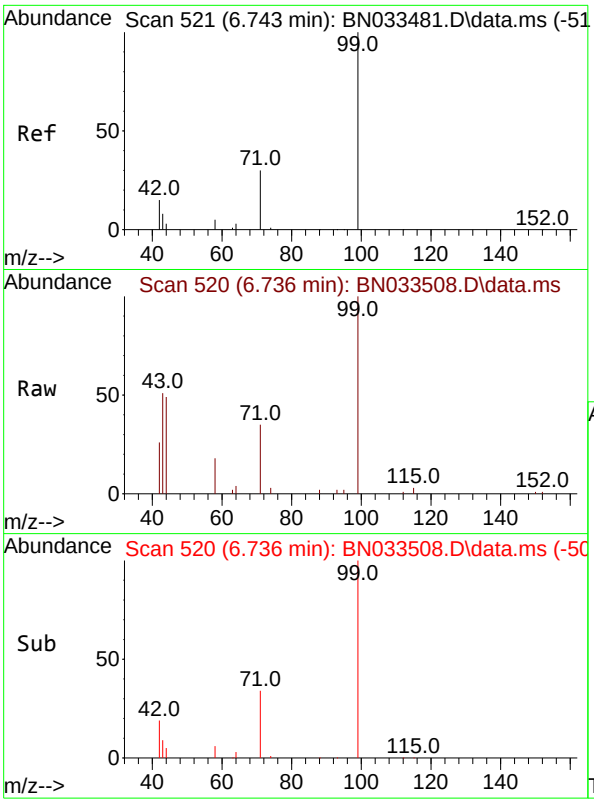


#4
2-Fluorophenol
Concen: 0.257 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.007 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Tgt Ion:112 Resp: 6896

Ion	Ratio	Lower	Upper
112	100		
64	59.9	47.1	70.7
63	32.0	24.9	37.3



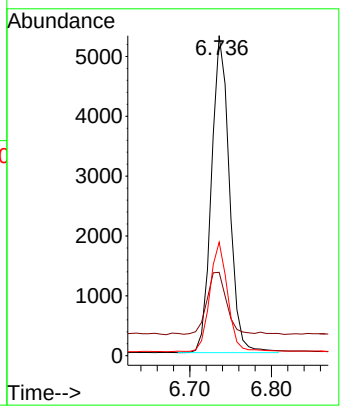


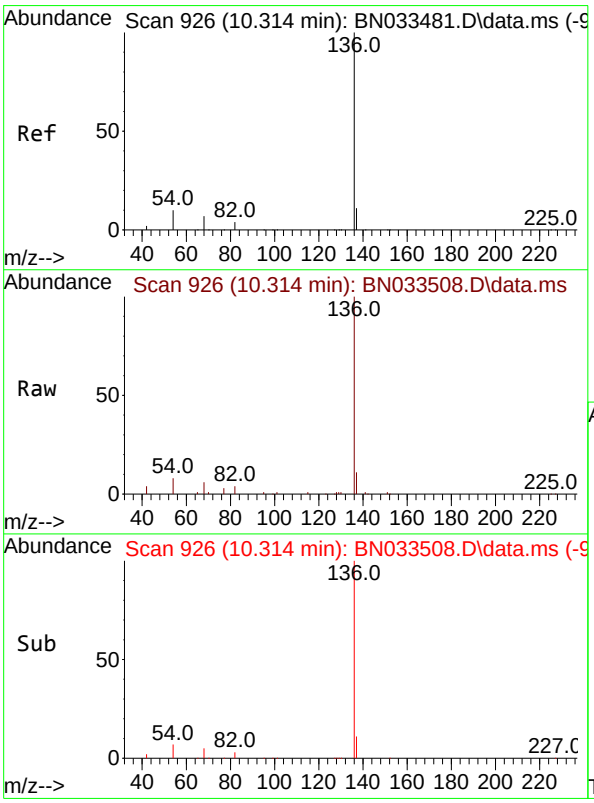
#5
Phenol-d6
Concen: 0.253 ng
RT: 6.736 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Instrument :
BNA_N
ClientSampleId :
PB162787BL

Tgt Ion: 99 Resp: 8089

Ion	Ratio	Lower	Upper
99	100		
42	21.2	16.6	24.8
71	34.4	26.2	39.4

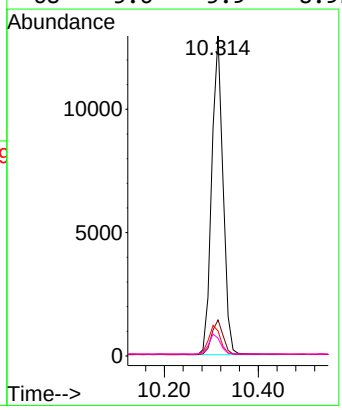


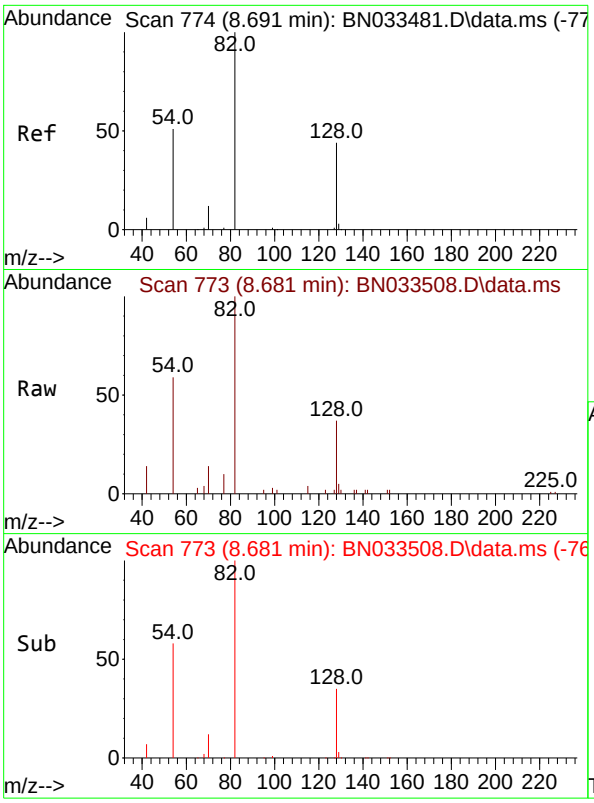


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 926
Delta R.T. -0.000 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Tgt Ion:136 Resp: 21567

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	7.8	8.3	12.5#
68	5.6	5.9	8.9#



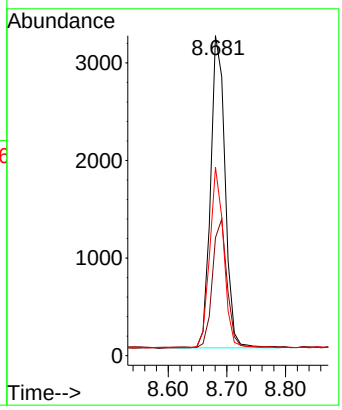


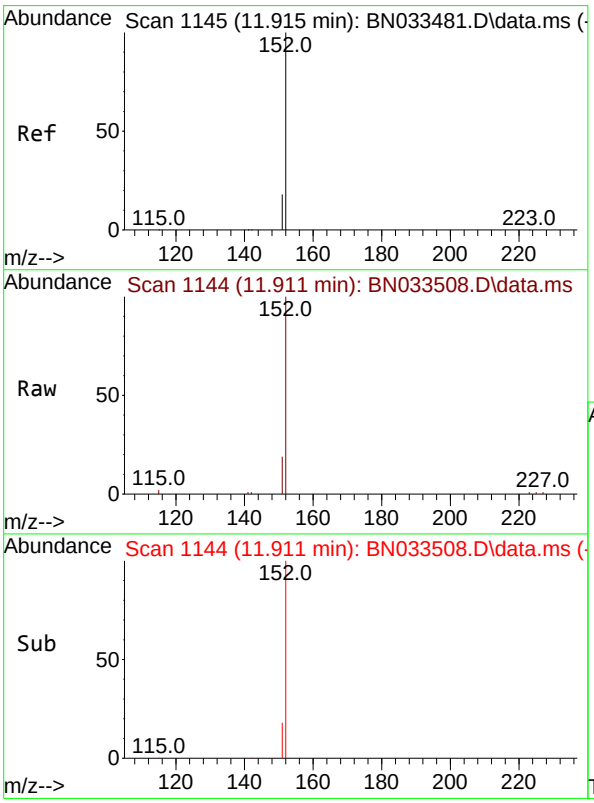
#8
Nitrobenzene-d5
Concen: 0.307 ng
RT: 8.681 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Instrument :
BNA_N
ClientSampleId :
PB162787BL

Tgt Ion: 82 Resp: 5491

Ion	Ratio	Lower	Upper
82	100		
128	36.9	36.0	54.0
54	58.9	42.0	63.0

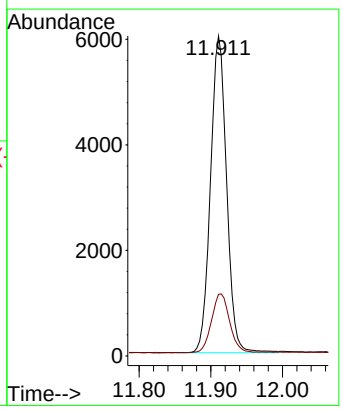


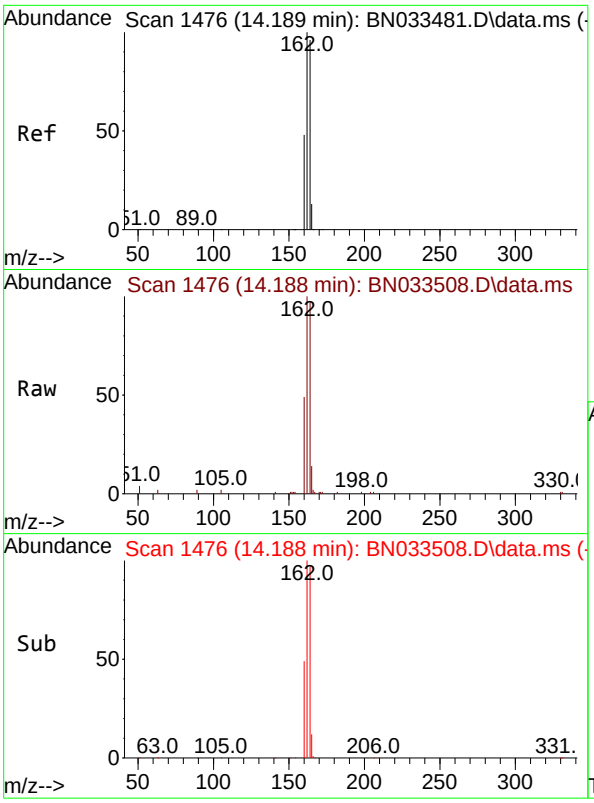


#11
2-Methylnaphthalene-d10
Concen: 0.304 ng
RT: 11.911 min Scan# 1144
Delta R.T. -0.004 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Tgt Ion:152 Resp: 9369

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0



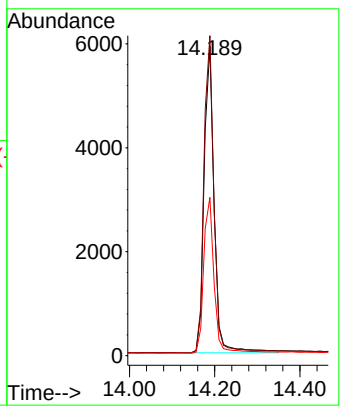


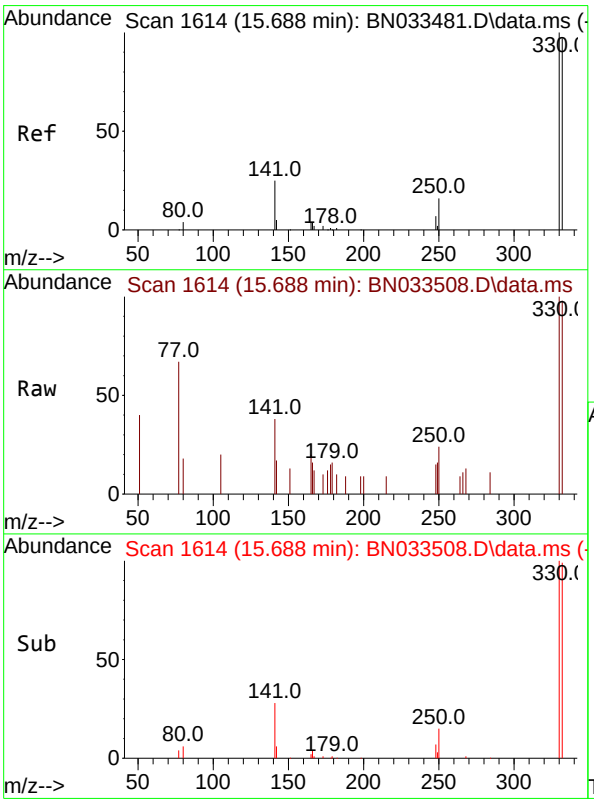
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.188 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Instrument :
BNA_N
ClientSampleId :
PB162787BL

Tgt Ion:164 Resp: 9670

Ion	Ratio	Lower	Upper
164	100		
162	103.4	83.5	125.3
160	51.1	40.2	60.4

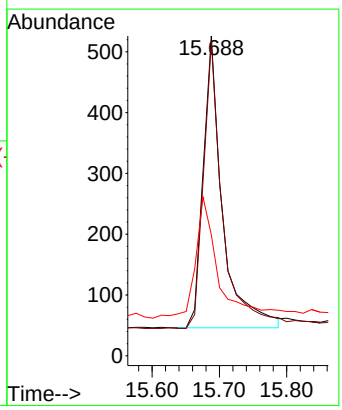


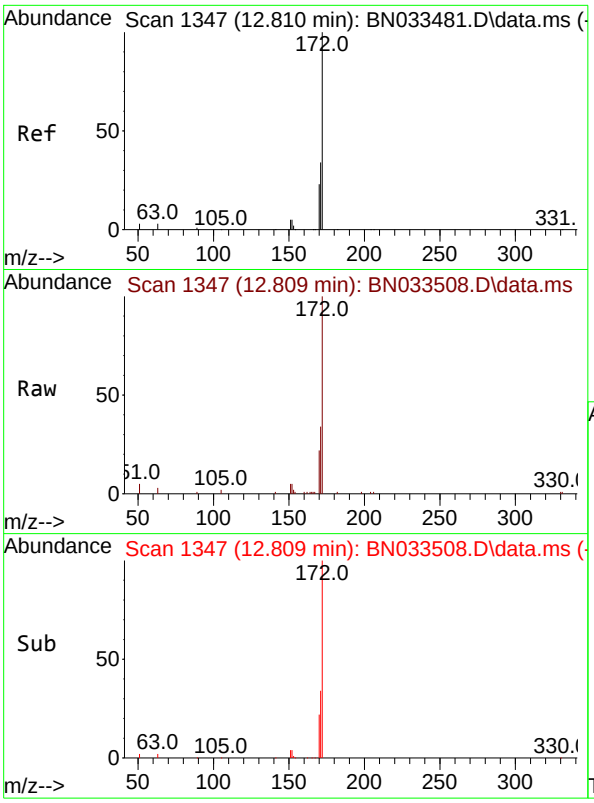


#14
2,4,6-Tribromophenol
Concen: 0.184 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Tgt Ion:330 Resp: 958

Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.5	116.3
141	44.4	33.9	50.9



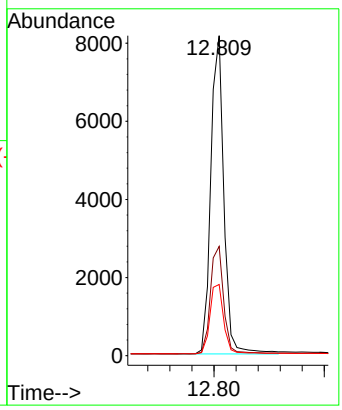


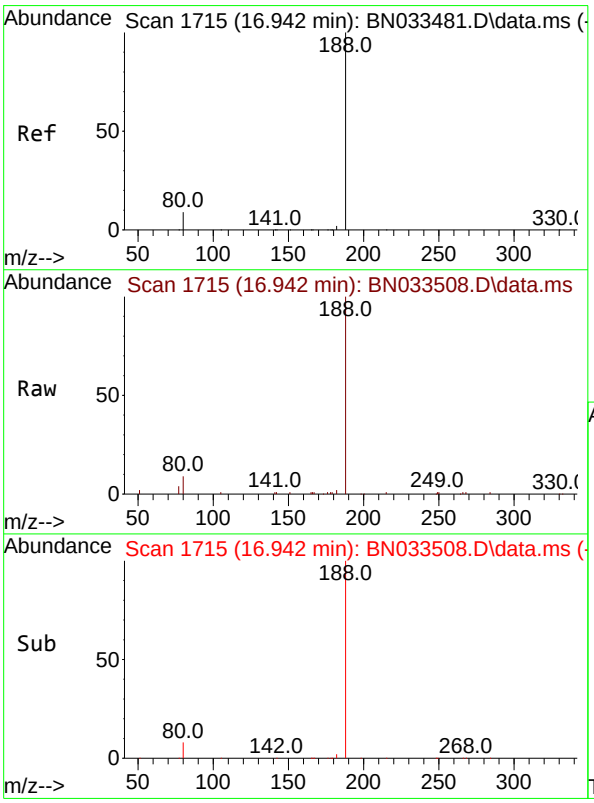
#15
2-Fluorobiphenyl
Concen: 0.340 ng
RT: 12.809 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Instrument :
BNA_N
ClientSampleId :
PB162787BL

Tgt Ion:172 Resp: 13438

Ion	Ratio	Lower	Upper
172	100		
171	34.1	27.7	41.5
170	22.2	18.3	27.5

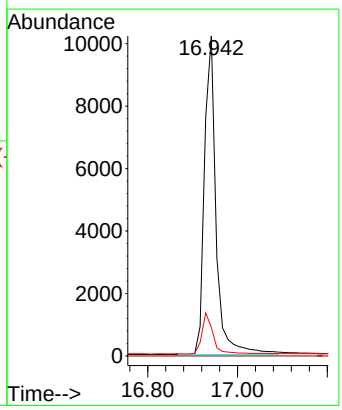


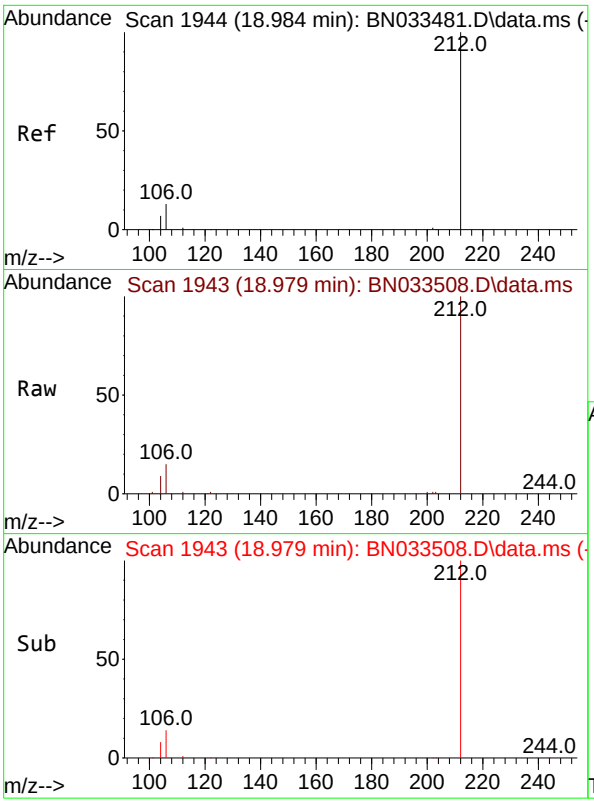


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1715
Delta R.T. -0.000 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Tgt Ion:188 Resp: 18285

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	7.8	11.8



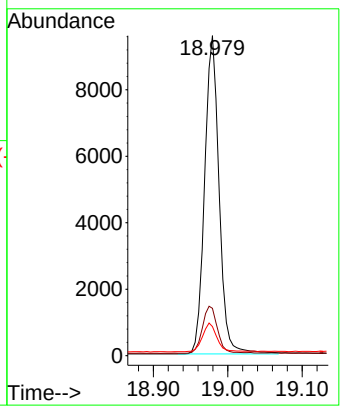


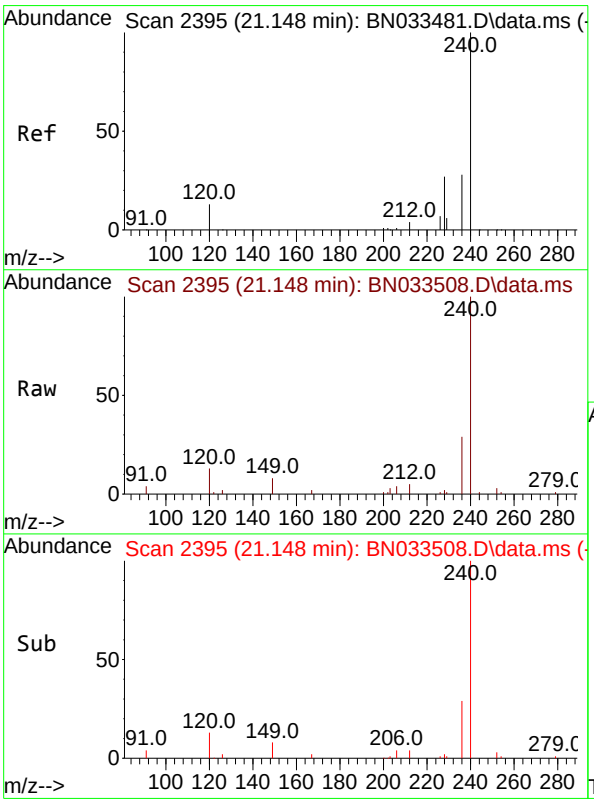
#27
Fluoranthene-d10
Concen: 0.295 ng
RT: 18.979 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Instrument :
BNA_N
ClientSampleId :
PB162787BL

Tgt Ion:212 Resp: 12947

Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.3	18.5
104	9.0	7.0	10.4

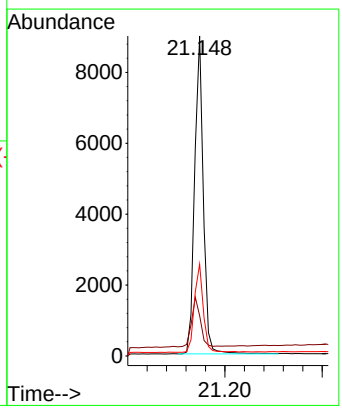


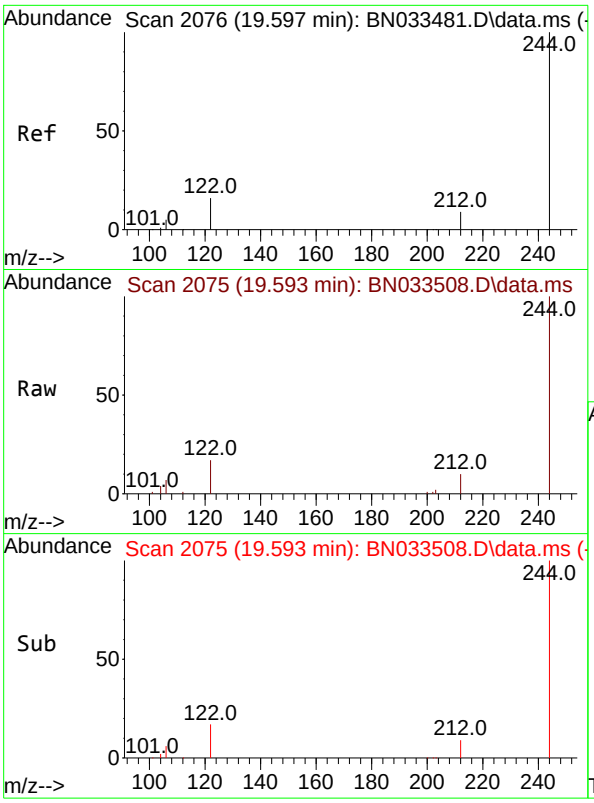


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Tgt Ion:240 Resp: 11101

Ion	Ratio	Lower	Upper
240	100		
120	12.6	12.4	18.6
236	28.7	23.0	34.6



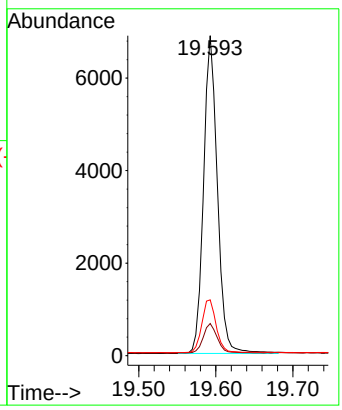


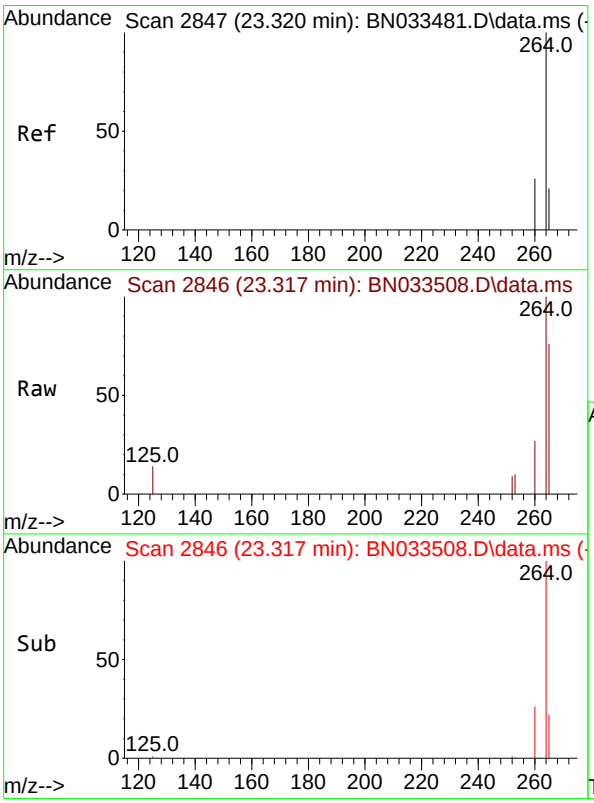
#31
Terphenyl-d14
Concen: 0.339 ng
RT: 19.593 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Instrument :
BNA_N
ClientSampleId :
PB162787BL

Tgt Ion:244 Resp: 8561

Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.8	11.6
122	17.5	13.3	19.9

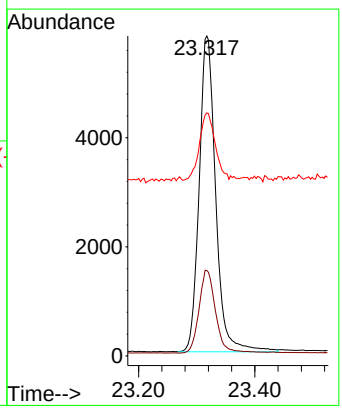




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 2846
Delta R.T. -0.003 min
Lab File: BN033508.D
Acq: 20 Aug 2024 16:28

Tgt Ion:264 Resp: 11428

Ion	Ratio	Lower	Upper
264	100		
260	26.7	20.8	31.2
265	76.0	52.2	78.2



Raw Data: **BN033493.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162787BS	SDG No.:	P3645
Lab Sample ID:	PB162787BS	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
BN033493.D	1	08/16/24 10:33	08/20/24 07:08	PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.36		0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.36		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.36		0.020	0.10	ug/L
83-32-9	Acenaphthene	0.36		0.020	0.10	ug/L
86-73-7	Fluorene	0.34		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.38		0.020	0.10	ug/L
120-12-7	Anthracene	0.36		0.020	0.10	ug/L
206-44-0	Fluoranthene	0.33		0.020	0.10	ug/L
129-00-0	Pyrene	0.38		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.38		0.020	0.10	ug/L
218-01-9	Chrysene	0.40		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.38		0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.39		0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.40		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.44		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.43		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.41		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.29		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.41		30 (20) - 150 (139)	101%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 (30) - 150 (150)	77%	SPK: 0.4
367-12-4	2-Fluorophenol	0.27		15 (10) - 110 (100)	67%	SPK: 0.4
13127-88-3	Phenol-d6	0.26		15 (10) - 110 (100)	65%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		30 (27) - 130 (123)	83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		30 (34) - 130 (132)	91%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.21		15 (10) - 110 (131)	52%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		30 (35) - 130 (157)	90%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7480	7.552			

Raw Data: **BN033493.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162787BS	SDG No.:	P3645
Lab Sample ID:	PB162787BS	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
BN033493.D	1	08/16/24 10:33	08/20/24 07:08	PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1146-65-2	Naphthalene-d8	18800	10.314			
15067-26-2	Acenaphthene-d10	8660	14.189			
1517-22-2	Phenanthrene-d10	16400	16.942			
1719-03-5	Chrysene-d12	9730	21.148			
1520-96-3	Perylene-d12	9900	23.314			

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\BN081924\
Data File : BN033493.D
Acq On : 20 Aug 2024 07:08
Operator : MA/JU
Sample : PB162787BS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Quant Time: Aug 20 07:49:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

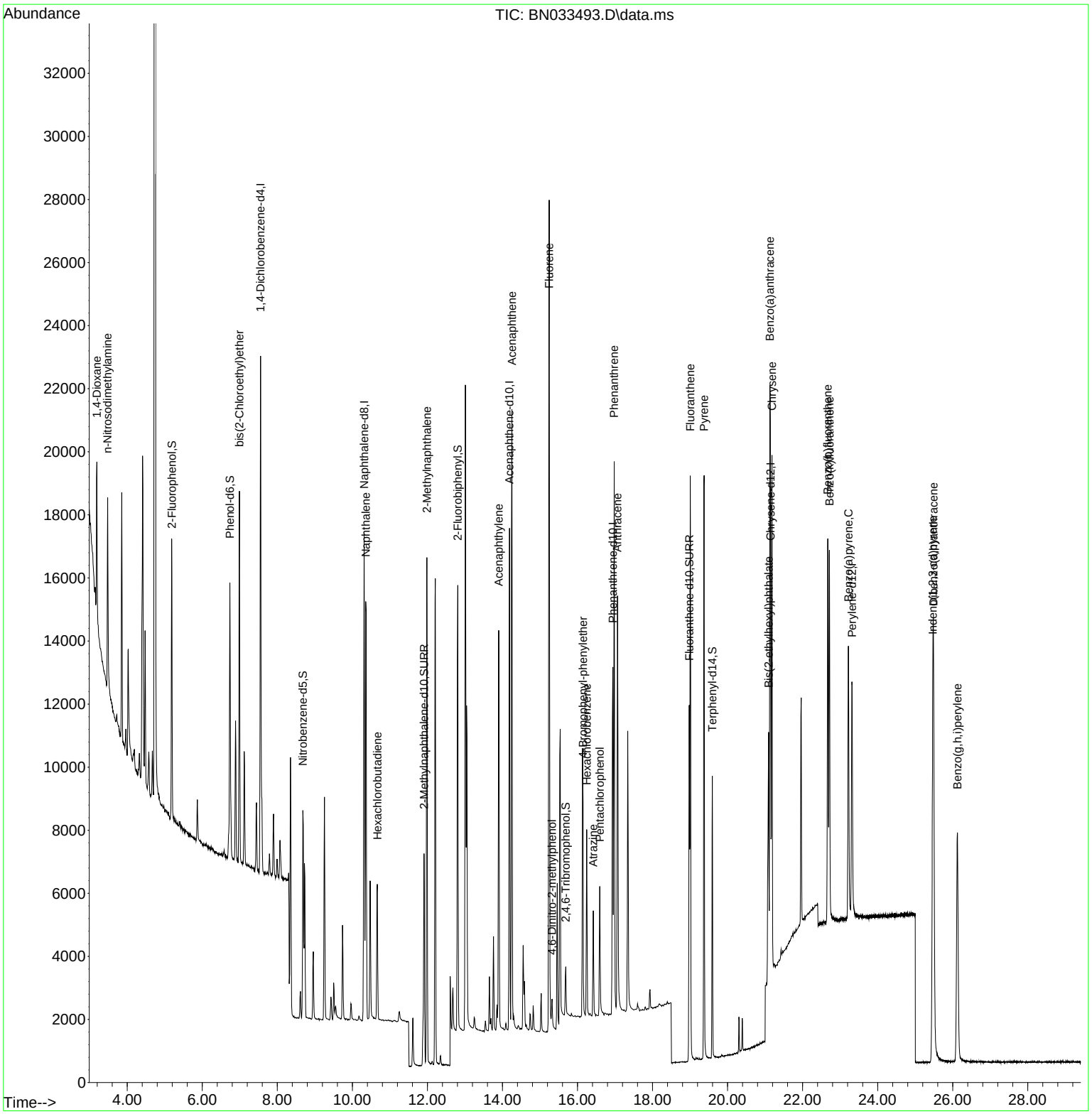
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	7475	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	18804	0.400	ng	# 0.00
13) Acenaphthene-d10	14.189	164	8660	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	16363	0.400	ng	0.00
29) Chrysene-d12	21.148	240	9727	0.400	ng	0.00
35) Perylene-d12	23.314	264	9901	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	6320	0.266	ng	0.00
5) Phenol-d6	6.736	99	7375	0.261	ng	0.00
8) Nitrobenzene-d5	8.681	82	5187	0.333	ng	-0.01
11) 2-Methylnaphthalene-d10	11.911	152	10919	0.406	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	976	0.210	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	12855	0.363	ng	0.00
27) Fluoranthene-d10	18.980	212	12153	0.309	ng	0.00
31) Terphenyl-d14	19.593	244	8009	0.362	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.190	88	2502	0.291	ng	# 43
3) n-Nitrosodimethylamine	3.479	42	3593	0.359	ng	# 90
6) bis(2-Chloroethyl)ether	6.989	93	7518	0.375	ng	98
9) Naphthalene	10.357	128	18217	0.363	ng	100
10) Hexachlorobutadiene	10.667	225	3599	0.359	ng	# 100
12) 2-Methylnaphthalene	11.986	142	11293	0.355	ng	99
16) Acenaphthylene	13.900	152	13767	0.362	ng	100
17) Acenaphthene	14.253	154	9731	0.364	ng	98
18) Fluorene	15.247	166	11560	0.343	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	694	0.272	ng	98
21) 4-Bromophenyl-phenylether	16.147	248	3525	0.355	ng	93
22) Hexachlorobenzene	16.247	284	4139	0.377	ng	98
23) Atrazine	16.420	200	2437	0.307	ng	97
24) Pentachlorophenol	16.594	266	2021	0.425	ng	97
25) Phenanthrene	16.979	178	17112	0.376	ng	100
26) Anthracene	17.066	178	14364	0.357	ng	100
28) Fluoranthene	19.007	202	16395	0.326	ng	100
30) Pyrene	19.374	202	16544	0.381	ng	100
32) Benzo(a)anthracene	21.130	228	13209	0.376	ng	100
33) Chrysene	21.184	228	13958	0.399	ng	100
34) Bis(2-ethylhexyl)phtha...	21.095	149	6519	0.293	ng	98
36) Indeno(1,2,3-cd)pyrene	25.469	276	17866	0.435	ng	100
37) Benzo(b)fluoranthene	22.671	252	14196	0.384	ng	98
38) Benzo(k)fluoranthene	22.715	252	14258	0.392	ng	98
39) Benzo(a)pyrene	23.221	252	12298	0.402	ng	97
40) Dibenzo(a,h)anthracene	25.490	278	14068	0.428	ng	98
41) Benzo(g,h,i)perylene	26.127	276	14504	0.413	ng	99

