284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : P4959

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

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Cover Page

Order ID : P4959

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
P4959-01	RW5-SP100-20241121
P4959-02	RW5-SP201-20241121
P4959-03	RW5-SP303-20241121

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

Signature : N. N. Pandya

APPROVED

Date: 12/3/2024

By Nimisha Pandya, QA/QC Supervisor at 2:03 pm, Dec 03, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: CTO WE13
Project Manager : Ernie Wu
Chemtech Project # P4959
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
3 Water samples were received on 11/22/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1. This data package contains results for SVOC-SIMGroup1.

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 SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for
RW5-SP100-20241121 [2-Fluorobiphenyl - 110%, Terphenyl-d14 - 165%],
RW5-SP201-20241121 [2-Fluorobiphenyl - 22%, Terphenyl-d14 - 229%],
RW5-SP303-20241121 [Terphenyl-d14 - 182%],
PB165198BS [2-Fluorobiphenyl - 119% and Nitrobenzene-d5 - 117%], failing surrogates were not associated with client parameter list, therefore no corrective action taken

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration (8270Sim-BN112524.M) for 2-Fluorobiphenyl and Terphenyl-d14 but not associated with client parameter list therefore this calibration is used for analysis.

The Continuous Calibration File ID BN035293.D met the requirements except for 1,4-Dioxane is failing high but no positive hit in associate sample therefore no corrective

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action taken while 2-Fluorobiphenyl,2-Fluorophenol and Nitrobenzene-d5 which is not our target compound, therefore no corrective action taken.

The Tuning criteria met requirements.

Samples RW5-SP100-20241121 was diluted at 5X. This sample initially analyzed straight in sequence BN112524 but CCAL is failing therefore based on that result lab analyzed this sample directly with 5X while Straight analysis given as screening data in Miscellaneous section.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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

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 <20% 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 > 20% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 2:03 pm, Dec 03, 2024

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908-789-8900 Fax: 908-789-8922

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

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

CHEMTECH PROJECT NUMBER: P4959 MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓

The % RSD is greater than 20% in the Initial Calibration (8270Sim-BN112524.M) for 2-Fluorobiphenyl and Terphenyl-d14 but not associated with client parameter list therefore this calibration is used for analysis.

The Continuous Calibration File ID BN035293.D met the requirements except for 1,4-Dioxane is failing high but no positive hit in associate sample therefore no corrective action taken while 2-Fluorobiphenyl,2-Fluorophenol and Nitrobenzene-d5 which is not our target compound, therefore no corrective action taken.

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries met the acceptable criteria except for
RW5-SP100-20241121 [2-Fluorobiphenyl - 110%, Terphenyl-d14 - 165%],
RW5-SP201-20241121 [2-Fluorobiphenyl - 22%, Terphenyl-d14 - 229%],
RW5-SP303-20241121 [Terphenyl-d14 - 182%],
PB165198BS [2-Fluorobiphenyl - 119% and Nitrobenzene-d5 - 117%], failing surrogates were not associated with client parameter list, therefore no corrective action taken

8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓

If not met, list those compounds and their recoveries which fall outside the acceptable range.

The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .

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

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

ADDITIONAL COMMENTS:
Samples RW5-SP100-20241121 was diluted at 5X. This sample initially analyzed straight in sequence BN112524 but CCAL is failing therefore based on that result lab analyzed this sample directly with 5X while Straight analysis given as screening data in Miscellaneous section.

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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

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 <20% 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 > 20% for the Initial Calibration curve for SW-846 analysis.

S. M. Jodhani
QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 9:27 am, Dec 03, 2024

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4959

	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	✓

QA Review Signature: SOHIL JODHANI **Date:** 12/03/2024

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LAB CHRONICLE

OrderID:	P4959	**OrderDate:**	11/22/2024 10:42:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4959-01	**RW5-SP100-20241121**	**Water**			**11/21/24**			**11/22/24**
			SVOC-SIMGroup1	8270-Modified		11/22/24	11/28/24	
P4959-02	**RW5-SP201-20241121**	**Water**			**11/21/24**			**11/22/24**
			SVOC-SIMGroup1	8270-Modified		11/22/24	11/26/24	
P4959-03	**RW5-SP303-20241121**	**Water**			**11/21/24**			**11/22/24**
			SVOC-SIMGroup1	8270-Modified		11/22/24	11/26/24	

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Hit Summary Sheet
SW-846

SDG No.: P4959

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**RW5-SP100-20241121**								
P4959-01	RW5-SP100-20241121	WATER	1,4-Dioxane	10.400		0.34	1	1	ug/L
			Total Svoc :		**10.40**				
			Total Concentration:		**10.40**				

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4959

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4959-01	RW5-SP100-20241121	2-Methylnaphthalene-d10	0.4	0.49	123		30	150
		Fluoranthene-d10	0.4	0.58	145		30	150
		Nitrobenzene-d5	0.4	0.43	106		55	111
		2-Fluorobiphenyl	0.4	0.44	110	*	53	106
		Terphenyl-d14	0.4	0.66	165	*	58	132
P4959-02	RW5-SP201-20241121	2-Methylnaphthalene-d10	0.4	0.55	136		30	150
		Fluoranthene-d10	0.4	0.53	132		30	150
		Nitrobenzene-d5	0.4	0.25	61		55	111
		2-Fluorobiphenyl	0.4	0.086	22	*	53	106
		Terphenyl-d14	0.4	0.92	229	*	58	132
P4959-03	RW5-SP303-20241121	2-Methylnaphthalene-d10	0.4	0.45	113		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.23	57		55	111
		2-Fluorobiphenyl	0.4	0.24	60		53	106
		Terphenyl-d14	0.4	0.73	182	*	58	132
PB165198BL	PB165198BL	2-Methylnaphthalene-d10	0.4	0.42	104		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
PB165198BS	PB165198BS	2-Methylnaphthalene-d10	0.4	0.58	145		30	150
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.47	117	*	55	111
		2-Fluorobiphenyl	0.4	0.48	119	*	53	106
		Terphenyl-d14	0.4	0.52	130		58	132
PB165198BSD	PB165198BSD	2-Methylnaphthalene-d10	0.4	0.51	127		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.41	103		55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.45	113		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4959

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN035370.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165198BS	1,4-Dioxane	0.4	0.41	ug/L	103				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4959

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN035371.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165198BSD	1,4-Dioxane	0.4	0.35	ug/L	88	16			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165198BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG NO.: P4959

Lab File ID: BN035369.D Lab Sample ID: PB165198BL

Instrument ID: BNA_N Date Extracted: 11/22/2024

Matrix: (soil/water) Water Date Analyzed: 11/28/2024

Level: (low/med) LOW Time Analyzed: 05:27

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165198BS	PB165198BS	BN035370.D	11/28/2024
PB165198BSD	PB165198BSD	BN035371.D	11/28/2024
RW5-SP100-20241121	P4959-01	BN035374.D	11/28/2024
RW5-SP201-20241121	P4959-02	BN035298.D	11/26/2024
RW5-SP303-20241121	P4959-03	BN035299.D	11/26/2024

COMMENTS:

Alliance TECHNICAL GROUP
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4959 SDG NO.: P4959

Lab File ID: BN035276.D DFTPP Injection Date: 11/25/2024

Instrument ID: BNA_N DFTPP Injection Time: 09:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30.5
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	28.2
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	10.4
442	Greater than 50% of mass 198	65.2
443	15.0 - 24.0% of mass 442	12.3 (18.9) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN035277.D	11/25/2024	10:16
SSTDICC0.2	SSTDICC0.2	BN035278.D	11/25/2024	10:52
SSTDICCC0.4	SSTDICCC0.4	BN035279.D	11/25/2024	11:28
SSTDICC0.8	SSTDICC0.8	BN035280.D	11/25/2024	12:04
SSTDICC1.6	SSTDICC1.6	BN035281.D	11/25/2024	12:40
SSTDICC3.2	SSTDICC3.2	BN035282.D	11/25/2024	13:16
SSTDICC5.0	SSTDICC5.0	BN035283.D	11/25/2024	13:52

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4959 SDG NO.: P4959

Lab File ID: BN035292.D DFTPP Injection Date: 11/25/2024

Instrument ID: BNA_N DFTPP Injection Time: 20:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.5
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	28.6
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	40.4
197	Less than 2.0% of mass 198	0.0
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	29
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	11.9
442	Greater than 50% of mass 198	71
443	15.0 - 24.0% of mass 442	13.4 (18.8) 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	BN035293.D	11/25/2024	23:02
RW5-SP201-20241121	P4959-02	BN035298.D	11/26/2024	02:02
RW5-SP303-20241121	P4959-03	BN035299.D	11/26/2024	02:38
SSTDCCC0.4EC	SSTDCCC0.4	BN035300.D	11/26/2024	03:14

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4959 SDG NO.: P4959

Lab File ID: BN035349.D DFTPP Injection Date: 11/27/2024

Instrument ID: BNA_N DFTPP Injection Time: 14:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	28.9
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	39.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	70.8
443	15.0 - 24.0% of mass 442	14 (19.7) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN035350.D	11/27/2024	15:34
SSTDICC0.2	SSTDICC0.2	BN035351.D	11/27/2024	16:10
SSTDICCC0.4	SSTDICCC0.4	BN035352.D	11/27/2024	16:46
SSTDICC0.8	SSTDICC0.8	BN035353.D	11/27/2024	17:21
SSTDICC1.6	SSTDICC1.6	BN035354.D	11/27/2024	17:57
SSTDICC3.2	SSTDICC3.2	BN035355.D	11/27/2024	18:33
SSTDICC5.0	SSTDICC5.0	BN035356.D	11/27/2024	19:09

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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4959 SDG NO.: P4959

Lab File ID: BN035367.D DFTPP Injection Date: 11/28/2024

Instrument ID: BNA_N DFTPP Injection Time: 03:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.7
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	29.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	40.4
197	Less than 2.0% of mass 198	0.0
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	29.7
365	Greater than 1% of mass 198	4.8
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	76.8
443	15.0 - 24.0% of mass 442	15 (19.5) 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	BN035368.D	11/28/2024	04:51
PB165198BL	PB165198BL	BN035369.D	11/28/2024	05:27
PB165198BS	PB165198BS	BN035370.D	11/28/2024	06:03
PB165198BSD	PB165198BSD	BN035371.D	11/28/2024	06:39
RW5-SP100-20241121	P4959-01	BN035374.D	11/28/2024	08:26
SSTDCCC0.4EC	SSTDCCC0.4	BN035375.D	11/28/2024	09:02

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG NO.: P4959

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/25/2024

Lab File ID: BN035293.D Time Analyzed: 23:02

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	3724	7.315	9273	10.06	5865	13.97
	UPPER LIMIT	7448	7.815	18546	10.563	11730	14.473
	LOWER LIMIT	1862	6.815	4636.5	9.563	2932.5	13.473
	EPA SAMPLE NO.						
01	RW5-SP201-20241121	3353	7.32	8974	10.06	7827	13.97
02	RW5-SP303-20241121	4025	7.32	10571	10.06	6682	13.97

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.: P4959 SAS No.: P4959 SDG NO.: P4959

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/25/2024

Lab File ID: BN035293.D Time Analyzed: 23:02

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	12563	16.741	932	21.006	7119	23.078
	UPPER LIMIT	25126	17.241	1864	21.506	14238	23.578
	LOWER LIMIT	6281.5	16.241	466	20.506	3559.5	22.578
	EPA SAMPLE NO.						
01	RW5-SP201-20241121	12956	16.73	823	21.01	7685	23.08
02	RW5-SP303-20241121	14026	16.73	880	21.01	7740	23.08

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.: P4959 SAS No.: P4959 SDG NO.: P4959

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/28/2024

Lab File ID: BN035368.D Time Analyzed: 04:51

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	2051	7.308	5360	10.05	3908	13.97
	UPPER LIMIT	4102	7.808	10720	10.552	7816	14.467
	LOWER LIMIT	1025.5	6.808	2680	9.552	1954	13.467
	EPA SAMPLE NO.						
01	RW5-SP100-20241121	1752	7.31	4244	10.05	3218	13.97
02	PB165198BL	2540	7.31	6378	10.06	4630	13.97
03	PB165198BS	2262	7.31	5496	10.05	3686	13.97
04	PB165198BSD	2376	7.31	5724	10.05	3806	13.97

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.: P4959 SAS No.: P4959 SDG NO.: P4959

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/28/2024

Lab File ID: BN035368.D Time Analyzed: 04:51

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	9758	16.723	9496	20.974	10416	23.067
	UPPER LIMIT	19516	17.223	18992	21.474	20832	23.567
	LOWER LIMIT	4879	16.223	4748	20.474	5208	22.567
	EPA SAMPLE NO.						
01	RW5-SP100-20241121	8380	16.74	7890	20.97	7953	23.07
02	PB165198BL	11721	16.74	10667	20.97	11480	23.07
03	PB165198BS	9203	16.72	8666	20.97	8924	23.07
04	PB165198BSD	9566	16.74	8948	20.97	9280	23.07

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/21/24
Project:	CTO WE13	Date Received:	11/22/24
Client Sample ID:	RW5-SP100-20241121	SDG No.:	P4959
Lab Sample ID:	P4959-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
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
BN035374.D	5	11/22/24 12:25	11/28/24 08:26	PB165198

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.4		0.34	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.49		30 - 150		123%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.58		30 - 150		145%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		106%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		110%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.66	*	58 - 132		165%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1750	7.308				
1146-65-2	Naphthalene-d8	4240	10.052				
15067-26-2	Acenaphthene-d10	3220	13.967				
1517-22-2	Phenanthrene-d10	8380	16.736				
1719-03-5	Chrysene-d12	7890	20.974				
1520-96-3	Perylene-d12	7950	23.067				

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\BN112724\
Data File : BN035374.D
Acq On : 28 Nov 2024 08:26
Operator : RC/JU
Sample : P4959-01 5X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Quant Time: Nov 29 00:19:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

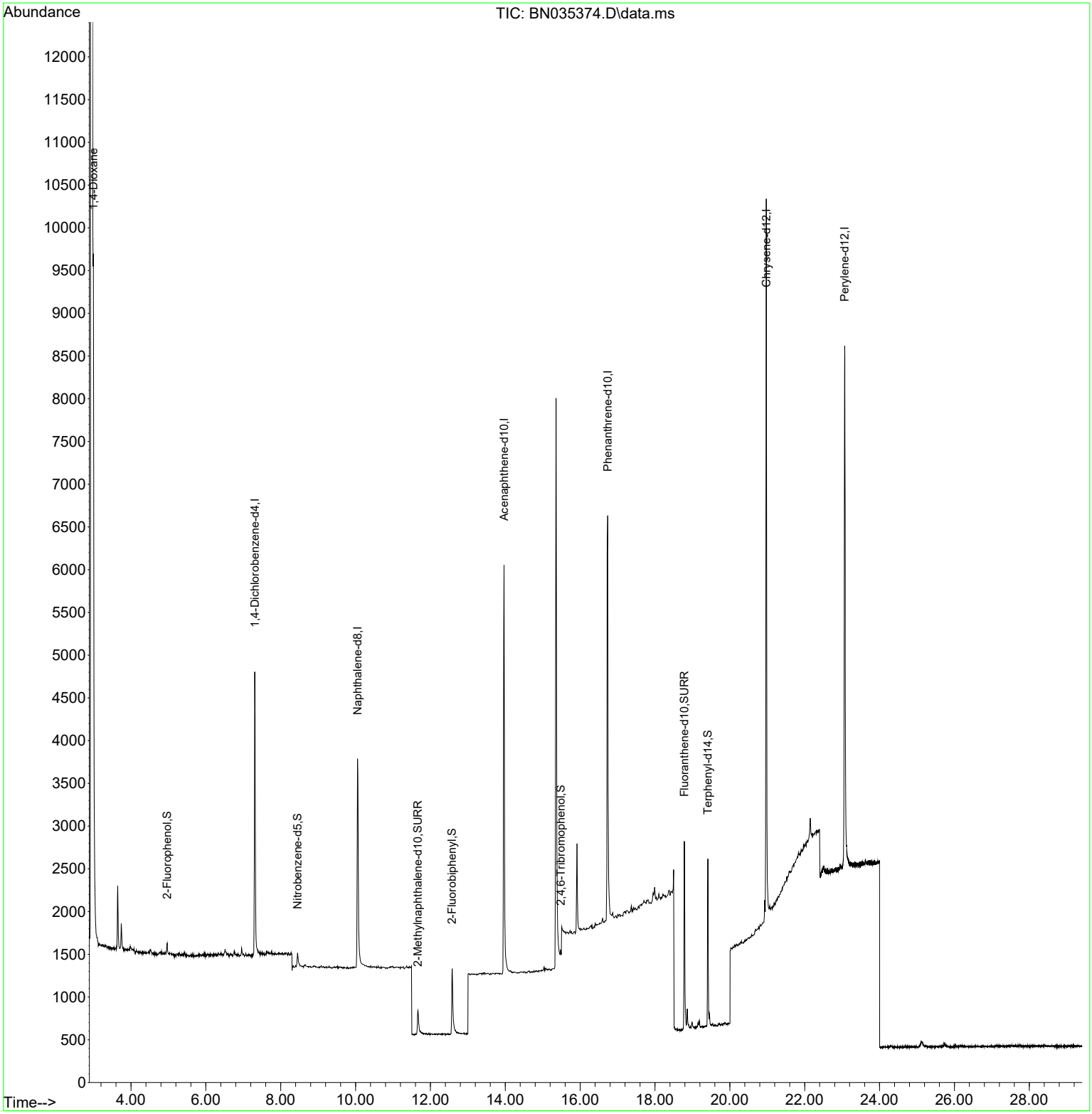
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1752	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4244	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3218	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	8380	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	7890	0.400	ng	0.00
35) Perylene-d12	23.067	264	7953	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	133	0.030	ng	0.00
5) Phenol-d6	6.513	99	78	0.015	ng	0.00
8) Nitrobenzene-d5	8.450	82	220m	0.085	ng	0.01
11) 2-Methylnaphthalene-d10	11.666	152	652	0.098	ng	0.01
14) 2,4,6-Tribromophenol	15.485	330	129	0.056	ng	0.01
15) 2-Fluorobiphenyl	12.579	172	1075	0.088	ng	0.00
27) Fluoranthene-d10	18.785	212	2744	0.116	ng	0.00
31) Terphenyl-d14	19.412	244	2060	0.132	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	3433	2.050	ng	96

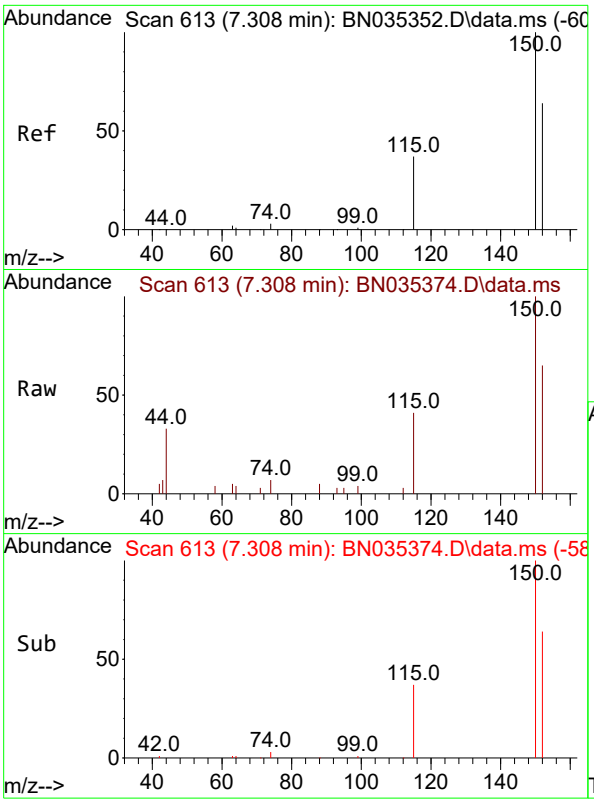
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035374.D
Acq On : 28 Nov 2024 08:26
Operator : RC/JU
Sample : P4959-01 5X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Quant Time: Nov 29 00:19:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