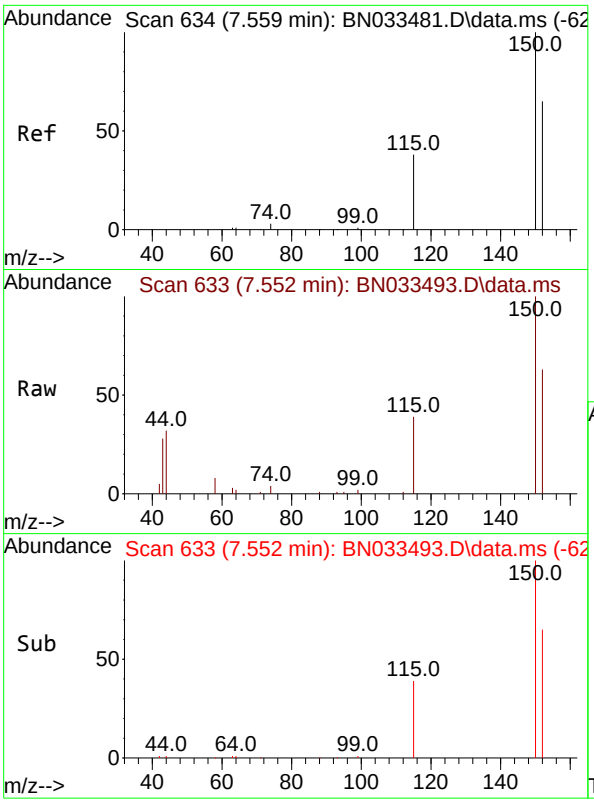
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033493.D
Acq On : 20 Aug 2024 07:08
Operator : MA/JU
Sample : PB162787BS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Quant Time: Aug 20 07:49:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration



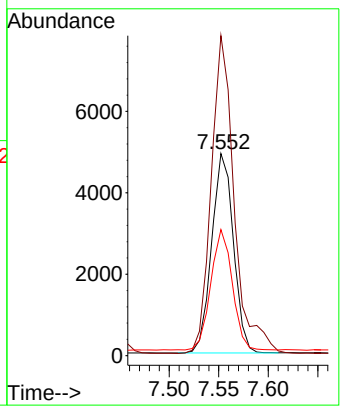


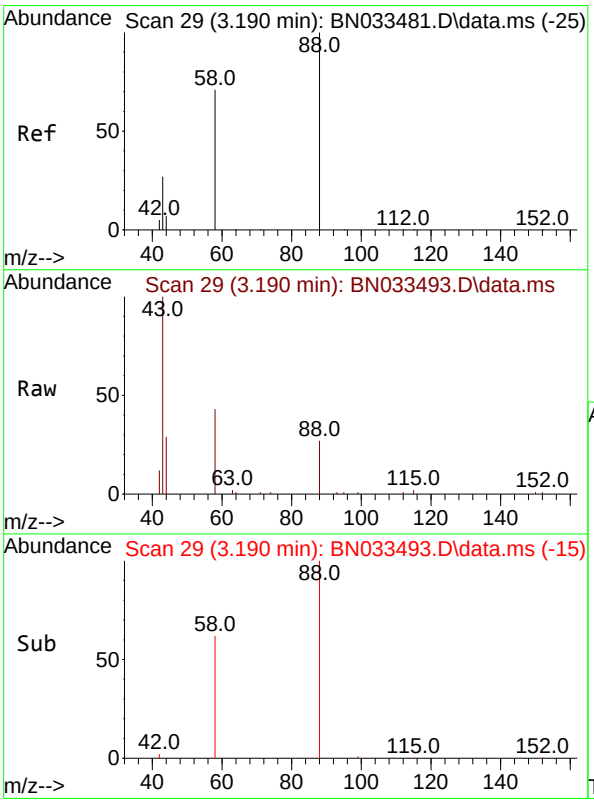
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.552 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:152 Resp: 7475

Ion	Ratio	Lower	Upper
152	100		
150	158.4	122.2	183.2
115	62.4	47.2	70.8

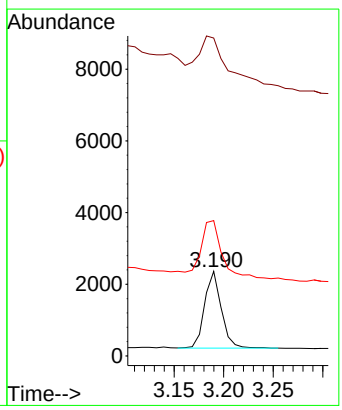


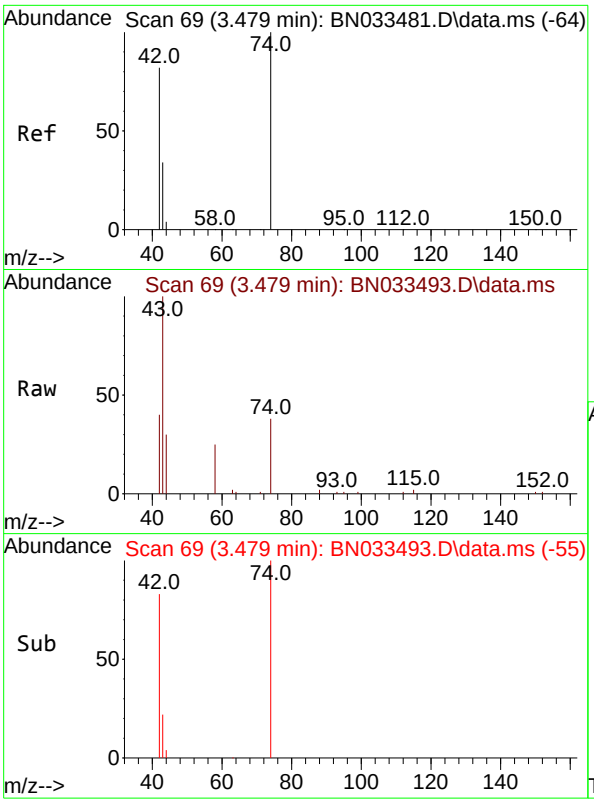


#2
1,4-Dioxane
Concen: 0.291 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion: 88 Resp: 2502

Ion	Ratio	Lower	Upper
88	100		
43	113.7	25.0	37.4#
58	95.5	62.5	93.7#



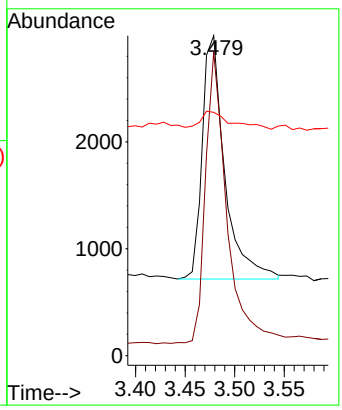


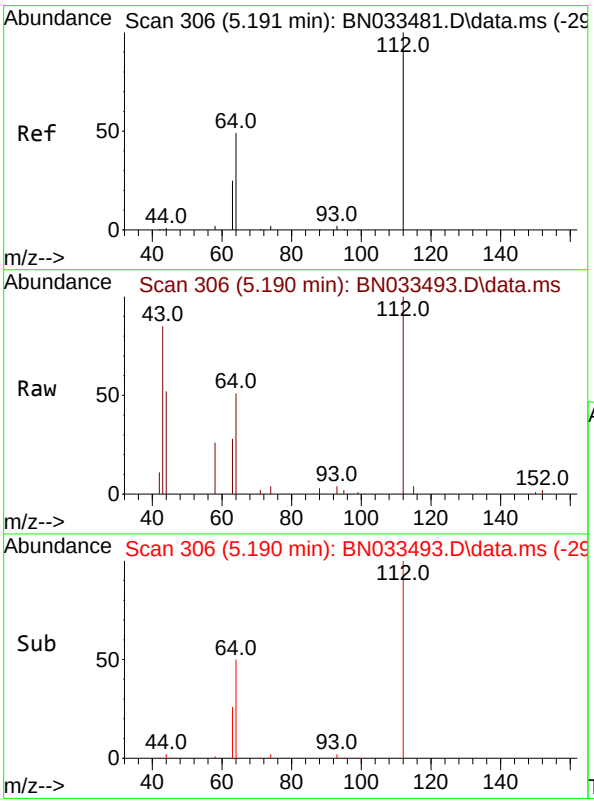
#3
n-Nitrosodimethylamine
Concen: 0.359 ng
RT: 3.479 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion: 42 Resp: 3593

Ion	Ratio	Lower	Upper
42	100		
74	113.8	100.2	150.2
44	10.0	5.3	7.9#

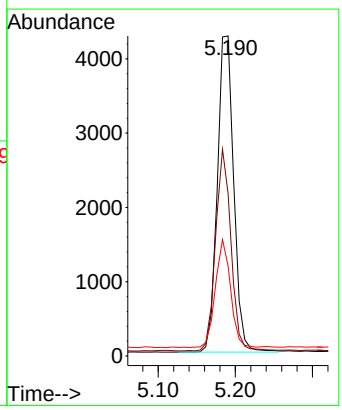


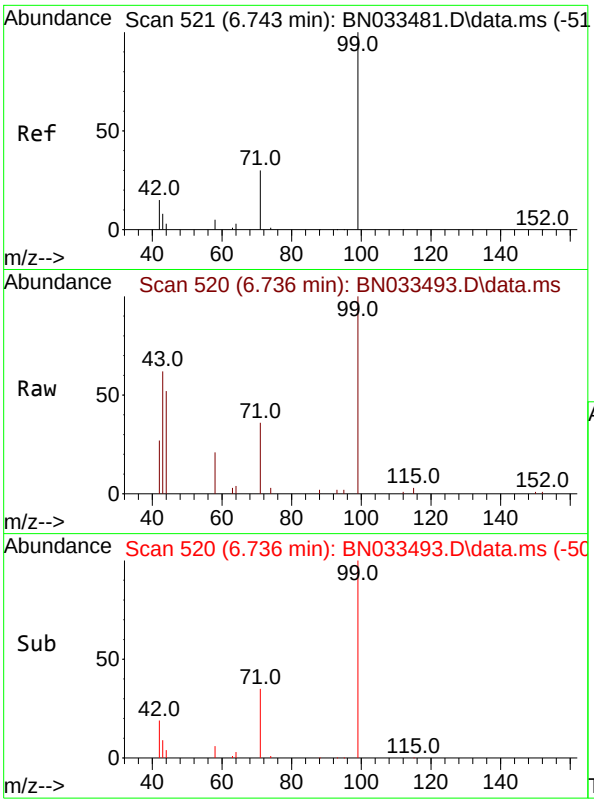


#4
2-Fluorophenol
Concen: 0.266 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:112 Resp: 6320

Ion	Ratio	Lower	Upper
112	100		
64	59.4	47.1	70.7
63	31.4	24.9	37.3



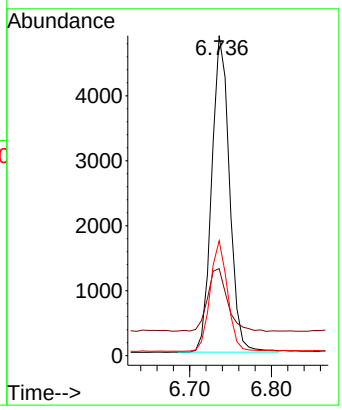


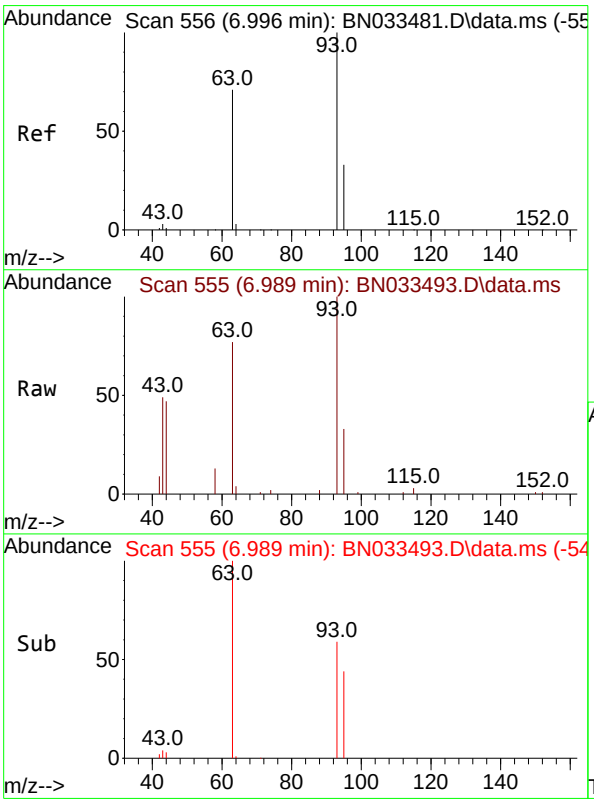
#5
Phenol-d6
Concen: 0.261 ng
RT: 6.736 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion: 99 Resp: 7375

Ion	Ratio	Lower	Upper
99	100		
42	21.9	16.6	24.8
71	34.2	26.2	39.4

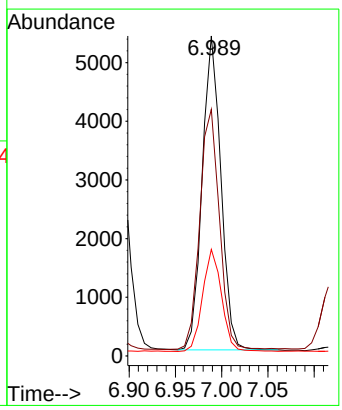


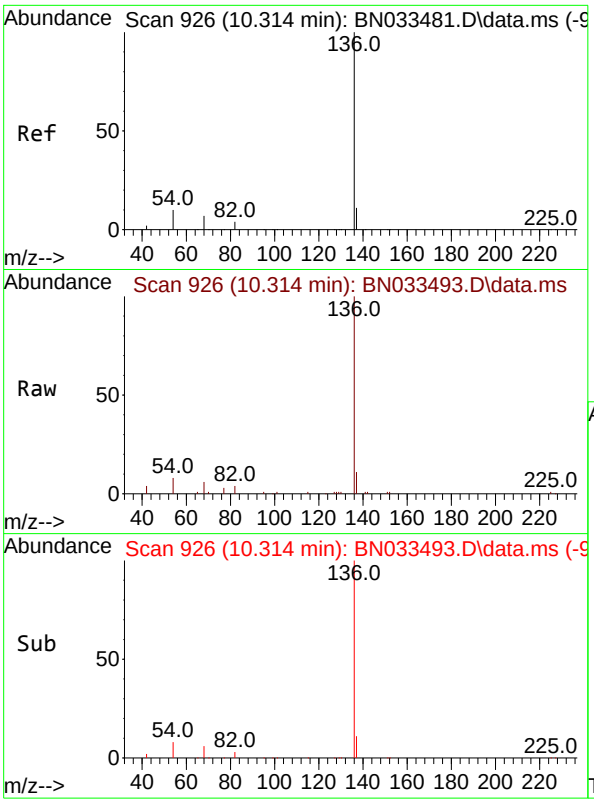


#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion: 93 Resp: 7518

Ion	Ratio	Lower	Upper
93	100		
63	80.6	63.0	94.4
95	32.9	26.0	39.0



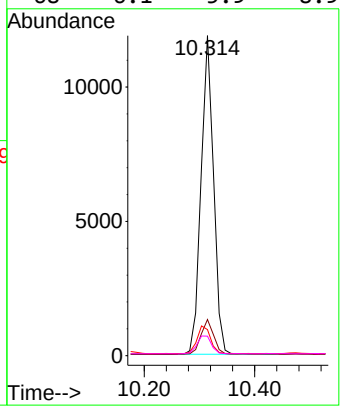


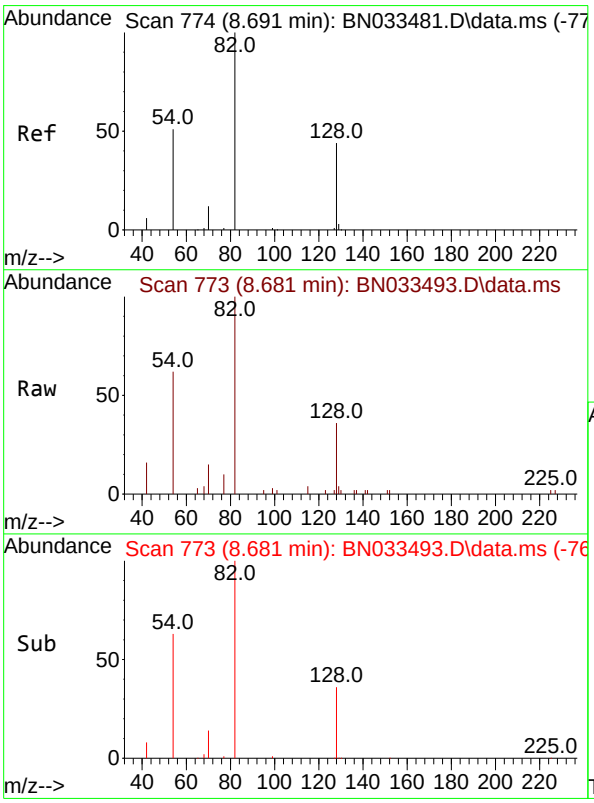
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:136 Resp: 18804

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	8.1	8.3	12.5#
68	6.1	5.9	8.9

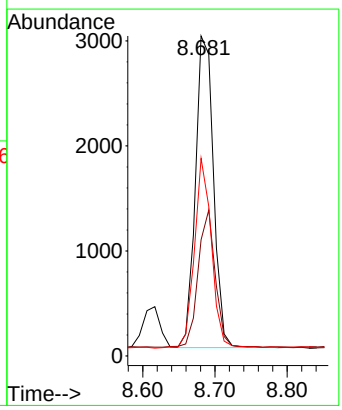


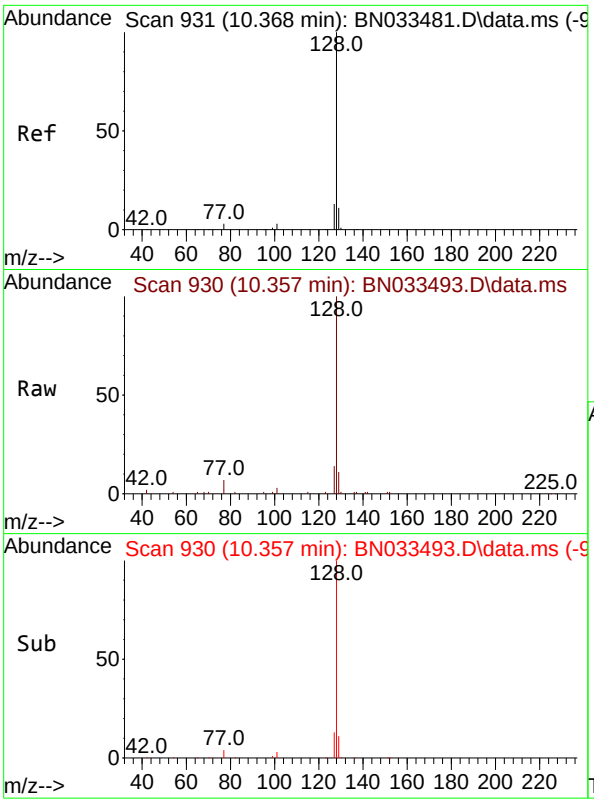


#8
Nitrobenzene-d5
Concen: 0.333 ng
RT: 8.681 min Scan# 773
Delta R.T. -0.011 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion: 82 Resp: 5187

Ion	Ratio	Lower	Upper
82	100		
128	36.3	36.0	54.0
54	61.7	42.0	63.0



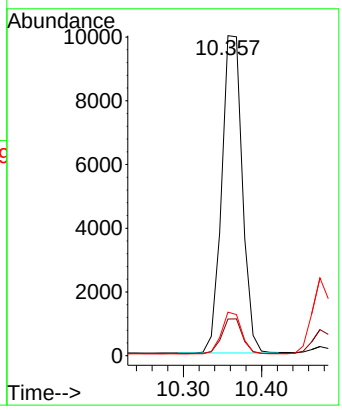


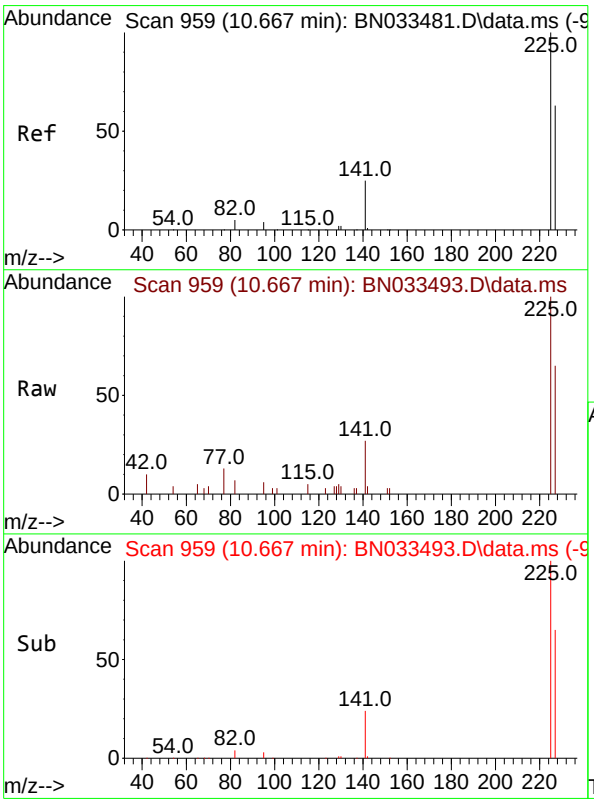
#9
Naphthalene
Concen: 0.363 ng
RT: 10.357 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:128 Resp: 18217

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.6	10.7	16.1

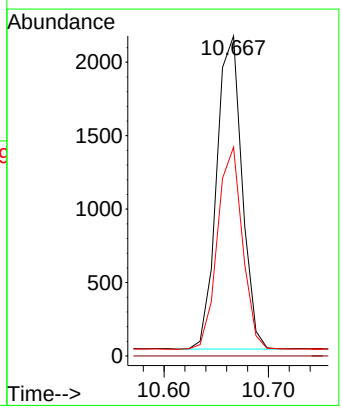


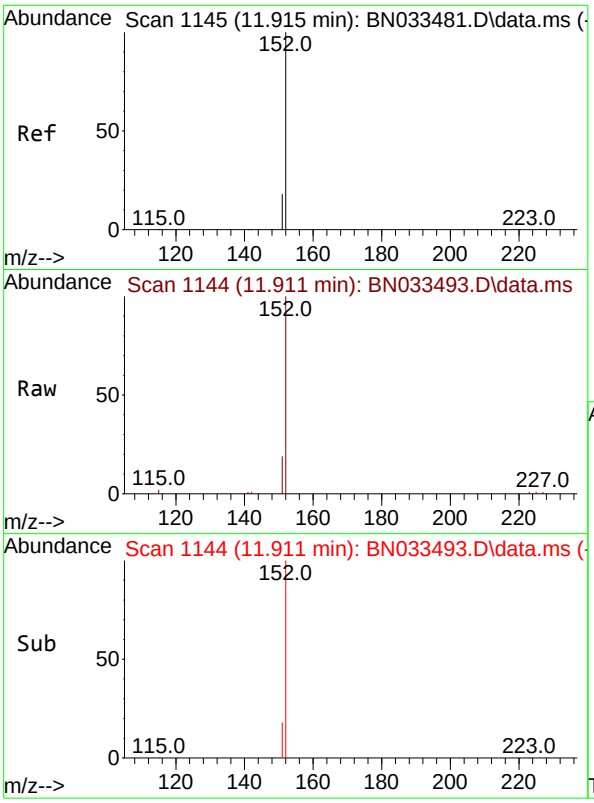


#10
Hexachlorobutadiene
Concen: 0.359 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:225 Resp: 3599

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.2	76.8



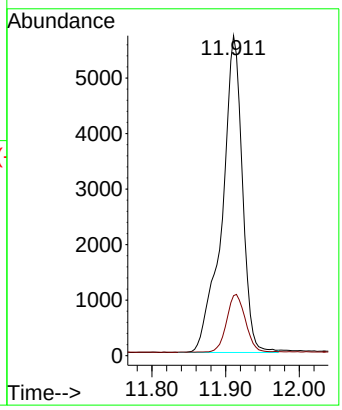


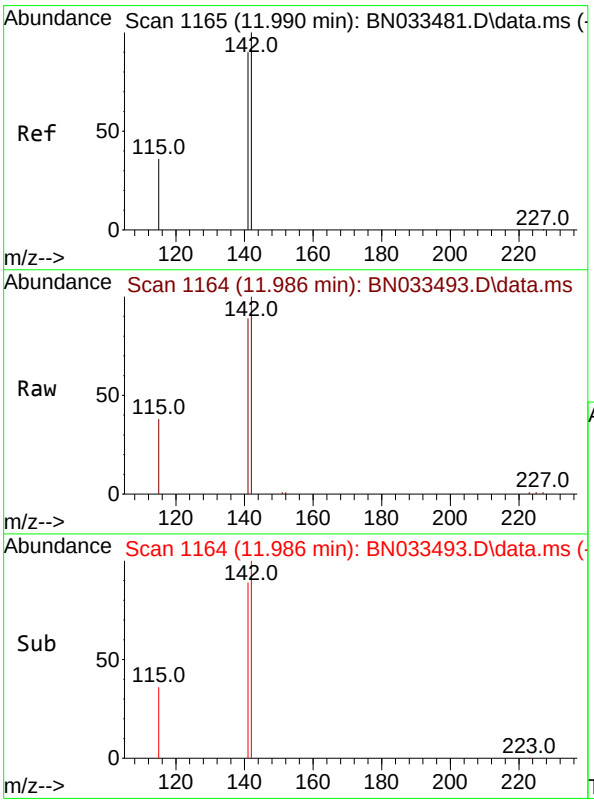
#11
2-Methylnaphthalene-d10
Concen: 0.406 ng
RT: 11.911 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:152 Resp: 10919

Ion	Ratio	Lower	Upper
152	100		
151	17.1	16.6	25.0

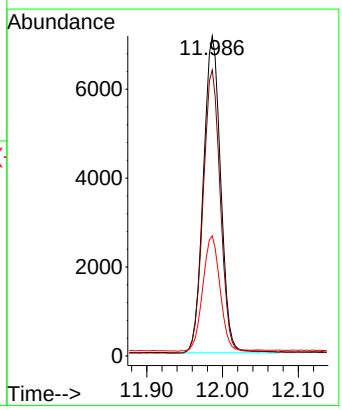


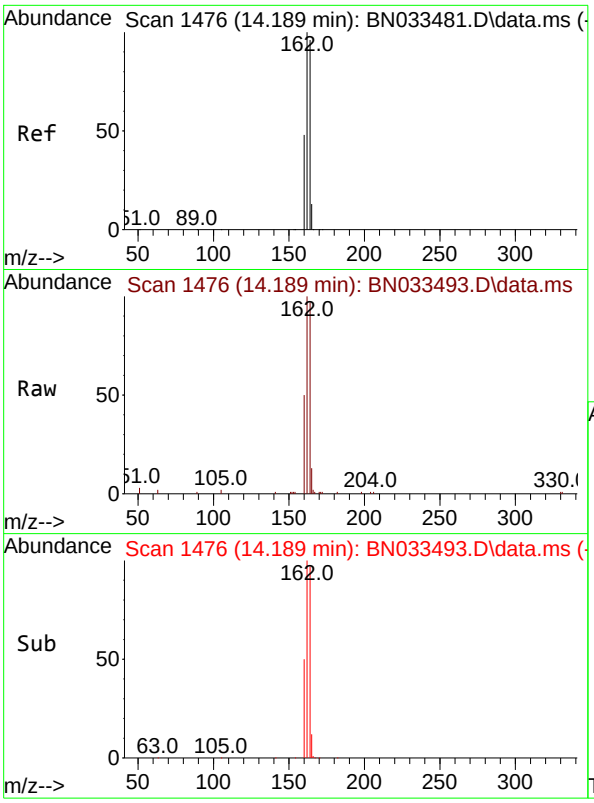


#12
2-Methylnaphthalene
Concen: 0.355 ng
RT: 11.986 min Scan# 1164
Delta R.T. -0.004 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:142 Resp: 11293

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.7	107.5
115	37.5	29.4	44.2



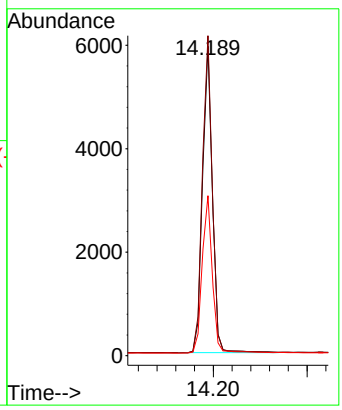


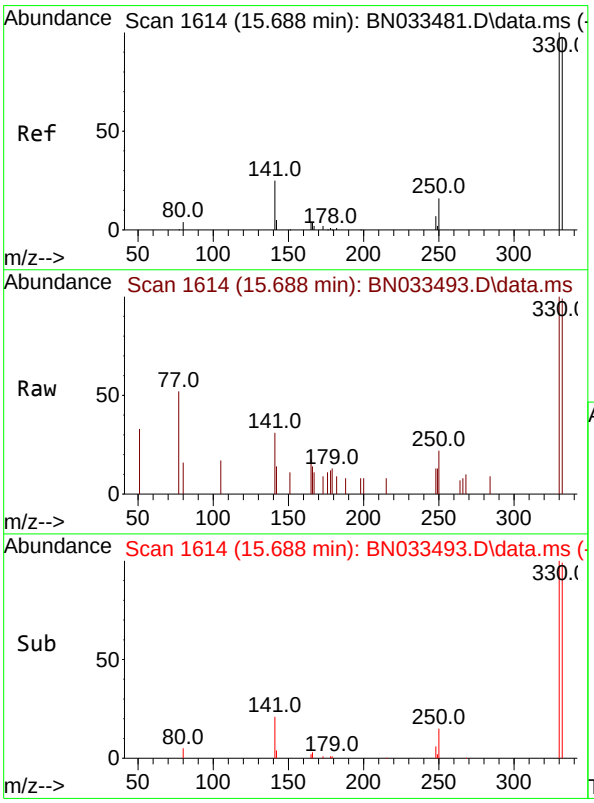
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:164 Resp: 8660

Ion	Ratio	Lower	Upper
164	100		
162	103.4	83.5	125.3
160	51.7	40.2	60.4

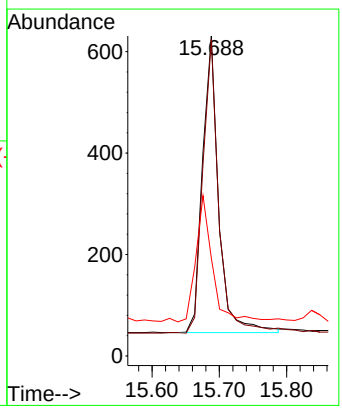


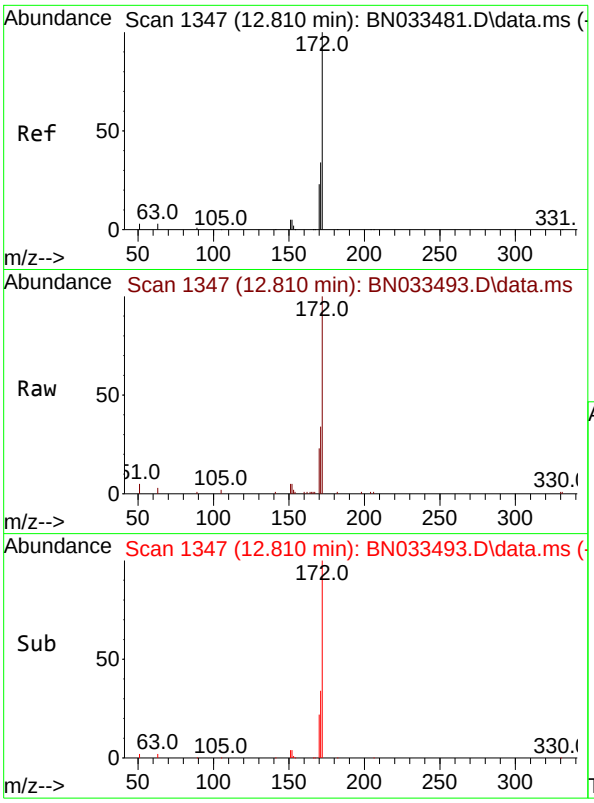


#14
2,4,6-Tribromophenol
Concen: 0.210 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:330 Resp: 976

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.5	116.3
141	42.9	33.9	50.9



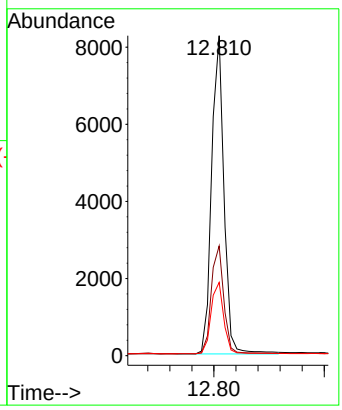


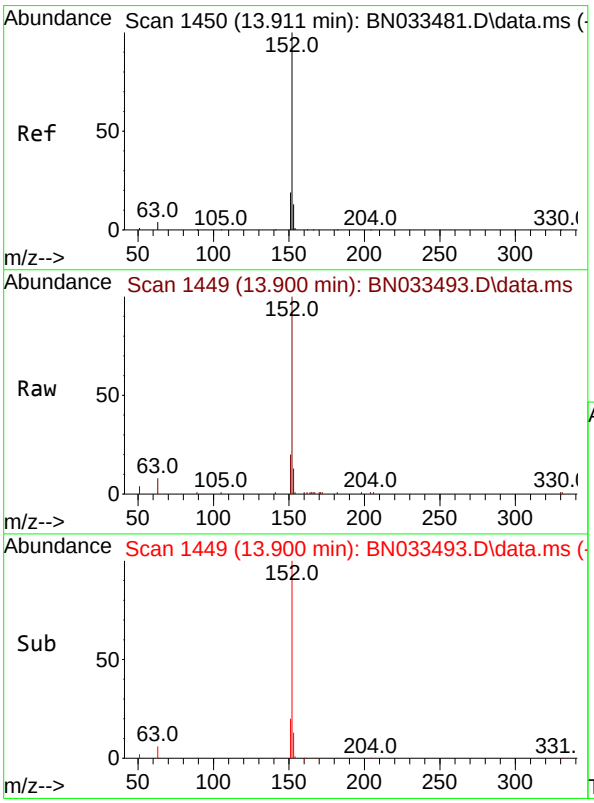
#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:172 Resp: 12855

Ion	Ratio	Lower	Upper
172	100		
171	34.3	27.7	41.5
170	22.9	18.3	27.5

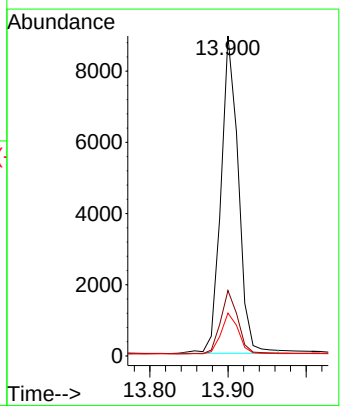


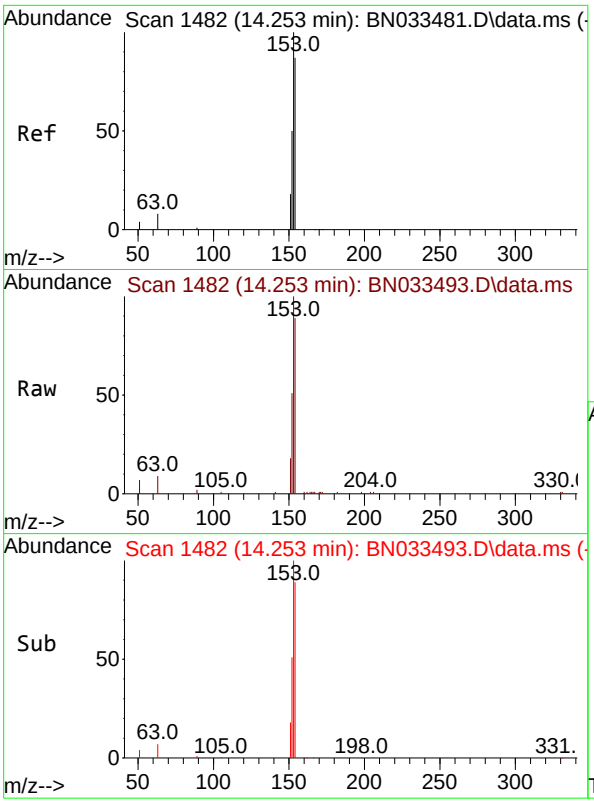


#16
Acenaphthylene
Concen: 0.362 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:152 Resp: 13767

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.7	23.5
153	12.8	10.3	15.5



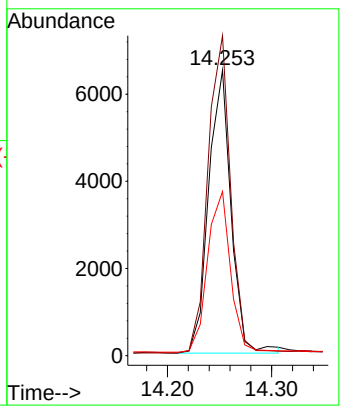


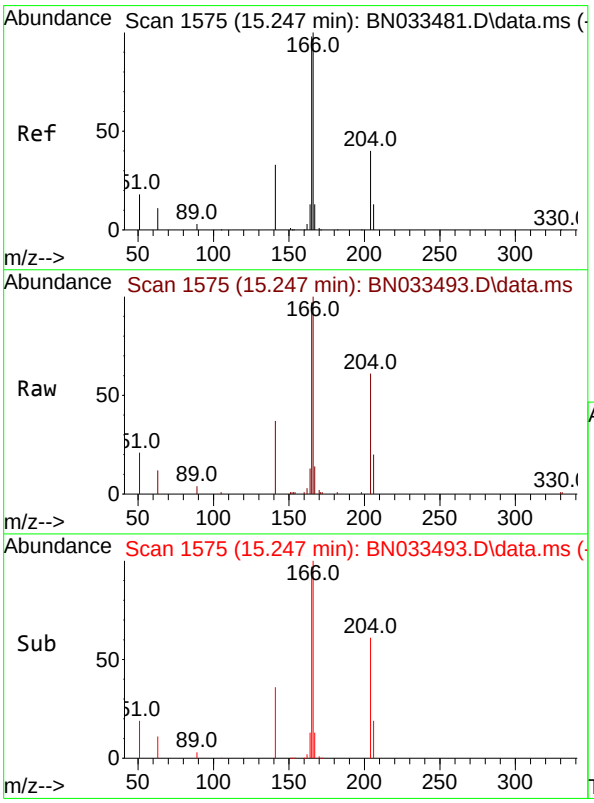
#17
Acenaphthene
Concen: 0.364 ng
RT: 14.253 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:154 Resp: 9731

Ion	Ratio	Lower	Upper
154	100		
153	112.9	89.0	133.6
152	57.9	45.2	67.8

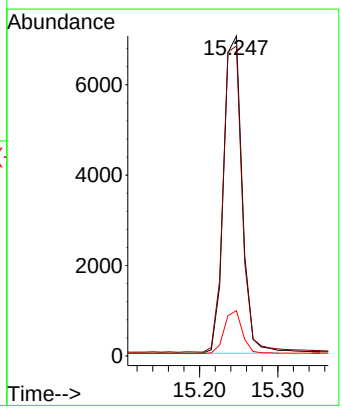


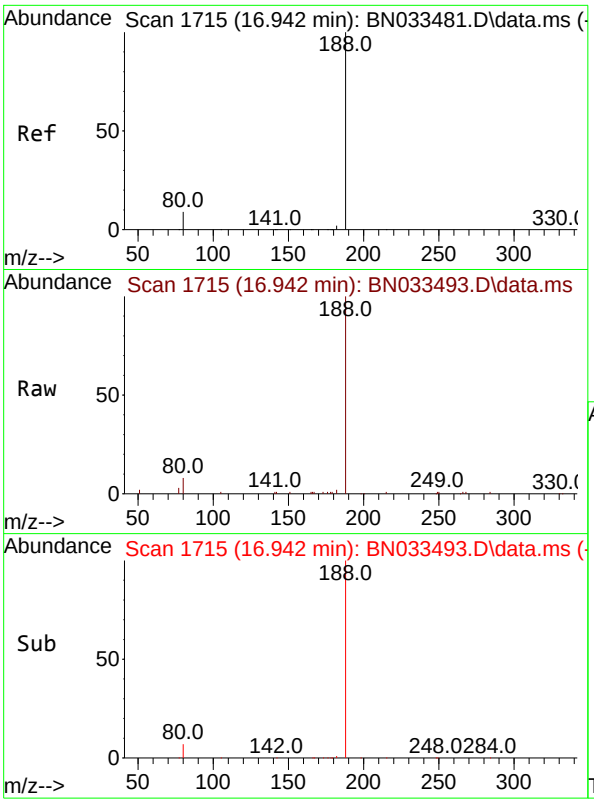


#18
Fluorene
Concen: 0.343 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:166 Resp: 11560

Ion	Ratio	Lower	Upper
166	100		
165	98.3	78.2	117.4
167	13.2	10.6	16.0



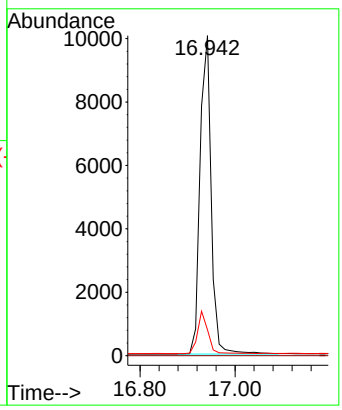


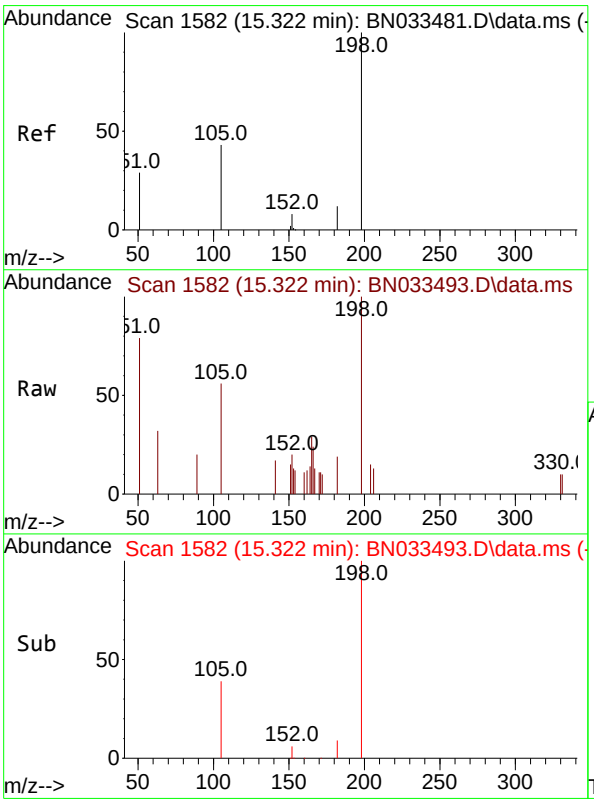
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:188 Resp: 16363

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.1	7.8	11.8

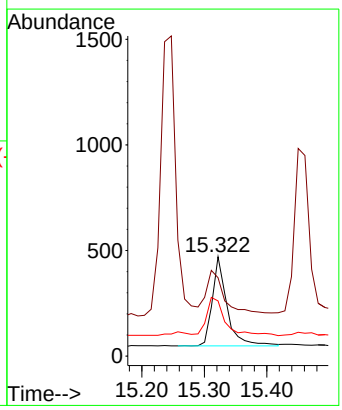


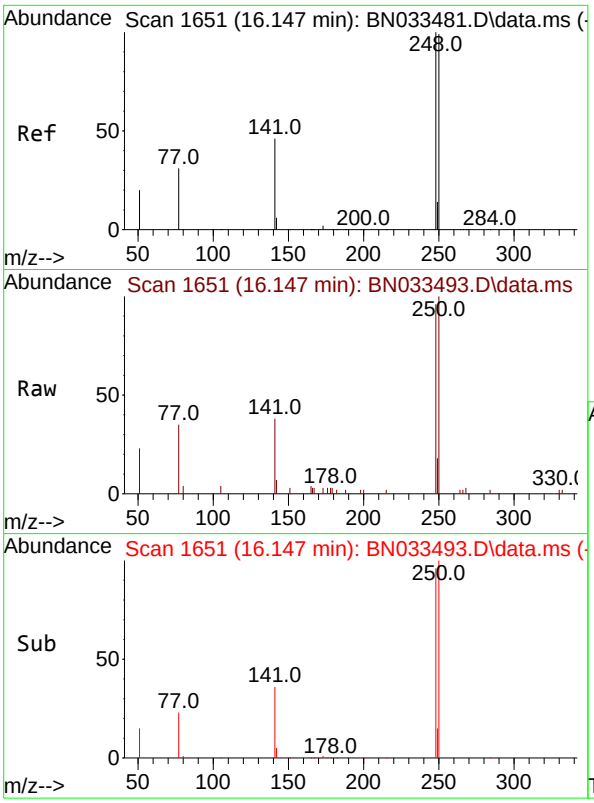


#20
4,6-Dinitro-2-methylphenol
Concen: 0.272 ng
RT: 15.322 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:198 Resp: 694

Ion	Ratio	Lower	Upper
198	100		
51	78.9	65.1	97.7
105	55.5	44.8	67.2



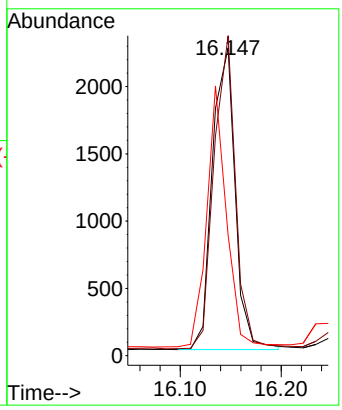


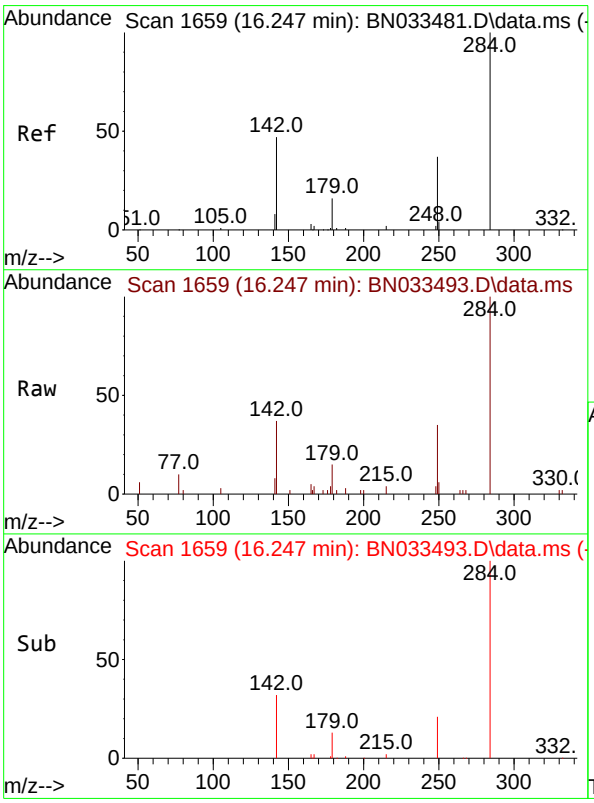
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 16.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:248 Resp: 3525

Ion	Ratio	Lower	Upper
248	100		
250	104.0	79.2	118.8
141	39.2	37.9	56.9

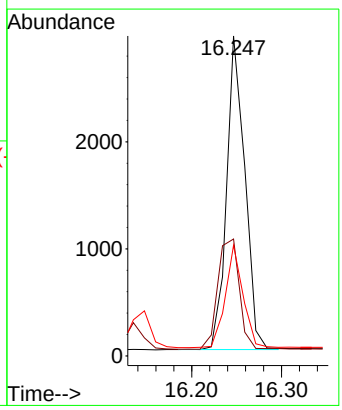


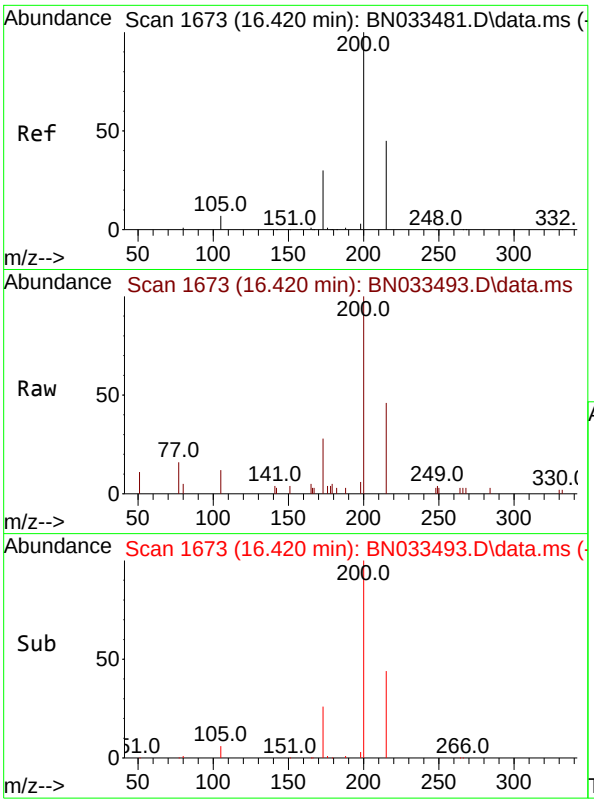


#22
Hexachlorobenzene
Concen: 0.377 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:284 Resp: 4139

Ion	Ratio	Lower	Upper
284	100		
142	41.5	31.8	47.6
249	31.5	26.0	39.0



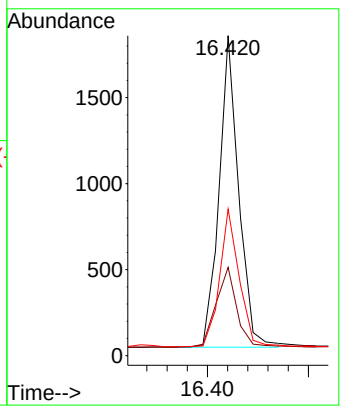


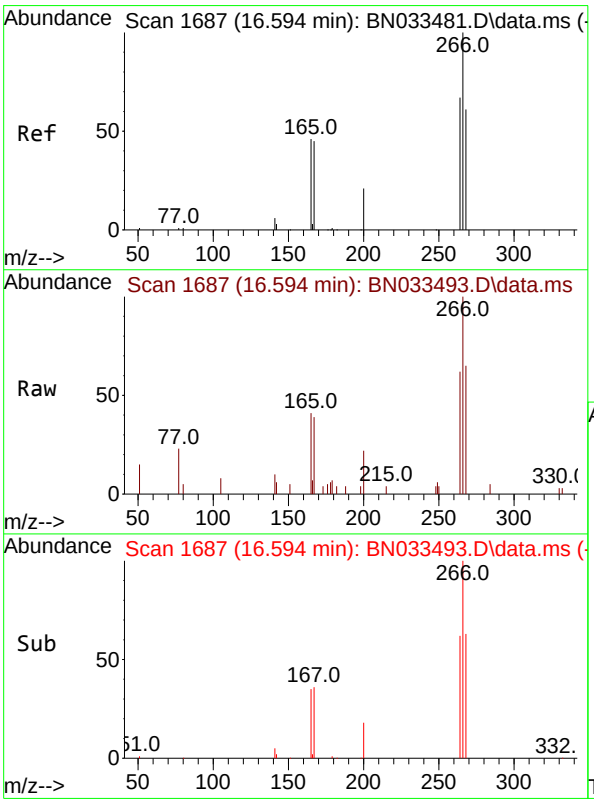
#23
Atrazine
Concen: 0.307 ng
RT: 16.420 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:200 Resp: 2437

Ion	Ratio	Lower	Upper
200	100		
173	27.6	25.3	37.9
215	45.8	36.6	54.8

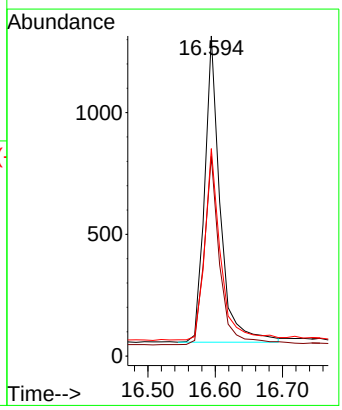


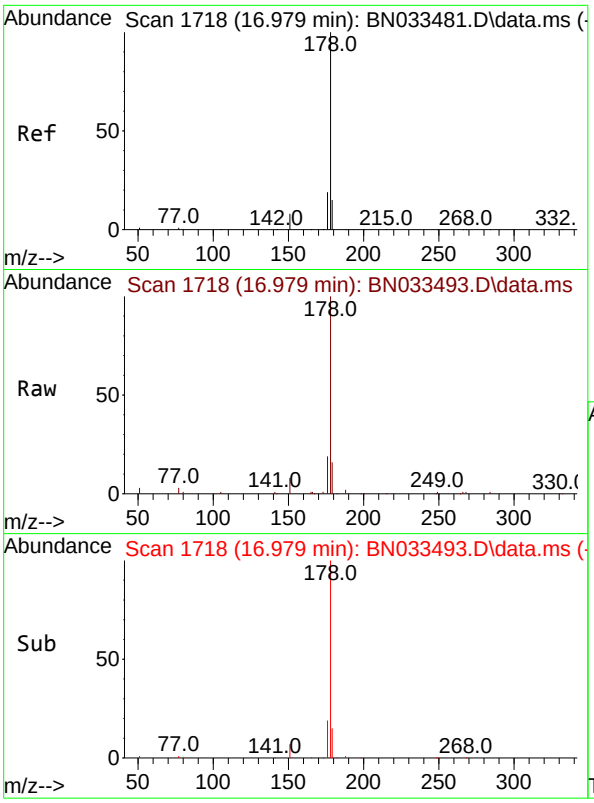


#24
Pentachlorophenol
Concen: 0.425 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:266 Resp: 2021

Ion	Ratio	Lower	Upper
266	100		
264	60.3	51.9	77.9
268	63.1	51.0	76.4



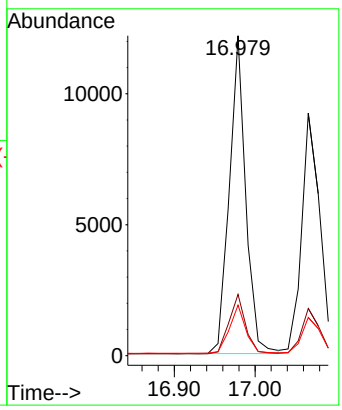


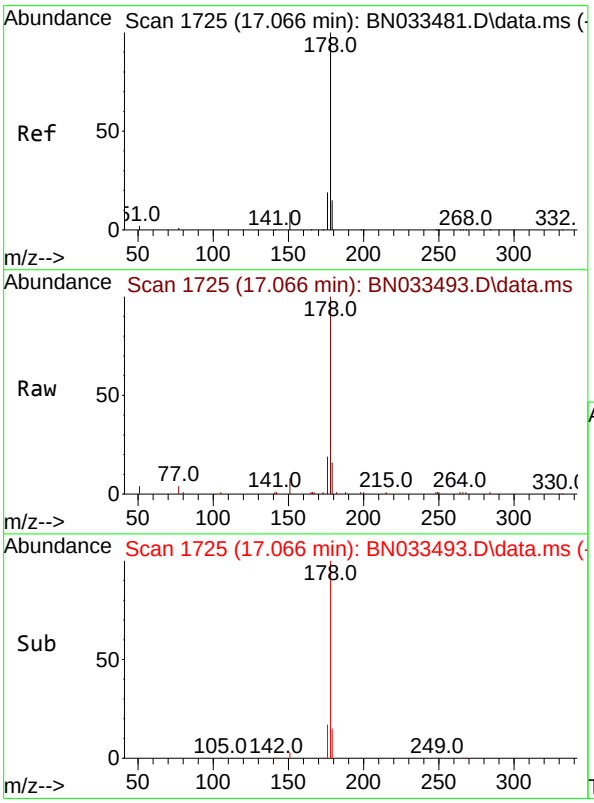
#25
Phenanthrene
Concen: 0.376 ng
RT: 16.979 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:178 Resp: 17112

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.2	12.3	18.5

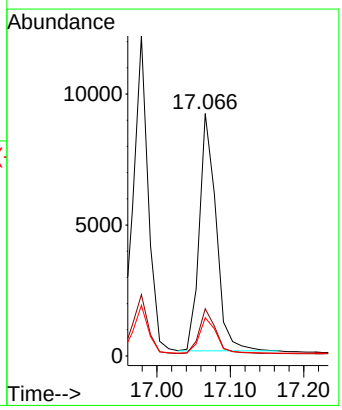


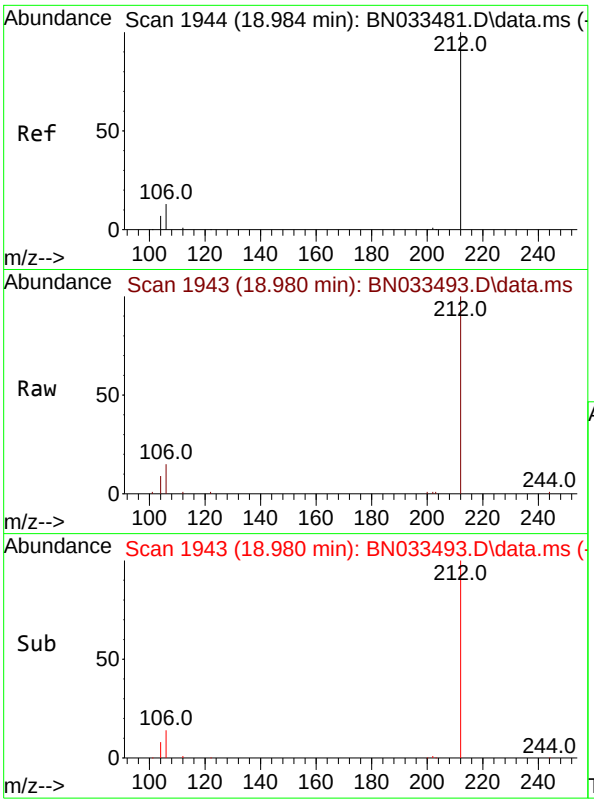


#26
Anthracene
Concen: 0.357 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:178 Resp: 14364

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.2	12.4	18.6



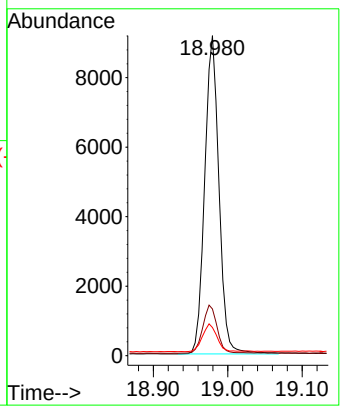


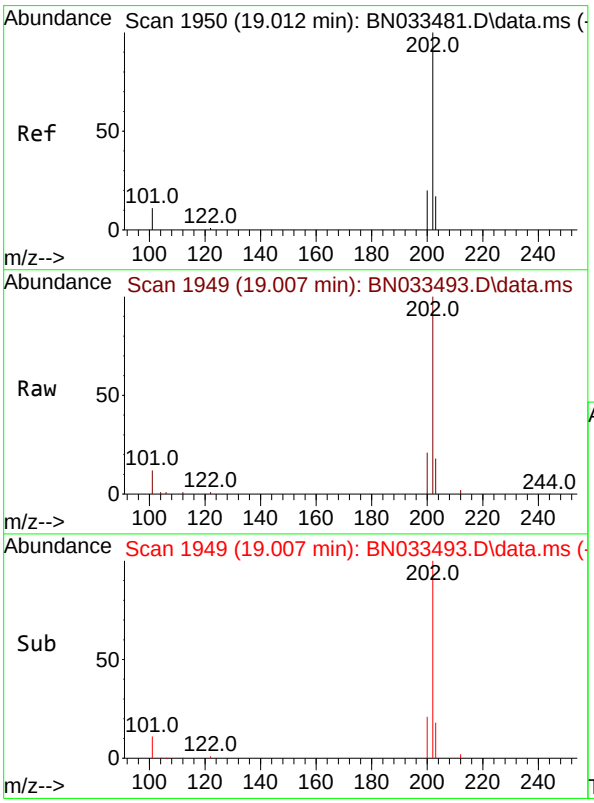
#27
Fluoranthene-d10
Concen: 0.309 ng
RT: 18.980 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:212 Resp: 12153

Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.3	18.5
104	8.7	7.0	10.4

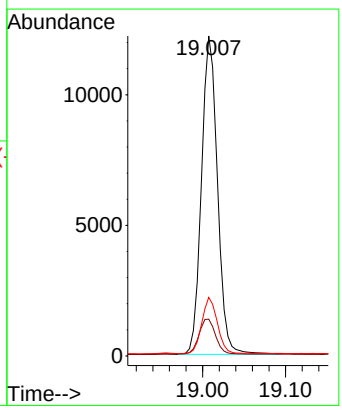


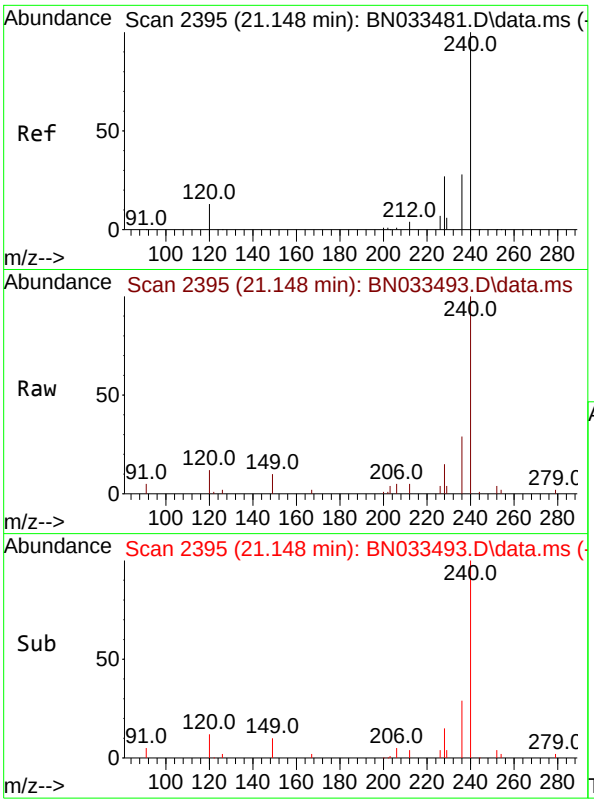


#28
Fluoranthene
Concen: 0.326 ng
RT: 19.007 min Scan# 1949
Delta R.T. -0.005 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:202 Resp: 16395