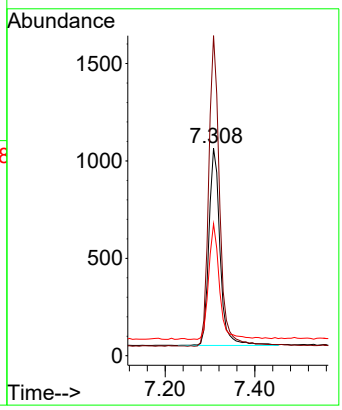


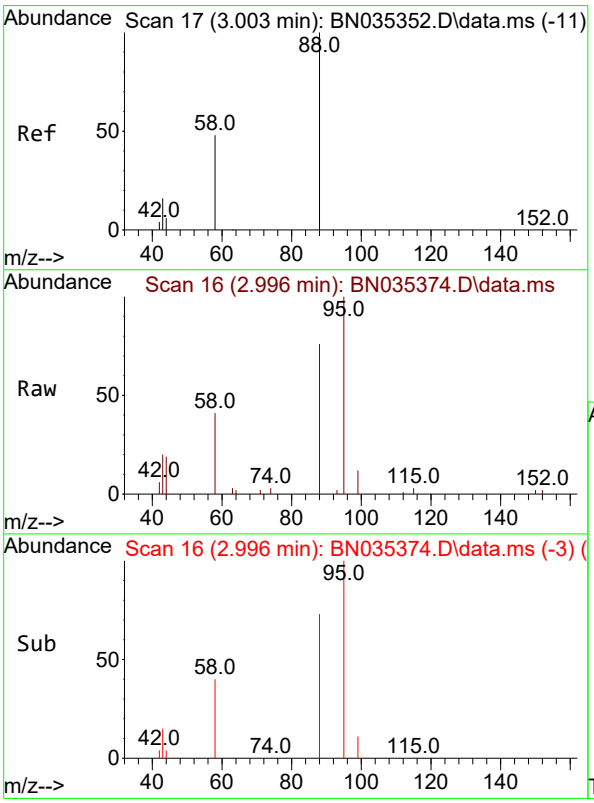
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:152 Resp: 1752

Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.0	186.0
115	63.6	49.6	74.4

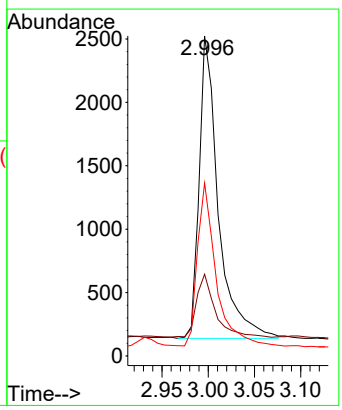


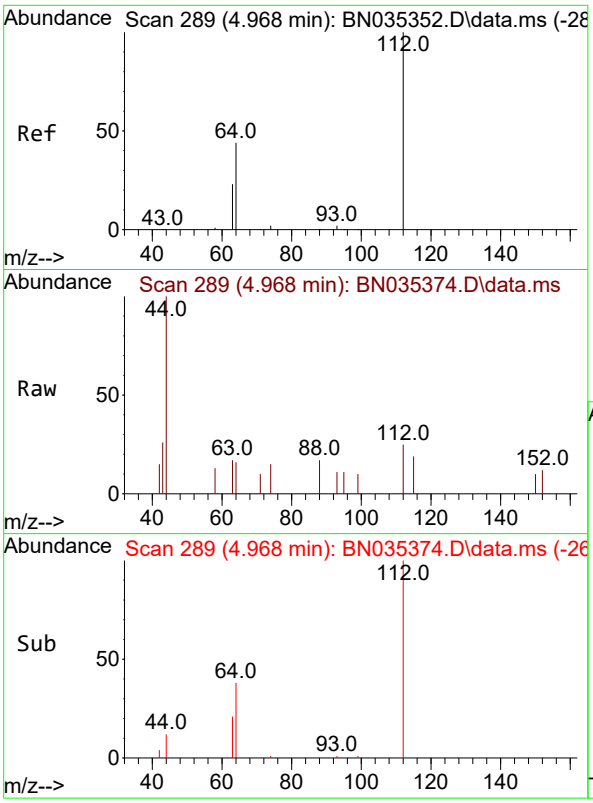


#2
1,4-Dioxane
Concen: 2.050 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion: 88 Resp: 3433

Ion	Ratio	Lower	Upper
88	100		
43	20.4	17.2	25.8
58	52.1	44.5	66.7



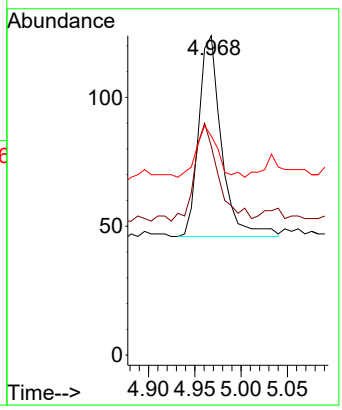


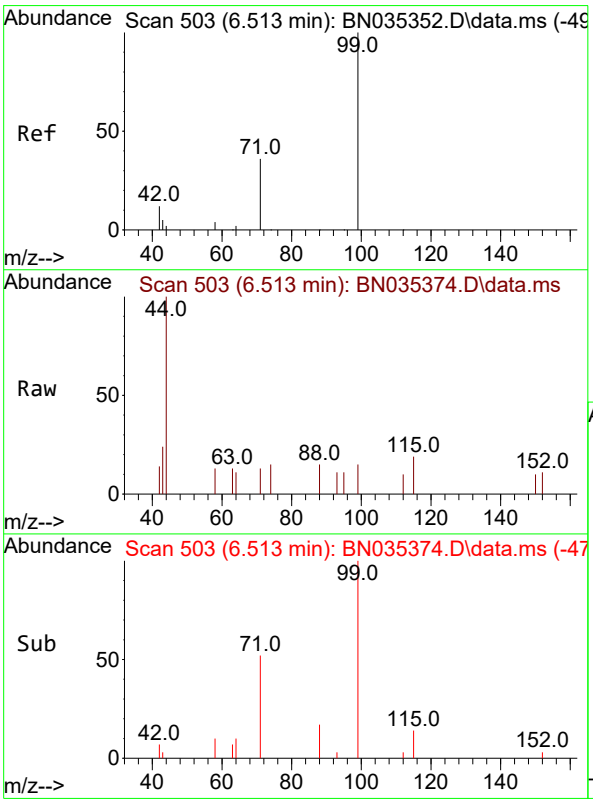
#4
2-Fluorophenol
Concen: 0.030 ng
RT: 4.968 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:112 Resp: 133

Ion	Ratio	Lower	Upper
112	100		
64	50.4	39.8	59.8
63	27.8	21.0	31.6

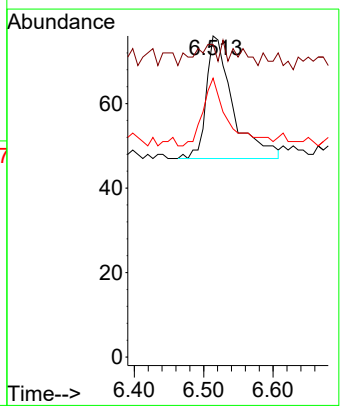


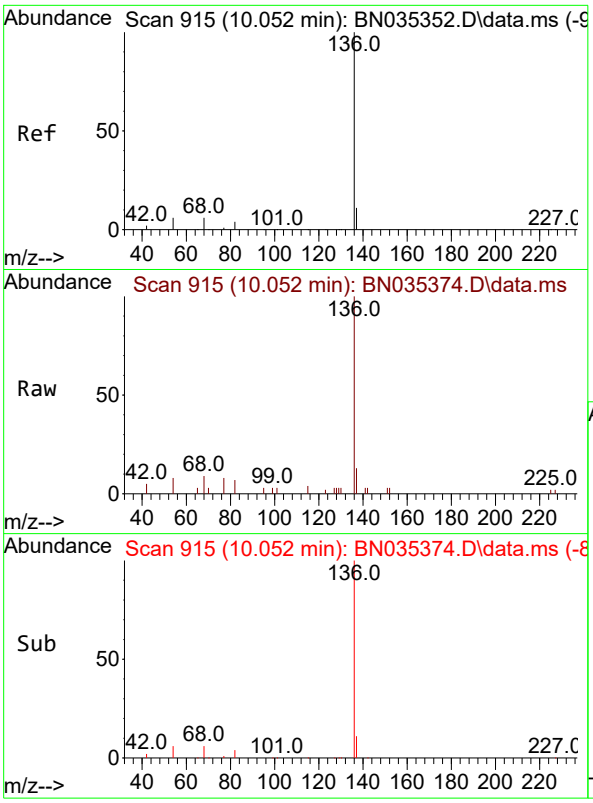


#5
Phenol-d6
Concen: 0.015 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion: 99 Resp: 78

Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	56.4	29.3	43.9#



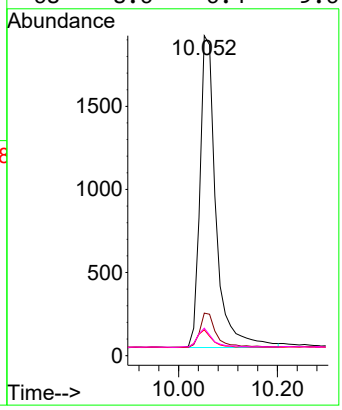


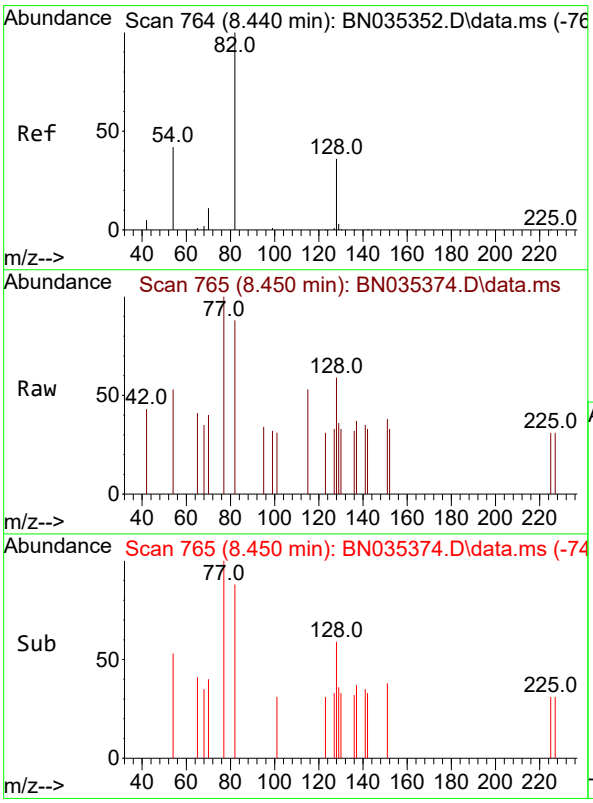
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:136 Resp: 4244

Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.2	15.2
54	8.1	6.1	9.1
68	8.6	6.4	9.6

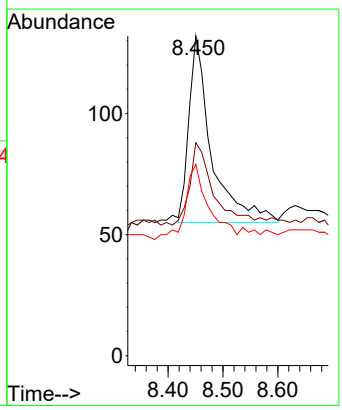


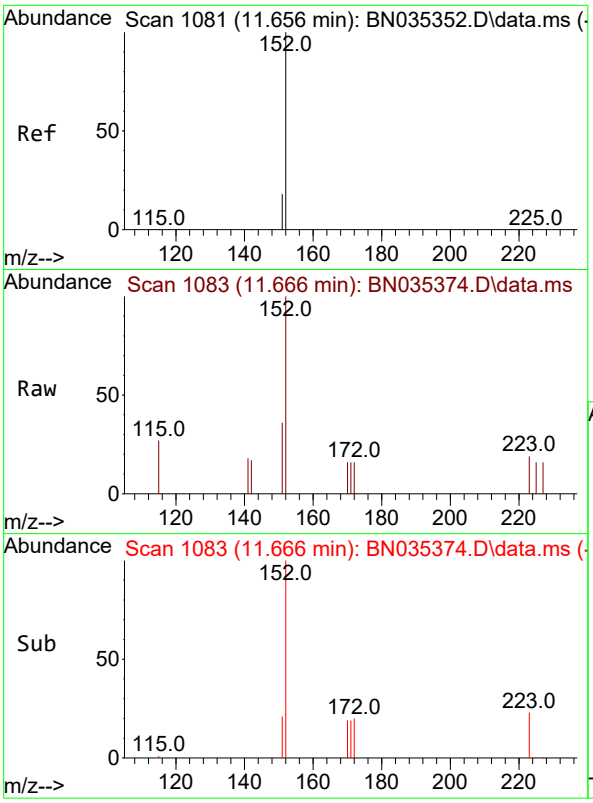


#8
Nitrobenzene-d5
Concen: 0.085 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion: 82 Resp: 220

Ion	Ratio	Lower	Upper
82	100		
128	66.7	33.4	50.0#
54	59.8	36.7	55.1#



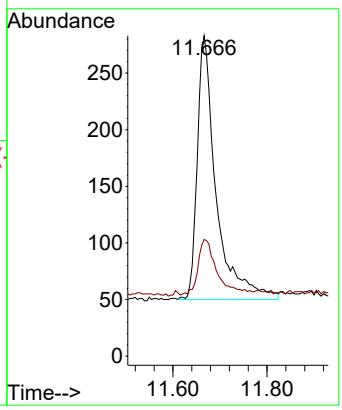


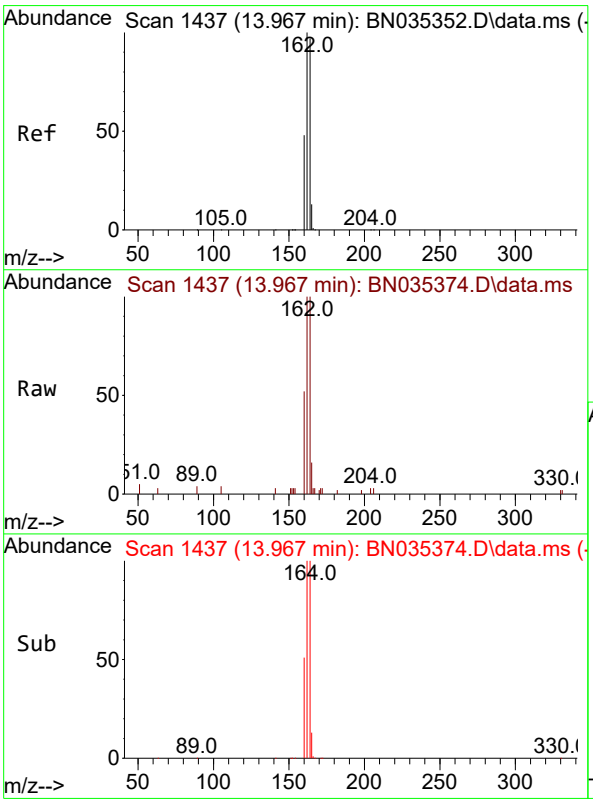
#11
2-Methylnaphthalene-d10
Concen: 0.098 ng
RT: 11.666 min Scan# 1
Delta R.T. 0.010 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:152 Resp: 652

Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.6	25.0

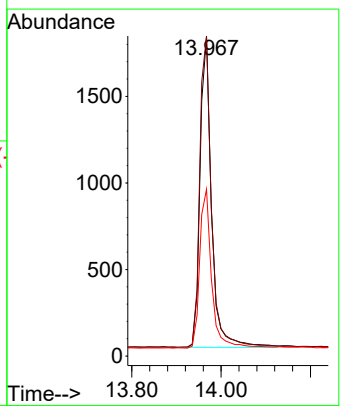


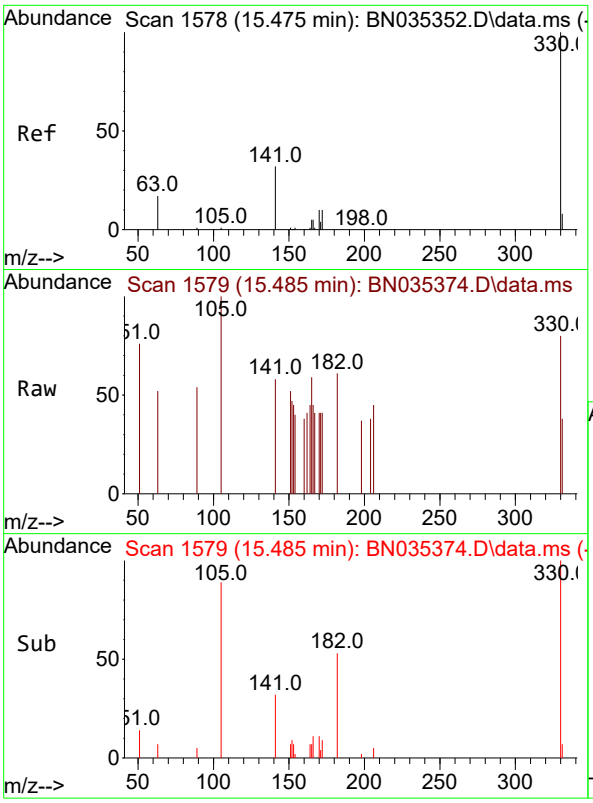


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion:164 Resp: 3218

Ion	Ratio	Lower	Upper
164	100		
162	100.1	82.2	123.2
160	52.2	40.1	60.1



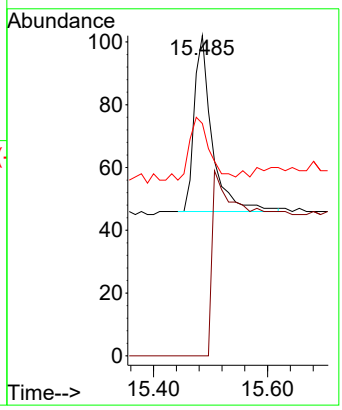


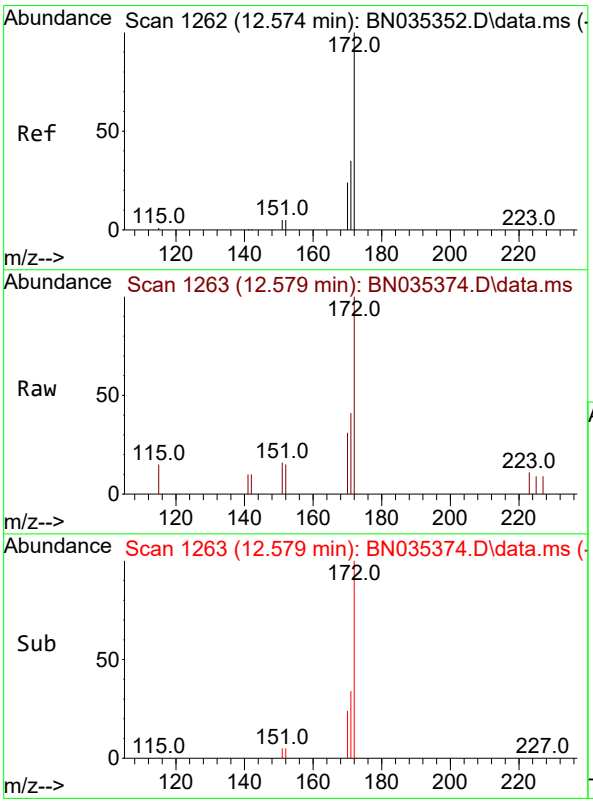
#14
2,4,6-Tribromophenol
Concen: 0.056 ng
RT: 15.485 min Scan# 1
Delta R.T. 0.011 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:330 Resp: 129

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	39.5	26.6	40.0

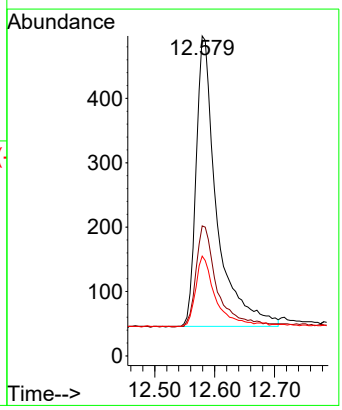


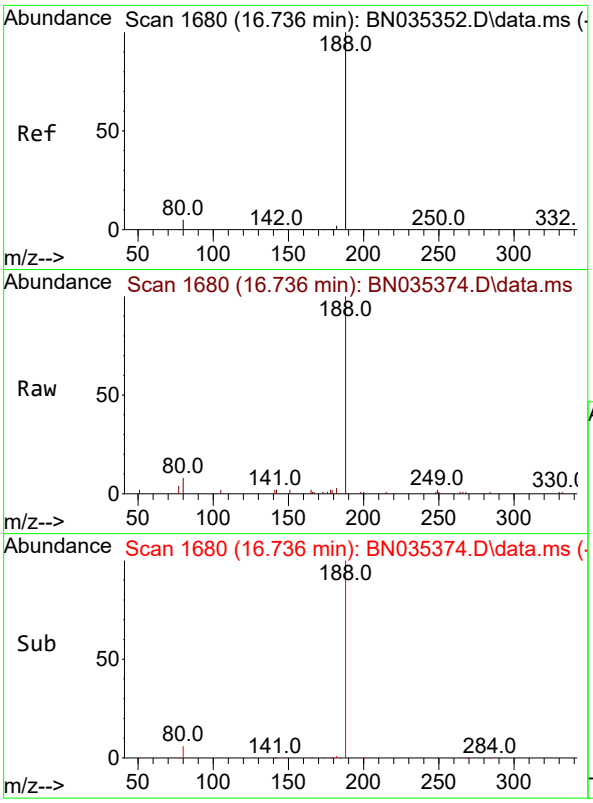


#15
2-Fluorobiphenyl
Concen: 0.088 ng
RT: 12.579 min Scan# 1263
Delta R.T. 0.005 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion:172 Resp: 1075

Ion	Ratio	Lower	Upper
172	100		
171	40.6	29.0	43.4
170	31.2	19.8	29.8#



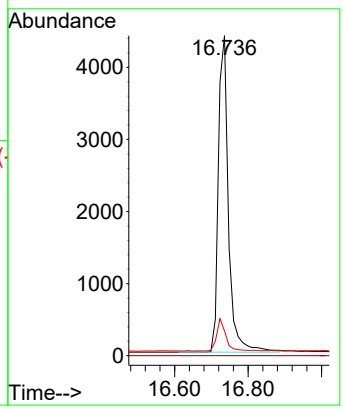


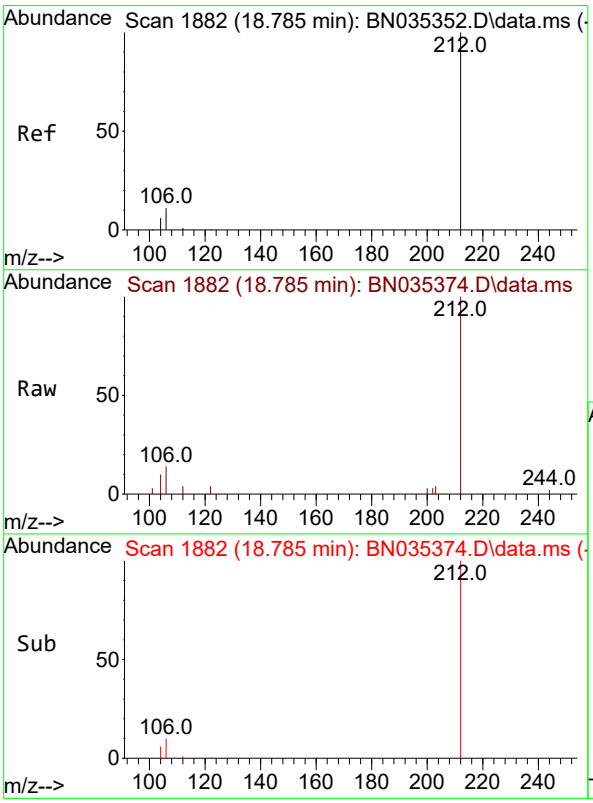
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:188 Resp: 8380

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#

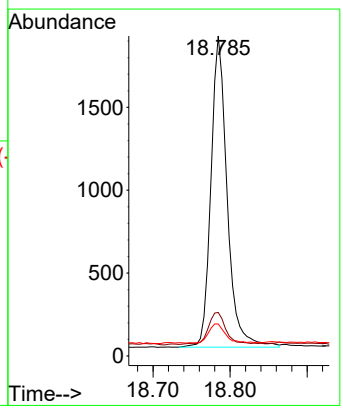


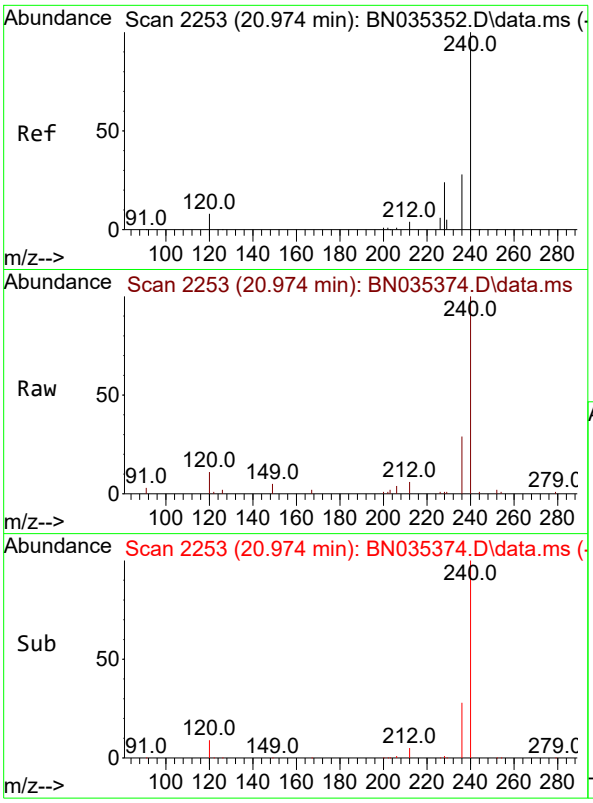


#27
Fluoranthene-d10
Concen: 0.116 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion:212 Resp: 2744

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.7	5.3	7.9



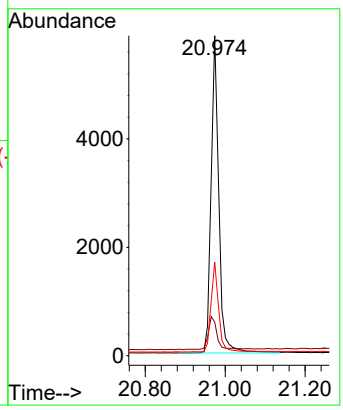


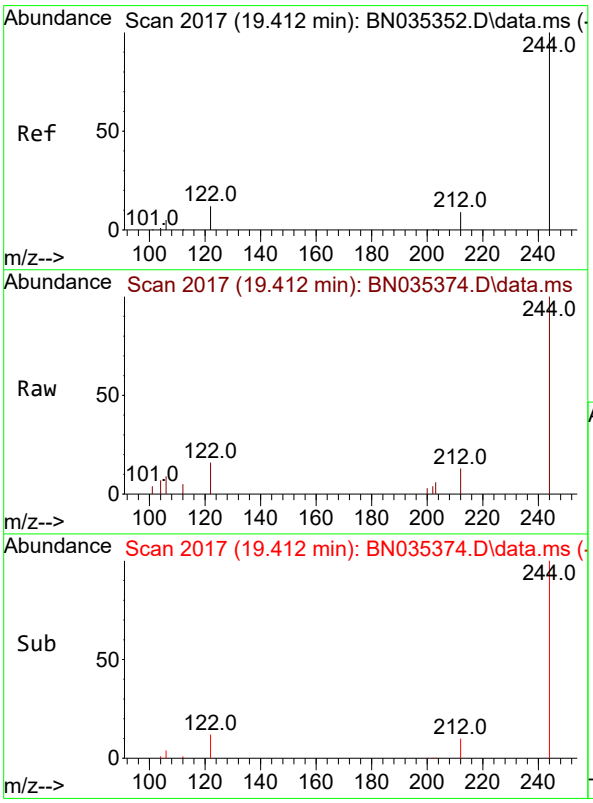
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:240 Resp: 7890

Ion	Ratio	Lower	Upper
240	100		
120	10.5	7.9	11.9
236	29.2	22.9	34.3

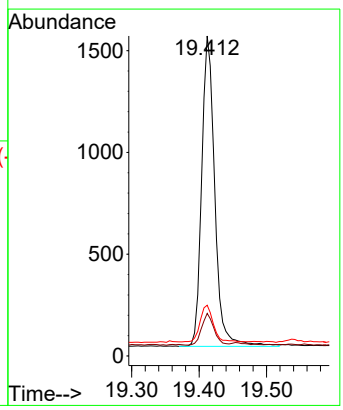


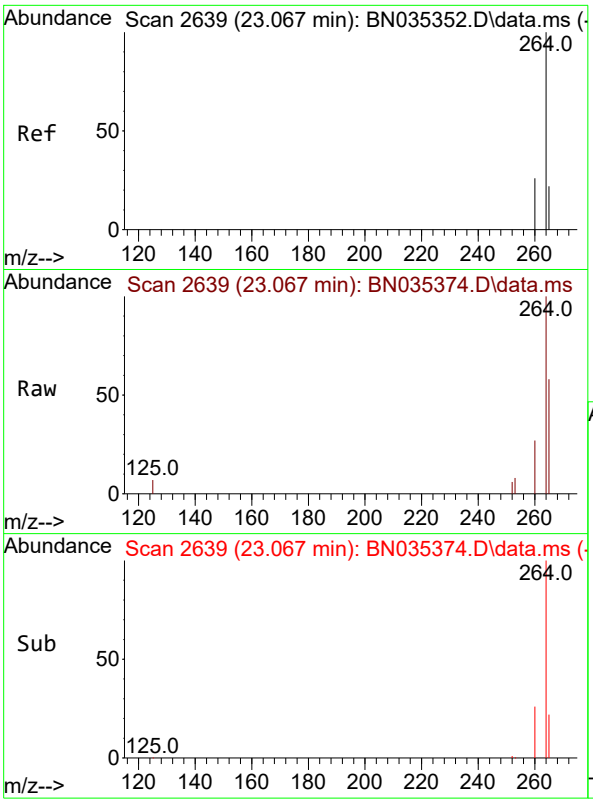


#31
Terphenyl-d14
Concen: 0.132 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion:244 Resp: 2060

Ion	Ratio	Lower	Upper
244	100		
212	13.3	8.1	12.1#
122	15.8	10.3	15.5#



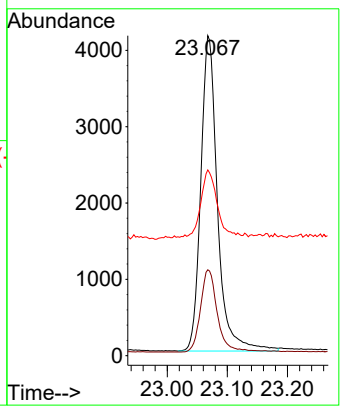


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:264 Resp: 7953

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	58.1	40.2	60.4



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/21/24
Project:	CTO WE13	Date Received:	11/22/24
Client Sample ID:	RW5-SP201-20241121	SDG No.:	P4959
Lab Sample ID:	P4959-02	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
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
BN035298.D	1	11/22/24 12:25	11/26/24 02:02	PB165198

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.55		30 - 150		136%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.53		30 - 150		132%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		61%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.086	*	53 - 106		22%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.92	*	58 - 132		229%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3350	7.315				
1146-65-2	Naphthalene-d8	8970	10.062				
15067-26-2	Acenaphthene-d10	7830	13.965				
1517-22-2	Phenanthrene-d10	13000	16.734				
1719-03-5	Chrysene-d12	823	21.008				
1520-96-3	Perylene-d12	7690	23.075				

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\BN112524\
Data File : BN035298.D
Acq On : 26 Nov 2024 02:02
Operator : RC/JU
Sample : P4959-02
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 03:32:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3353	0.400	ng	0.00
7) Naphthalene-d8	10.062	136	8974	0.400	ng	0.00
13) Acenaphthene-d10	13.965	164	7827	0.400	ng	#-0.01
19) Phenanthrene-d10	16.734	188	12956	0.400	ng	0.00
29) Chrysene-d12	21.008	240	823	0.400	ng	# 0.00
35) Perylene-d12	23.075	264	7685	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1124	0.177	ng	0.00
5) Phenol-d6	6.520	99	772	0.087	ng	0.00
8) Nitrobenzene-d5	8.450	82	1783m	0.245	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	6842	0.545	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	1237	0.310	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	373	0.086	ng	0.00
27) Fluoranthene-d10	18.787	212	18292	0.528	ng	0.00
31) Terphenyl-d14	19.419	244	13926	0.916	ng	0.00
Target Compounds						Qvalue

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

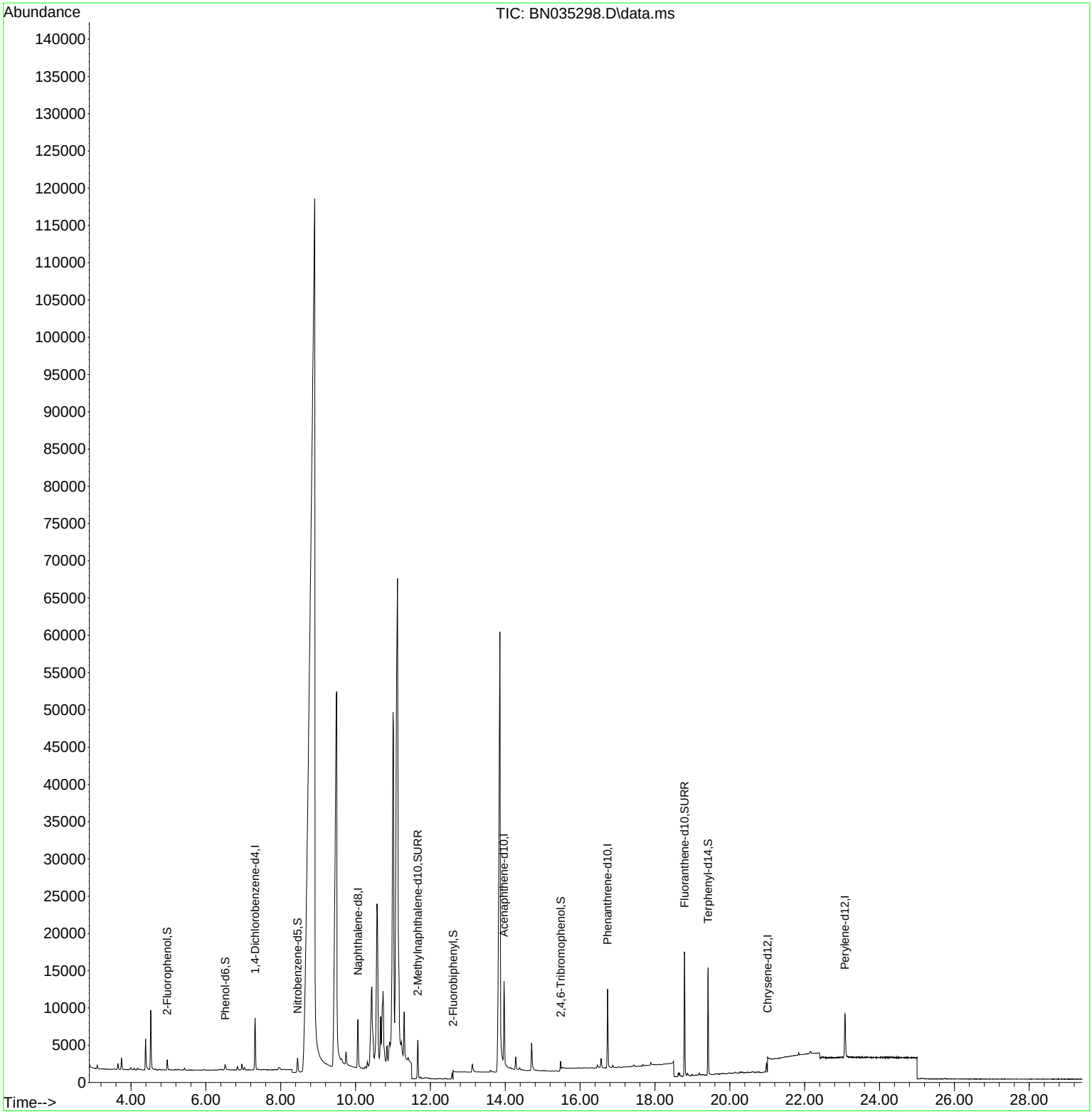
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035298.D
Acq On : 26 Nov 2024 02:02
Operator : RC/JU
Sample : P4959-02
Misc :
ALS Vial : 74 Sample Multiplier: 1

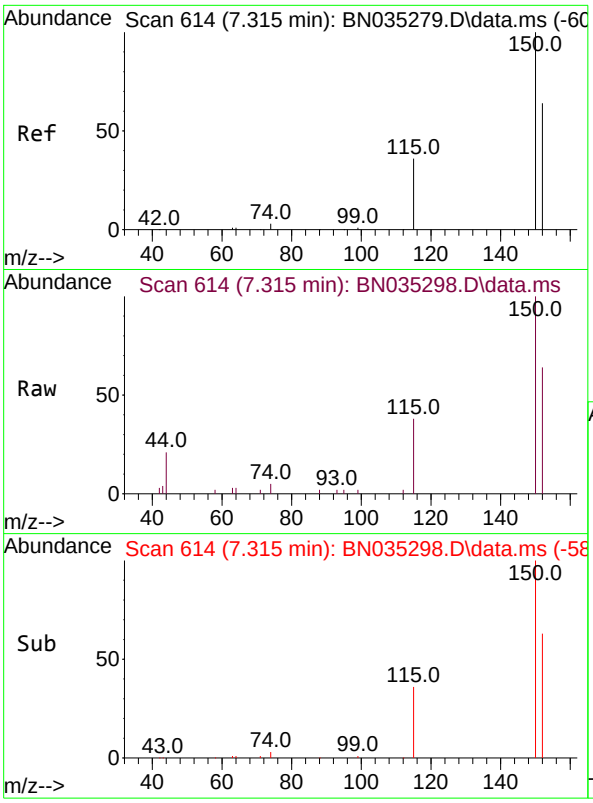
Quant Time: Nov 26 03:32:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

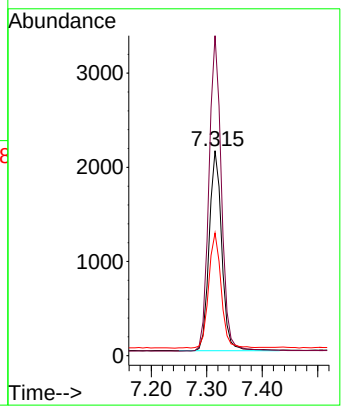




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

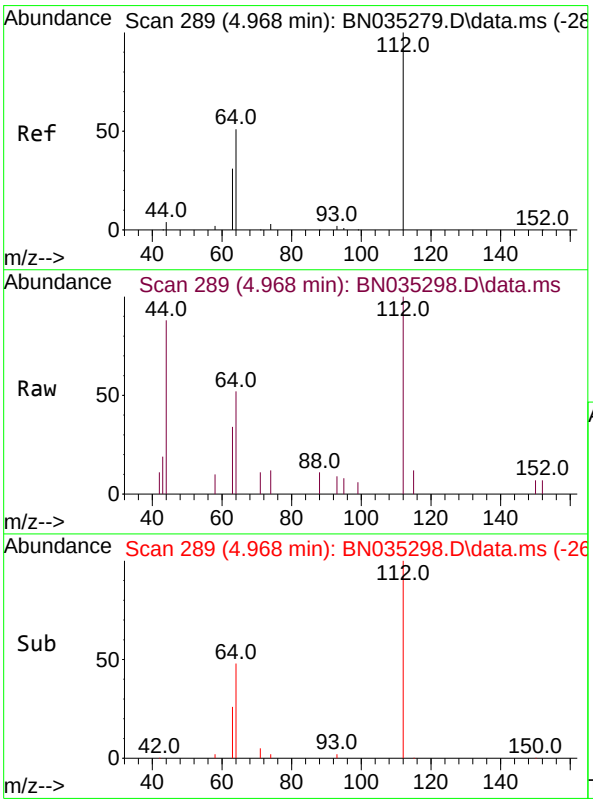
Tgt Ion:152 Resp: 335

Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.5	186.7
115	59.9	47.8	71.8



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

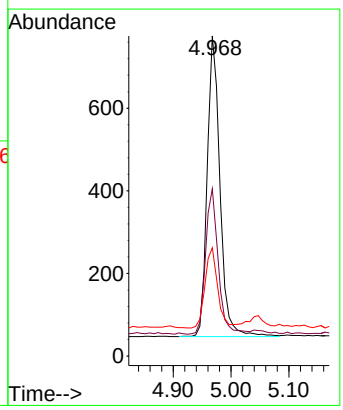
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