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.5	14.3
203	17.2	13.8	20.6



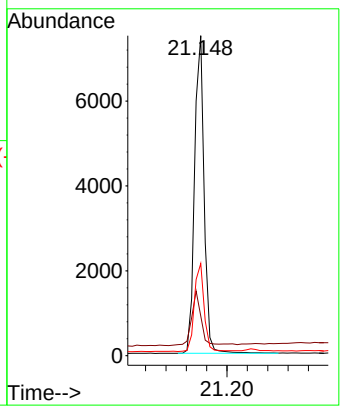


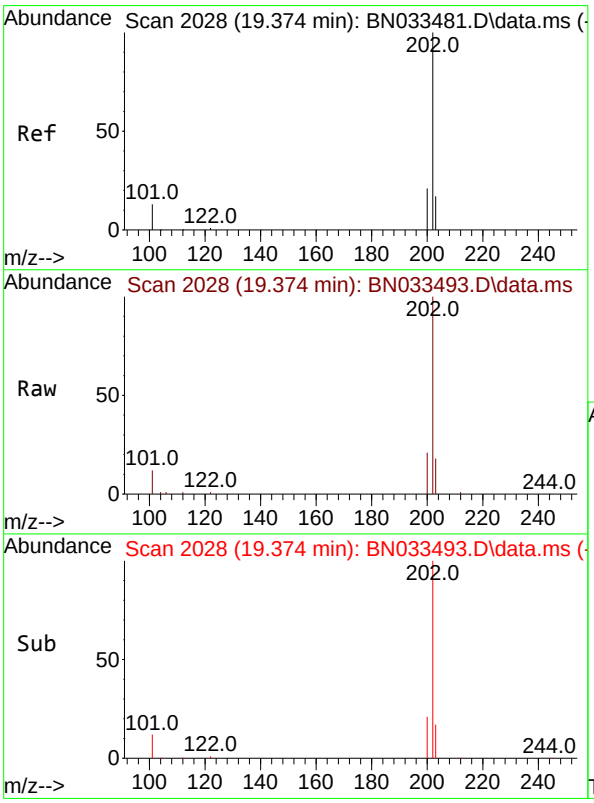
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:240 Resp: 9727

Ion	Ratio	Lower	Upper
240	100		
120	12.4	12.4	18.6
236	28.8	23.0	34.6

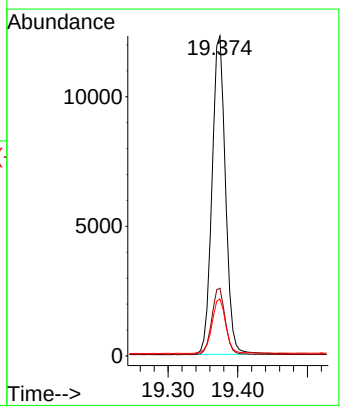


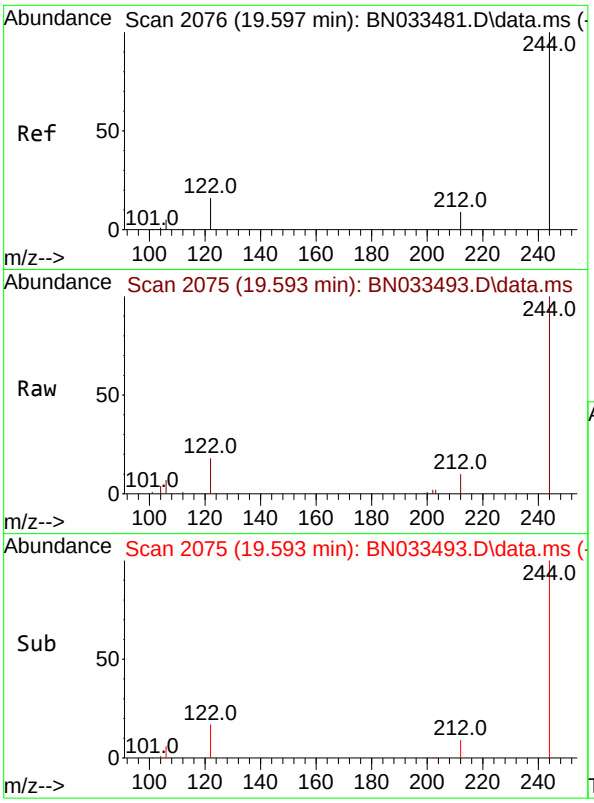


#30
Pyrene
Concen: 0.381 ng
RT: 19.374 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:202 Resp: 16544

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	17.6	14.2	21.4



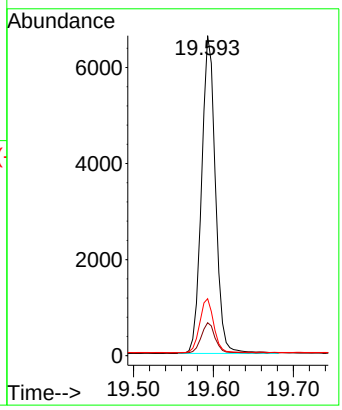


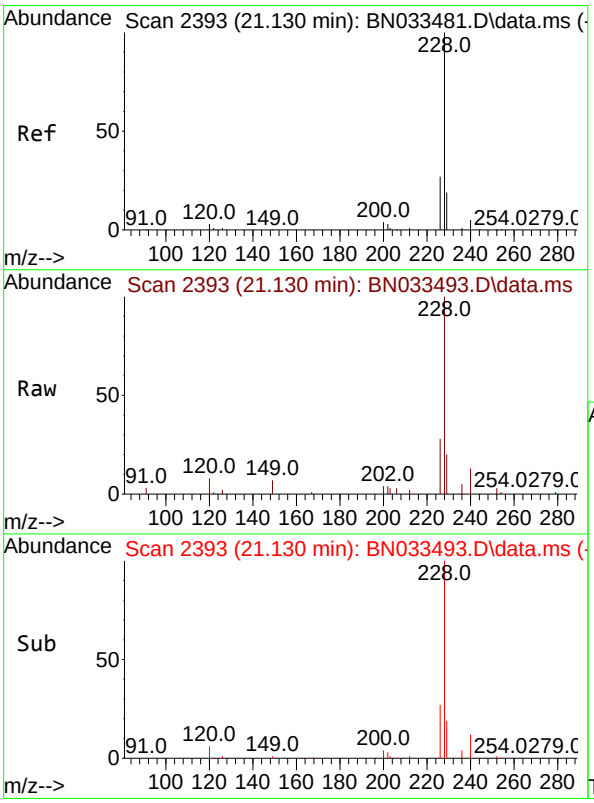
#31
Terphenyl-d14
Concen: 0.362 ng
RT: 19.593 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:244 Resp: 8009

Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.8	11.6
122	17.8	13.3	19.9

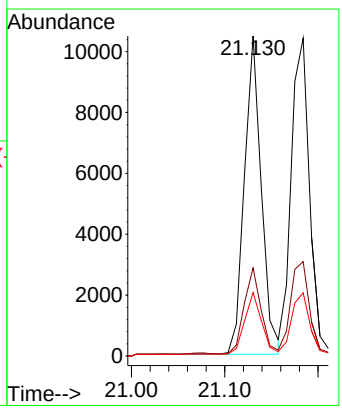


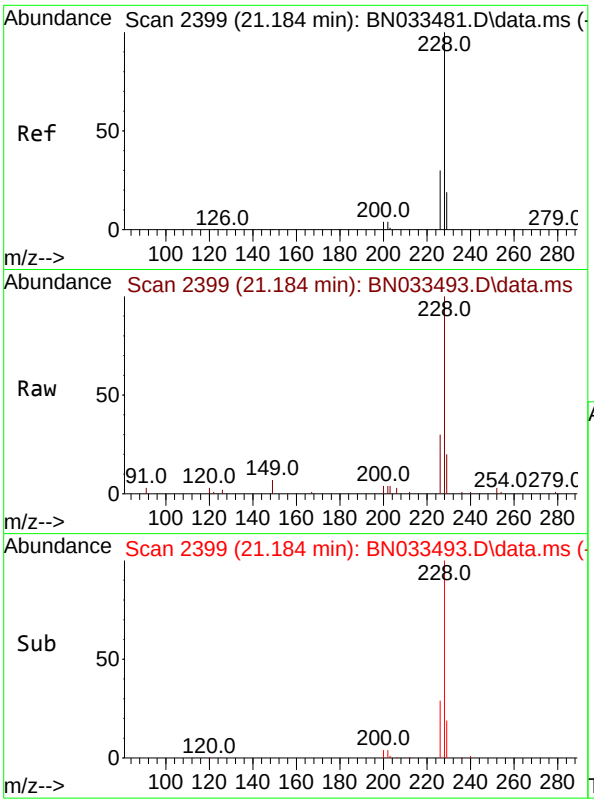


#32
Benzo(a)anthracene
Concen: 0.376 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:228 Resp: 13209

Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.8	32.6
229	19.8	15.8	23.6



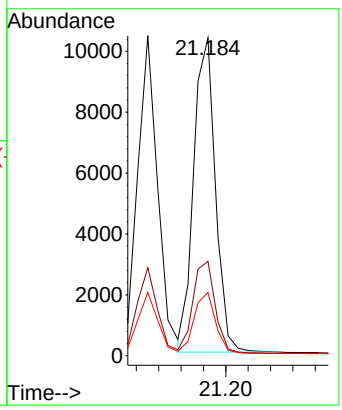


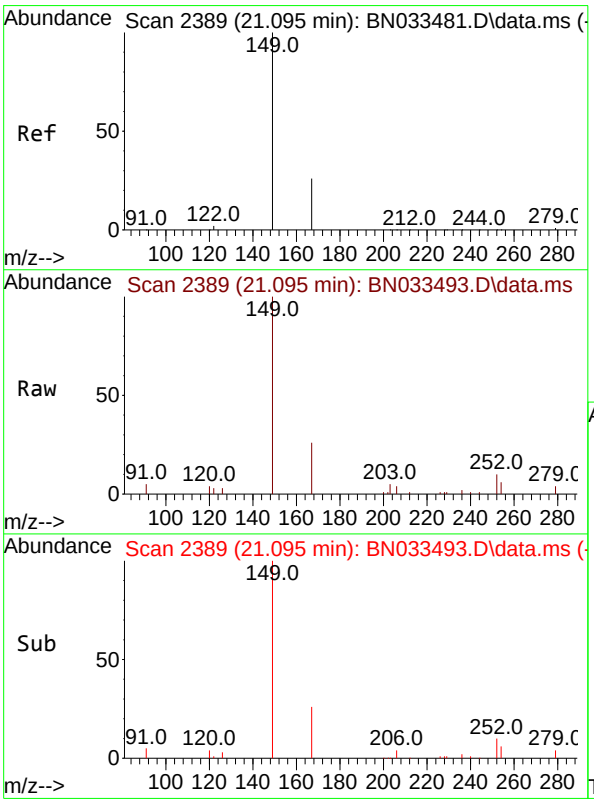
#33
Chrysene
Concen: 0.399 ng
RT: 21.184 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:228 Resp: 13958

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.8	35.8
229	19.9	15.6	23.4

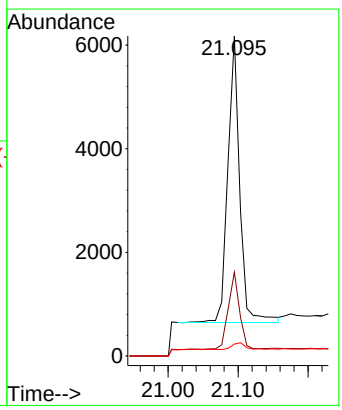


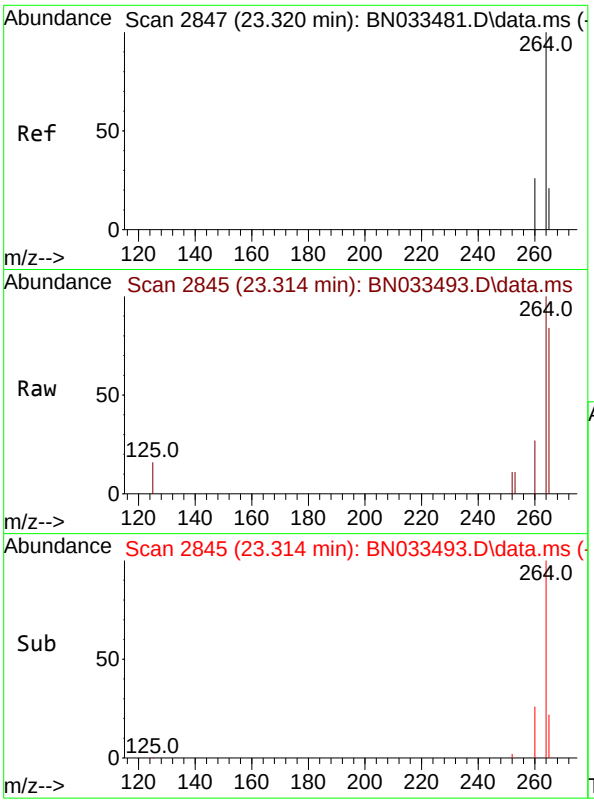


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.293 ng
RT: 21.095 min Scan# 2389
Delta R.T. -0.000 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:149 Resp: 6519

Ion	Ratio	Lower	Upper
149	100		
167	25.9	21.5	32.3
279	2.7	2.2	3.2



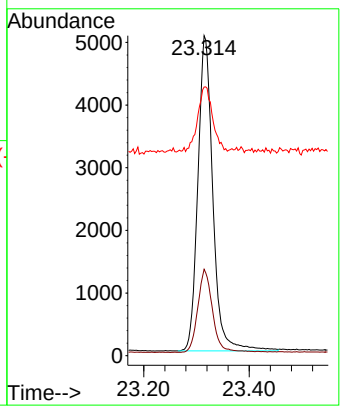


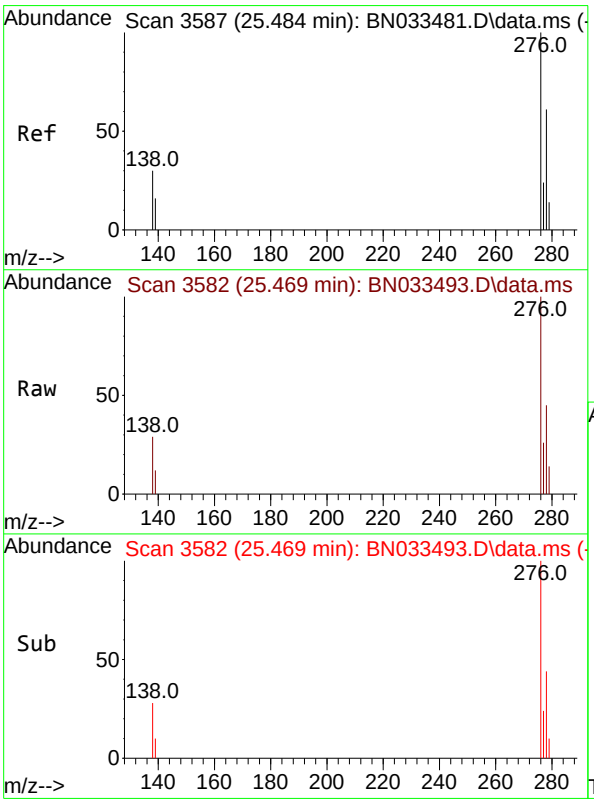
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.314 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:264 Resp: 9901

Ion	Ratio	Lower	Upper
264	100		
260	27.0	20.8	31.2
265	84.0	52.2	78.2#

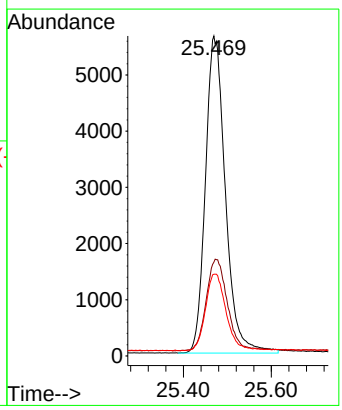


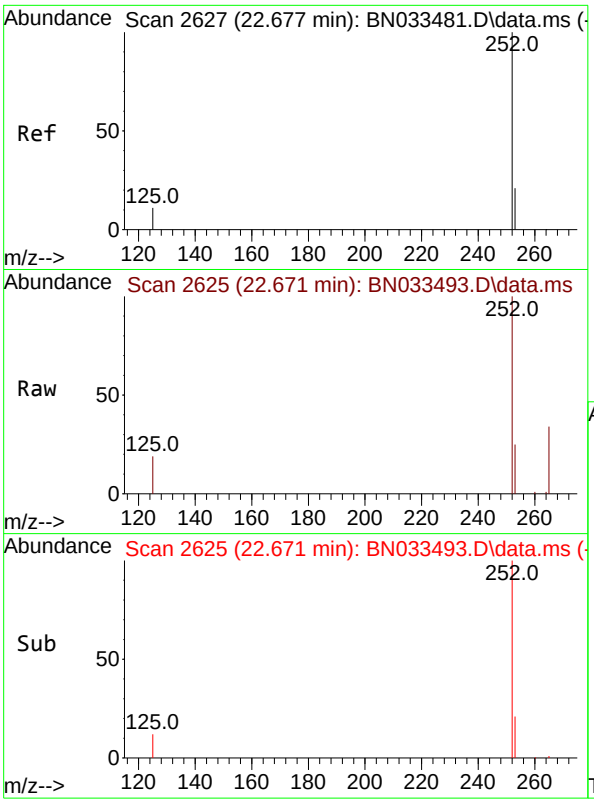


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.435 ng
RT: 25.469 min Scan# 3582
Delta R.T. -0.015 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:276 Resp: 17866

Ion	Ratio	Lower	Upper
276	100		
138	30.3	24.4	36.6
277	24.4	19.8	29.6



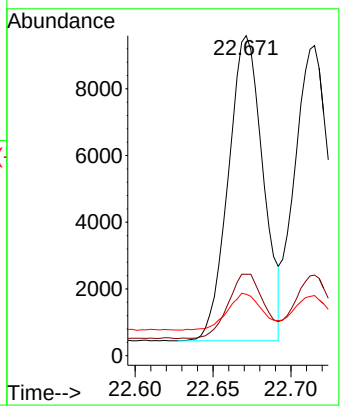


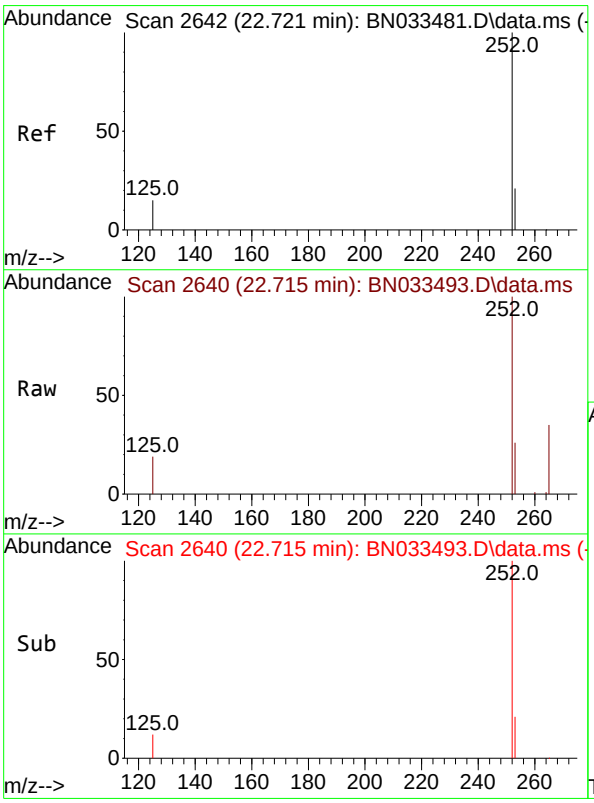
#37
Benzo(b)fluoranthene
Concen: 0.384 ng
RT: 22.671 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:252 Resp: 14196

Ion	Ratio	Lower	Upper
252	100		
253	25.5	19.8	29.8
125	19.2	13.9	20.9

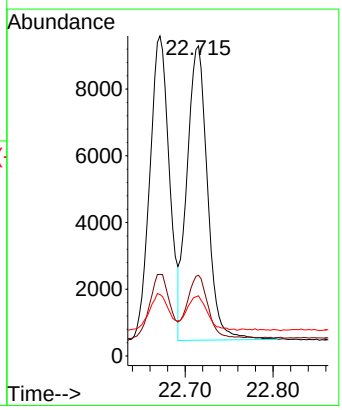


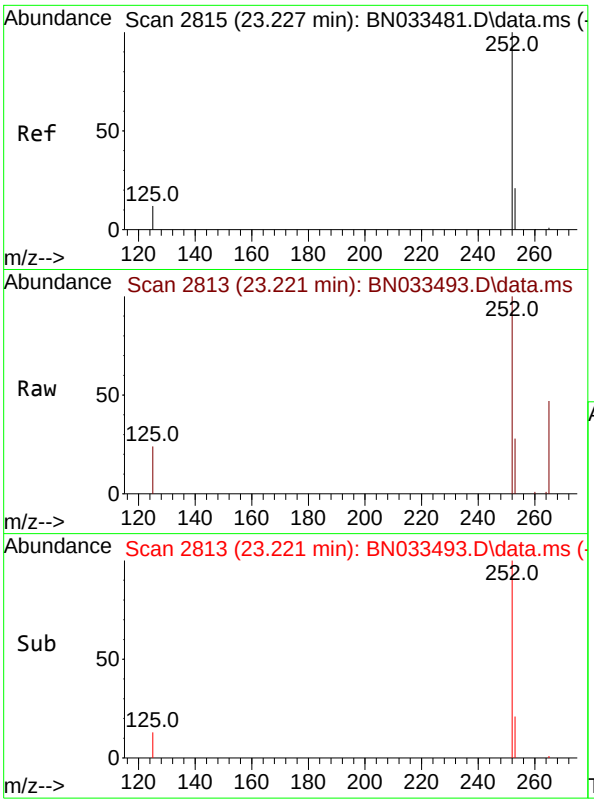


#38
Benzo(k)fluoranthene
Concen: 0.392 ng
RT: 22.715 min Scan# 2640
Delta R.T. -0.006 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:252 Resp: 14258

Ion	Ratio	Lower	Upper
252	100		
253	26.0	19.8	29.8
125	19.4	15.8	23.8



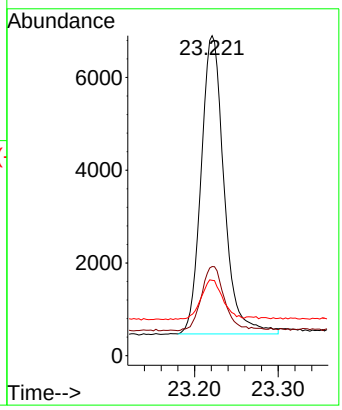


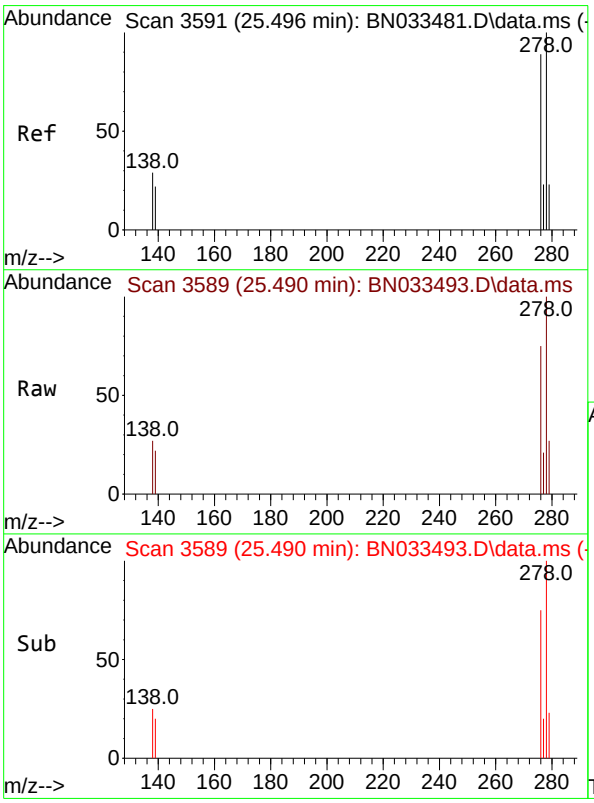
#39
Benzo(a)pyrene
Concen: 0.402 ng
RT: 23.221 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:252 Resp: 12298

Ion	Ratio	Lower	Upper
252	100		
253	27.9	21.5	32.3
125	23.6	17.0	25.4

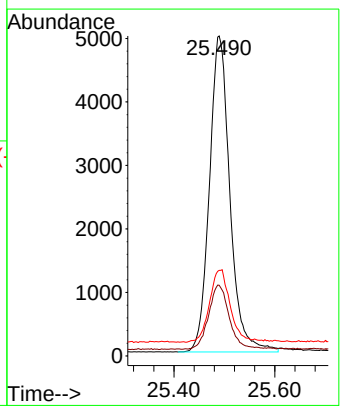


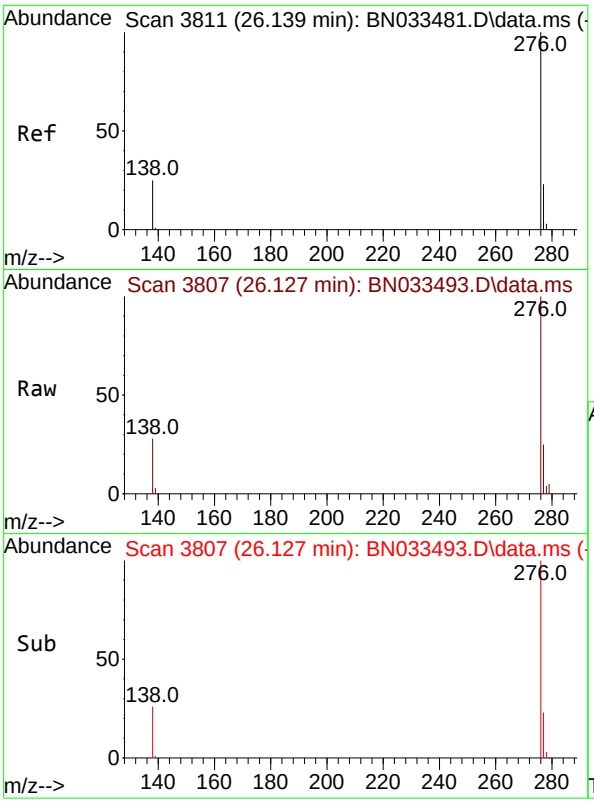


#40
Dibenzo(a,h)anthracene
Concen: 0.428 ng
RT: 25.490 min Scan# 3589
Delta R.T. -0.006 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Tgt Ion:278 Resp: 14068

Ion	Ratio	Lower	Upper
278	100		
139	22.1	19.1	28.7
279	26.7	21.0	31.4



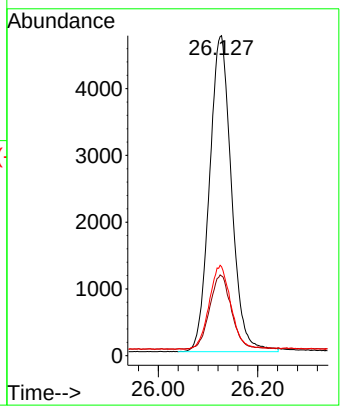


#41
Benzo(g,h,i)perylene
Concen: 0.413 ng
RT: 26.127 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN033493.D
Acq: 20 Aug 2024 07:08

Instrument :
BNA_N
ClientSampleId :
PB162787BS

Tgt Ion:276 Resp: 14504

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.7	29.5
138	27.8	21.8	32.6



Raw Data: **BN033494.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162787BSD	SDG No.:	P3645
Lab Sample ID:	PB162787BSD	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
BN033494.D	1	08/16/24 10:33	08/20/24 07:44	PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.38		0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.37		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.37		0.020	0.10	ug/L
83-32-9	Acenaphthene	0.38		0.020	0.10	ug/L
86-73-7	Fluorene	0.35		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.39		0.020	0.10	ug/L
120-12-7	Anthracene	0.38		0.020	0.10	ug/L
206-44-0	Fluoranthene	0.35		0.020	0.10	ug/L
129-00-0	Pyrene	0.39		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.42		0.020	0.10	ug/L
218-01-9	Chrysene	0.46		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.44		0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.43		0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.46		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.49		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.48		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.47		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.31		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.44		30 (20) - 150 (139)	109%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 (30) - 150 (150)	83%	SPK: 0.4
367-12-4	2-Fluorophenol	0.27		15 (10) - 110 (100)	68%	SPK: 0.4
13127-88-3	Phenol-d6	0.27		15 (10) - 110 (100)	66%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		30 (27) - 130 (123)	87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		30 (34) - 130 (132)	95%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.23		15 (10) - 110 (131)	58%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		30 (35) - 130 (157)	93%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6970	7.552			

Raw Data: **BN033494.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162787BSD	SDG No.:	P3645
Lab Sample ID:	PB162787BSD	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
BN033494.D	1	08/16/24 10:33	08/20/24 07:44	PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1146-65-2	Naphthalene-d8	17400	10.314			
15067-26-2	Acenaphthene-d10	7930	14.189			
1517-22-2	Phenanthrene-d10	14700	16.942			
1719-03-5	Chrysene-d12	9170	21.148			
1520-96-3	Perylene-d12	9470	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\BN081924\
Data File : BN033494.D
Acq On : 20 Aug 2024 07:44
Operator : MA/JU
Sample : PB162787BSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Quant Time: Aug 20 09:06:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

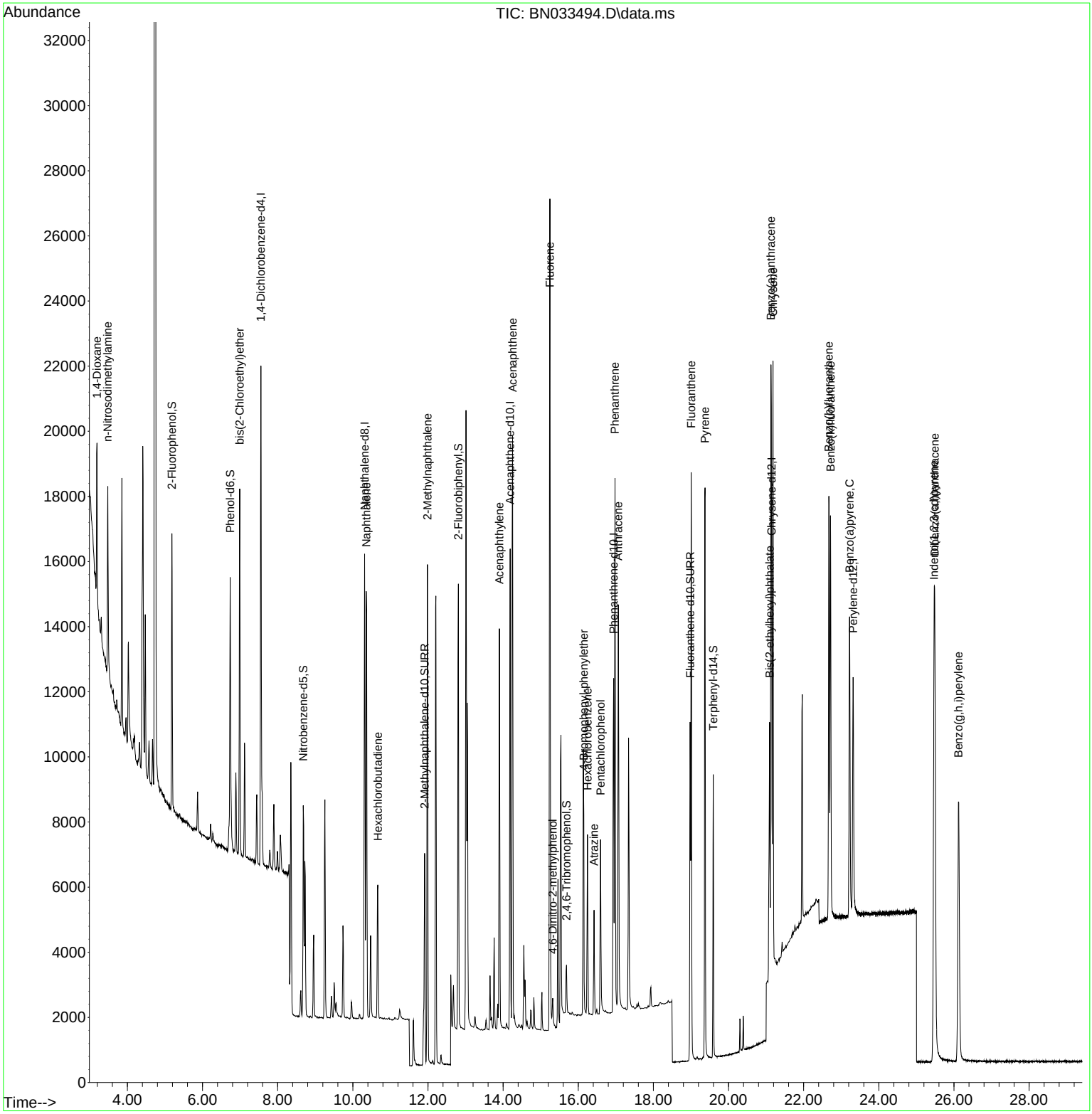
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	6965	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	17427	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	7934	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	14715	0.400	ng	0.00
29) Chrysene-d12	21.148	240	9170	0.400	ng	0.00
35) Perylene-d12	23.317	264	9473	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	6074	0.274	ng	0.00
5) Phenol-d6	6.736	99	6991	0.265	ng	0.00
8) Nitrobenzene-d5	8.681	82	5033	0.348	ng	-0.01
11) 2-Methylnaphthalene-d10	11.911	152	10912	0.438	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	986	0.231	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	12283	0.379	ng	0.00
27) Fluoranthene-d10	18.980	212	11658	0.330	ng	0.00
31) Terphenyl-d14	19.593	244	7758	0.372	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.190	88	2487	0.310	ng	# 53
3) n-Nitrosodimethylamine	3.479	42	3544	0.380	ng	87
6) bis(2-Chloroethyl)ether	6.989	93	7177	0.384	ng	97
9) Naphthalene	10.357	128	17789	0.382	ng	100
10) Hexachlorobutadiene	10.667	225	3506	0.377	ng	# 98
12) 2-Methylnaphthalene	11.986	142	10840	0.368	ng	99
16) Acenaphthylene	13.900	152	12952	0.372	ng	99
17) Acenaphthene	14.253	154	9305	0.380	ng	98
18) Fluorene	15.247	166	10905	0.353	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	686	0.299	ng	99
21) 4-Bromophenyl-phenylether	16.147	248	3332	0.373	ng	94
22) Hexachlorobenzene	16.247	284	3822	0.387	ng	98
23) Atrazine	16.420	200	2291	0.321	ng	98
24) Pentachlorophenol	16.594	266	2566	0.600	ng	97
25) Phenanthrene	16.979	178	16075	0.393	ng	100
26) Anthracene	17.066	178	13581	0.375	ng	99
28) Fluoranthene	19.007	202	15723	0.348	ng	99
30) Pyrene	19.374	202	15909	0.389	ng	100
32) Benzo(a)anthracene	21.130	228	13755	0.415	ng	99
33) Chrysene	21.184	228	15055	0.457	ng	100
34) Bis(2-ethylhexyl)phtha...	21.095	149	6291	0.300	ng	98
36) Indeno(1,2,3-cd)pyrene	25.472	276	19303	0.491	ng	100
37) Benzo(b)fluoranthene	22.671	252	15472	0.437	ng	98
38) Benzo(k)fluoranthene	22.715	252	14961	0.430	ng	98
39) Benzo(a)pyrene	23.224	252	13321	0.455	ng	98
40) Dibenzo(a,h)anthracene	25.490	278	15187	0.483	ng	97
41) Benzo(g,h,i)perylene	26.121	276	15696	0.467	ng	100

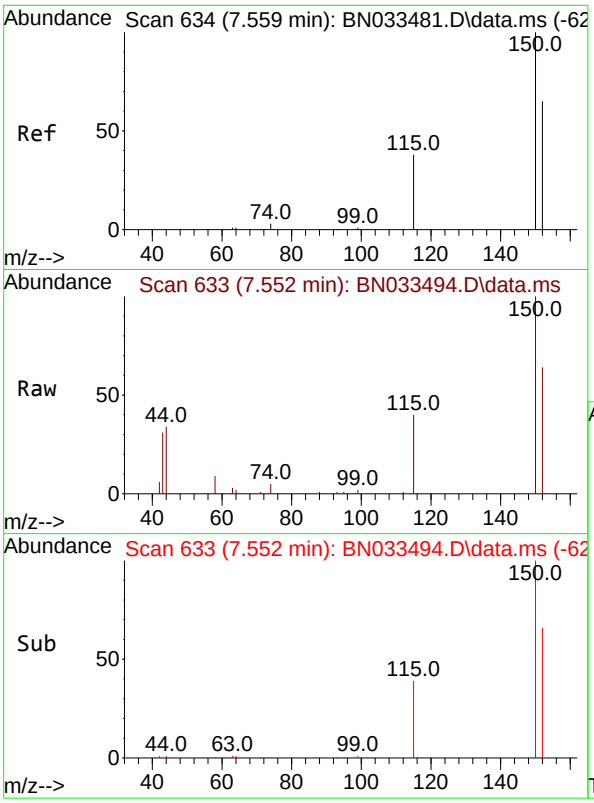
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033494.D
Acq On : 20 Aug 2024 07:44
Operator : MA/JU
Sample : PB162787BSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Quant Time: Aug 20 09:06:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration



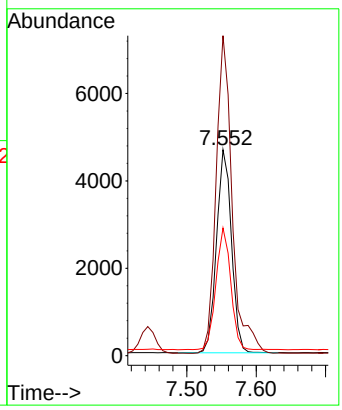


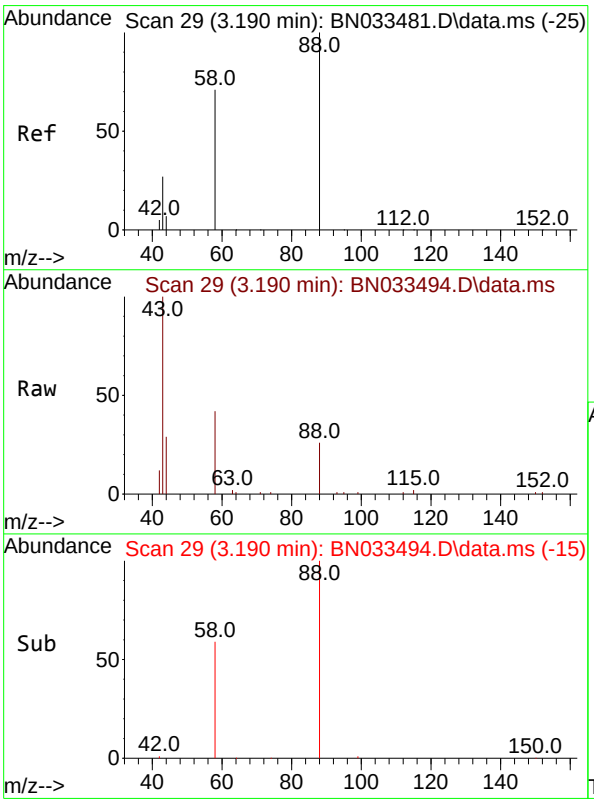
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.552 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:152 Resp: 6965

Ion	Ratio	Lower	Upper
152	100		
150	155.4	122.2	183.2
115	62.0	47.2	70.8

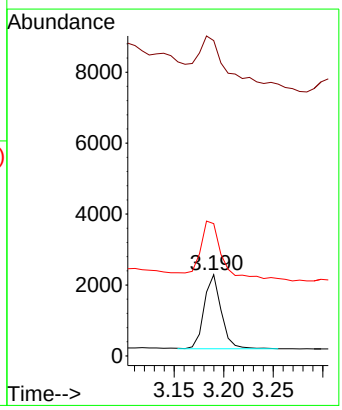


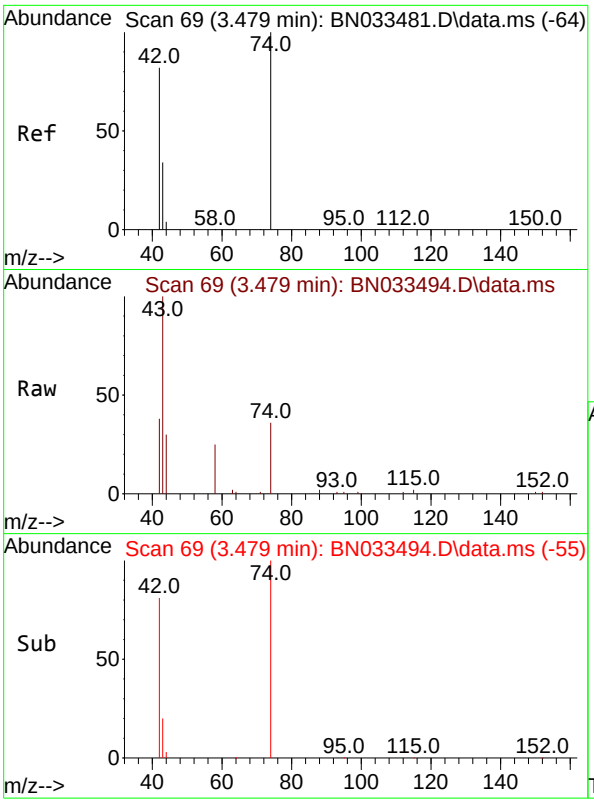


#2
1,4-Dioxane
Concen: 0.310 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion: 88 Resp: 2487

Ion	Ratio	Lower	Upper
88	100		
43	99.6	25.0	37.4#
58	92.8	62.5	93.7



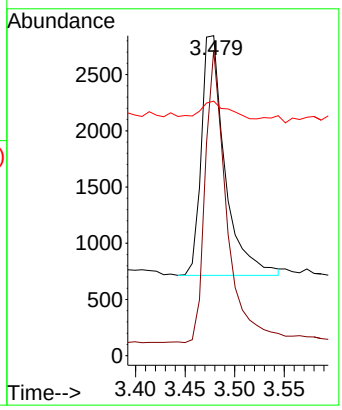


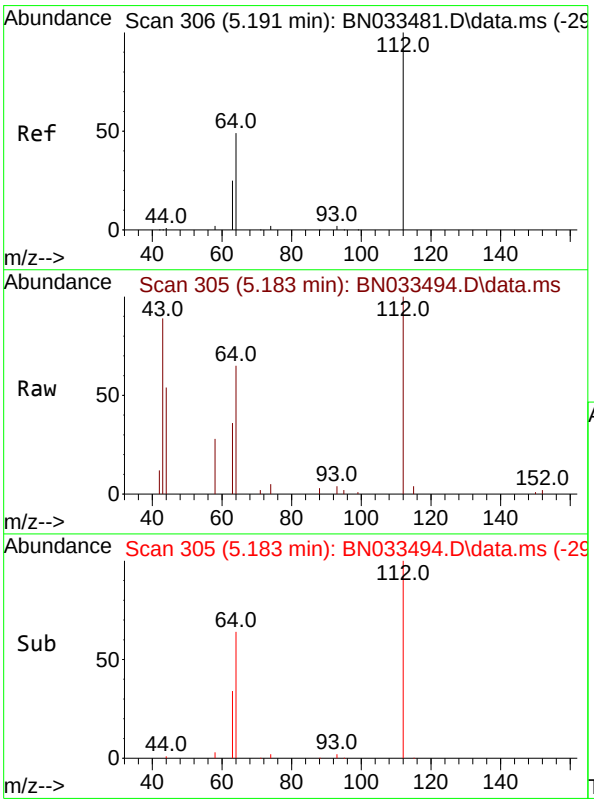
#3
n-Nitrosodimethylamine
Concen: 0.380 ng
RT: 3.479 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion: 42 Resp: 3544

Ion	Ratio	Lower	Upper
42	100		
74	109.9	100.2	150.2
44	7.8	5.3	7.9

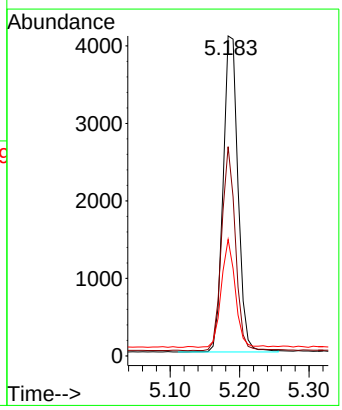


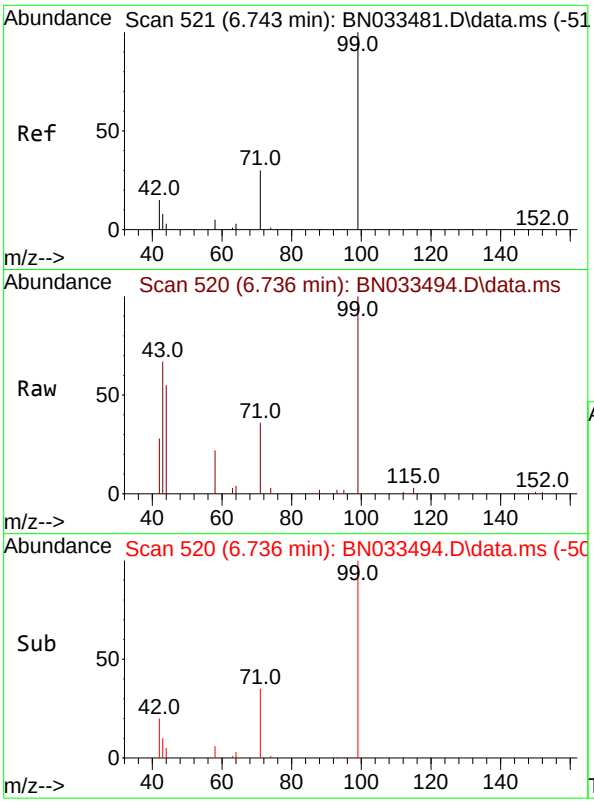


#4
2-Fluorophenol
Concen: 0.274 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.007 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:112 Resp: 6074

Ion	Ratio	Lower	Upper
112	100		
64	59.7	47.1	70.7
63	31.7	24.9	37.3



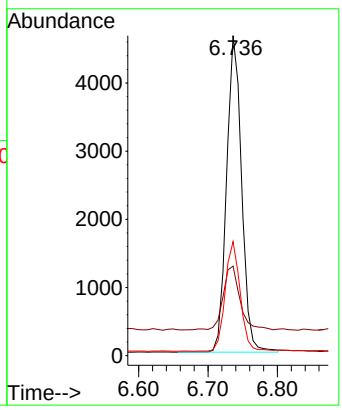


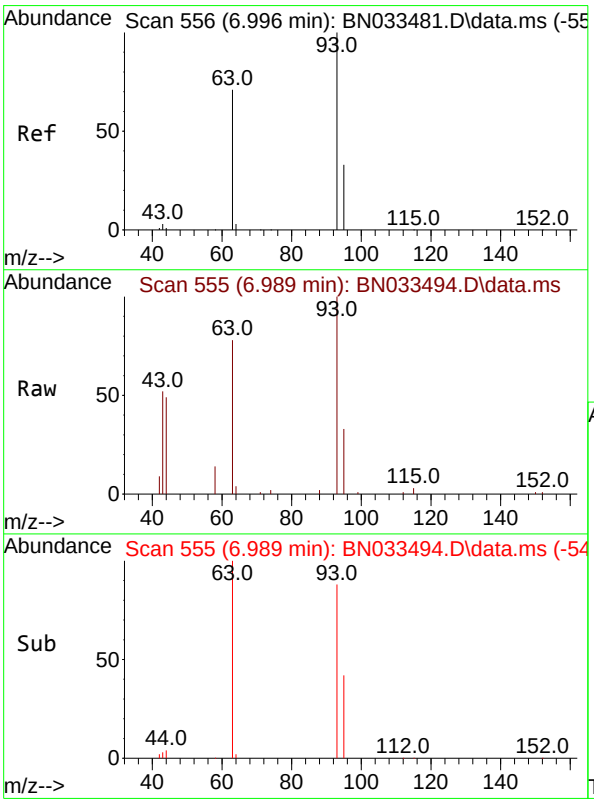
#5
Phenol-d6
Concen: 0.265 ng
RT: 6.736 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion: 99 Resp: 6991

Ion	Ratio	Lower	Upper
99	100		
42	22.4	16.6	24.8
71	34.8	26.2	39.4

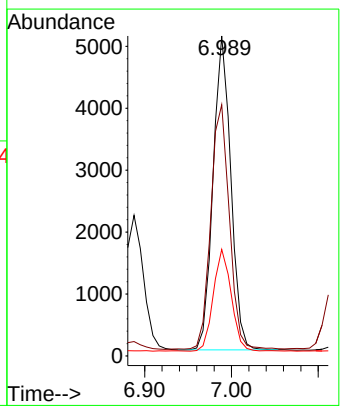


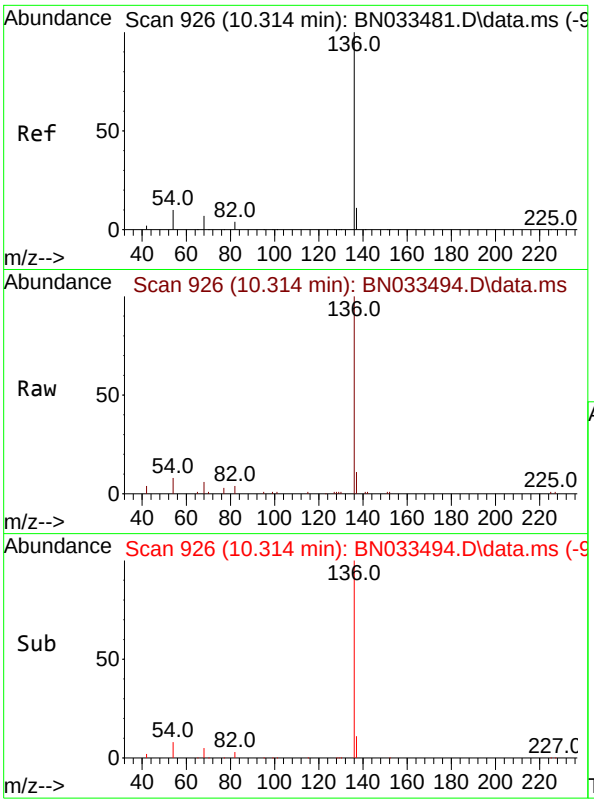


#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion: 93 Resp: 7177

Ion	Ratio	Lower	Upper
93	100		
63	81.8	63.0	94.4
95	32.9	26.0	39.0



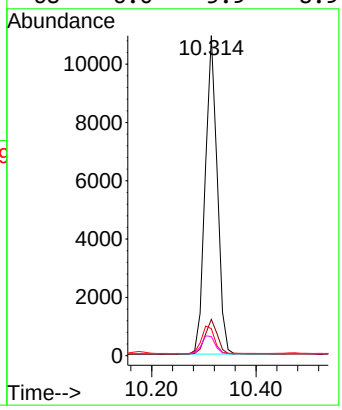


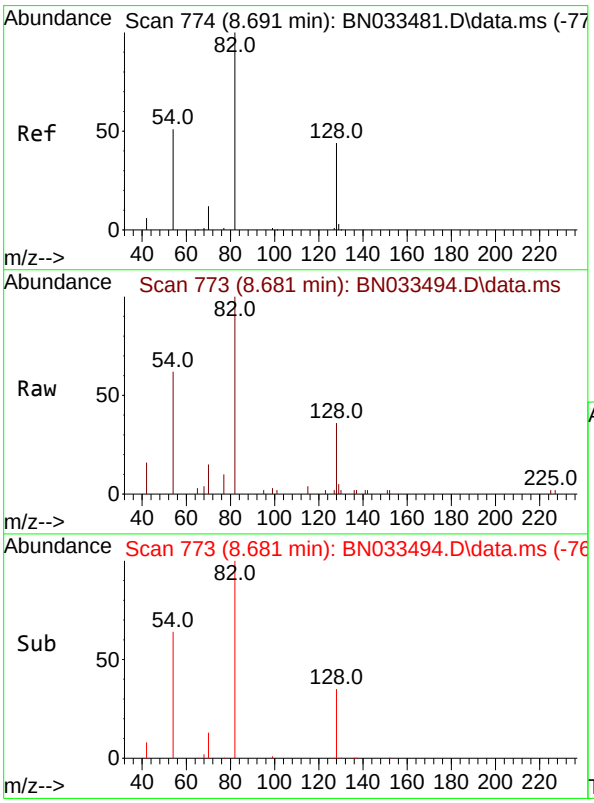
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:136 Resp: 17427

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	8.5	8.3	12.5
68	6.0	5.9	8.9

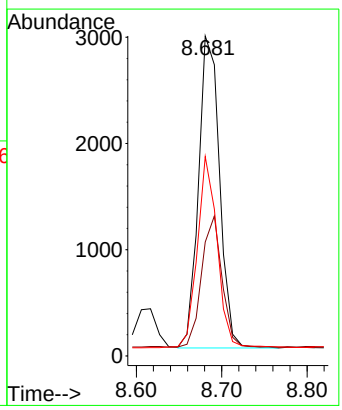


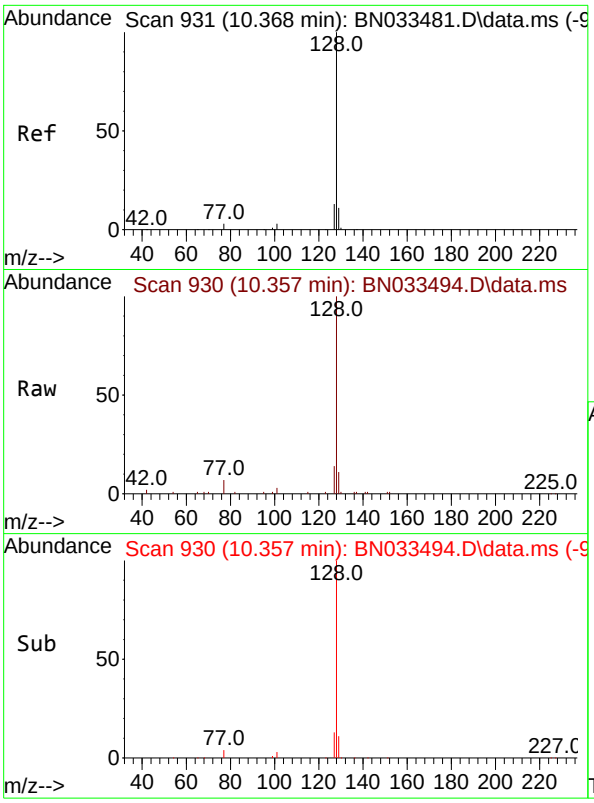


#8
Nitrobenzene-d5
Concen: 0.348 ng
RT: 8.681 min Scan# 773
Delta R.T. -0.011 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion: 82 Resp: 5033

Ion	Ratio	Lower	Upper
82	100		
128	35.6	36.0	54.0#
54	62.3	42.0	63.0



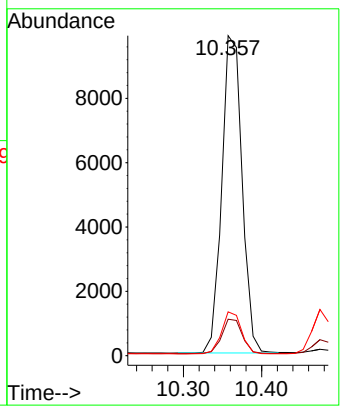


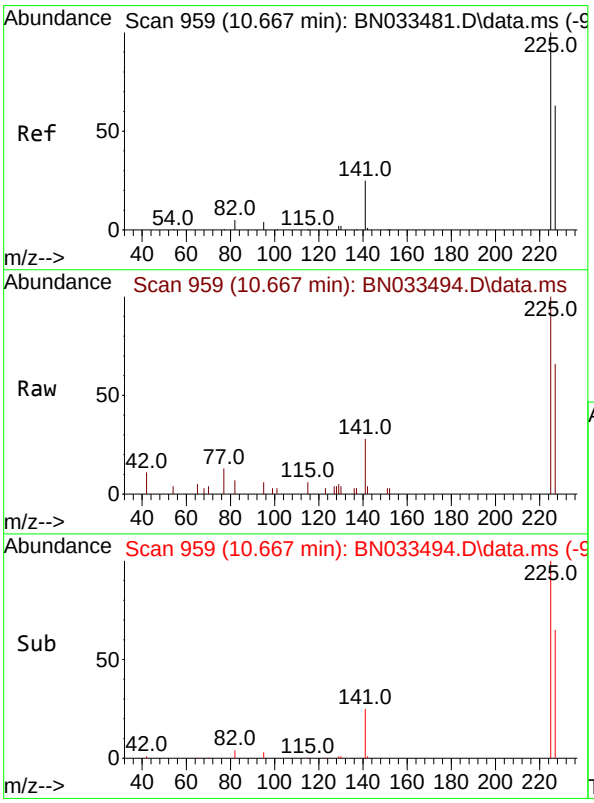
#9
Naphthalene
Concen: 0.382 ng
RT: 10.357 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:128 Resp: 17789

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.7	10.7	16.1

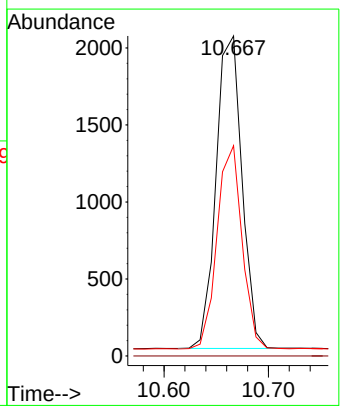


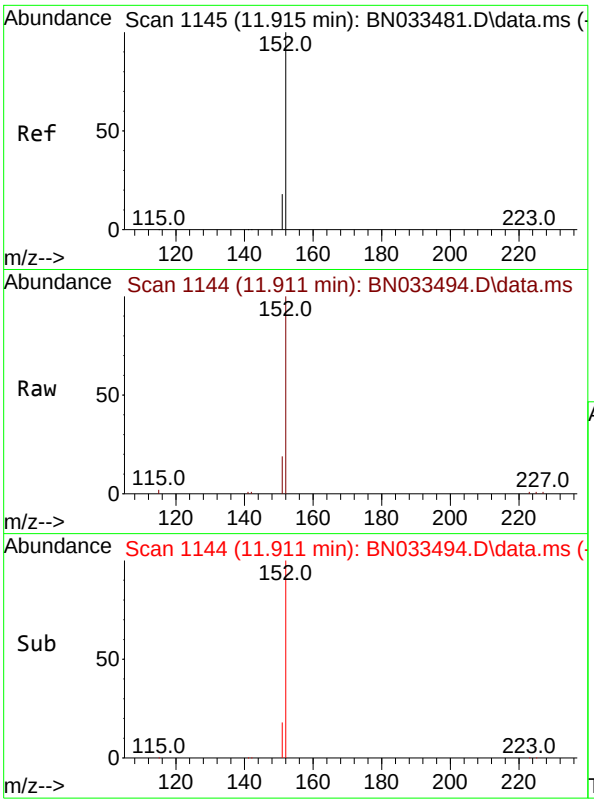


#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:225 Resp: 3506

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	51.2	76.8



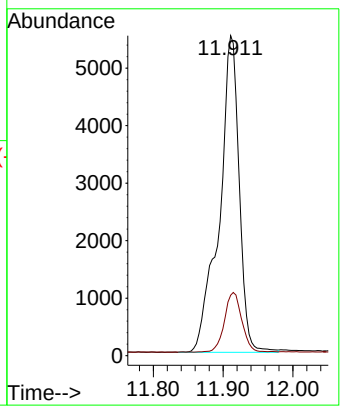


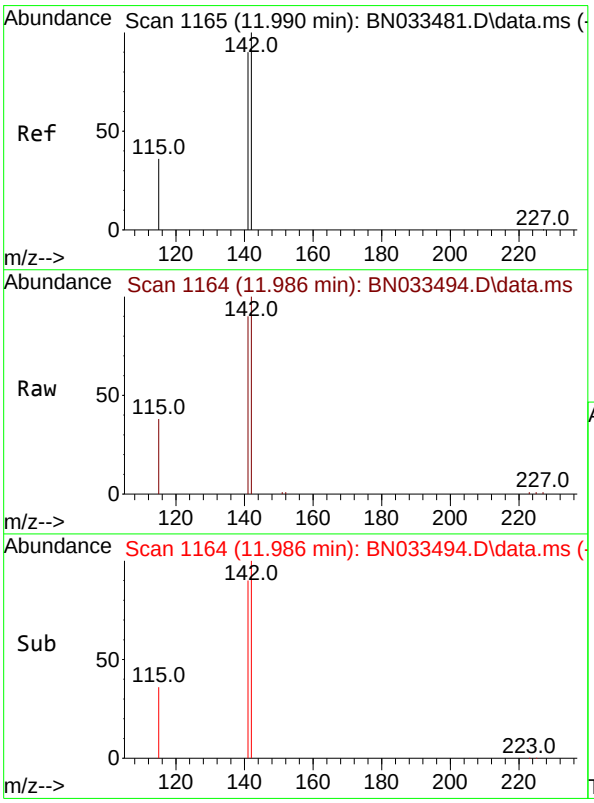
#11
2-Methylnaphthalene-d10
Concen: 0.438 ng
RT: 11.911 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:152 Resp: 10912

Ion	Ratio	Lower	Upper
152	100		
151	16.6	16.6	25.0#

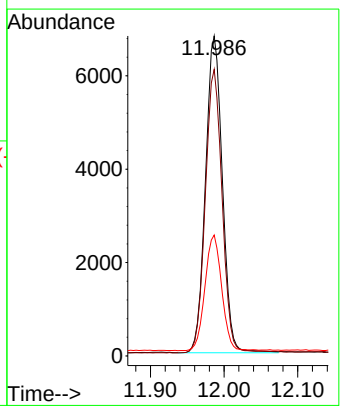


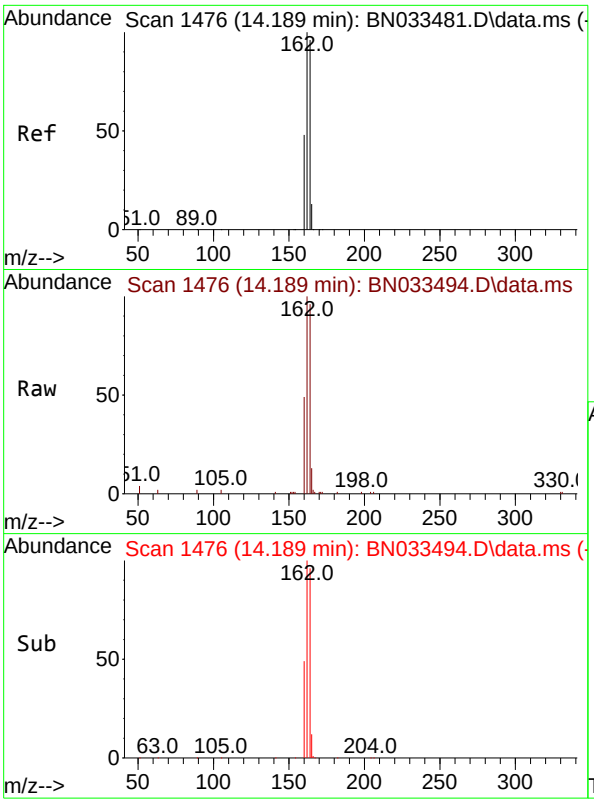


#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 11.986 min Scan# 1164
Delta R.T. -0.004 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:142 Resp: 10840