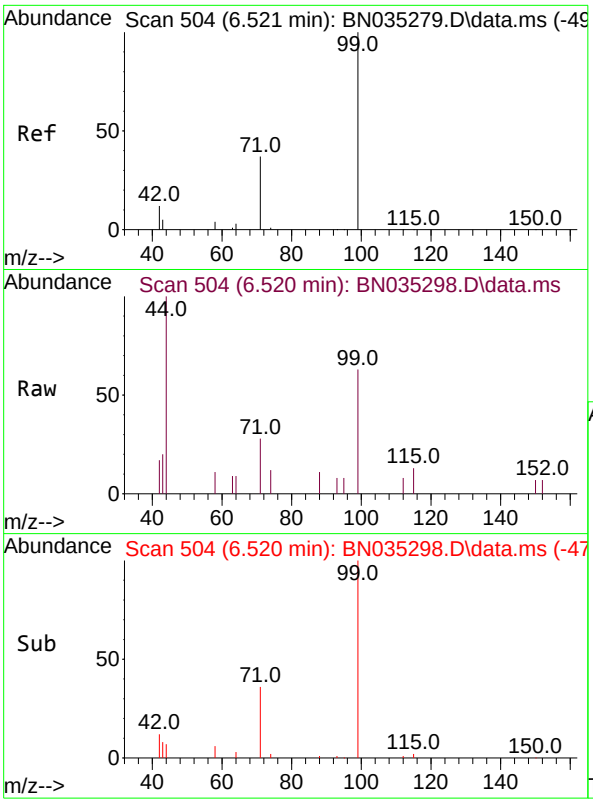


#4
2-Fluorophenol
Concen: 0.177 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:112 Resp: 1124

Ion	Ratio	Lower	Upper
112	100		
64	48.0	40.4	60.6
63	26.2	23.8	35.8

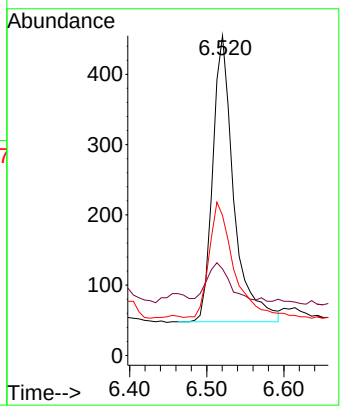




#5
Phenol-d6
Concen: 0.087 ng
RT: 6.520 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion: 99 Resp: 77

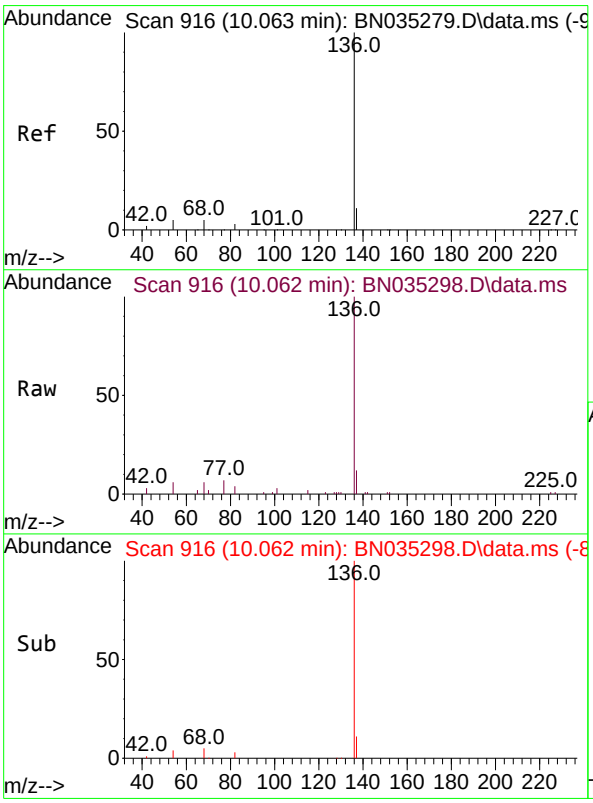
Ion	Ratio	Lower	Upper
99	100		
42	14.5	12.8	19.2
71	48.4	31.4	47.2



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Manual Integrations
APPROVED

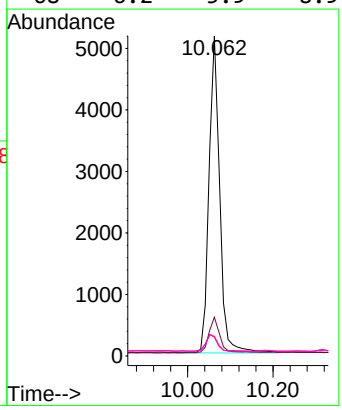
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

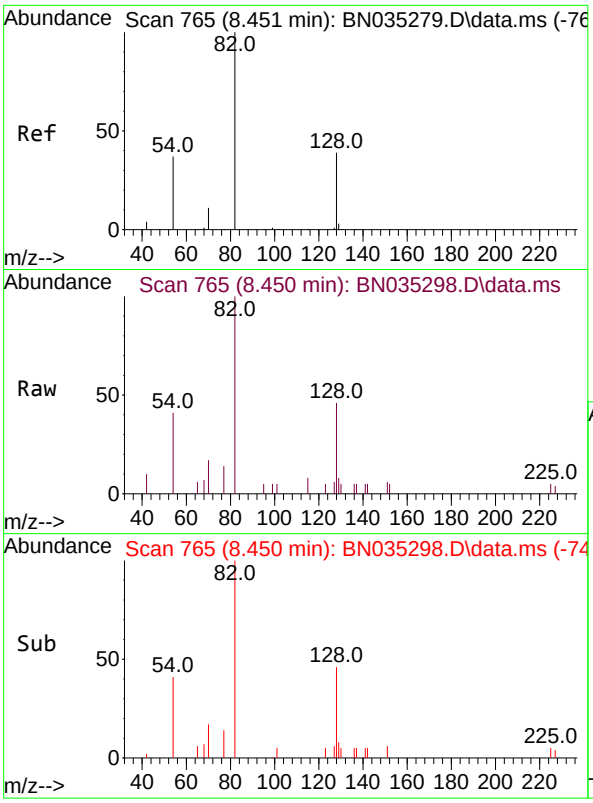


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.062 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:136 Resp: 8974

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	5.9	5.3	7.9
68	6.2	5.9	8.9

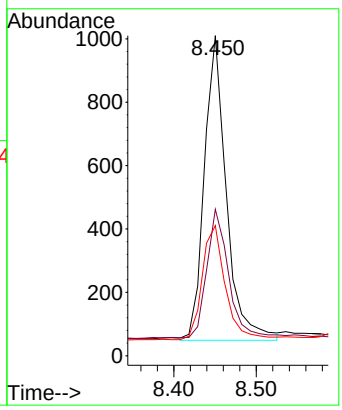




#8
Nitrobenzene-d5
Concen: 0.245 ng m
RT: 8.450 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion: 82 Resp: 178

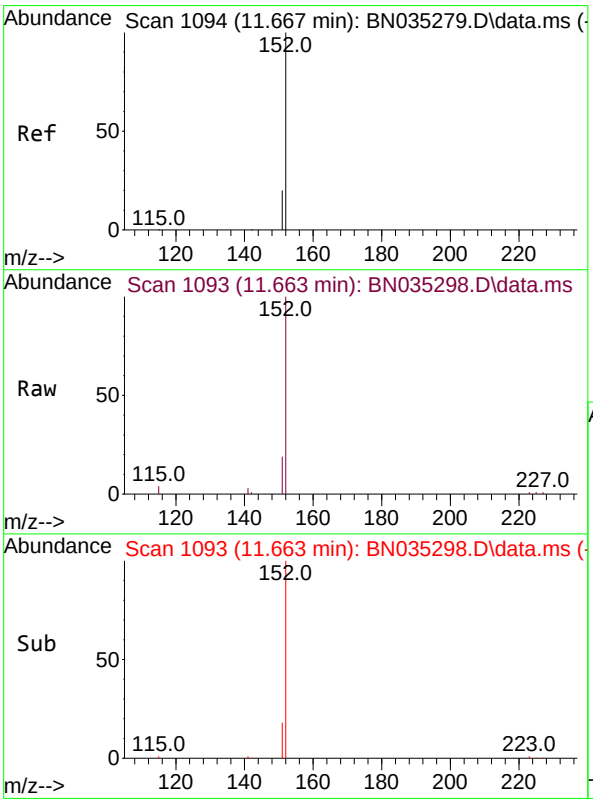
Ion	Ratio	Lower	Upper
82	100		
128	45.7	33.0	49.4
54	40.7	33.3	49.9



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Manual Integrations
APPROVED

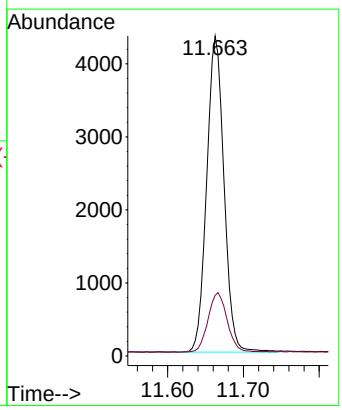
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

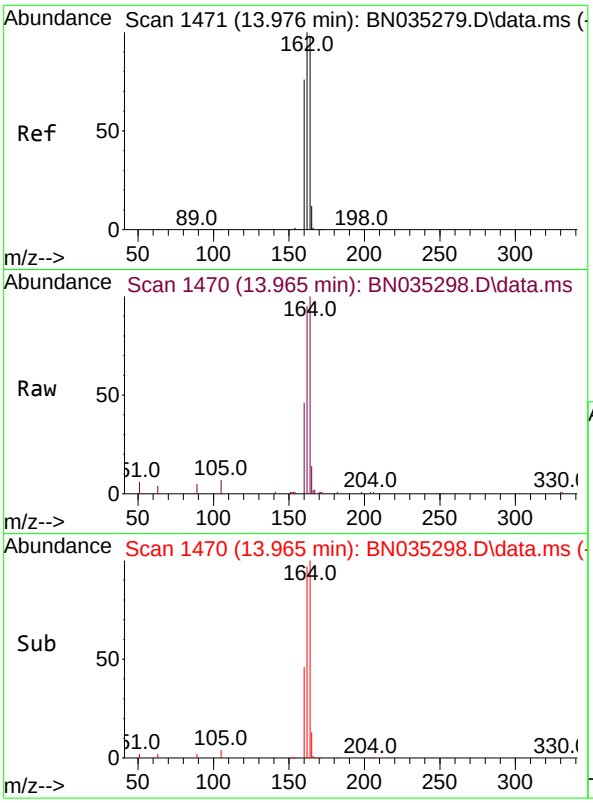


#11
2-Methylnaphthalene-d10
Concen: 0.545 ng
RT: 11.663 min Scan# 1093
Delta R.T. -0.004 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:152 Resp: 6842

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.2	25.8

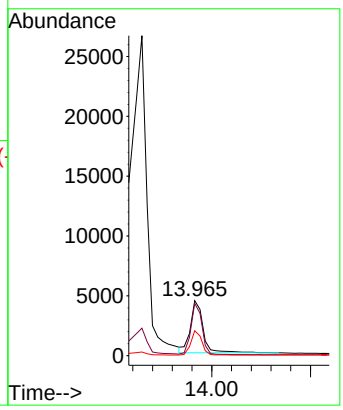




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.965 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:164 Resp: 782

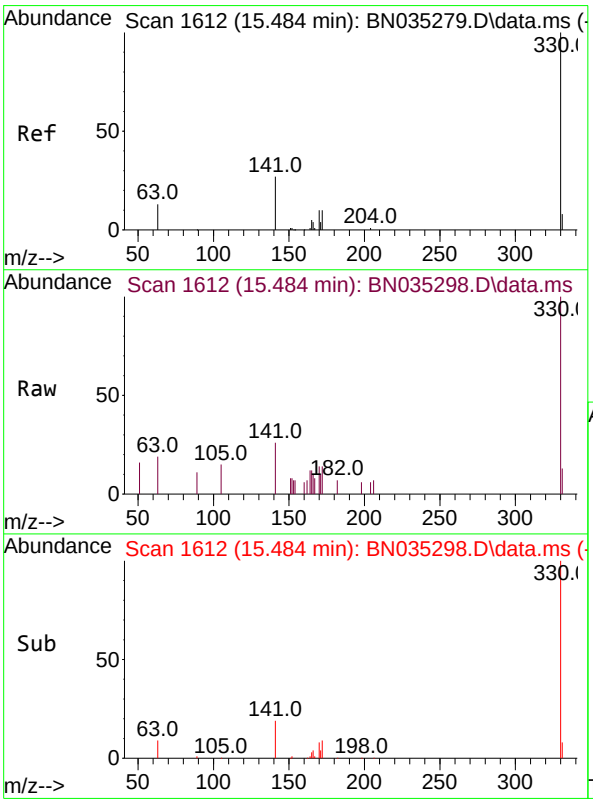
Ion	Ratio	Lower	Upper
164	100		
162	95.1	82.0	123.0
160	45.6	63.0	94.4



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Manual Integrations
APPROVED

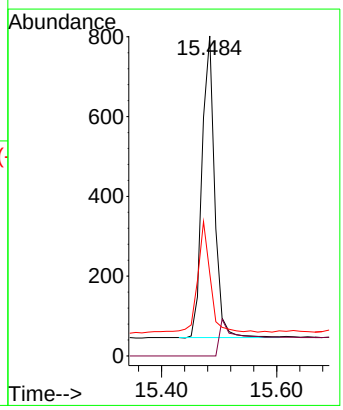
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

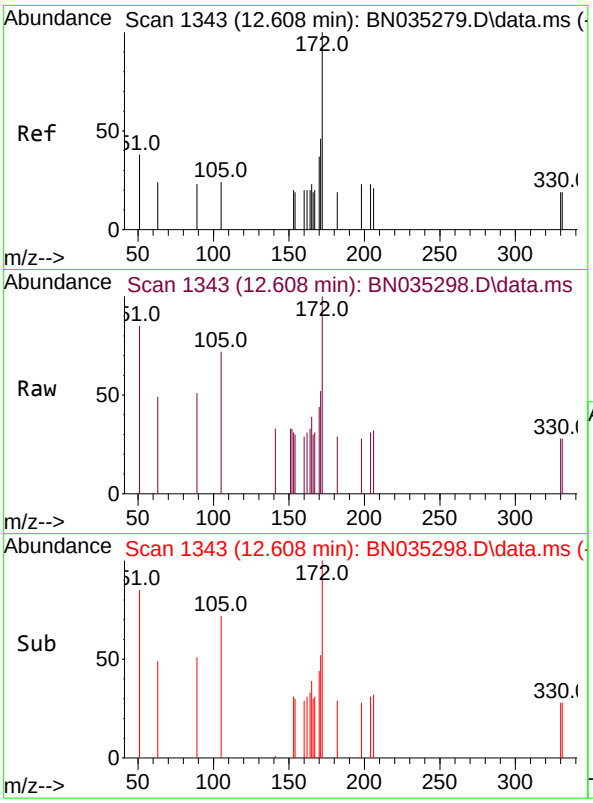


#14
2,4,6-Tribromophenol
Concen: 0.310 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:330 Resp: 1237

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.5	32.4	48.6

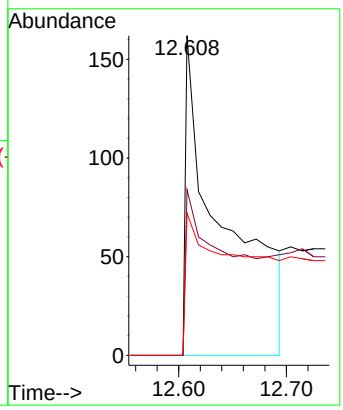




#15
2-Fluorobiphenyl
Concen: 0.086 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:172 Resp: 37

Ion	Ratio	Lower	Upper
172	100		
171	51.9	36.6	55.0
170	44.4	29.7	44.5



Instrument :
BNA_N
ClientSampleId :
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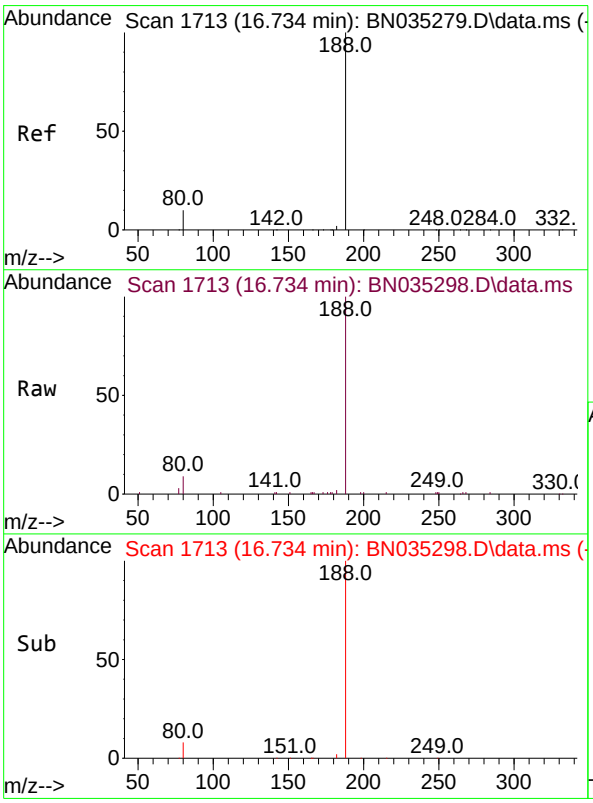
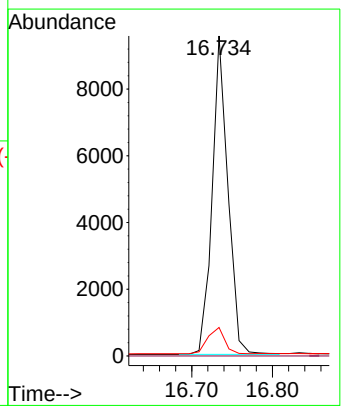
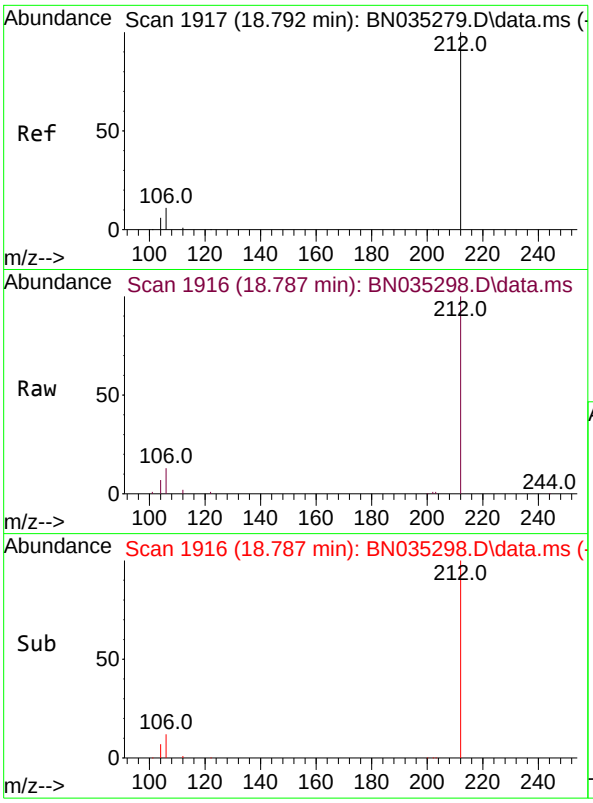


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:188 Resp: 12956

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	8.9	13.3





#27
Fluoranthene-d10
Concen: 0.528 ng
RT: 18.787 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

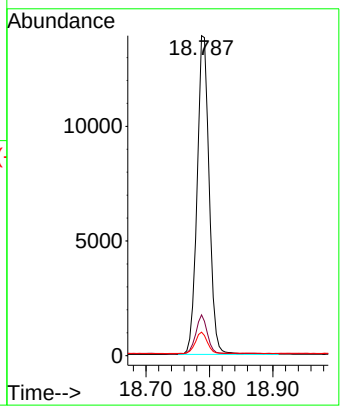
Tgt Ion:212 Resp: 1829

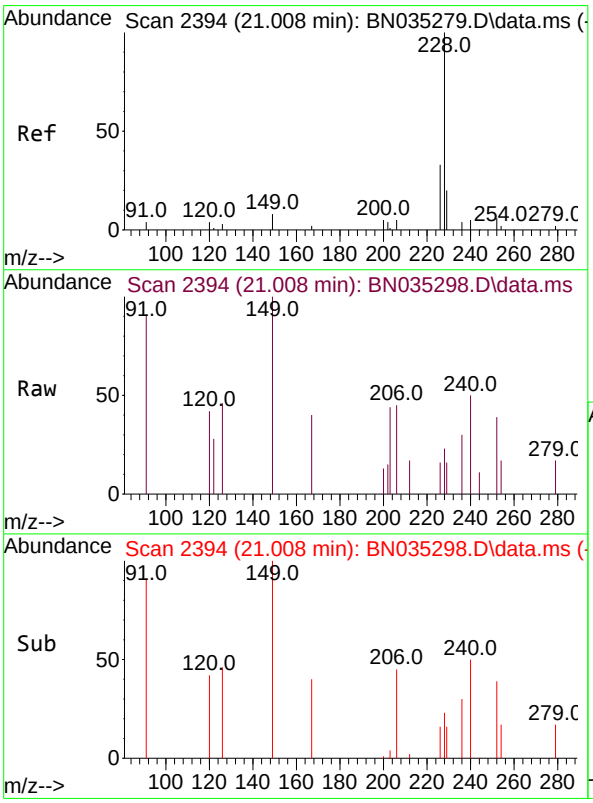
Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.8	14.8
104	6.6	5.6	8.4

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

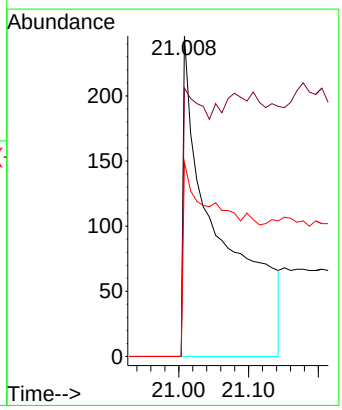


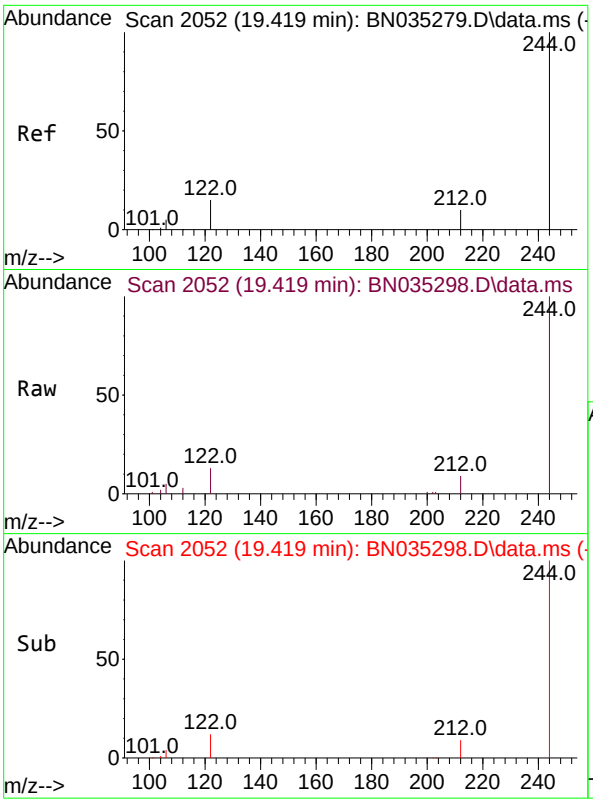


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:240 Resp: 823

Ion	Ratio	Lower	Upper
240	100		
120	83.7	54.9	82.3#
236	60.6	54.0	81.0

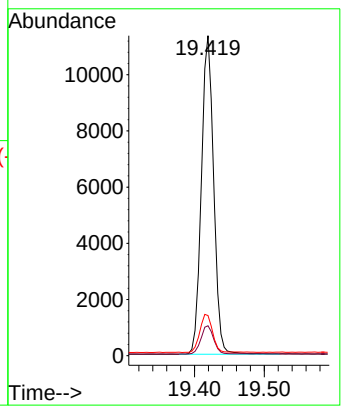




#31
Terphenyl-d14
Concen: 0.916 ng
RT: 19.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:244 Resp: 1392

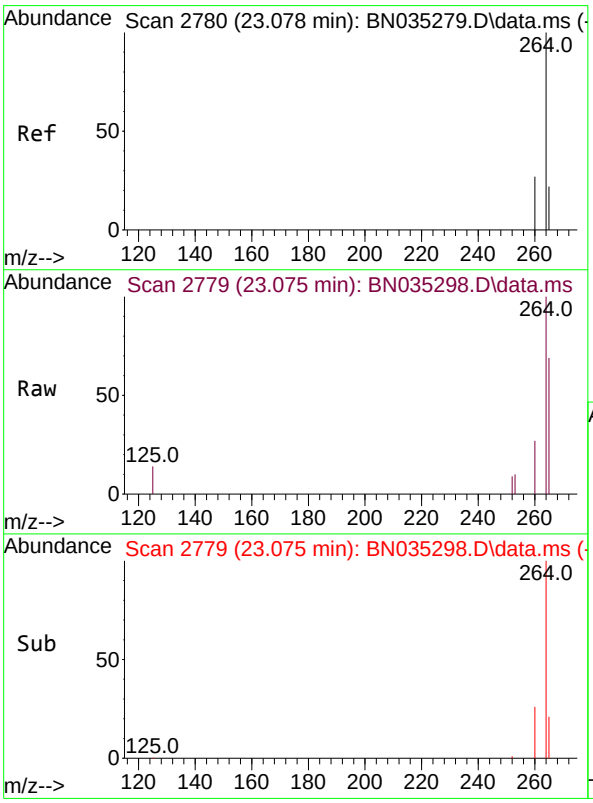
Ion	Ratio	Lower	Upper
244	100		
212	9.4	9.4	14.0#
122	12.6	13.0	19.4#



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Manual Integrations APPROVED

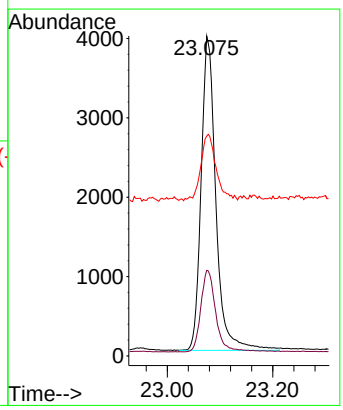
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.075 min Scan# 2779
Delta R.T. -0.003 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:264 Resp: 7685

Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.3	33.5
265	68.7	68.6	103.0



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/21/24
Project:	CTO WE13	Date Received:	11/22/24
Client Sample ID:	RW5-SP303-20241121	SDG No.:	P4959
Lab Sample ID:	P4959-03	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
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
BN035299.D	1	11/22/24 12:25	11/26/24 02:38	PB165198

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.45		30 - 150		113%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.23		55 - 111		57%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.24		53 - 106		60%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.73	*	58 - 132		182%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4030	7.315				
1146-65-2	Naphthalene-d8	10600	10.063				
15067-26-2	Acenaphthene-d10	6680	13.966				
1517-22-2	Phenanthrene-d10	14000	16.734				
1719-03-5	Chrysene-d12	880	21.008				
1520-96-3	Perylene-d12	7740	23.078				

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\BN112524\
Data File : BN035299.D
Acq On : 26 Nov 2024 02:38
Operator : RC/JU
Sample : P4959-03
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 03:33:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	4025	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	10571	0.400	ng	# 0.00
13) Acenaphthene-d10	13.966	164	6682	0.400	ng	#-0.01
19) Phenanthrene-d10	16.734	188	14026	0.400	ng	0.00
29) Chrysene-d12	21.008	240	880	0.400	ng	# 0.00
35) Perylene-d12	23.078	264	7740	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1297	0.171	ng	0.00
5) Phenol-d6	6.520	99	900	0.085	ng	0.00
8) Nitrobenzene-d5	8.450	82	1970m	0.230	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	6676	0.451	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	972	0.285	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	890	0.241	ng	0.00
27) Fluoranthene-d10	18.788	212	15405	0.410	ng	0.00
31) Terphenyl-d14	19.419	244	11853	0.729	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035299.D
Acq On : 26 Nov 2024 02:38
Operator : RC/JU
Sample : P4959-03
Misc :
ALS Vial : 75 Sample Multiplier: 1

Quant Time: Nov 26 03:33:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

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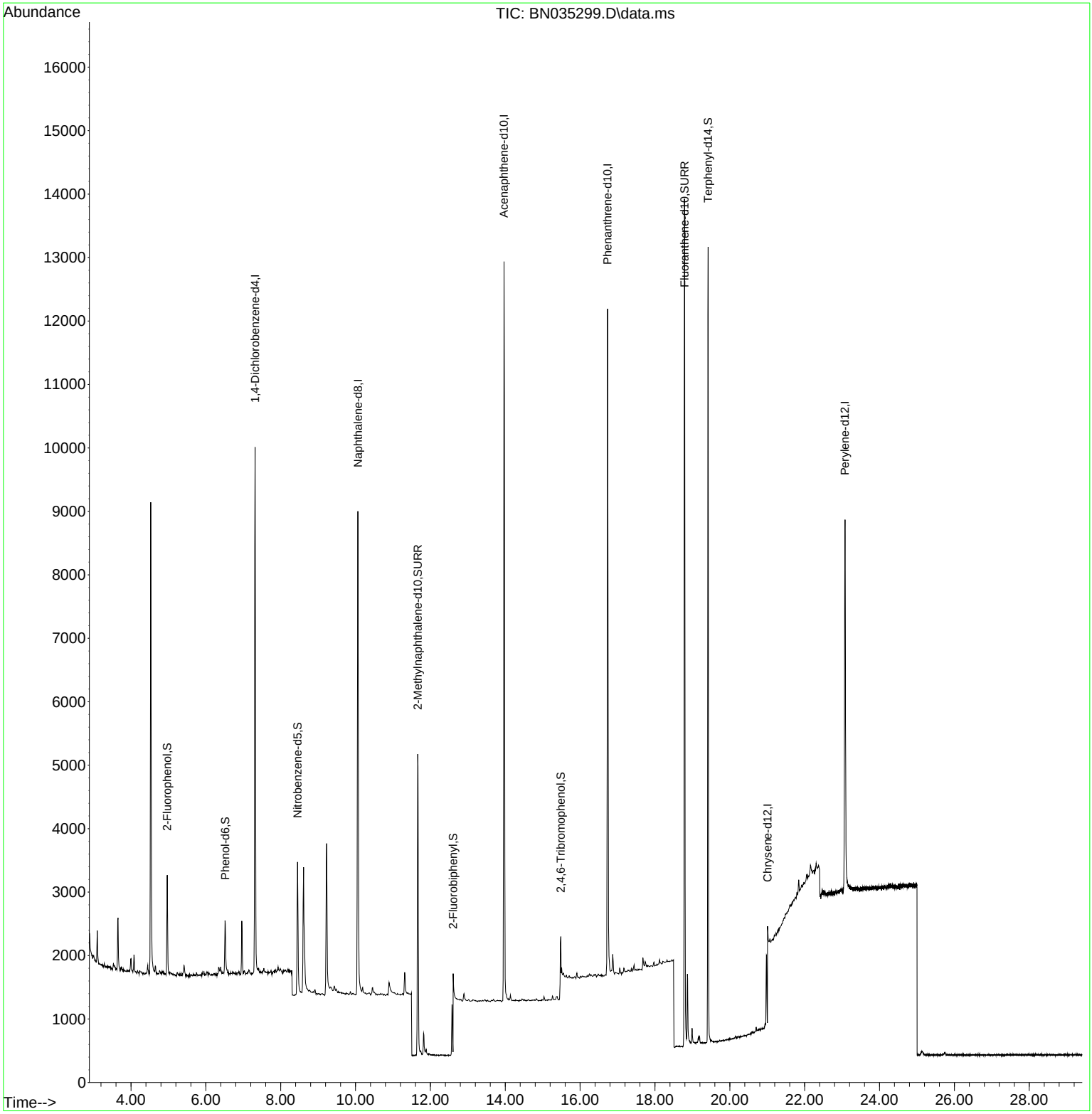
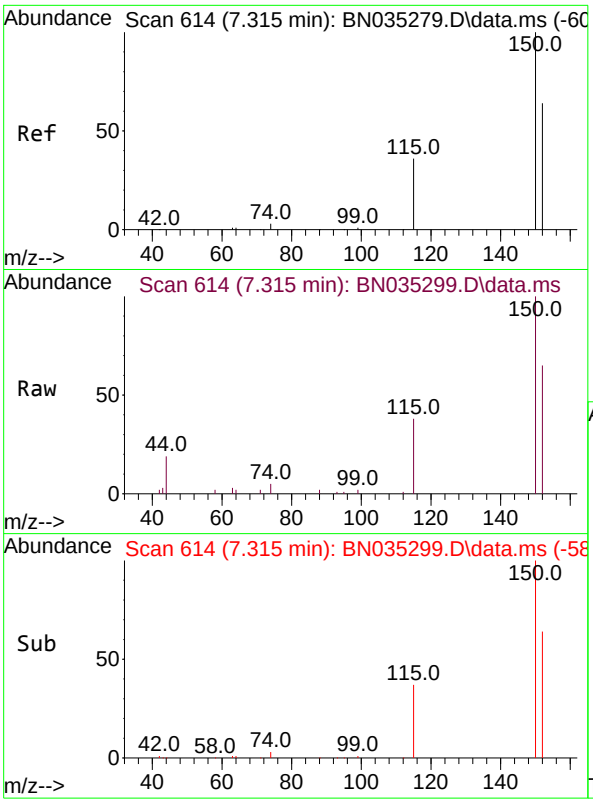
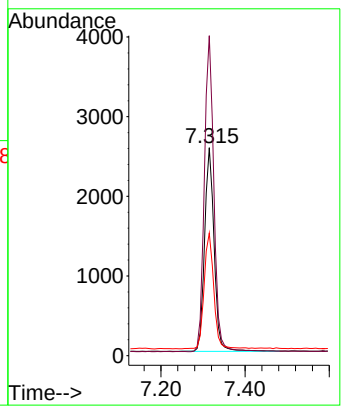




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:152 Resp: 402

Ion	Ratio	Lower	Upper
152	100		
150	153.8	124.5	186.7
115	58.9	47.8	71.8



Instrument :
BNA_N
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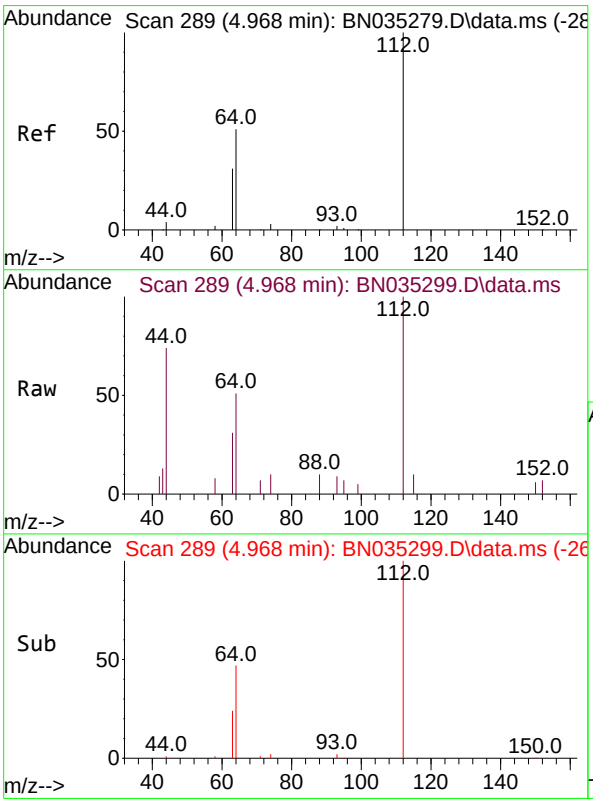
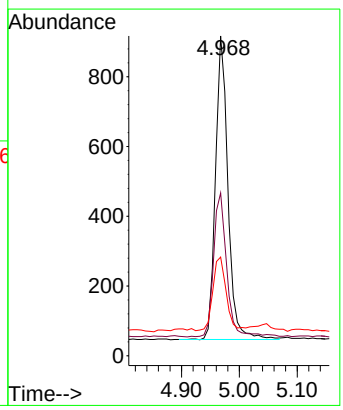
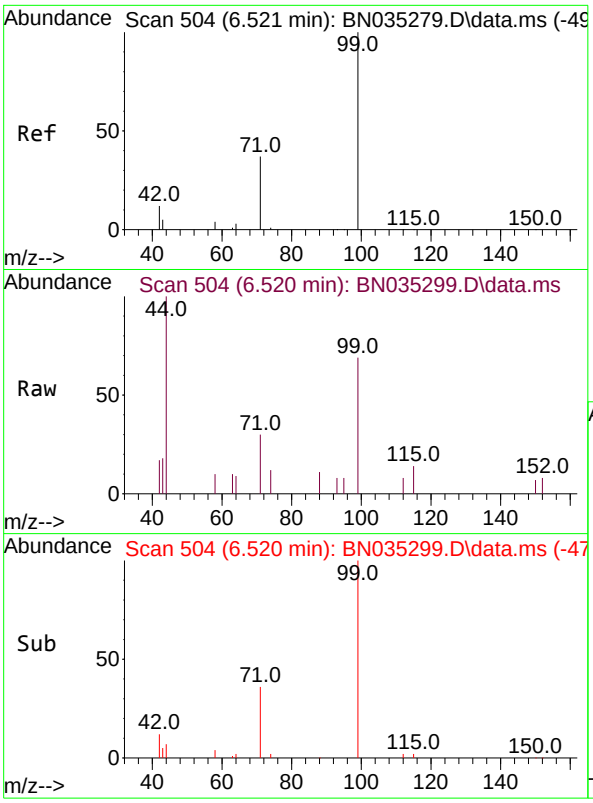


#4
2-Fluorophenol
Concen: 0.171 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:112 Resp: 1297

Ion	Ratio	Lower	Upper
112	100		
64	50.6	40.4	60.6
63	26.8	23.8	35.8

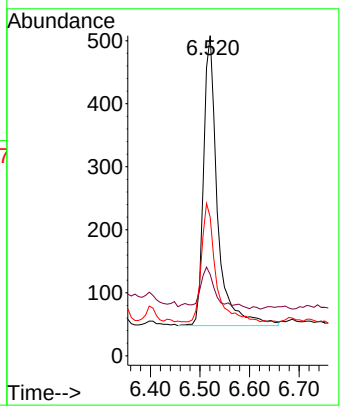




#5
Phenol-d6
Concen: 0.085 ng
RT: 6.520 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion: 99 Resp: 90(

Ion	Ratio	Lower	Upper
99	100		
42	14.9	12.8	19.2
71	41.7	31.4	47.2



Instrument :
BNA_N
ClientSampleId :
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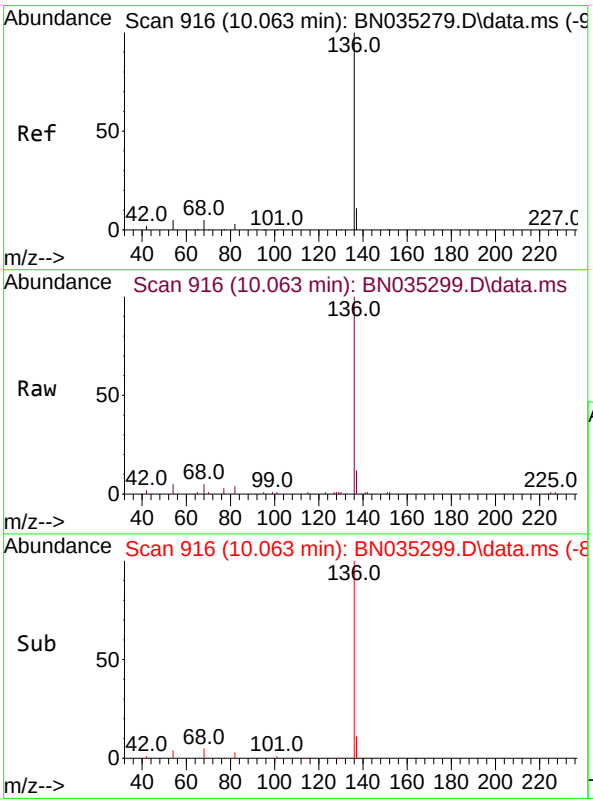
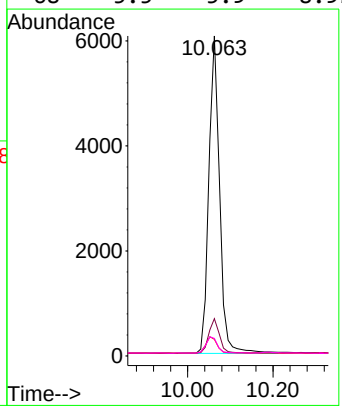
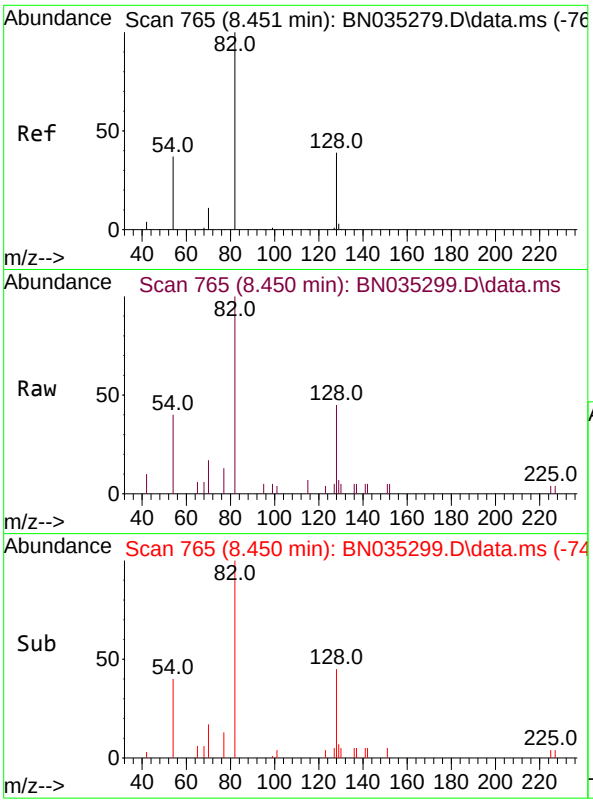