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.7	107.5
115	37.8	29.4	44.2



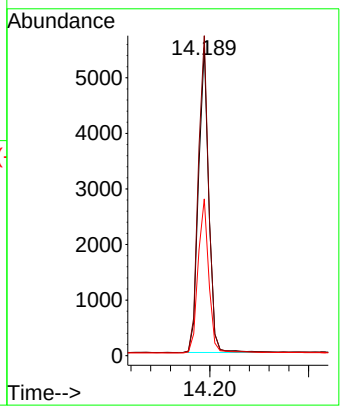


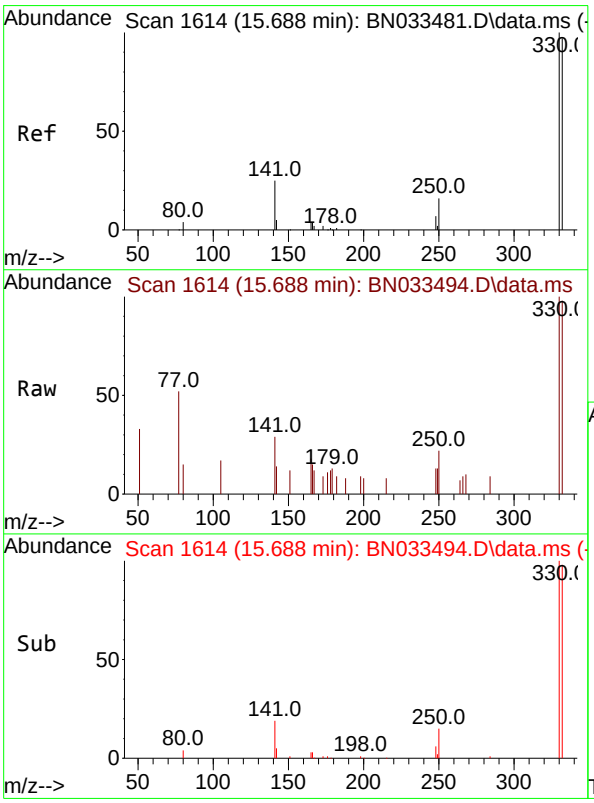
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:164 Resp: 7934

Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.5	125.3
160	50.9	40.2	60.4

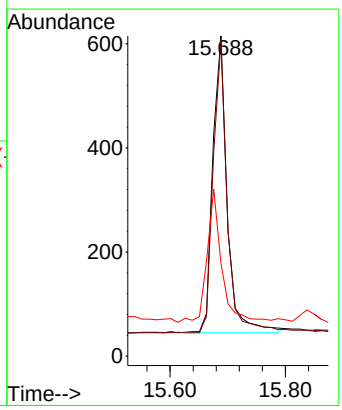


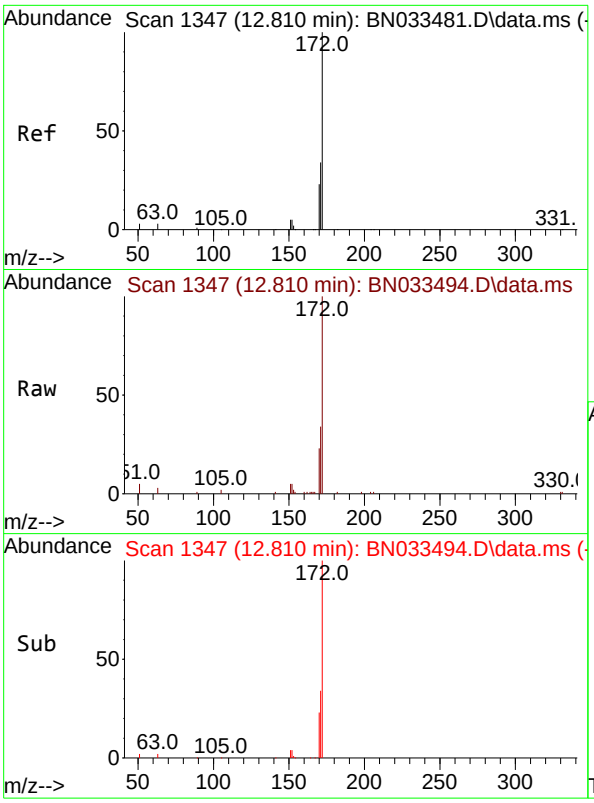


#14
2,4,6-Tribromophenol
Concen: 0.231 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:330 Resp: 986

Ion	Ratio	Lower	Upper
330	100		
332	95.1	77.5	116.3
141	45.4	33.9	50.9



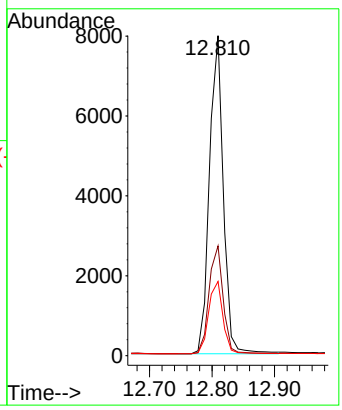


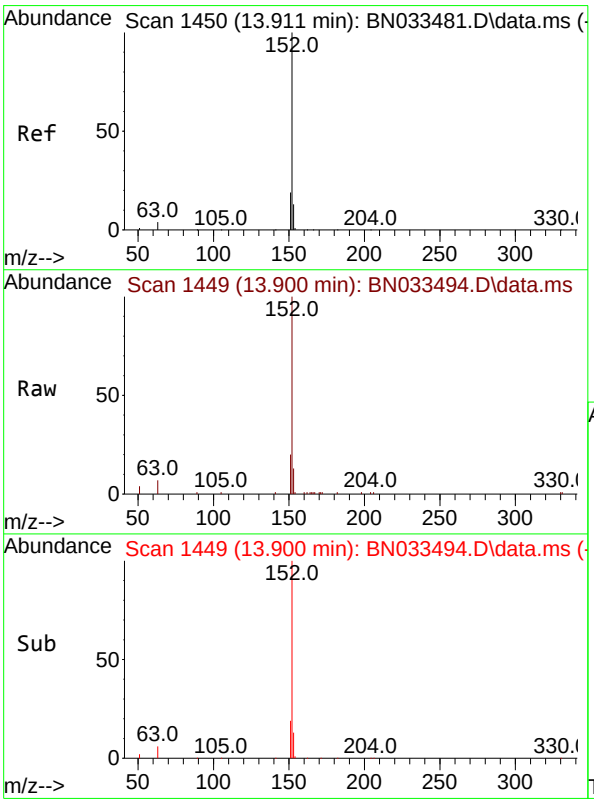
#15
2-Fluorobiphenyl
Concen: 0.379 ng
RT: 12.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:172 Resp: 12283

Ion	Ratio	Lower	Upper
172	100		
171	34.3	27.7	41.5
170	23.2	18.3	27.5

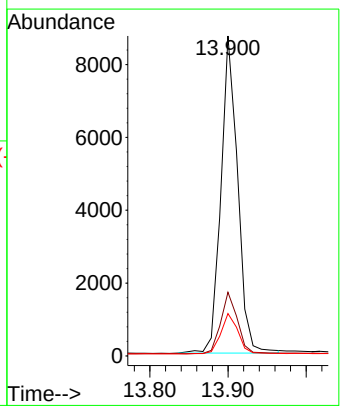


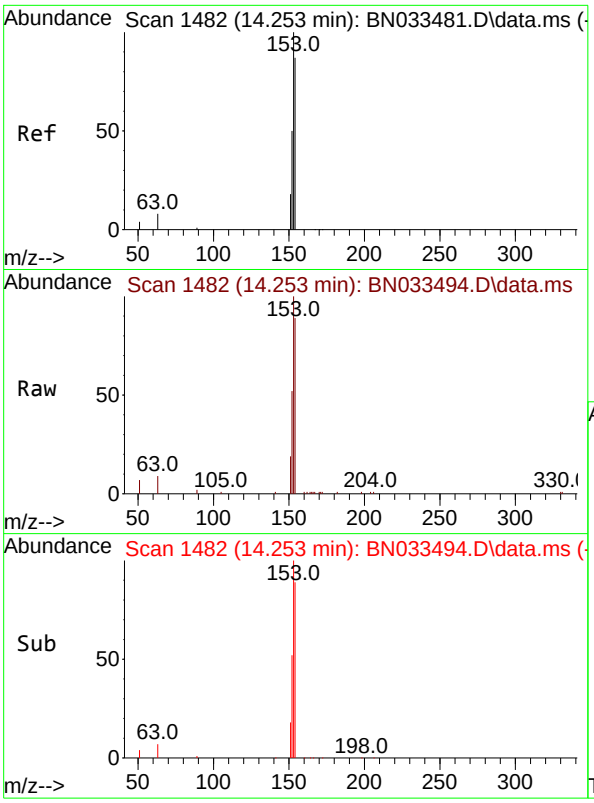


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:152 Resp: 12952

Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.7	23.5
153	12.9	10.3	15.5



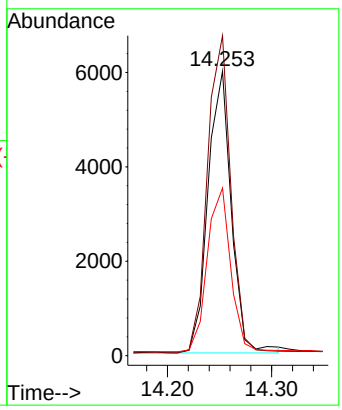


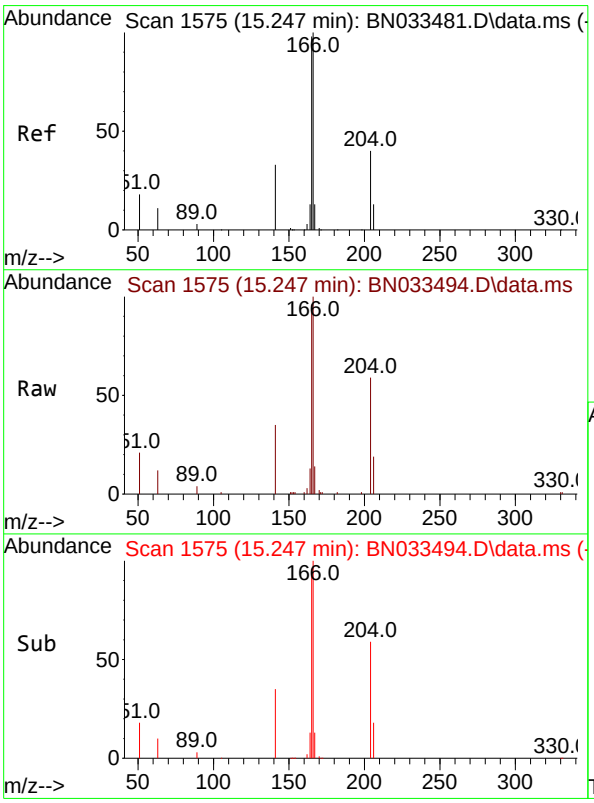
#17
Acenaphthene
Concen: 0.380 ng
RT: 14.253 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:154 Resp: 9305

Ion	Ratio	Lower	Upper
154	100		
153	112.6	89.0	133.6
152	58.2	45.2	67.8

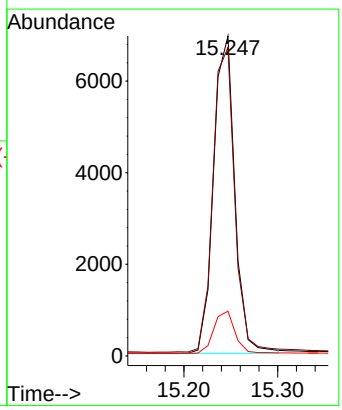


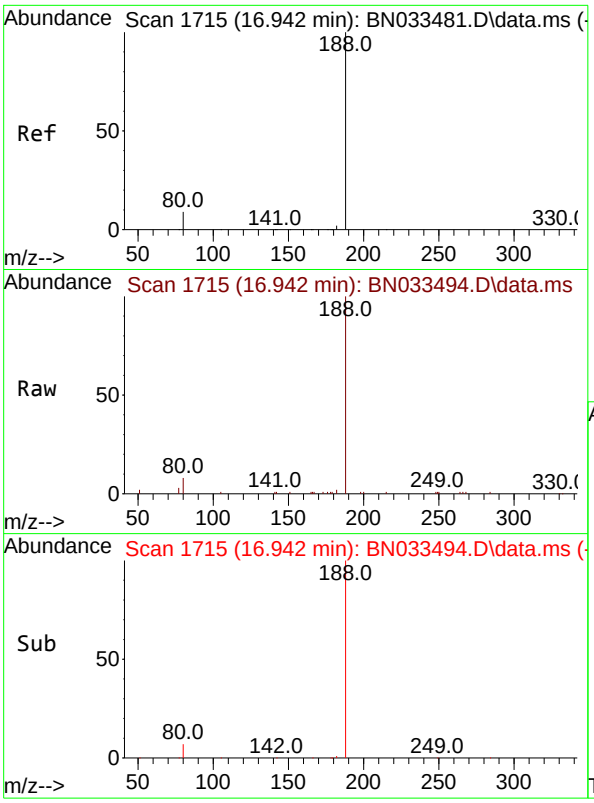


#18
Fluorene
Concen: 0.353 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:166 Resp: 10905

Ion	Ratio	Lower	Upper
166	100		
165	98.3	78.2	117.4
167	13.3	10.6	16.0



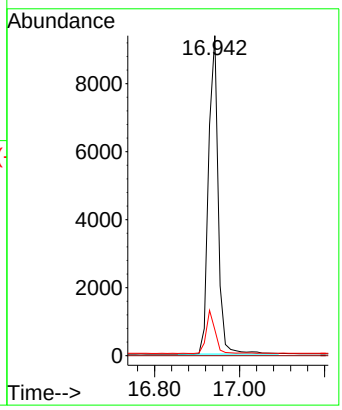


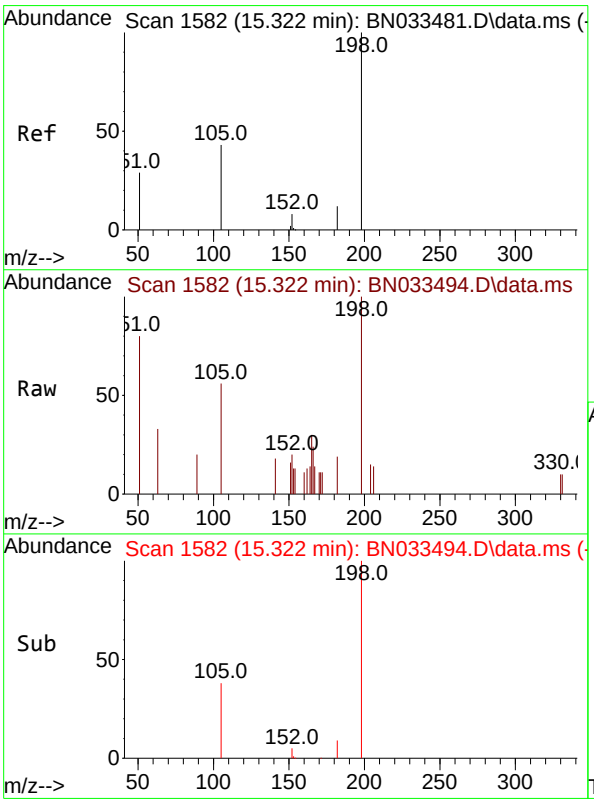
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:188 Resp: 14715

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.1	7.8	11.8

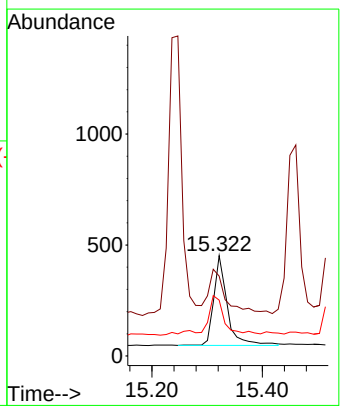


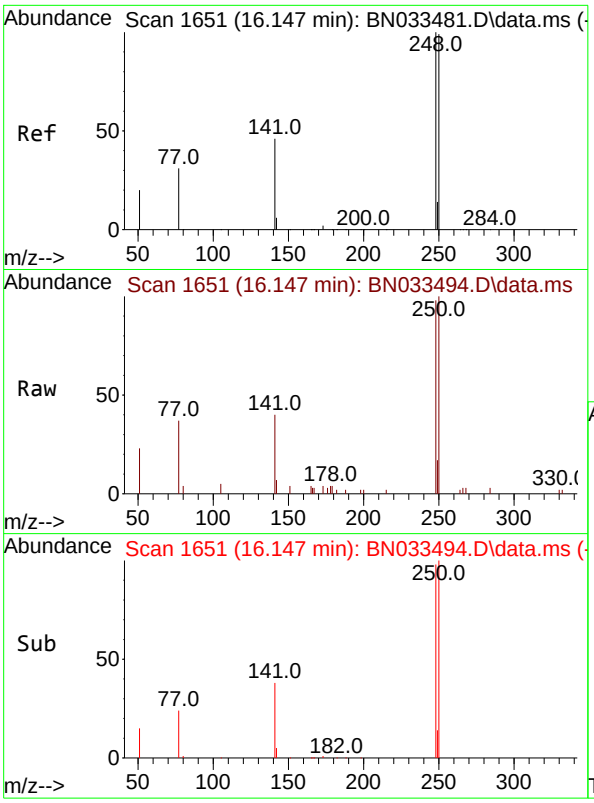


#20
4,6-Dinitro-2-methylphenol
Concen: 0.299 ng
RT: 15.322 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:198 Resp: 686

Ion	Ratio	Lower	Upper
198	100		
51	79.6	65.1	97.7
105	55.8	44.8	67.2



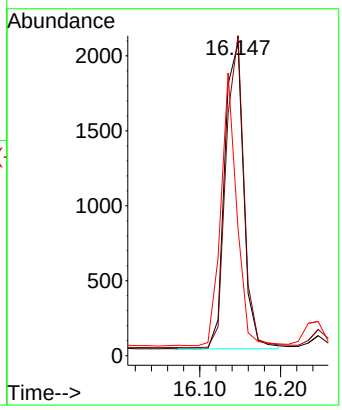


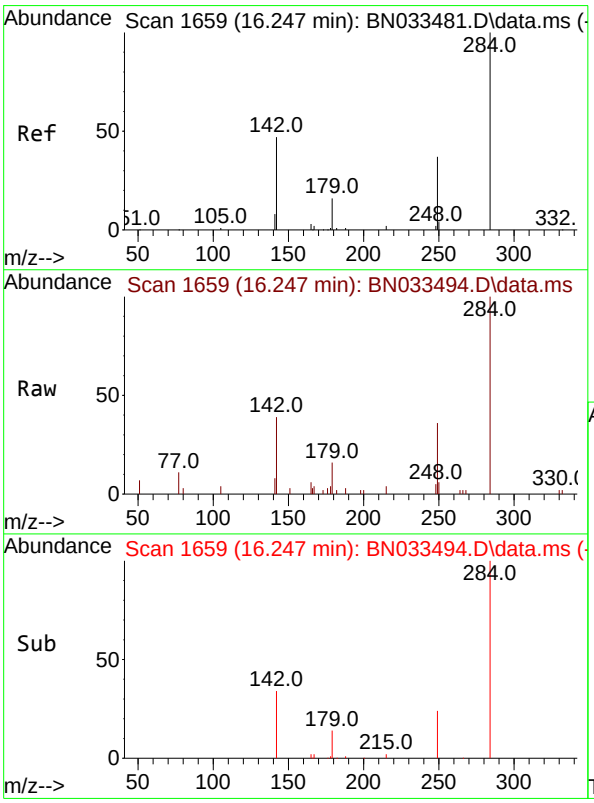
#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 16.147 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:248 Resp: 3332

Ion	Ratio	Lower	Upper
248	100		
250	102.4	79.2	118.8
141	40.7	37.9	56.9

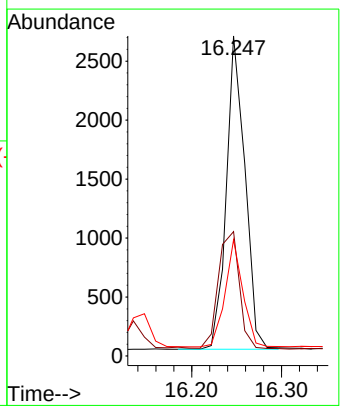


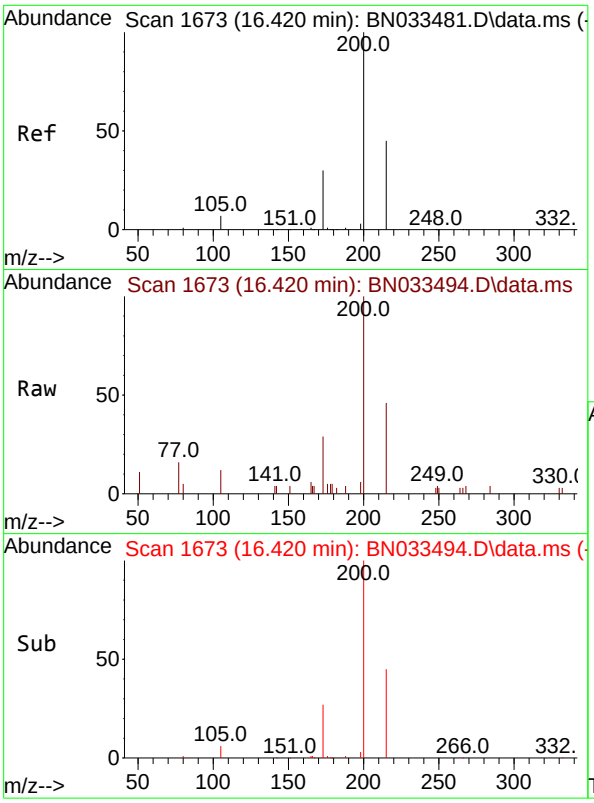


#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:284 Resp: 3822

Ion	Ratio	Lower	Upper
284	100		
142	42.2	31.8	47.6
249	32.5	26.0	39.0



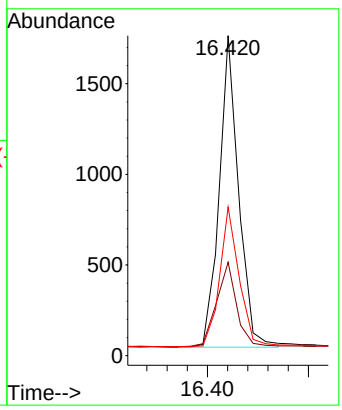


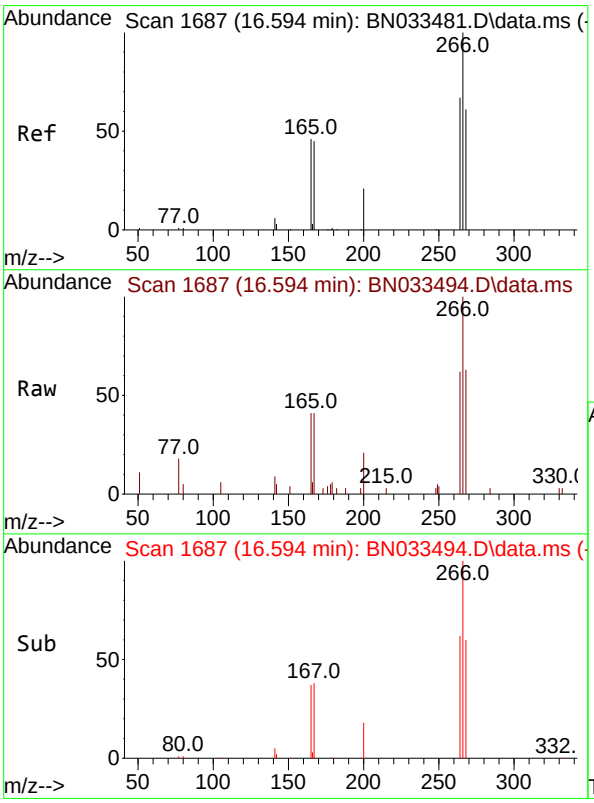
#23
Atrazine
Concen: 0.321 ng
RT: 16.420 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:200 Resp: 2291

Ion	Ratio	Lower	Upper
200	100		
173	29.2	25.3	37.9
215	46.5	36.6	54.8

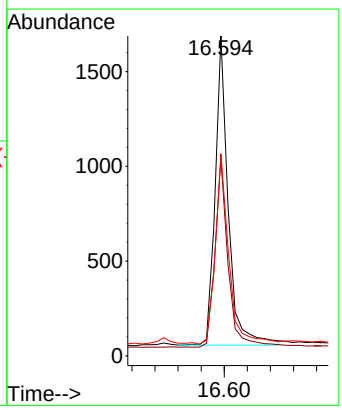


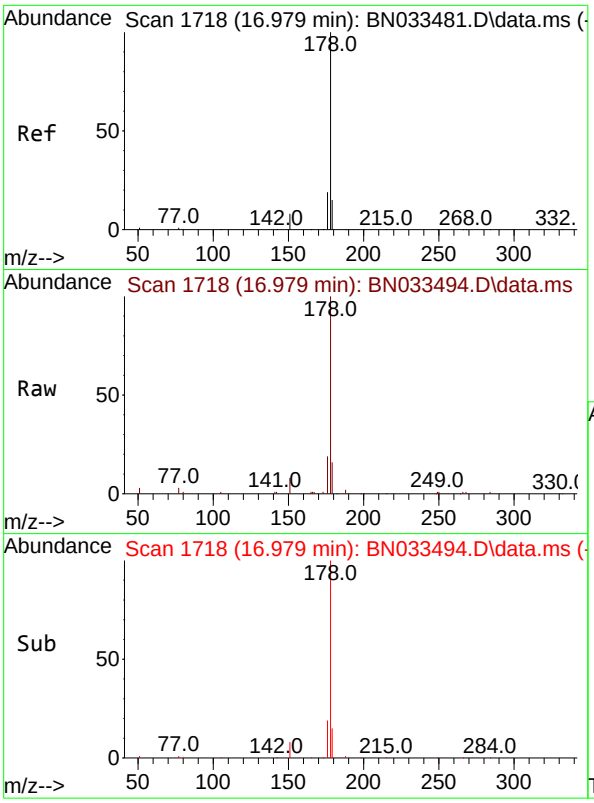


#24
Pentachlorophenol
Concen: 0.600 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:266 Resp: 2566

Ion	Ratio	Lower	Upper
266	100		
264	61.0	51.9	77.9
268	62.5	51.0	76.4



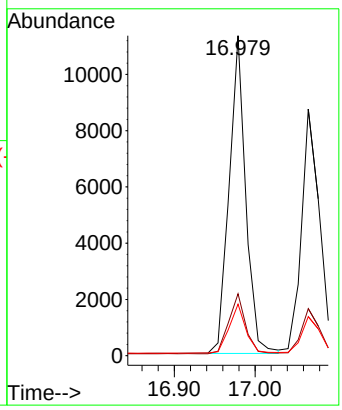


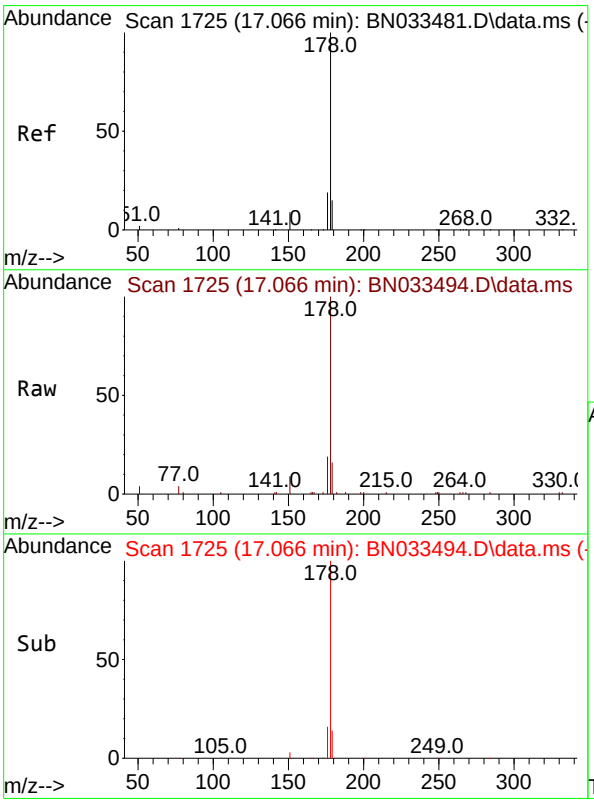
#25
Phenanthrene
Concen: 0.393 ng
RT: 16.979 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:178 Resp: 16075

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.6	12.3	18.5

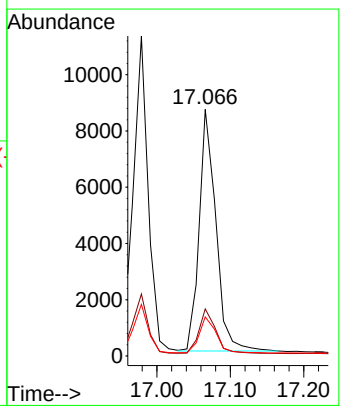


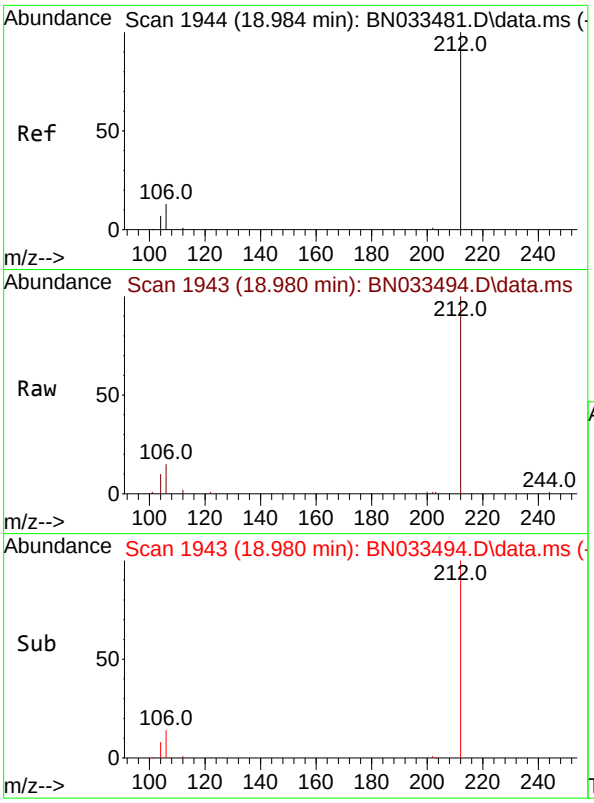


#26
Anthracene
Concen: 0.375 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:178 Resp: 13581

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.6
179	15.3	12.4	18.6



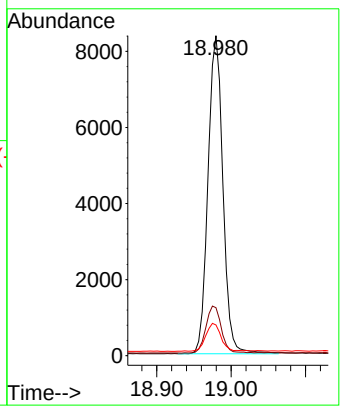


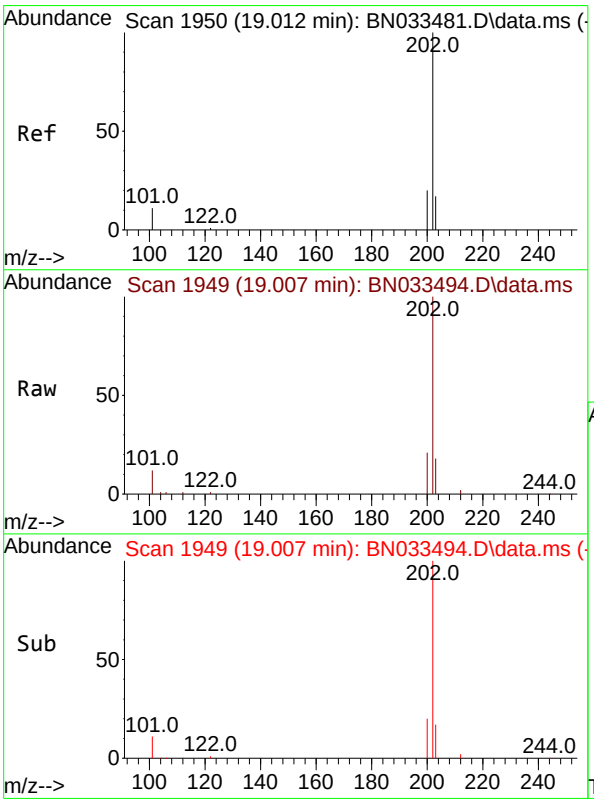
#27
Fluoranthene-d10
Concen: 0.330 ng
RT: 18.980 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:212 Resp: 11658

Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.3	18.5
104	9.0	7.0	10.4

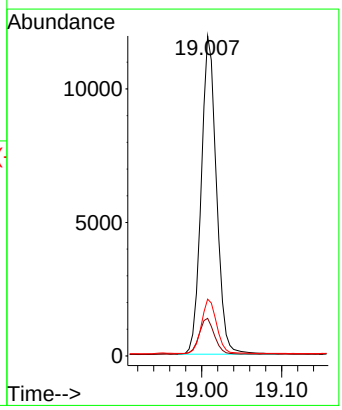


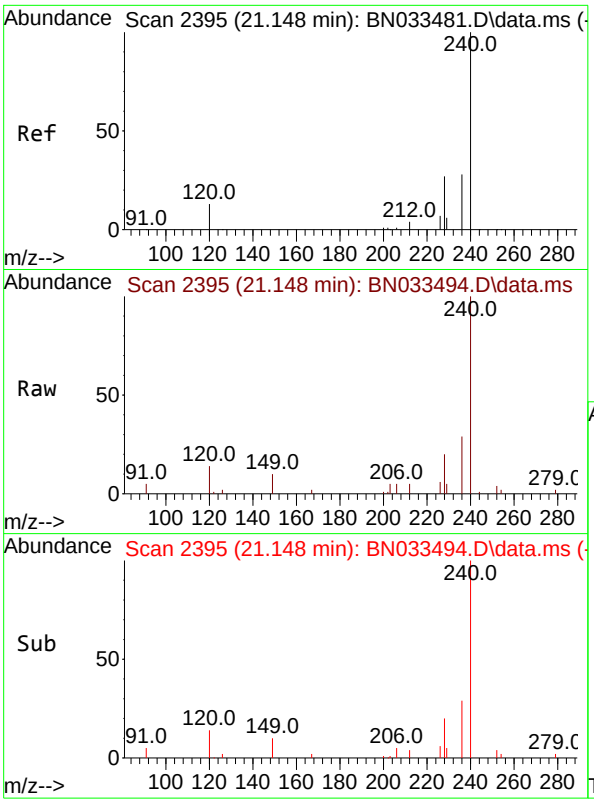


#28
Fluoranthene
Concen: 0.348 ng
RT: 19.007 min Scan# 1949
Delta R.T. -0.005 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:202 Resp: 15723

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.5	14.3
203	16.9	13.8	20.6



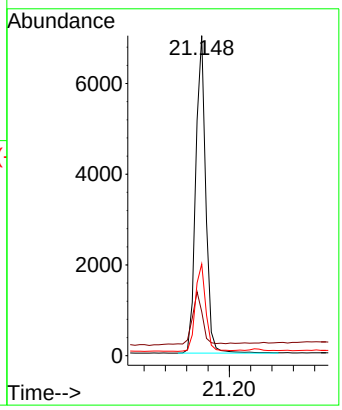


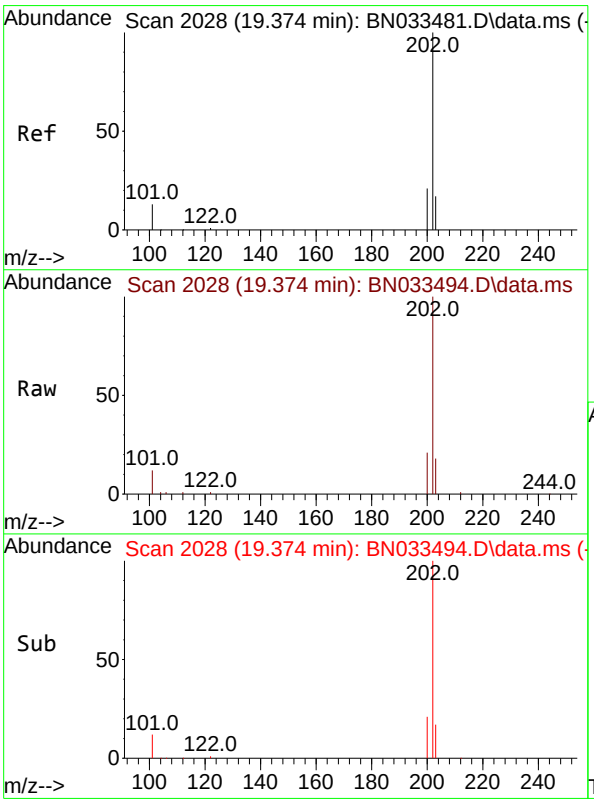
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:240 Resp: 9170

Ion	Ratio	Lower	Upper
240	100		
120	13.8	12.4	18.6
236	28.6	23.0	34.6

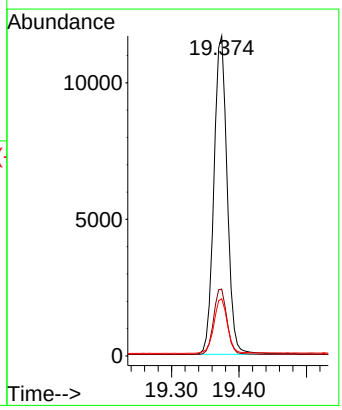


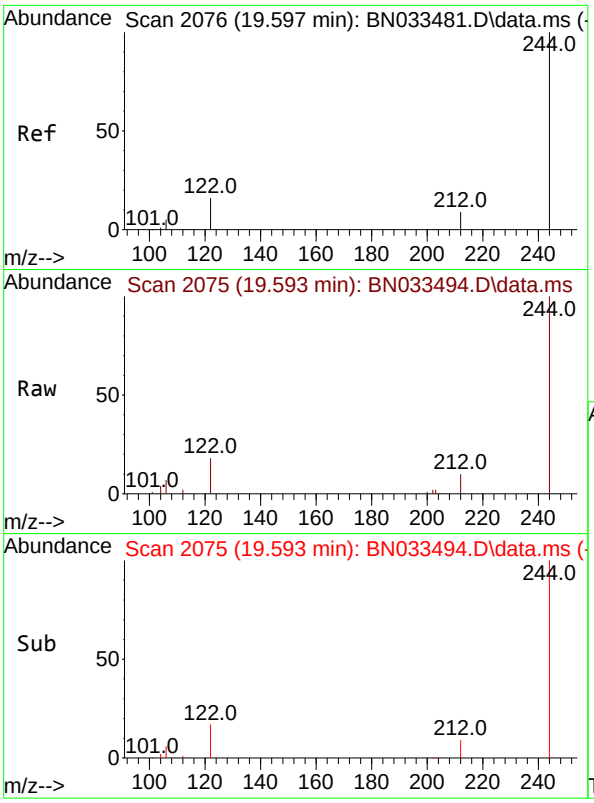


#30
Pyrene
Concen: 0.389 ng
RT: 19.374 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:202 Resp: 15909

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	24.8
203	17.6	14.2	21.4



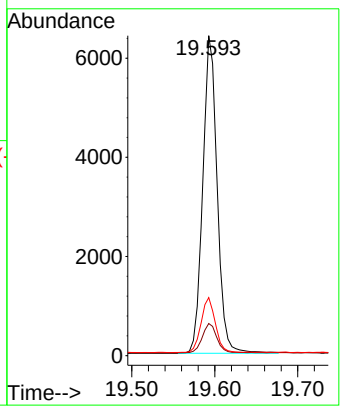


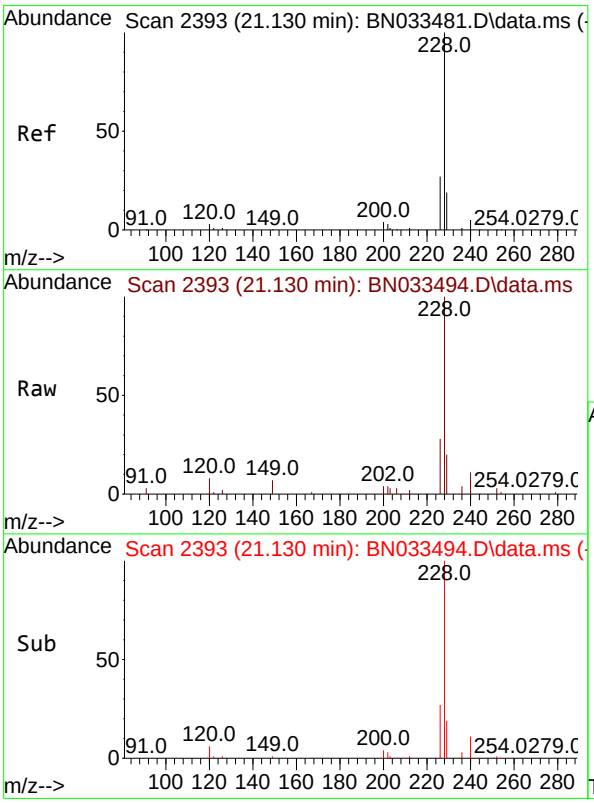
#31
Terphenyl-d14
Concen: 0.372 ng
RT: 19.593 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:244 Resp: 7758

Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.8	11.6
122	18.1	13.3	19.9

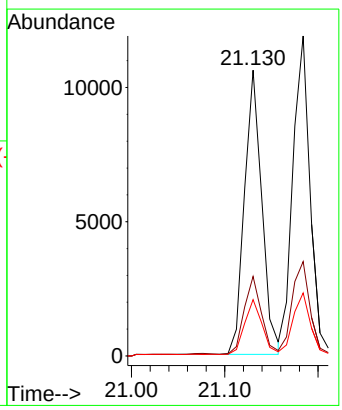


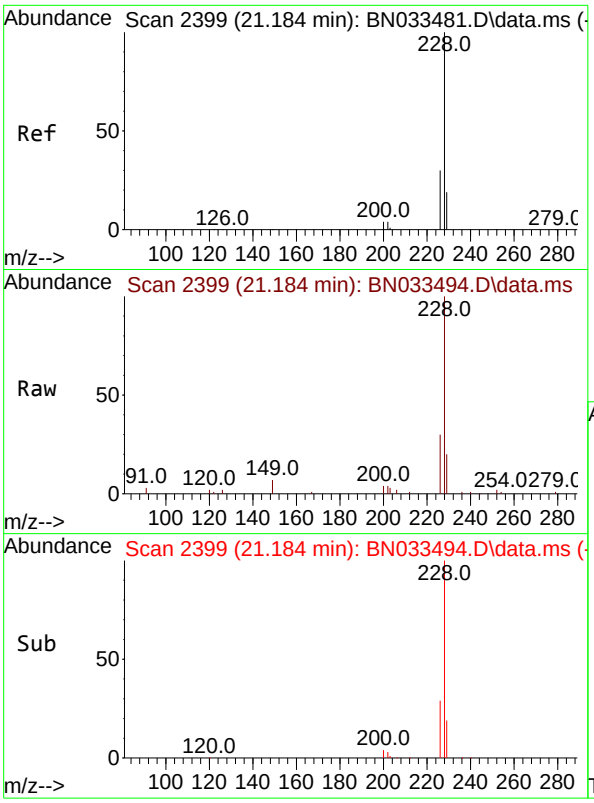


#32
Benzo(a)anthracene
Concen: 0.415 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:228 Resp: 13755

Ion	Ratio	Lower	Upper
228	100		
226	27.8	21.8	32.6
229	19.7	15.8	23.6



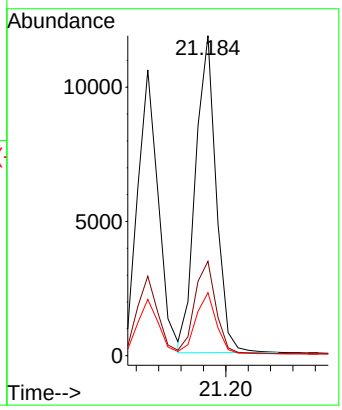


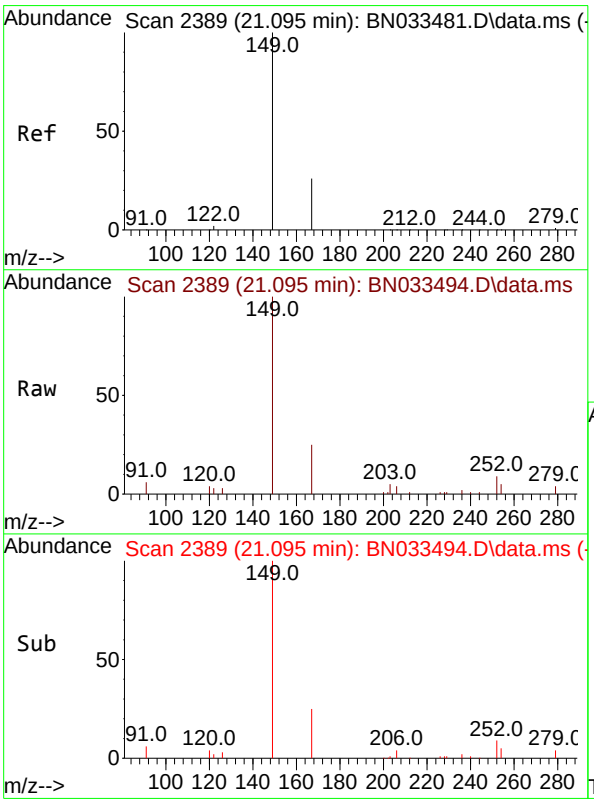
#33
Chrysene
Concen: 0.457 ng
RT: 21.184 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:228 Resp: 15055

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.8	35.8
229	19.7	15.6	23.4

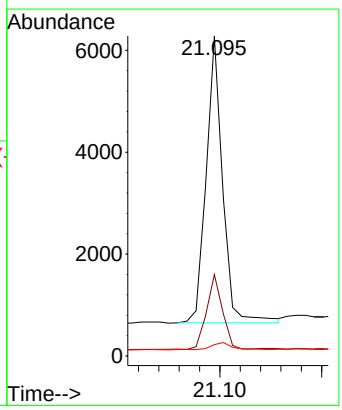


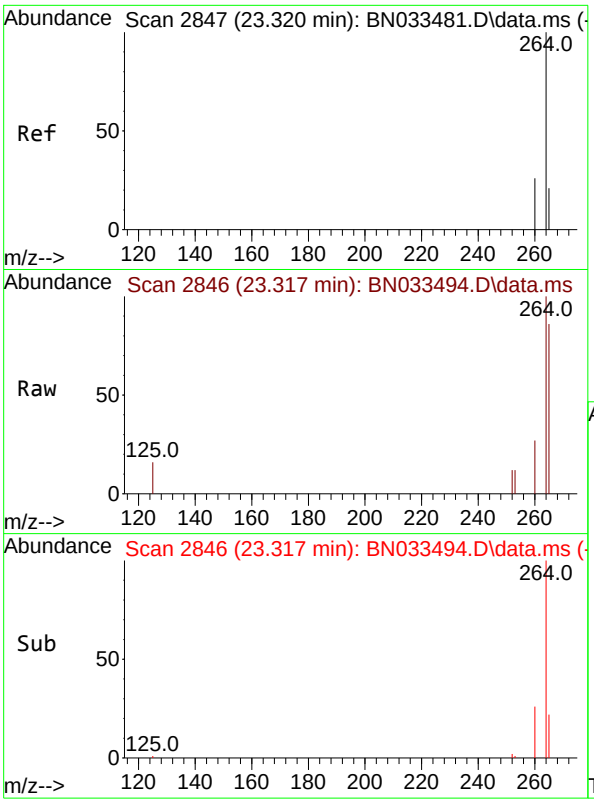


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.300 ng
RT: 21.095 min Scan# 2389
Delta R.T. -0.000 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:149 Resp: 6291

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.5	32.3
279	2.9	2.2	3.2



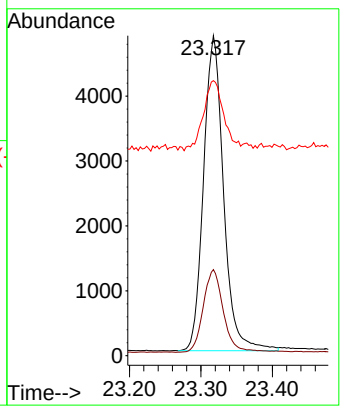


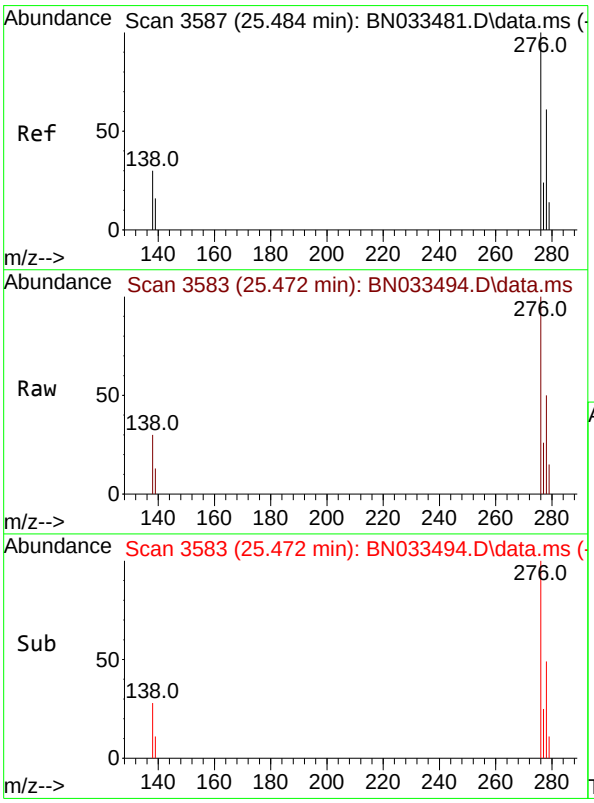
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:264 Resp: 9473

Ion	Ratio	Lower	Upper
264	100		
260	26.9	20.8	31.2
265	86.0	52.2	78.2#

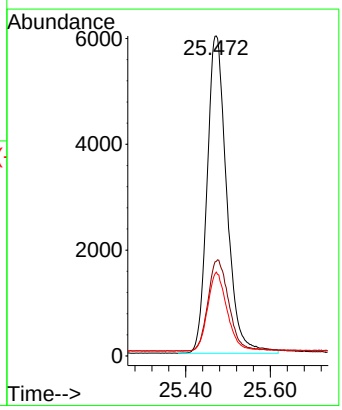


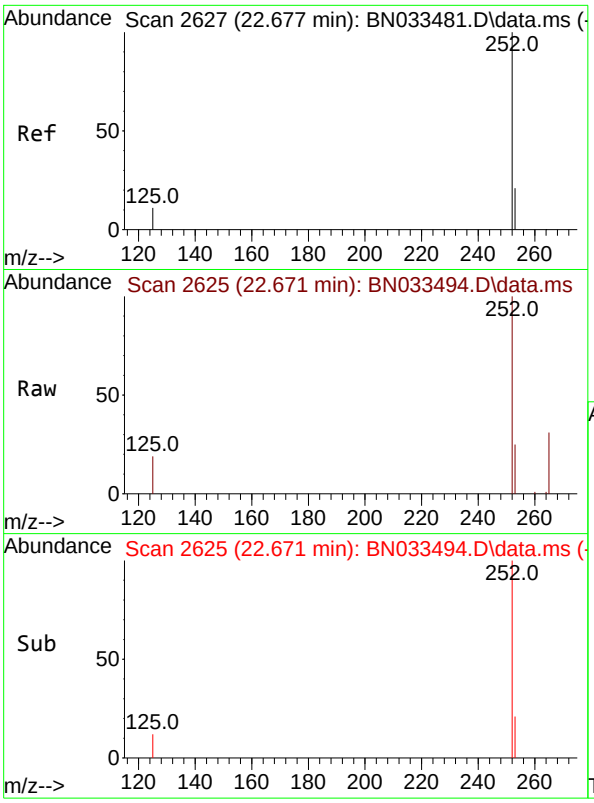


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.491 ng
RT: 25.472 min Scan# 3583
Delta R.T. -0.012 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:276 Resp: 19303

Ion	Ratio	Lower	Upper
276	100		
138	30.4	24.4	36.6
277	24.5	19.8	29.6



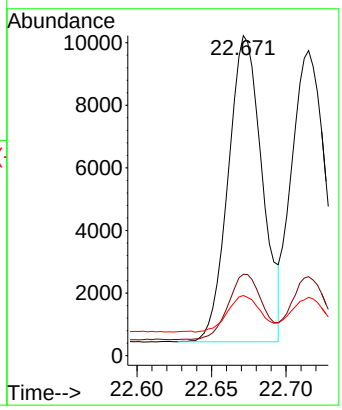


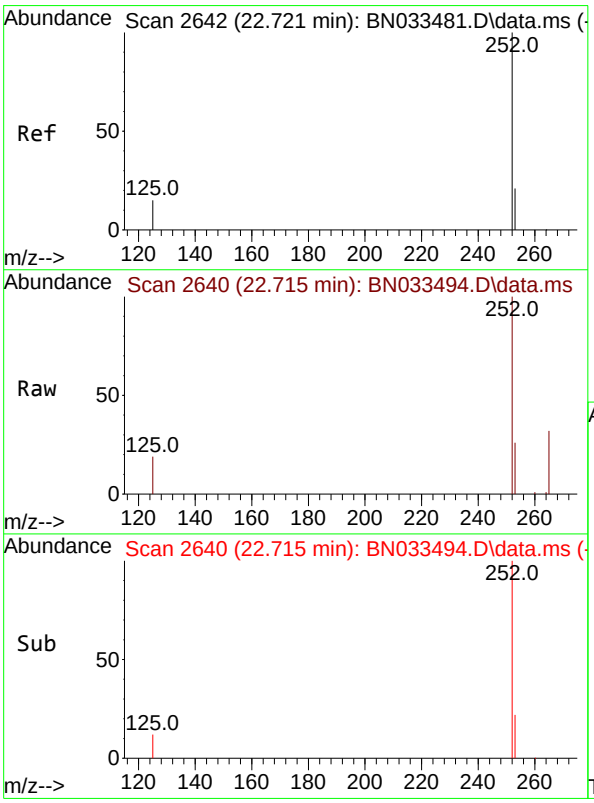
#37
Benzo(b)fluoranthene
Concen: 0.437 ng
RT: 22.671 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:252 Resp: 15472

Ion	Ratio	Lower	Upper
252	100		
253	25.4	19.8	29.8
125	18.8	13.9	20.9

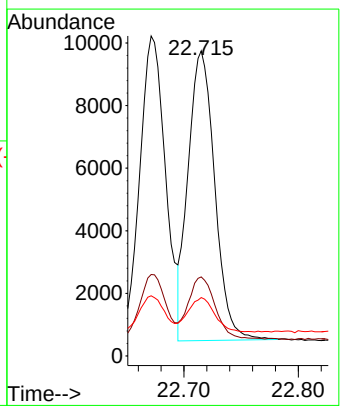


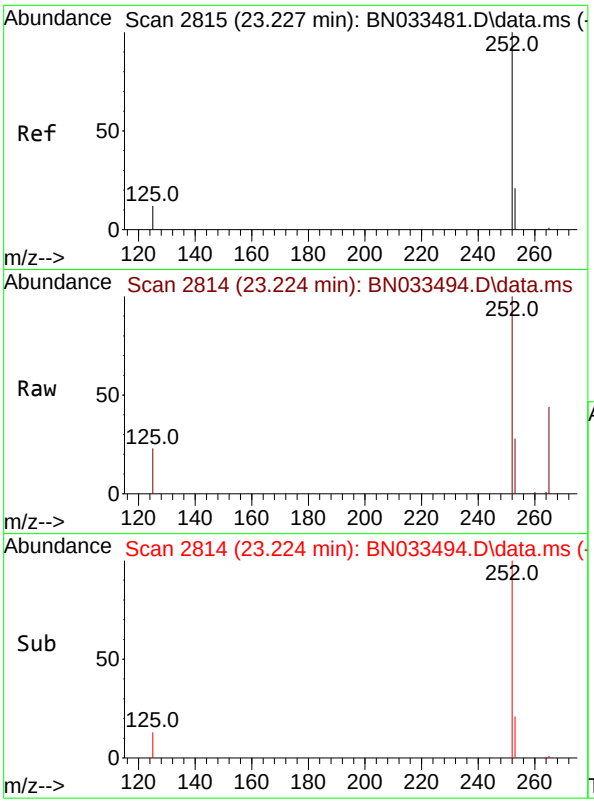


#38
Benzo(k)fluoranthene
Concen: 0.430 ng
RT: 22.715 min Scan# 2640
Delta R.T. -0.006 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:252 Resp: 14961

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.8	29.8
125	19.1	15.8	23.8



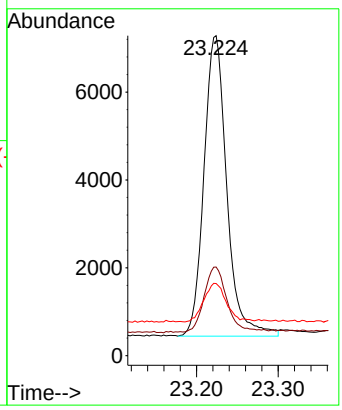


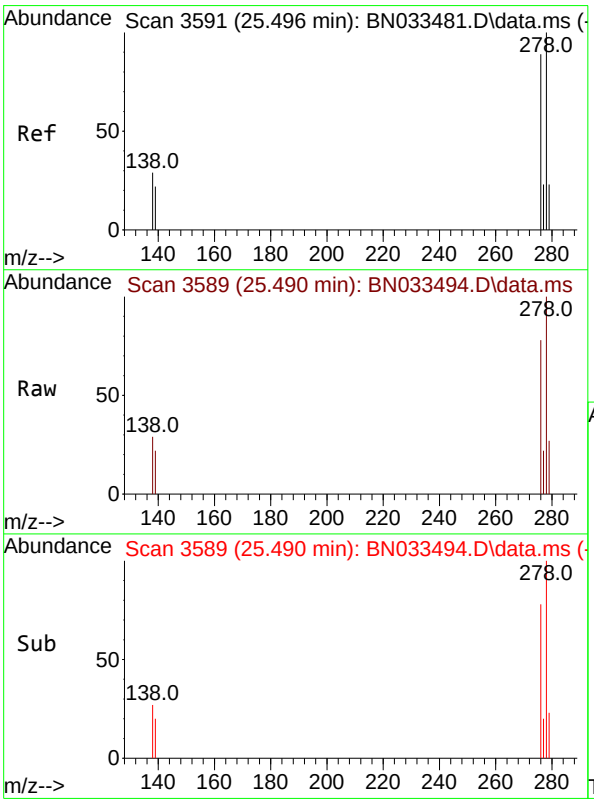
#39
Benzo(a)pyrene
Concen: 0.455 ng
RT: 23.224 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:252 Resp: 13321

Ion	Ratio	Lower	Upper
252	100		
253	27.7	21.5	32.3
125	22.6	17.0	25.4

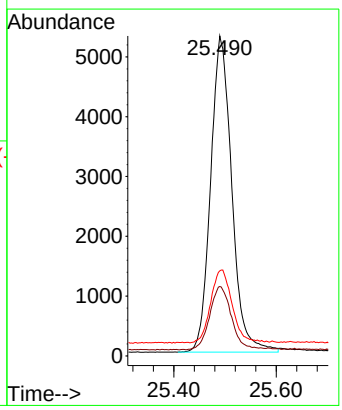


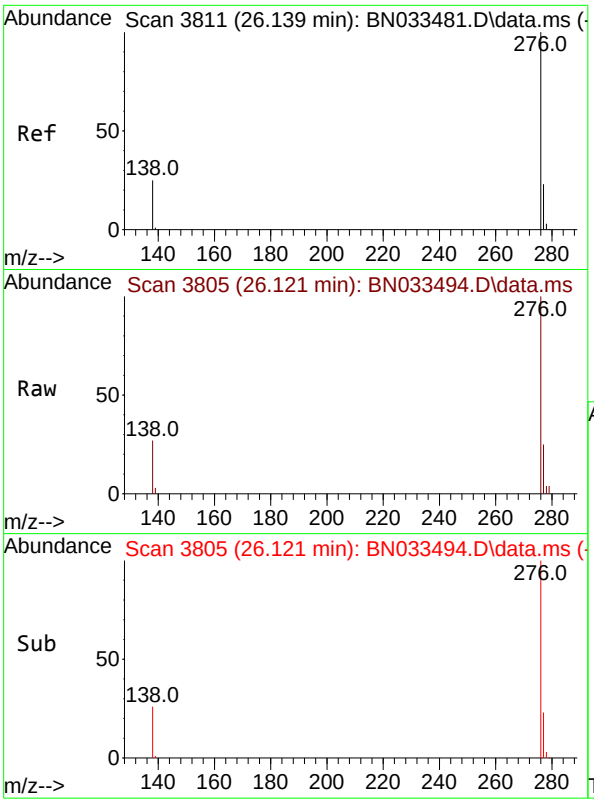


#40
Dibenzo(a,h)anthracene
Concen: 0.483 ng
RT: 25.490 min Scan# 3589
Delta R.T. -0.006 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Tgt Ion:278 Resp: 15187

Ion	Ratio	Lower	Upper
278	100		
139	21.7	19.1	28.7
279	26.6	21.0	31.4



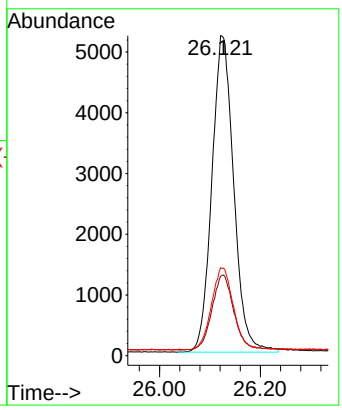


#41
Benzo(g,h,i)perylene
Concen: 0.467 ng
RT: 26.121 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN033494.D
Acq: 20 Aug 2024 07:44

Instrument :
BNA_N
ClientSampleId :
PB162787BSD

Tgt Ion:276 Resp: 15696

Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.7	29.5
138	27.5	21.8	32.6



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Manual Integration Report

Sequence:	BN081924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.2	BN033480.D	Benzo(k)fluoranthene	yogesh	8/21/2024 1:29:07 AM	mohammad	8/22/2024 7:51:24 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence:	BN082024	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P3645-02	BN033513.D	Bis(2-ethylhexyl)phthalate	yogesh	8/21/2024 1:31:12 AM	mohammad	8/22/2024 7:51:59 AM	Peak Integrated by Software incorrectly
P3645-02	BN033513.D	Chrysene	yogesh	8/21/2024 1:31:12 AM	mohammad	8/22/2024 7:51:59 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033542.D	Bis(2-ethylhexyl)phthalate	yogesh	8/22/2024 2:05:15 AM	mohammad	8/22/2024 7:51:59 AM	Peak Integrated by Software incorrectly

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM		
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM		
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	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	BN033476.D	19 Aug 2024 09:29	MA/JU	Ok
2	SSTDCCC0.4	BN033477.D	19 Aug 2024 10:09	MA/JU	Not Ok
3	DFTPP	BN033478.D	19 Aug 2024 15:37	MA/JU	Ok
4	SSTDICC0.1	BN033479.D	19 Aug 2024 16:16	MA/JU	Ok
5	SSTDICC0.2	BN033480.D	19 Aug 2024 16:52	MA/JU	Ok,M
6	SSTDICCC0.4	BN033481.D	19 Aug 2024 17:28	MA/JU	Ok
7	SSTDICC0.8	BN033482.D	19 Aug 2024 18:05	MA/JU	Ok
8	SSTDICC1.6	BN033483.D	19 Aug 2024 18:41	MA/JU	Ok
9	SSTDICC3.2	BN033484.D	19 Aug 2024 19:17	MA/JU	Ok
10	SSTDICC5.0	BN033485.D	19 Aug 2024 19:53	MA/JU	Ok
11	SSTDICV0.4	BN033486.D	20 Aug 2024 01:56	MA/JU	Ok
12	PB162787BL	BN033487.D	20 Aug 2024 02:49	MA/JU	Not Ok
13	DFTPP	BN033488.D	20 Aug 2024 04:04	MA/JU	Ok
14	SSTDCCC0.4	BN033489.D	20 Aug 2024 04:44	MA/JU	Ok
15	PB162821BL	BN033490.D	20 Aug 2024 05:20	MA/JU	Ok
16	PB162821BS	BN033491.D	20 Aug 2024 05:56	MA/JU	Ok
17	PB162821BSD	BN033492.D	20 Aug 2024 06:32	MA/JU	Ok
18	PB162787BS	BN033493.D	20 Aug 2024 07:08	MA/JU	Ok
19	PB162787BSD	BN033494.D	20 Aug 2024 07:44	MA/JU	Ok
20	P3650-01	BN033495.D	20 Aug 2024 08:21	MA/JU	Dilution
21	P3650-02	BN033496.D	20 Aug 2024 08:59	MA/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM		
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM		
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	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	P3646-01	BN033497.D	20 Aug 2024 09:46	MA/JU	Ok
23	P3650-03	BN033498.D	20 Aug 2024 10:22	MA/JU	Ok
24	P3650-04	BN033499.D	20 Aug 2024 10:58	MA/JU	Ok
25	P3651-01	BN033500.D	20 Aug 2024 11:35	MA/JU	Ok
26	P3657-01	BN033501.D	20 Aug 2024 12:11	MA/JU	Ok,M
27	P3580-04RE	BN033502.D	20 Aug 2024 12:47	MA/JU	Confirms
28	P3580-01DL	BN033503.D	20 Aug 2024 13:23	MA/JU	Ok,M
29	SP6605	BN033504.D	20 Aug 2024 13:59	MA/JU	Ok
30	SSTDCCC0.4	BN033505.D	20 Aug 2024 14:36	MA/JU	Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN082024