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:136 Resp: 10571

Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.7	14.5
54	5.2	5.3	7.9#
68	5.5	5.9	8.9#





#8
Nitrobenzene-d5
Concen: 0.230 ng m
RT: 8.450 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion: 82 Resp: 197

Ion	Ratio	Lower	Upper
82	100		
128	45.1	33.0	49.4
54	39.6	33.3	49.9

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

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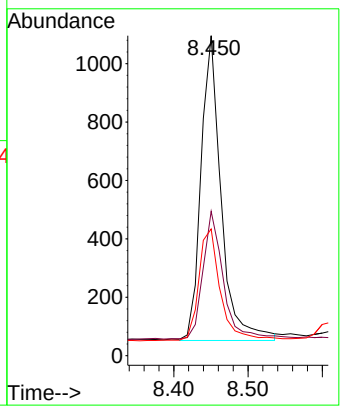
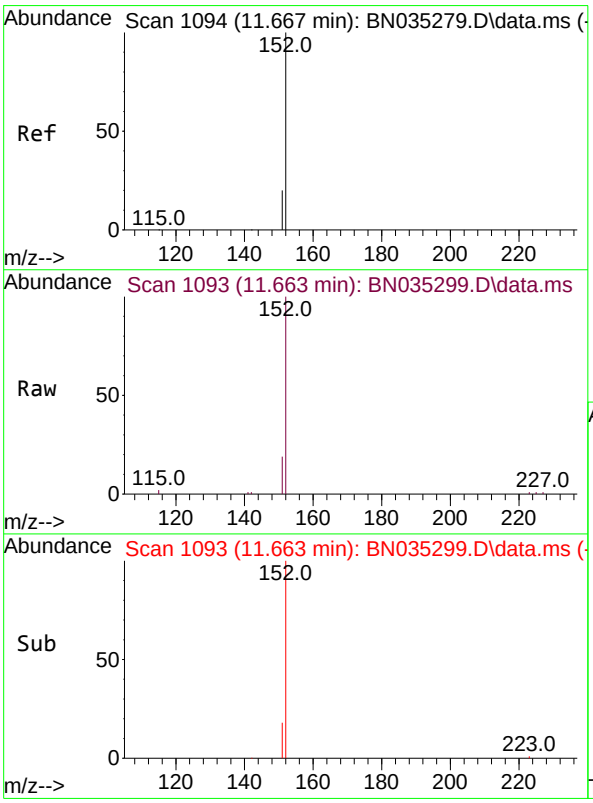
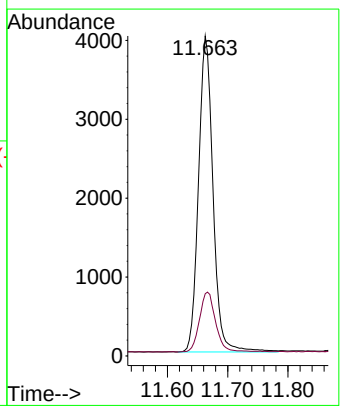


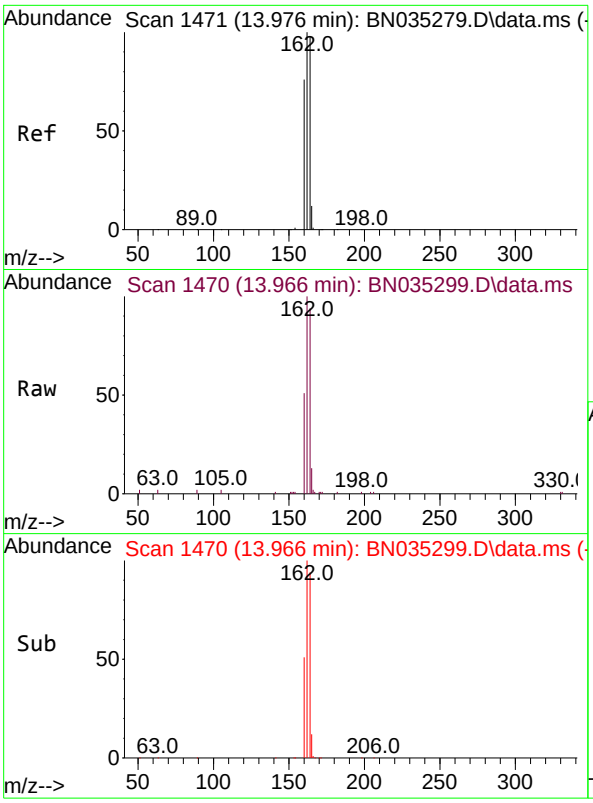


#11
2-Methylnaphthalene-d10
Concen: 0.451 ng
RT: 11.663 min Scan# 1093
Delta R.T. -0.004 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:152 Resp: 6676

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.2	25.8

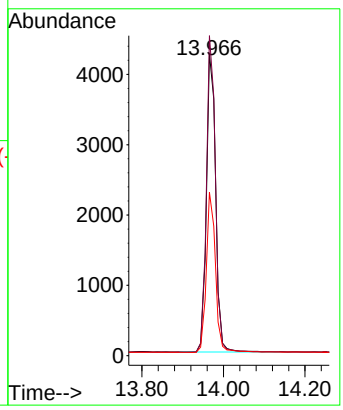




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.966 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:164 Resp: 668

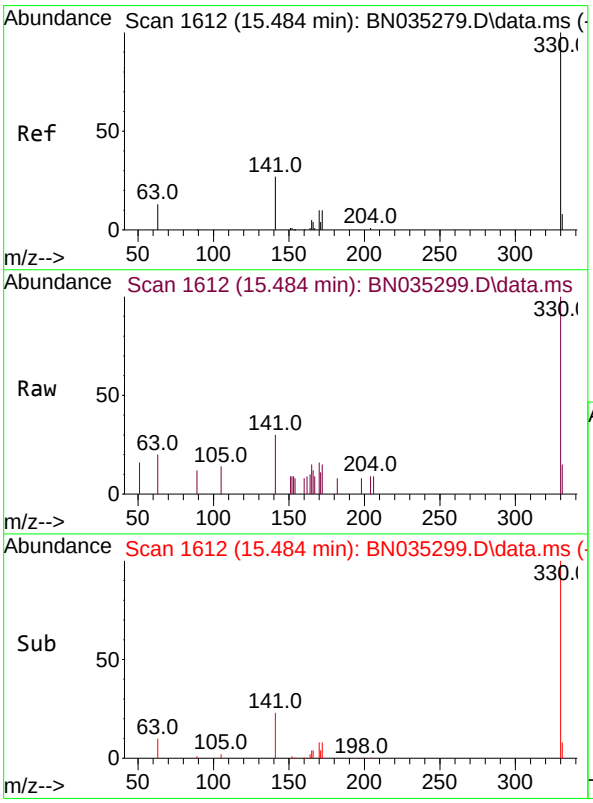
Ion	Ratio	Lower	Upper
164	100		
162	106.0	82.0	123.0
160	54.1	63.0	94.4



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Manual Integrations
APPROVED

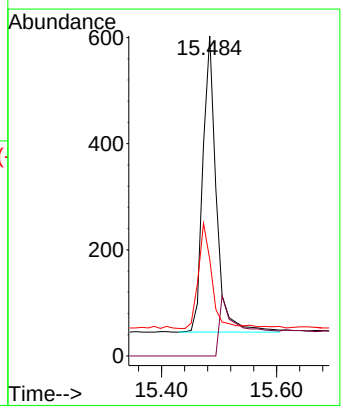
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

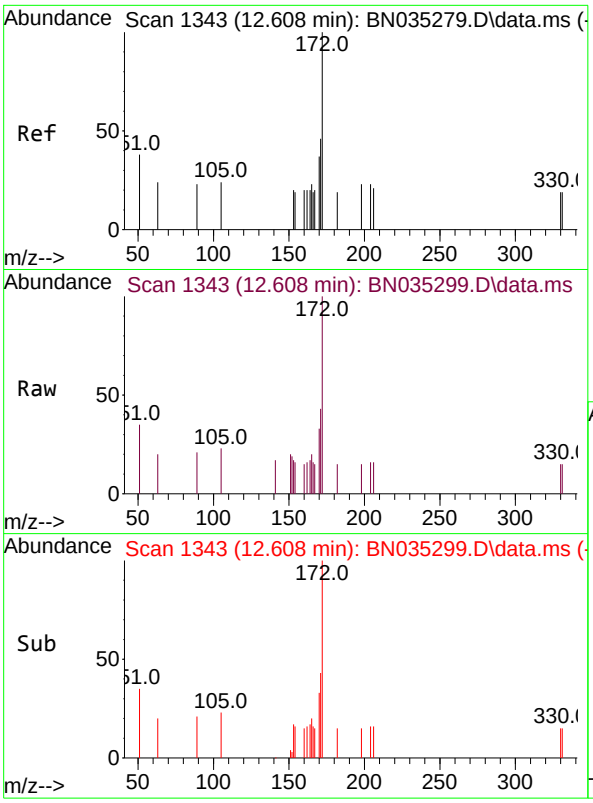


#14
2,4,6-Tribromophenol
Concen: 0.285 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:330 Resp: 972

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	36.7	32.4	48.6

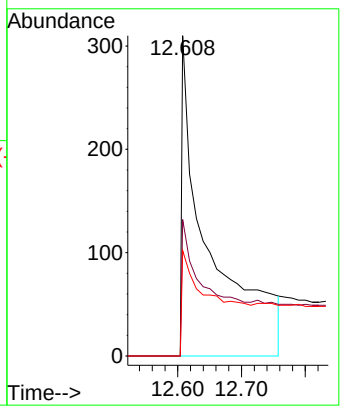




#15
2-Fluorobiphenyl
Concen: 0.241 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:172 Resp: 89

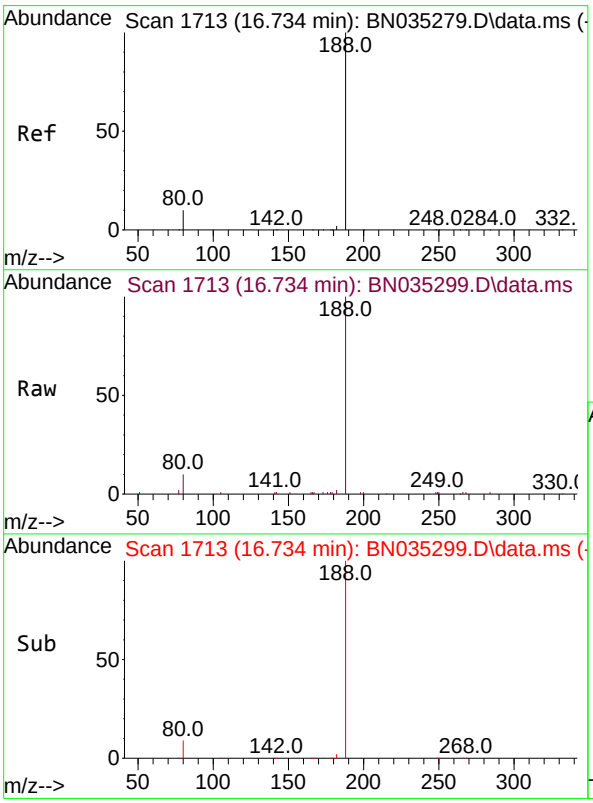
Ion	Ratio	Lower	Upper
172	100		
171	42.6	36.6	55.0
170	32.9	29.7	44.5



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Manual Integrations
APPROVED

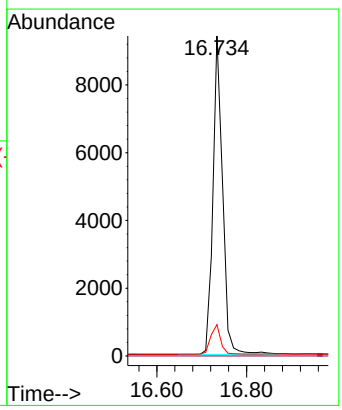
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

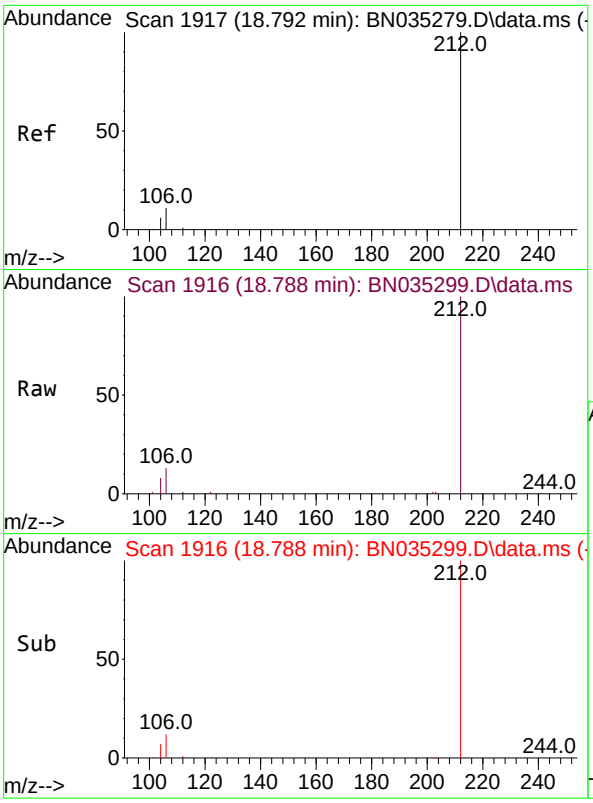


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:188 Resp: 14026

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.8	8.9	13.3

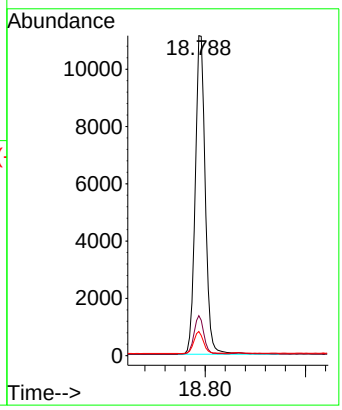




#27
Fluoranthene-d10
Concen: 0.410 ng
RT: 18.788 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:212 Resp: 1540

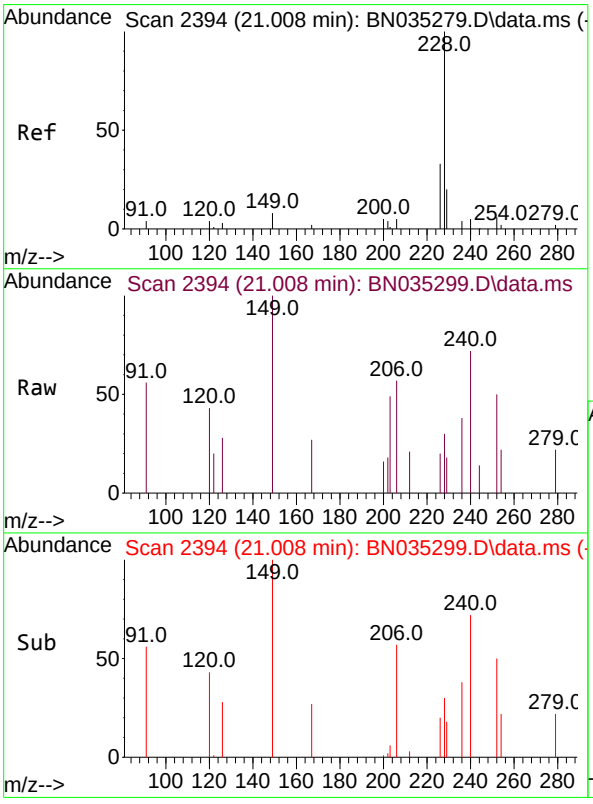
Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.8	14.8
104	6.8	5.6	8.4



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Manual Integrations
APPROVED

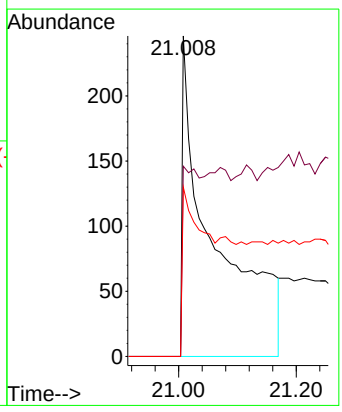
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

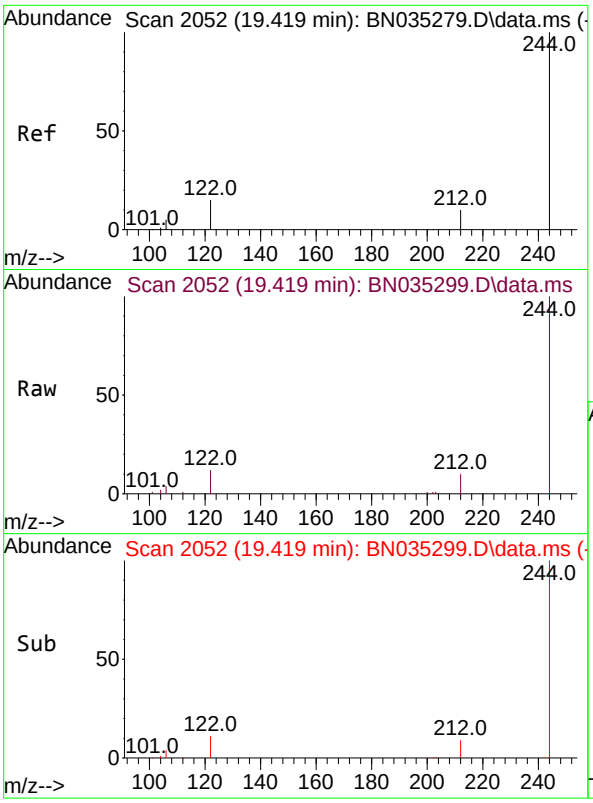


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:240 Resp: 880

Ion	Ratio	Lower	Upper
240	100		
120	59.3	54.9	82.3
236	52.8	54.0	81.0#

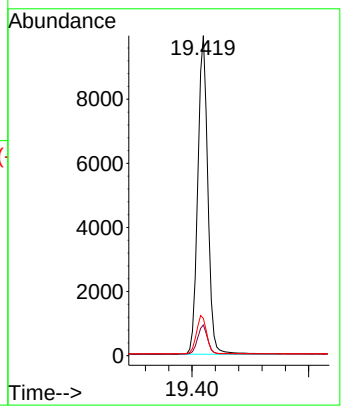




#31
Terphenyl-d14
Concen: 0.729 ng
RT: 19.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:244 Resp: 1185

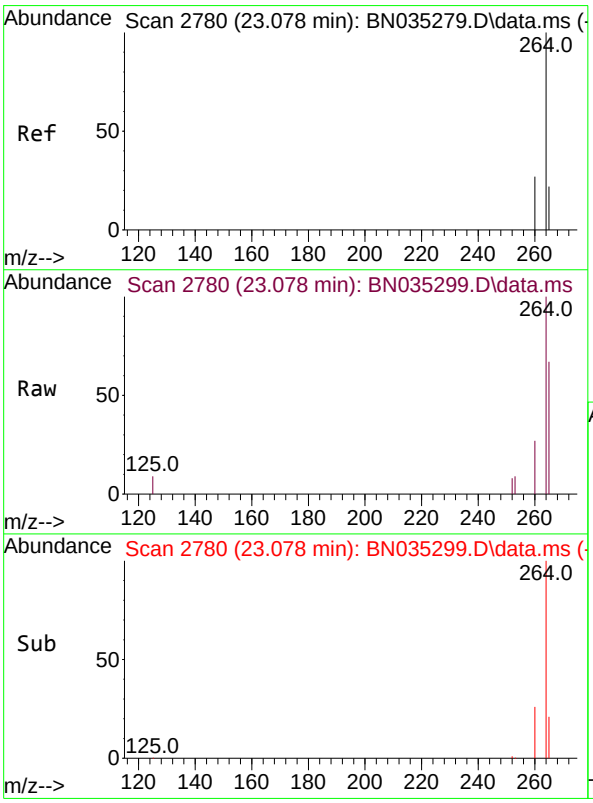
Ion	Ratio	Lower	Upper
244	100		
212	9.6	9.4	14.0
122	11.7	13.0	19.4#



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Manual Integrations APPROVED

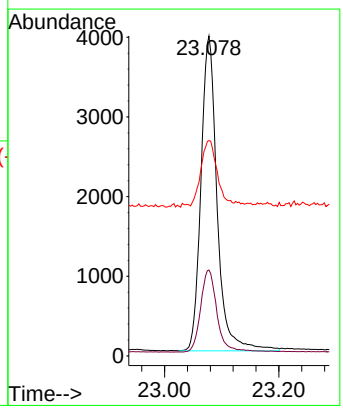
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 2780
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:264 Resp: 7740

Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.3	33.5
265	67.3	68.6	103.0#



CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 26 02:36:08 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN035277.D 0.2 =BN035278.D 0.4 =BN035279.D 0.8 =BN035280.D 1.6 =BN035281.D 3.2 =BN035282.D 5.0 =BN035283.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	0.375	0.276	0.287	0.263	0.284	0.262	0.267	0.288	13.80
3)		n-Nitrosodimet...		0.279	0.284	0.306	0.313	0.299	0.306	0.298	4.56
4)	S	2-Fluorophenol	0.858	0.793	0.789	0.725	0.730	0.678	0.718	0.756	8.00
5)	S	Phenol-d6	1.194	1.125	1.105	1.022	1.025	0.963	0.955	1.056	8.40
6)		bis(2-Chloroet...	0.910	0.870	0.896	0.887	0.914	0.874	0.869	0.889	2.11
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.267	0.272	0.347	0.327	0.356	0.348	0.354	0.324	11.95
9)		Naphthalene	1.085	1.055	1.091	1.075	1.150	1.140	1.174	1.110	4.01
10)		Hexachlorobuta...	0.281	0.289	0.312	0.311	0.339	0.330	0.322	0.312	6.74
11)	SURR	2-Methylnaphth...	0.561	0.531	0.539	0.527	0.566	0.580	0.616	0.560	5.61
12)		2-Methylnaphth...	0.690	0.680	0.680	0.675	0.748	0.782	0.829	0.726	8.37
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.174	0.174	0.180	0.186	0.213	0.230	0.272	0.204	17.97
15)	S	2-Fluorobiphenyl	0.595	0.424	0.245	0.118	0.082	0.049	0.033	0.221	97.20
16)		Acenaphthylene	1.859	1.869	1.885	1.919	2.117	2.147	2.294	2.013	8.53
17)		Acenaphthene	1.144	1.158	1.176	1.194	1.341	1.386	1.473	1.267	10.33
18)		Fluorene	1.538	1.617	1.634	1.688	1.907	1.985	2.068	1.777	11.63
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.027	0.034	0.039	0.048	0.056		0.041	27.63
21)		4-Bromophenyl-...	0.248	0.236	0.235	0.233	0.252	0.271	0.300	0.254	9.59
22)		Hexachlorobenzene	0.326	0.336	0.352	0.363	0.391	0.381	0.394	0.363	7.33
23)		Atrazine	0.091	0.095	0.100	0.100	0.114	0.117	0.133	0.107	13.85
24)		Pentachlorophenol		0.067	0.079	0.082	0.097	0.112		0.087	19.82
25)		Phenanthrene	1.121	1.103	1.131	1.162	1.271	1.364	1.448	1.229	11.00
26)		Anthracene	0.904	0.899	0.911	0.953	1.100	1.252	1.367	1.055	18.01
27)	SURR	Fluoranthene-d10	0.953	0.963	0.967	0.998	1.120	1.224	1.269	1.070	12.46
28)		Fluoranthene	1.248	1.282	1.340	1.453	1.732	1.890	1.907	1.550	18.48
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.357	1.179	1.528	1.271	1.779	1.615		1.455 E1	15.55
31)	S	Terphenyl-d14	0.628	0.551	0.726	0.608	0.862	0.764	1.035	0.739 E1	22.66
32)		Benzo(a)anthra...	1.299	1.119	1.382	1.150	1.641	1.439	1.714	1.392 E1	16.32
33)		Chrysene	1.299	1.119	1.382	1.150	1.641	1.439	1.714	1.392 E1	16.32
34)		Bis(2-ethylhex...		1.747	0.910	0.506	0.436	0.229		0.765	78.59
35)	I	Perylene-d12	----------ISTD----------								

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112524.M

36)		Indeno(1,2,3-c...	1.377	1.410	1.523	1.574	1.744	1.787	2.049	1.638	14.53
37)		Benzo(b)fluora...	1.505	1.552	1.452	1.714	1.877	2.005	2.064	1.738	14.25
38)		Benzo(k)fluora...	1.567	1.585	1.632	1.796	2.049	2.079	2.165	1.839	13.87
39)	C	Benzo(a)pyrene	1.191	1.181	1.143	1.297	1.428	1.476	1.586	1.329	12.80
40)		Dibenzo(a,h)an...	0.961	1.028	1.107	1.202	1.353	1.402	1.612	1.238	18.62
41)		Benzo(g,h,i)pe...	1.296	1.311	1.241	1.412	1.508	1.517	1.737	1.432	11.97

(#) = Out of Range

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035277.D
Acq On : 25 Nov 2024 10:16
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Yogesh Patel
11/27/2024
Supervised By :mohammad ahmed
11/27/2024

Quant Time: Nov 25 14:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.315	152	2616	0.400	ng		0.00
7) Naphthalene-d8	10.063	136	6701	0.400	ng		0.00
13) Acenaphthene-d10	13.976	164	3999	0.400	ng		0.00
19) Phenanthrene-d10	16.734	188	9103	0.400	ng		0.00
29) Chrysene-d12	21.008	240	834	0.400	ng		0.00
35) Perylene-d12	23.081	264	5298	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	561	0.084	ng		0.00
5) Phenol-d6	6.520	99	781	0.094	ng		0.00
8) Nitrobenzene-d5	8.450	82	447m	0.077	ng		0.00
11) 2-Methylnaphthalene-d10	11.670	152	939	0.079	ng		0.00
14) 2,4,6-Tribromophenol	15.484	330	174	0.060	ng		0.00
15) 2-Fluorobiphenyl	12.608	172	595	0.037	ng		0.00
27) Fluoranthene-d10	18.792	212	2168	0.078	ng		0.00
31) Terphenyl-d14	19.419	244	1310	0.749	ng		0.00
Target Compounds						Qvalue	
2) 1,4-Dioxane	3.010	88	245	0.103	ng	#	78
6) bis(2-Chloroethyl)ether	6.766	93	595	0.095	ng		97
9) Naphthalene	10.116	128	1817	0.104	ng	#	92
10) Hexachlorobutadiene	10.415	225	471	0.092	ng	#	98
12) 2-Methylnaphthalene	11.746	142	1156	0.090	ng		98
16) Acenaphthylene	13.688	152	1859	0.109	ng		99
17) Acenaphthene	14.030	154	1144	0.102	ng		92
18) Fluorene	15.035	166	1538	0.093	ng		99
21) 4-Bromophenyl-phenylether	15.952	248	565	0.097	ng	#	70
22) Hexachlorobenzene	16.051	284	743	0.123	ng		98
23) Atrazine	16.237	200	206	0.040	ng	#	82
25) Phenanthrene	16.783	178	2552	0.107	ng		99
26) Anthracene	16.870	178	2057	0.093	ng		99
28) Fluoranthene	18.825	202	2840	0.086	ng		99
30) Pyrene	19.192	202	2830	1.019	ng		100
32) Benzo(a)anthracene	21.017	228	2709	0.933	ng		98
33) Chrysene	21.017	228	2709	0.942	ng		98
36) Indeno(1,2,3-cd)pyrene	25.121	276	1824	0.086	ng		98
37) Benzo(b)fluoranthene	22.464	252	1993	0.112	ng	#	78
38) Benzo(k)fluoranthene	22.505	252	2076	0.116	ng	#	78
39) Benzo(a)pyrene	22.987	252	1578	0.101	ng	#	73
40) Dibenzo(a,h)anthracene	25.142	278	1273	0.076	ng	#	76
41) Benzo(g,h,i)perylene	25.738	276	1716	0.096	ng	#	88

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

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035277.D
Acq On : 25 Nov 2024 10:16
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 25 14:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration

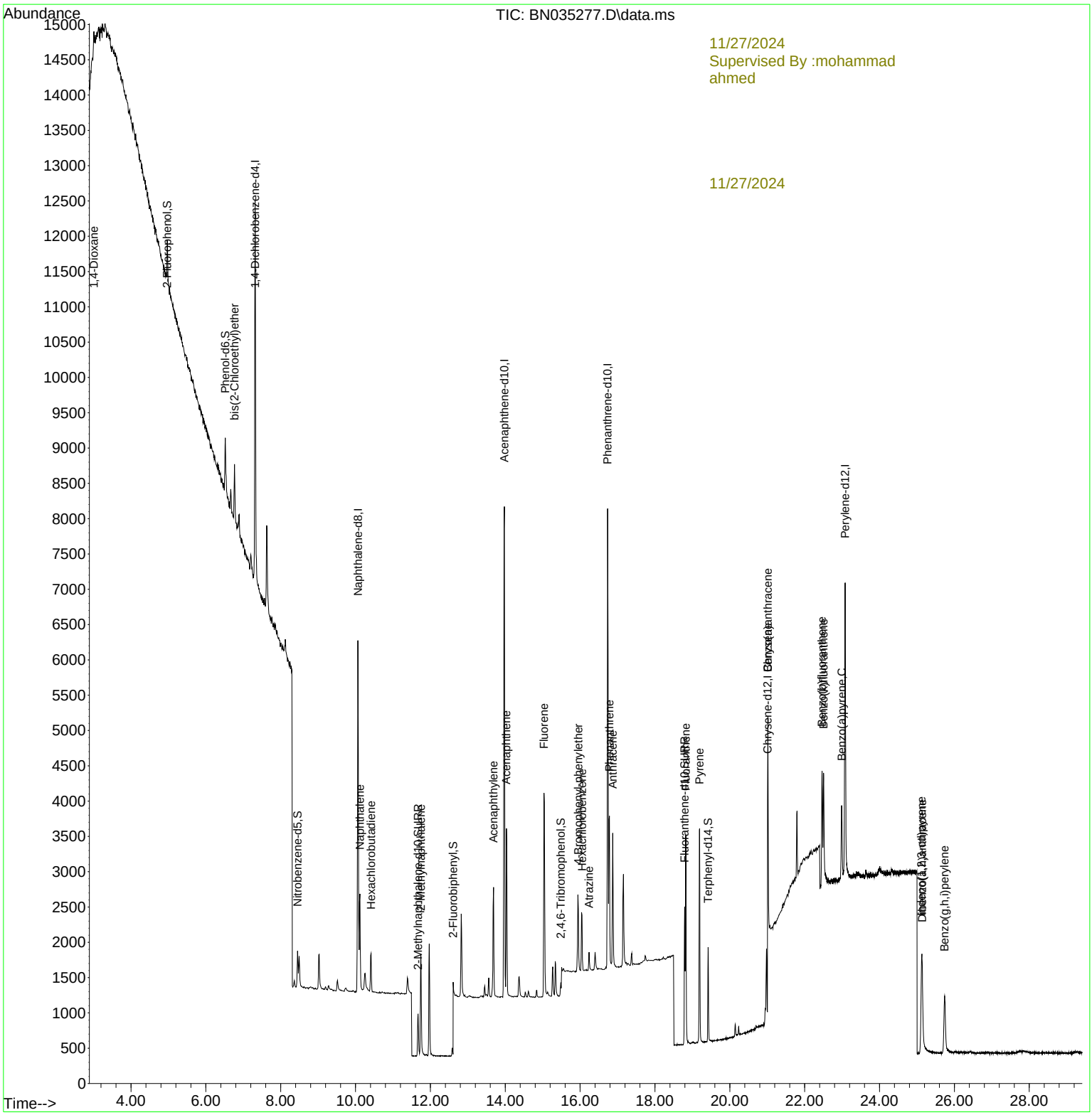
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

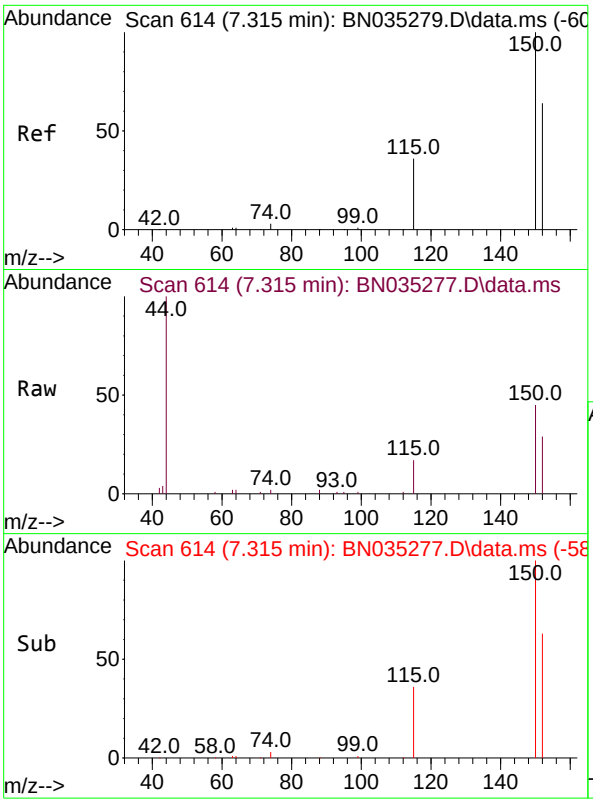
Manual Integrations APPROVED

Reviewed By :Yogesh Patel

11/27/2024
Supervised By :mohammad ahmed

11/27/2024

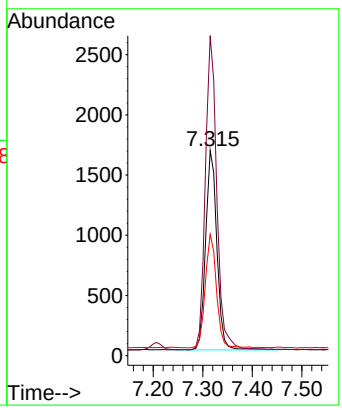




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:152 Resp: 261

Ion	Ratio	Lower	Upper
152	100		
150	156.0	124.5	186.7
115	59.1	47.8	71.8



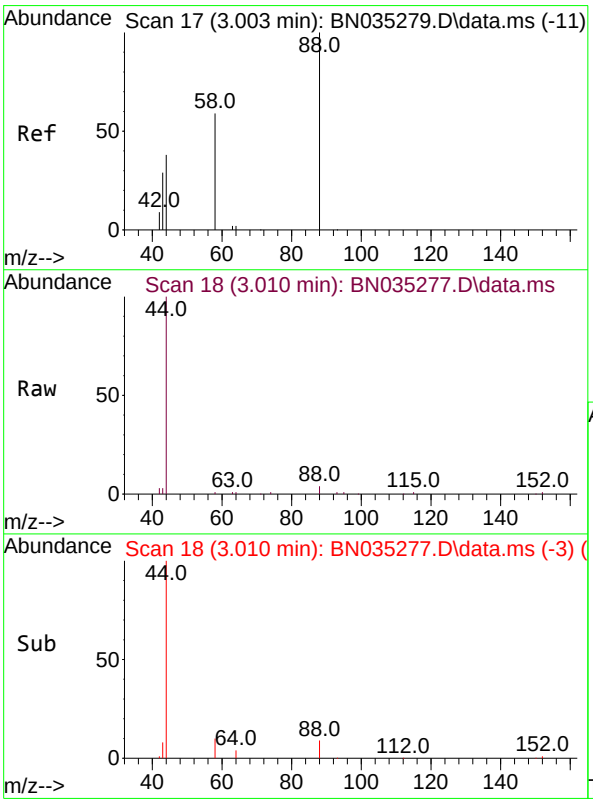
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

11/27/2024
Supervised By :mohammad ahmed

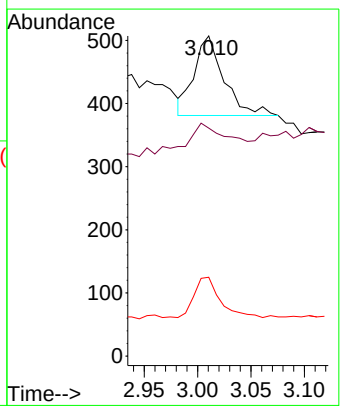
11/27/2024

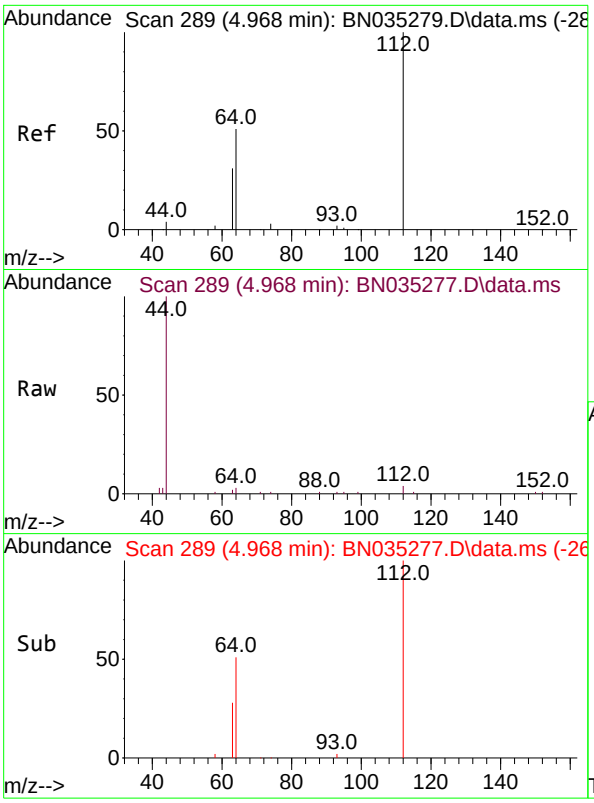


#2
1,4-Dioxane
Concen: 0.103 ng
RT: 3.010 min Scan# 18
Delta R.T. 0.007 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion: 88 Resp: 245

Ion	Ratio	Lower	Upper
88	100		
43	78.8	48.1	72.1#
58	44.9	46.9	70.3#





#4
2-Fluorophenol
Concen: 0.084 ng
RT: 4.968 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:112 Resp: 56

Ion	Ratio	Lower	Upper
112	100		
64	49.9	40.4	60.6
63	32.1	23.8	35.8

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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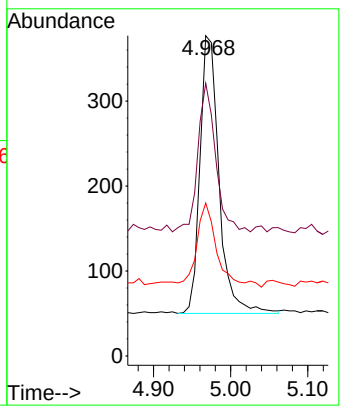