Review By	Jagrut	Review On	8/21/2024 10:22:19 AM		
Supervise By	mohammad	Supervise On	8/22/2024 7:51:59 AM		
SubDirectory	BN082024	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	BN033506.D	20 Aug 2024 15:12	MA/JU	Ok
2	SSTDCCC0.4	BN033507.D	20 Aug 2024 15:51	MA/JU	Ok
3	PB162787BL	BN033508.D	20 Aug 2024 16:28	MA/JU	Ok
4	PB162851BL	BN033509.D	20 Aug 2024 17:04	MA/JU	Ok
5	P3623-02	BN033510.D	20 Aug 2024 17:39	MA/JU	ReRun
6	P3623-03	BN033511.D	20 Aug 2024 18:16	MA/JU	ReRun
7	P3645-01	BN033512.D	20 Aug 2024 18:52	MA/JU	Ok
8	P3645-02	BN033513.D	20 Aug 2024 19:28	MA/JU	Ok,M
9	P3646-02	BN033514.D	20 Aug 2024 20:04	MA/JU	Ok
10	PB162851BS	BN033515.D	20 Aug 2024 20:40	MA/JU	Ok
11	PB162851BSD	BN033516.D	20 Aug 2024 21:17	MA/JU	Ok
12	P3662-01	BN033517.D	20 Aug 2024 21:53	MA/JU	Ok,M
13	P3666-01	BN033518.D	20 Aug 2024 22:29	MA/JU	Ok,M
14	P3666-02	BN033519.D	20 Aug 2024 23:06	MA/JU	Ok,M
15	P3666-03	BN033520.D	20 Aug 2024 23:42	MA/JU	Ok,M
16	P3650-01DL	BN033521.D	21 Aug 2024 00:18	MA/JU	Ok,M
17	P3643-09	BN033522.D	21 Aug 2024 00:54	MA/JU	Ok,M
18	P3643-10	BN033523.D	21 Aug 2024 01:30	MA/JU	ReRun
19	SSTDCCC0.4	BN033524.D	21 Aug 2024 02:07	MA/JU	Ok
20	DFTPP	BN033525.D	21 Aug 2024 03:22	MA/JU	Ok
21	SSTDCCC0.4	BN033526.D	21 Aug 2024 04:38	MA/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN082024

Review By	Jagrut	Review On	8/21/2024 10:22:19 AM		
Supervise By	mohammad	Supervise On	8/22/2024 7:51:59 AM		
SubDirectory	BN082024	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	PB162859BL	BN033527.D	21 Aug 2024 05:14	MA/JU	Ok
23	P3643-04	BN033528.D	21 Aug 2024 05:50	MA/JU	Ok,M
24	P3643-08	BN033529.D	21 Aug 2024 06:26	MA/JU	Ok,M
25	P3643-01	BN033530.D	21 Aug 2024 07:03	MA/JU	Ok,M
26	P3643-02MS	BN033531.D	21 Aug 2024 07:39	MA/JU	Ok,M
27	P3643-03MSD	BN033532.D	21 Aug 2024 08:15	MA/JU	Ok,M
28	P3643-05	BN033533.D	21 Aug 2024 08:51	MA/JU	Ok,M
29	P3643-11	BN033534.D	21 Aug 2024 09:27	MA/JU	Not Ok
30	P3643-12	BN033535.D	21 Aug 2024 10:04	MA/JU	Ok,M
31	P3643-14	BN033536.D	21 Aug 2024 10:40	MA/JU	Not Ok
32	P3643-06	BN033537.D	21 Aug 2024 11:16	MA/JU	Ok,M
33	P3643-13	BN033538.D	21 Aug 2024 11:53	MA/JU	Not Ok
34	P3643-07	BN033539.D	21 Aug 2024 12:29	MA/JU	Not Ok
35	PB162860BS	BN033540.D	21 Aug 2024 13:05	MA/JU	Ok,M
36	SP6606	BN033541.D	21 Aug 2024 13:41	MA/JU	Ok,M
37	SSTDCCC0.4	BN033542.D	21 Aug 2024 14:18	MA/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM	
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM	
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_HP Processing Method	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	BN033476.D	19 Aug 2024 09:29		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033477.D	19 Aug 2024 10:09	A Fresh Calibration is required.	MA/JU	Not Ok
3	DFTPP	DFTPP	BN033478.D	19 Aug 2024 15:37		MA/JU	Ok
4	SSTDICC0.1	SSTDICC0.1	BN033479.D	19 Aug 2024 16:16		MA/JU	Ok
5	SSTDICC0.2	SSTDICC0.2	BN033480.D	19 Aug 2024 16:52		MA/JU	Ok,M
6	SSTDICCC0.4	SSTDICCC0.4	BN033481.D	19 Aug 2024 17:28	The Calibration is Good For 8270 Sim DOD except Com#5,14	MA/JU	Ok
7	SSTDICC0.8	SSTDICC0.8	BN033482.D	19 Aug 2024 18:05		MA/JU	Ok
8	SSTDICC1.6	SSTDICC1.6	BN033483.D	19 Aug 2024 18:41		MA/JU	Ok
9	SSTDICC3.2	SSTDICC3.2	BN033484.D	19 Aug 2024 19:17		MA/JU	Ok
10	SSTDICC5.0	SSTDICC5.0	BN033485.D	19 Aug 2024 19:53		MA/JU	Ok
11	SSTDICV0.4	ICVBN081924	BN033486.D	20 Aug 2024 01:56	Com#5,14 failed in ICV for 8270 Sim DOD	MA/JU	Ok
12	PB162787BL	PB162787BL	BN033487.D	20 Aug 2024 02:49	Analyzed for contamination check	MA/JU	Not Ok
13	DFTPP	DFTPP	BN033488.D	20 Aug 2024 04:04		MA/JU	Ok
14	SSTDCCC0.4	SSTDCCC0.4	BN033489.D	20 Aug 2024 04:44		MA/JU	Ok
15	PB162821BL	PB162821BL	BN033490.D	20 Aug 2024 05:20		MA/JU	Ok
16	PB162821BS	PB162821BS	BN033491.D	20 Aug 2024 05:56		MA/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM	
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM	
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_HP Processing Method	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	

17	PB162821BSD	PB162821BSD	BN033492.D	20 Aug 2024 06:32		MA/JU	Ok
18	PB162787BS	PB162787BS	BN033493.D	20 Aug 2024 07:08		MA/JU	Ok
19	PB162787BSD	PB162787BSD	BN033494.D	20 Aug 2024 07:44		MA/JU	Ok
20	P3650-01	RW7-SP100-20240814	BN033495.D	20 Aug 2024 08:21	Need 2X Dilution	MA/JU	Dilution
21	P3650-02	RW7-SP201-20240814	BN033496.D	20 Aug 2024 08:59		MA/JU	Ok
22	P3646-01	914-J-WPO-0.25-08152	BN033497.D	20 Aug 2024 09:46		MA/JU	Ok
23	P3650-03	RW7-SP302-20240814	BN033498.D	20 Aug 2024 10:22		MA/JU	Ok
24	P3650-04	RW7-SP303-20240814	BN033499.D	20 Aug 2024 10:58		MA/JU	Ok
25	P3651-01	RW7-SP201-20240815	BN033500.D	20 Aug 2024 11:35		MA/JU	Ok
26	P3657-01	917-J-WS-081624	BN033501.D	20 Aug 2024 12:11		MA/JU	Ok,M
27	P3580-04RE	925-KI-SD-0.5-1-08122	BN033502.D	20 Aug 2024 12:47	Surrogate Fail	MA/JU	Confirms
28	P3580-01DL	926-KI-SD-0-0.5-08122	BN033503.D	20 Aug 2024 13:23		MA/JU	Ok,M
29	SP6605	SP6605	BN033504.D	20 Aug 2024 13:59	SP6605-8270-SIM Surrogate	MA/JU	Ok
30	SSTDCCC0.4	SSTDCCC0.4EC	BN033505.D	20 Aug 2024 14:36		MA/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN082024

Review By	Jagrut	Review On	8/21/2024 10:22:19 AM	
Supervise By	mohammad	Supervise On	8/22/2024 7:51:59 AM	
SubDirectory	BN082024	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	BN033506.D	20 Aug 2024 15:12		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033507.D	20 Aug 2024 15:51		MA/JU	Ok
3	PB162787BL	PB162787BL	BN033508.D	20 Aug 2024 16:28		MA/JU	Ok
4	PB162851BL	PB162851BL	BN033509.D	20 Aug 2024 17:04		MA/JU	Ok
5	P3623-02	TT189D2-HYD-202408	BN033510.D	20 Aug 2024 17:39	Surrogate Fail	MA/JU	ReRun
6	P3623-03	BPOW6-7-HYD-202408	BN033511.D	20 Aug 2024 18:16	Surrogate Fail	MA/JU	ReRun
7	P3645-01	914-J-WS-081524	BN033512.D	20 Aug 2024 18:52		MA/JU	Ok
8	P3645-02	916-J-WS-081524	BN033513.D	20 Aug 2024 19:28		MA/JU	Ok,M
9	P3646-02	916-J-WPO-0.25-08152	BN033514.D	20 Aug 2024 20:04		MA/JU	Ok
10	PB162851BS	PB162851BS	BN033515.D	20 Aug 2024 20:40		MA/JU	Ok
11	PB162851BSD	PB162851BSD	BN033516.D	20 Aug 2024 21:17		MA/JU	Ok
12	P3662-01	917-J-WPO-0.25-08162	BN033517.D	20 Aug 2024 21:53		MA/JU	Ok,M
13	P3666-01	SP-100-70740816	BN033518.D	20 Aug 2024 22:29		MA/JU	Ok,M
14	P3666-02	SP-201-70740816	BN033519.D	20 Aug 2024 23:06		MA/JU	Ok,M
15	P3666-03	SP-303-70740816	BN033520.D	20 Aug 2024 23:42		MA/JU	Ok,M
16	P3650-01DL	RW7-SP100-20240814	BN033521.D	21 Aug 2024 00:18		MA/JU	Ok,M
17	P3643-09	924-K1-SD-0-0.5-08152	BN033522.D	21 Aug 2024 00:54		MA/JU	Ok,M
18	P3643-10	924-K1-SD-0.5-1.0-081	BN033523.D	21 Aug 2024 01:30	Surrogate Fail	MA/JU	ReRun

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN082024

Review By	Jagrut	Review On	8/21/2024 10:22:19 AM	
Supervise By	mohammad	Supervise On	8/22/2024 7:51:59 AM	
SubDirectory	BN082024	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	BN033524.D	21 Aug 2024 02:07		MA/JU	Ok
20	DFTPP	DFTPP	BN033525.D	21 Aug 2024 03:22		MA/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN033526.D	21 Aug 2024 04:38		MA/JU	Ok
22	PB162859BL	PB162859BL	BN033527.D	21 Aug 2024 05:14		MA/JU	Ok
23	P3643-04	932-K1-SD-0.5-1.0-081	BN033528.D	21 Aug 2024 05:50		MA/JU	Ok,M
24	P3643-08	918-J-SD-0.5-1.0-0815	BN033529.D	21 Aug 2024 06:26		MA/JU	Ok,M
25	P3643-01	932-K1-SD-0-0.5-08152	BN033530.D	21 Aug 2024 07:03		MA/JU	Ok,M
26	P3643-02MS	932-K1-SD-0-0.5-08152	BN033531.D	21 Aug 2024 07:39		MA/JU	Ok,M
27	P3643-03MSD	932-K1-SD-0-0.5-08152	BN033532.D	21 Aug 2024 08:15		MA/JU	Ok,M
28	P3643-05	917-J-SD-0-0.5-081524	BN033533.D	21 Aug 2024 08:51		MA/JU	Ok,M
29	P3643-11	921-J-SD-0-0.5-081524	BN033534.D	21 Aug 2024 09:27	Not matching with Total Analysis	MA/JU	Not Ok
30	P3643-12	921-J-SD-0.5-1.0-0815	BN033535.D	21 Aug 2024 10:04		MA/JU	Ok,M
31	P3643-14	921-K1-SD-0.5-1.0-081	BN033536.D	21 Aug 2024 10:40	Not matching with Total Analysis and also FD not Match with Original Sample(P3643-12)	MA/JU	Not Ok
32	P3643-06	917-J-SD-0.5-1.0-0815	BN033537.D	21 Aug 2024 11:16		MA/JU	Ok,M
33	P3643-13	921-J-SD-0-0.5-081524	BN033538.D	21 Aug 2024 11:53	Need 5X Dilution,Not matching with Total Analysis and also FD not Match with Original Sample(P3643-11)	MA/JU	Not Ok
34	P3643-07	918-J-SD-0-0.5-081524	BN033539.D	21 Aug 2024 12:29	Need 5X Dilutio,Not matching with Total Analysis	MA/JU	Not Ok
35	PB162860BS	PB162860BS	BN033540.D	21 Aug 2024 13:05		MA/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN082024

Review By	Jagrut	Review On	8/21/2024 10:22:19 AM	
Supervise By	mohammad	Supervise On	8/22/2024 7:51:59 AM	
SubDirectory	BN082024	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	

36	SP6606	SP6606	BN033541.D	21 Aug 2024 13:41	8270 SIM Spike	MA/JU	Ok,M
37	SSTDCCC0.4	SSTDCCC0.4EC	BN033542.D	21 Aug 2024 14:18		MA/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB162787

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	08/16/2024
Matrix :	Water			**Extraction Start Time :**	08:30
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	08/16/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	13:30
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: [√] Seperatory Funne [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared 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

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH. P3645-01,02,P3646-01,02
Added in batch at10:33.

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
08/16/24	RP (Ent Tech)	RC/SVOC
13:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB162787

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 08/16/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol.(mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB162787BL	SBLK787	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			SEP-01
PB162787BS	SLCS787	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			2
PB162787BSD	SLCSD787	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			3
P3623-02	TT189D2-HYD-20240813	SVOC-SIMGroup1	990	6	RUPESH	rajesh	1	C		4
P3623-03	BPOW6-7-HYD-20240814	SVOC-SIMGroup1	980	6	RUPESH	rajesh	1	C		5
P3645-01	914-J-WS-081524	SVOCMS Group3	980	6	RUPESH	rajesh	1	E		6
P3645-02	916-J-WS-081524	SVOCMS Group3	990	6	RUPESH	rajesh	1	E		7
P3646-01	914-J-WPO-0.25-081524	SVOC-SIMGroup1	980	6	RUPESH	rajesh	1	C		8
P3646-02	916-J-WPO-0.25-081524	SVOC-SIMGroup1	970	6	RUPESH	rajesh	1	C		9

* **Extracts relinquished on the same date as received.**

8/16/24

MO 162787

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p3646 **WorkList ID :** 182742 **Department :** Extraction **Date :** 08-16-2024 10:33:48

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3645-01	914-J-WS-081524	Water	SVOCMS Group3	Cool 4 deg C	JACO05	G21	08/15/2024	8270-Modified
P3645-01	914-J-WS-081524	Water	SVOCMS Group6	Cool 4 deg C	JACO05	G21	08/15/2024	8270E
P3645-02	916-J-WS-081524	Water	SVOCMS Group3	Cool 4 deg C	JACO05	G21	08/15/2024	8270-Modified
P3645-02	916-J-WS-081524	Water	SVOCMS Group6	Cool 4 deg C	JACO05	G21	08/15/2024	8270E
P3646-01	914-J-WPO-0.25-081524	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	G21	08/15/2024	8270-Modified
P3646-02	916-J-WPO-0.25-081524	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	G21	08/15/2024	8270-Modified

Date/Time 08/16/24 10:33
Raw Sample Received by: RP (Ext Lab)
Raw Sample Relinquished by: JM/SM

Date/Time 08/16/24 10:50
Raw Sample Received by: JM/SM
Raw Sample Relinquished by: RP (Ext Lab)

182787
8:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3623 **WorkList ID :** 182731 **Department :** Extraction **Date :** 08-16-2024 08:12:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3623-02	TT189D2-HYD-20240813	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	G21	08/13/2024	8270-Modified
P3623-03	BPOW6-7-HYD-20240814	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	G21	08/14/2024	8270-Modified

Date/Time 08/16/24 8:25
Raw Sample Received by: RJ (CH Lab)
Raw Sample Relinquished by: CR SM

Date/Time 08/16/24 8:45
Raw Sample Received by: CR SM
Raw Sample Relinquished by: RJ (CH Lab)

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Prep Standard - Chemical Standard Summary

Order ID : P3645

Test : SVOCMS Group3

Prepbatch ID : PB162787,

Sequence ID/Qc Batch ID: bn081924,BN082024,

Standard ID :
EP2521,EP2523,EP2524,SP6527,SP6547,SP6548,SP6572,SP6573,SP6586,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,SP6603,

Chemical ID :
E3551,E3657,E3746,E3759,E3768,E3769,E3772,E3786,E3787,M5037,S10103,S10247,S10782,S10977,S 11003,S11012,S11097,S11494,S11566,S11766,S11767,S12029,S12077,S12096,S12097,S12112,S12113,S12117,S12118,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2521	08/10/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 08/10/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2523	08/14/2024	02/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 08/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024

FROM 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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	SP6548	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024

FROM 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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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

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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/ampul	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	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

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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] [CS 4978-1]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	01/12/2025	07/12/2024 / Rahul	11/21/2023 / Rahul	S11767

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

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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] [CS 4978-2]	A0207706	01/09/2025	07/09/2024 / Jagrut	02/05/2024 / Rahul	S12097

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, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/10/2025 / Jagrut	03/15/2024 / Rahul	S12118

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

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

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

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

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

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Santa Rosa, CA 95403

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~~S11088~~ S11096 to S11099

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Date Received:_____

Certificate of Analysis

Rev 0

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

Certified By: Briana Smith

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 gravimetricly.

Certificate of Analysis

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

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 gravimetricly.

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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 03/18/22 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)

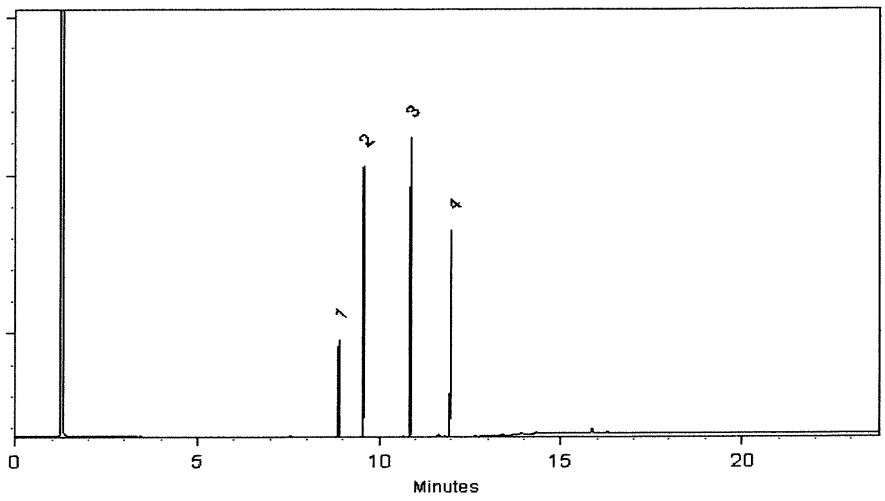
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

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

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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

Received on 09/07/22 by CG

S10778 to S10782

Catalog No. : 33913 **Lot No.:** A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene-d10	2,015.0 µg/mL	+/- 11.8254 µg/mL	Gravimetric
	CAS # 7297-45-2 (Lot EF-135)		+/- 90.7728 µg/mL	Unstressed
	Purity 96%		+/- 100.7207 µg/mL	Stressed
2	Fluoranthene-d10	2,007.0 µg/mL	+/- 11.7782 µg/mL	Gravimetric
	CAS # 93951-69-0 (Lot PR-20668)		+/- 90.4107 µg/mL	Unstressed
	Purity 99%		+/- 100.3188 µg/mL	Stressed

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

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

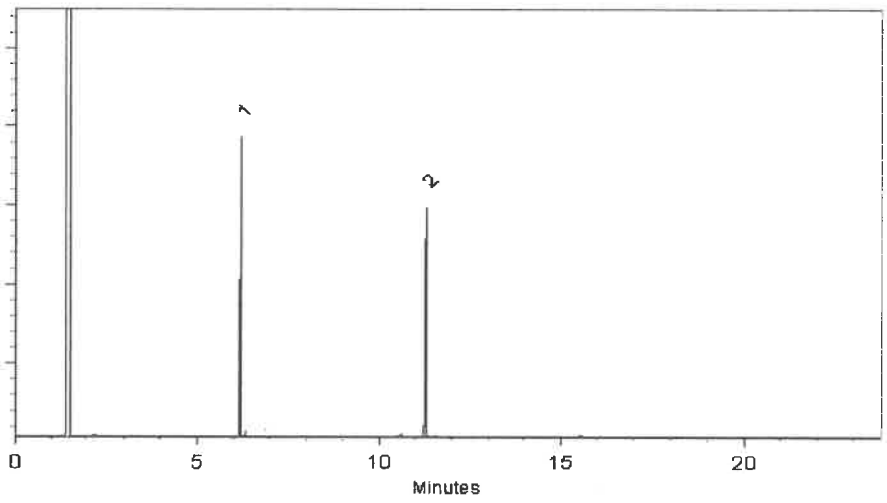
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022 **Balance:** B442140311

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 13-Jun-2022

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

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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 +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

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

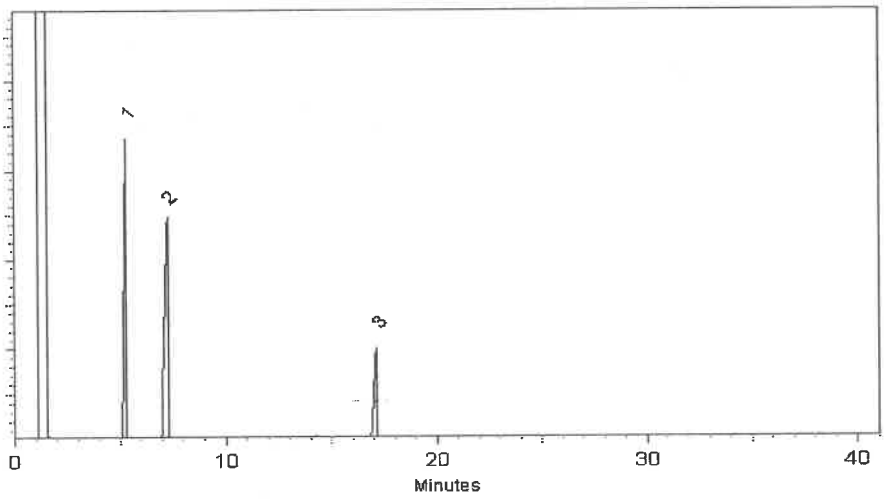
Carrier Gas:
hydrogen-constant pressure 10 psi.

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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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received by CG on 12/28/22 $10981 to $11010

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

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 +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

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

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

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

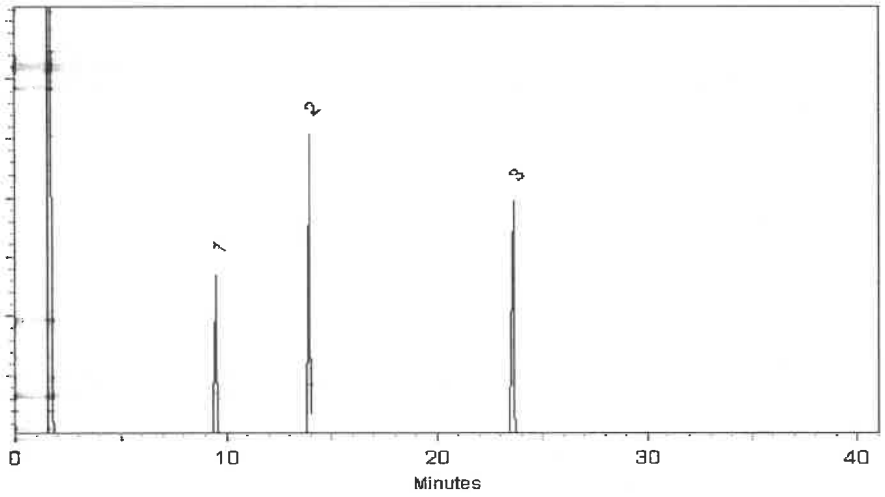
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

John Friedline - Operations Technician I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

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

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Certificate of Analysis

gravimetric

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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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 01/13/23 by CG S11011 to S11015

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

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 - 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:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_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 foreing 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 RB on 7/24/23 E3551

VWR®

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:

Pellets

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

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 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.

E 3657	E 3659
E 3654	E 3660

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

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_2Cl_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
Titrable 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)

avantor™ | J.T.Baker®

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_2Cl_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
Titrable 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

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable 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

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

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 ($(CH_3)_2CO$) (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
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 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

avantor™ | J.T.Baker®

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 ($(CH_3)_2CO$) (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
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 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

James Ethier
Jamie Ethier
Vice President Global Quality

PO: PO1-9448 PRODUCT CODE: SHIP DATE: 7/16/2024

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)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable 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: 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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

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_2Cl_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
Titrable 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

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M5037-38-39-40
ND

avantor™ | J.T.Baker®

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_2SO_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

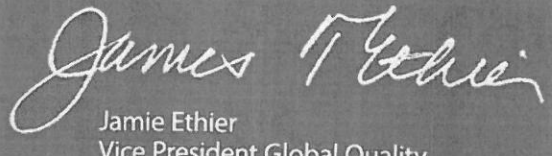
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000250349

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



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

CPI INTERNATIONAL

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

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	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 to 511498 } Y.P. 08/11/2023

*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 gravimetricly.

RESTEK
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 **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

511539
↓
511568
Y.P. 091191

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%

Sam Moodler - Operations Tech I

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:

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

  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.

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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.)

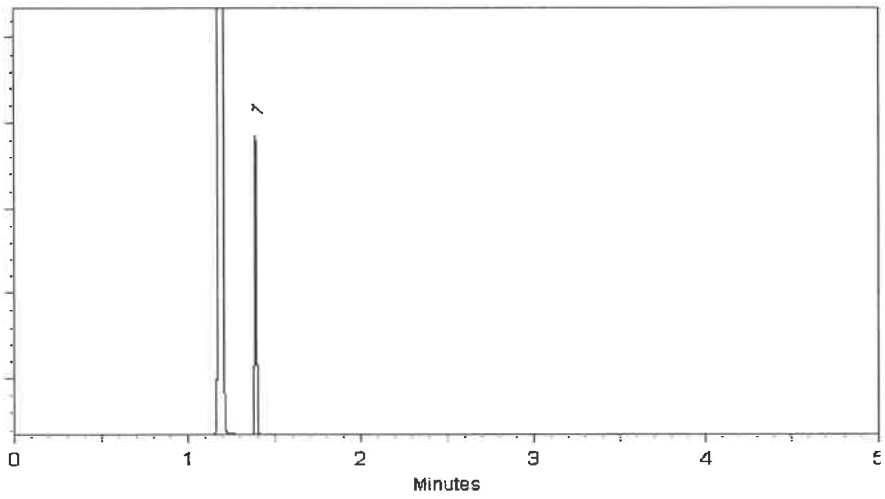
Inj. Temp:
250°C

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 - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

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:

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

  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.

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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.)

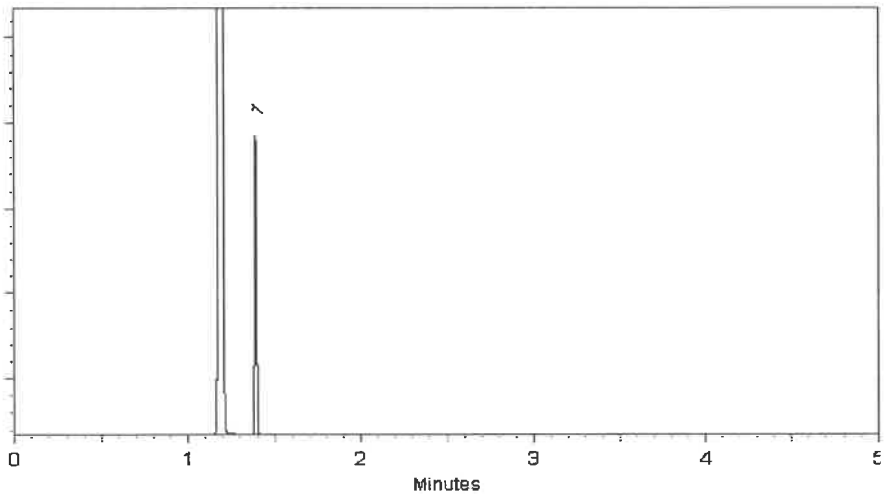
Inj. Temp:
250°C

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 - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

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:

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

  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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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31206 **Lot No.:** A0201320

S12013 ↓ S12042 RC 12/26/23

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

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.)

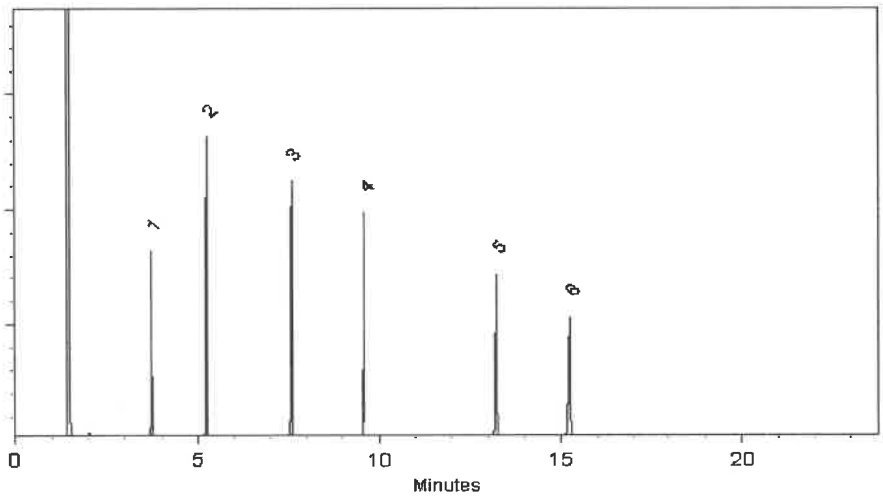
Inj. Temp:
250°C

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

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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

Manufacturer's Quality System
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Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075
↓
S12079
RC
02/01/24

*Not a certified value

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

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 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%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 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%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

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

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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

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Date Received:_____

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Rev 0

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

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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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

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

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

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

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P3645
QUOTE NO.
COC Number 2041326

CLIENT INFORMATION
REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Ynfante
PHONE: (281) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STL PTC
PROJECT NO.: D3779922 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (801) 936-0586 FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

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 2 (Results + QC)
- ☒ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other

ANALYSIS

1. VOCs 8260D
2. SVOCs + [PAHs 8270E struck out] 8270E SIM (initials)
3. Metals 6020B; Hg 1470B
4. Cr(VI) 7196A
5. SW 3060A; SVOCs - 8270E; PAHs - 8270E SIM
6.
7.
8.
9.

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1: A/E	2: E (initials)	3: B/E	4: E	5: E	6	7	8	9	COMMENTS
1.	914-J-WS-081524	WS		X	8-15-24	1335	8	2	4 (initials)	1	1	4					
2.	916-J-WS-081524	WS		X	8-15-24	1425	8	2	4 (initials) CC	1	1	4					
3.	TB-02-081524	DI		X	8-15-24	1530	1	1									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

COMMENTS: ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	8-15-24 1710	1. [signature] 8-15-24 1710
2.		2.
3. [signature]	8-15-24 1820	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C

Comments: See attached table for required analytes list
2L of extra volume for SVOCs + PAHs analysis

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3645 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : Mary I. Murphy
Invoice Name : JACOBS Engineering Grou
Invoice Contact : Mary I. Murphy

Order Date : 8/15/2024 9:40:00 PM
Project Name : Former Schlumberger Site I
Receive DateTime : 8/15/2024 6:20:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3645-01	914-J-WS-081524	Water	08/15/2024	13:35					
					VOCMS Group6		8260-Low	10 Bus. Days	
P3645-02	916-J-WS-081524	Water	08/15/2024	14:25					
					VOCMS Group6		8260-Low	10 Bus. Days	
P3645-03	TB-02-081524	Water	08/15/2024	15:30					
					VOCMS Group6		8260-Low	10 Bus. Days	

Relinguished By :
Date / Time : 8/16/24 0950

Received By :
Date / Time : 8-16-24 09:50

Storage Area : VOA Refridgerator Room