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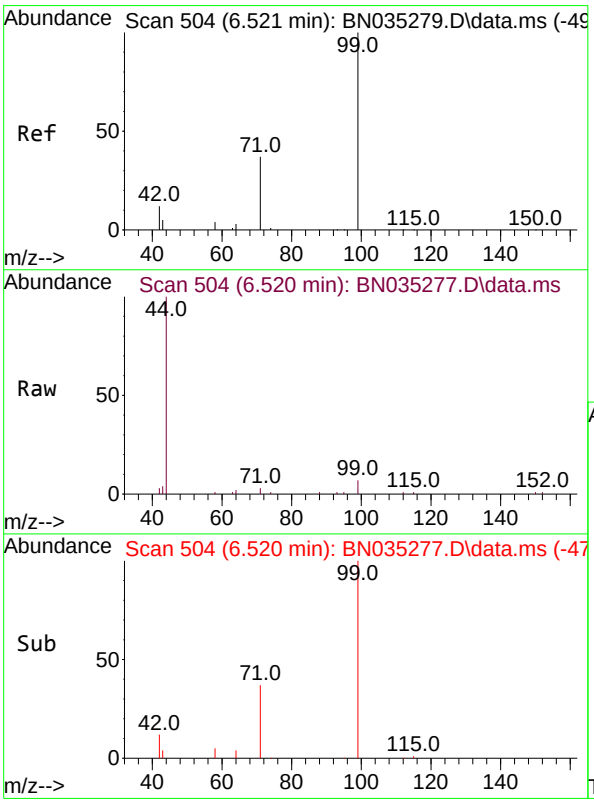
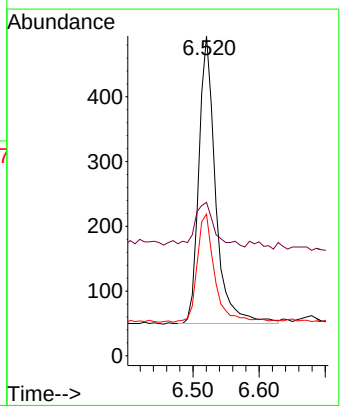
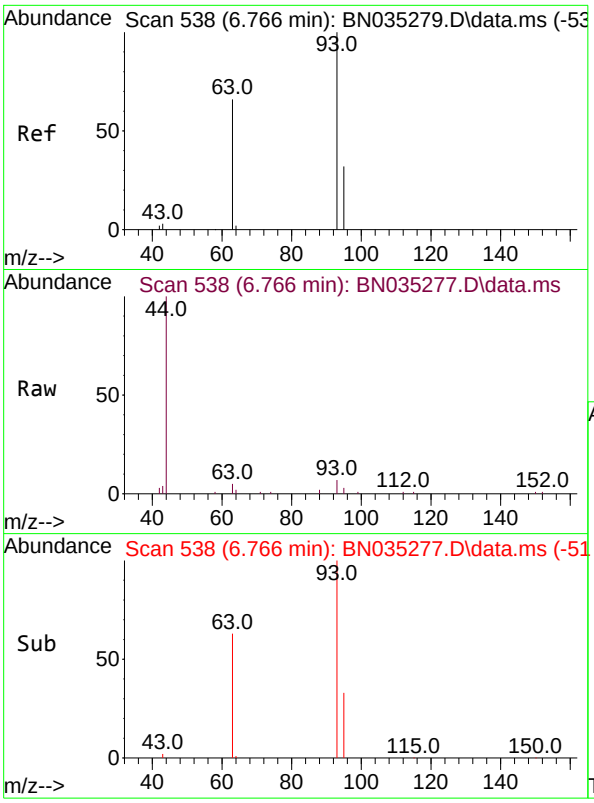


#5
Phenol-d6
Concen: 0.094 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion: 99 Resp: 781

Ion	Ratio	Lower	Upper
99	100		
42	18.4	12.8	19.2
71	39.8	31.4	47.2

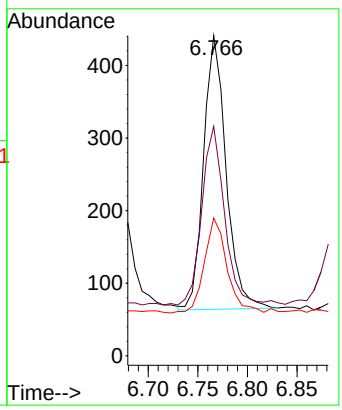




#6
bis(2-Chloroethyl)ether
Concen: 0.095 ng
RT: 6.766 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion: 93 Resp: 59

Ion	Ratio	Lower	Upper
93	100		
63	66.6	52.3	78.5
95	35.0	25.5	38.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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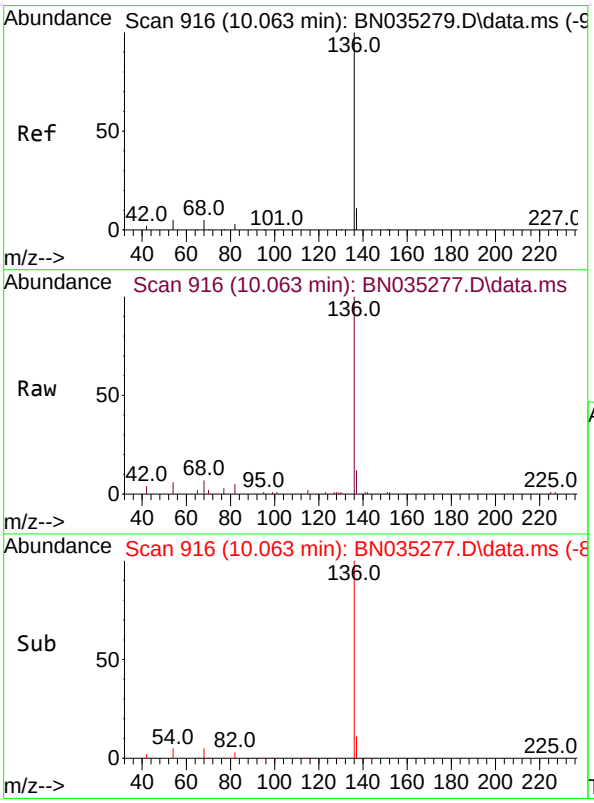
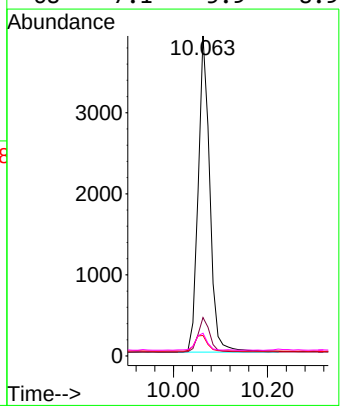
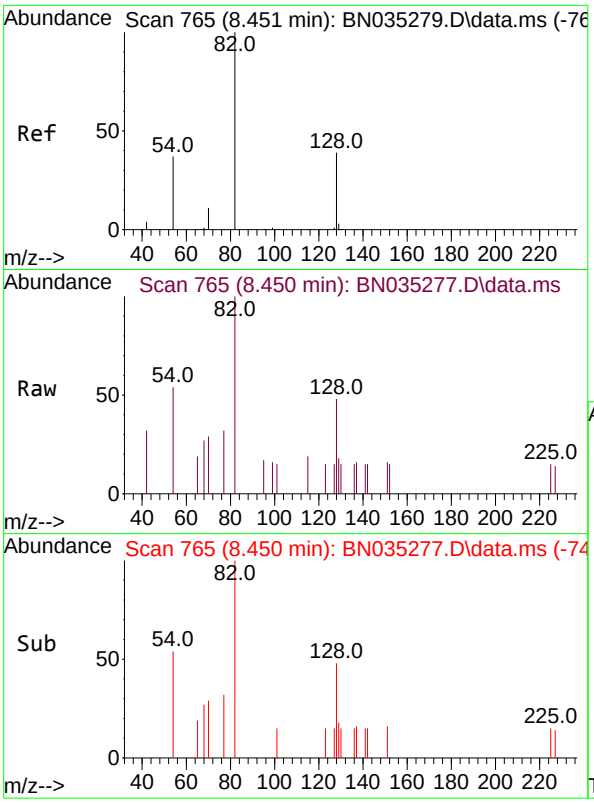


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:136 Resp: 6701

Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.7	14.5
54	6.4	5.3	7.9
68	7.1	5.9	8.9

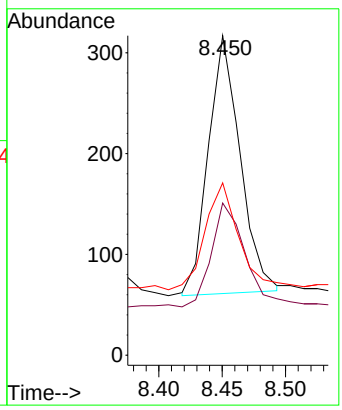




#8
Nitrobenzene-d5
Concen: 0.077 ng m
RT: 8.450 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion: 82 Resp: 44

Ion	Ratio	Lower	Upper
82	100		
128	47.6	33.0	49.4
54	53.9	33.3	49.9#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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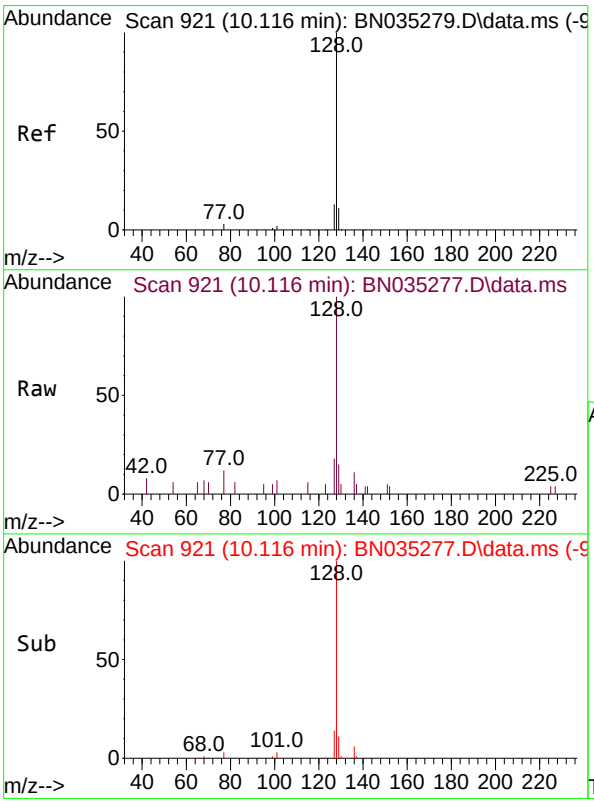
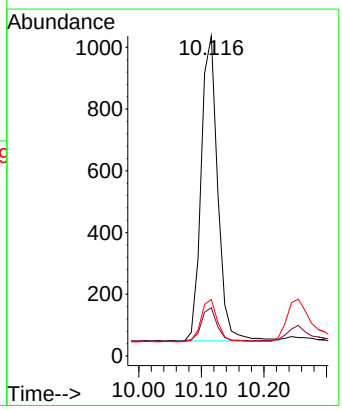
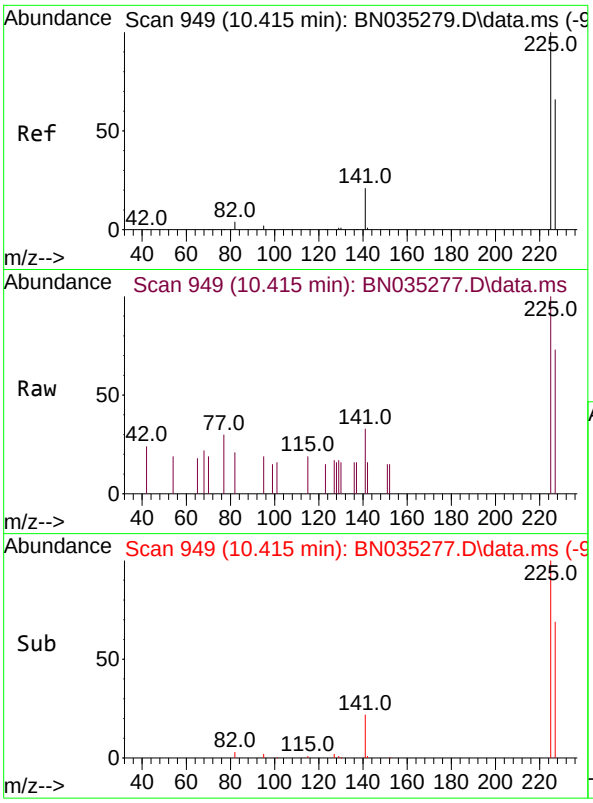


#9
Naphthalene
Concen: 0.104 ng
RT: 10.116 min Scan# 921
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:128 Resp: 1817

Ion	Ratio	Lower	Upper
128	100		
129	15.0	9.6	14.4#
127	17.6	11.3	16.9#

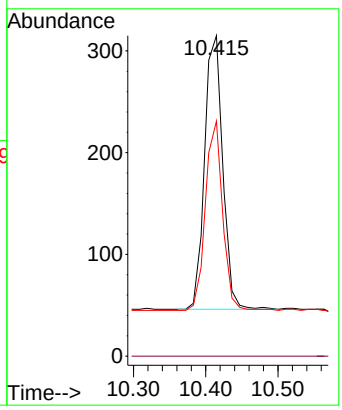




#10
Hexachlorobutadiene
Concen: 0.092 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:225 Resp: 47

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.6	51.3	76.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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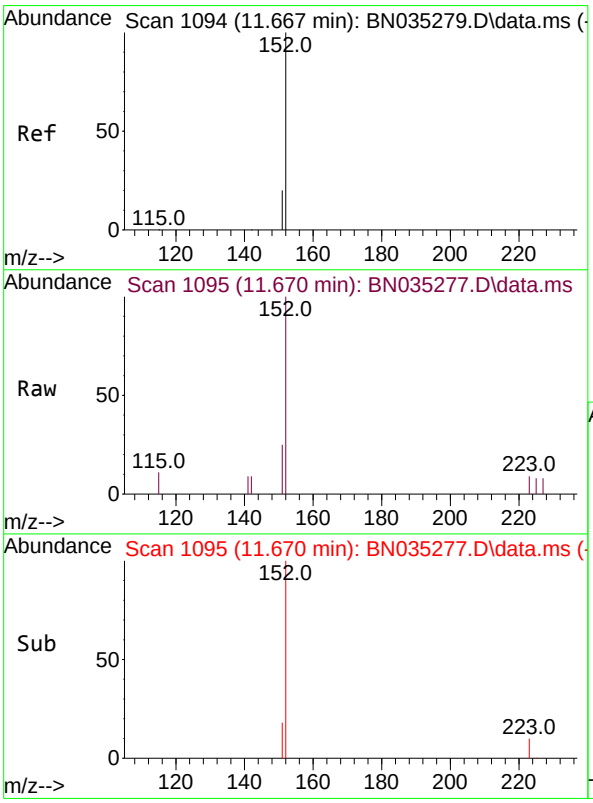
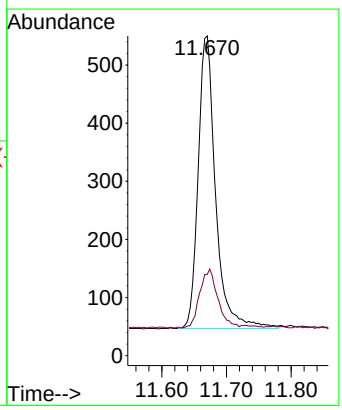
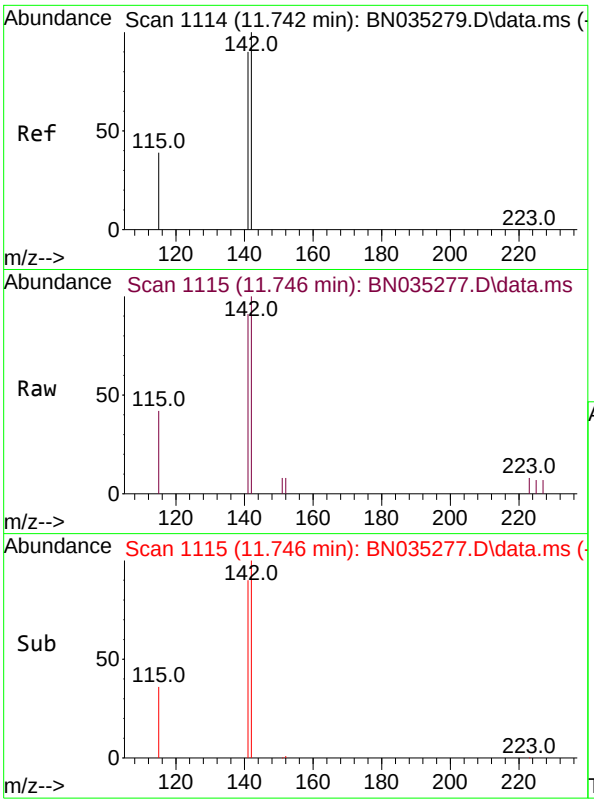


#11
2-Methylnaphthalene-d10
Concen: 0.079 ng
RT: 11.670 min Scan# 1095
Delta R.T. 0.004 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:152 Resp: 939

Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.2	25.8

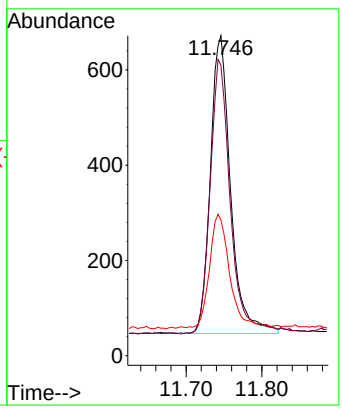




#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 11.746 min Scan# 11
Delta R.T. 0.004 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:142 Resp: 115

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.8	107.8
115	42.4	32.6	49.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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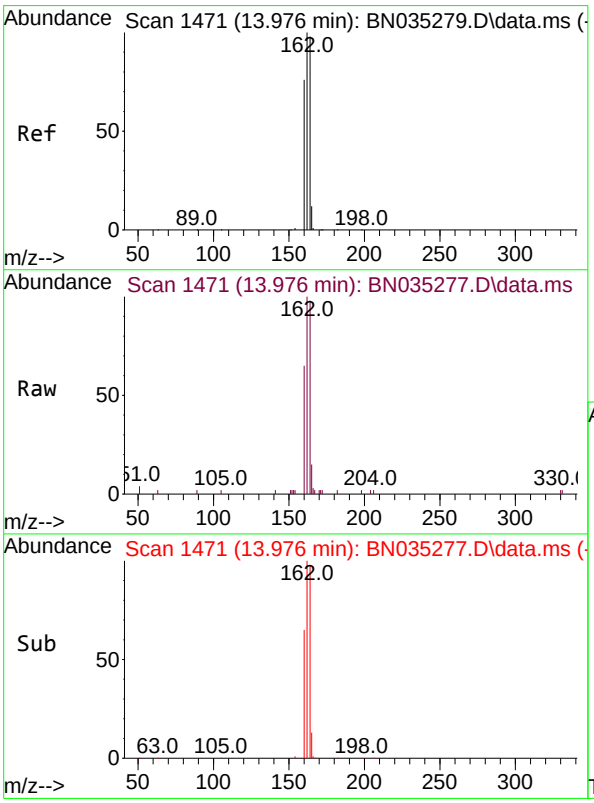
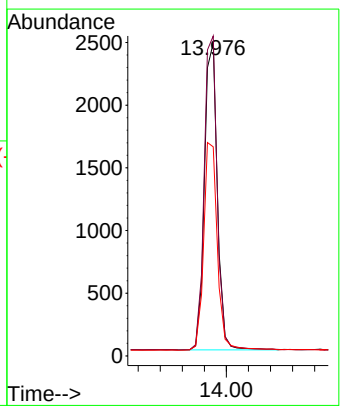
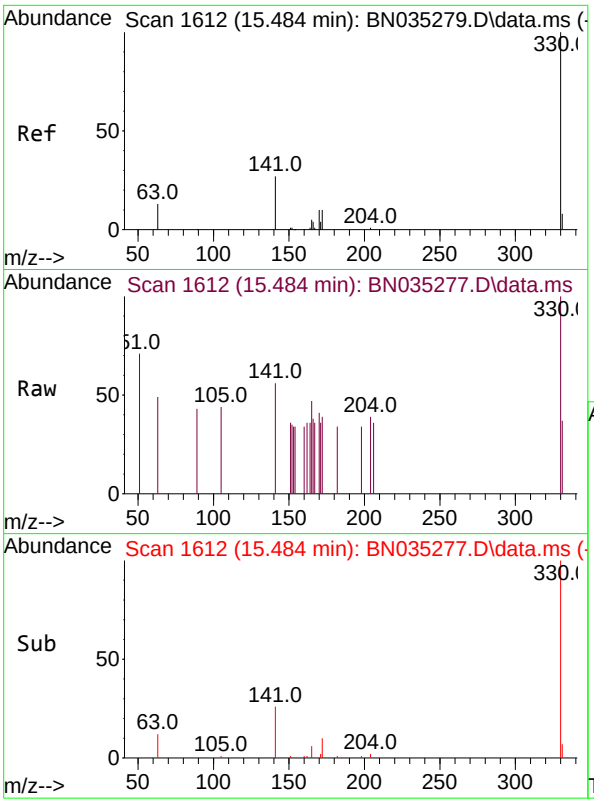


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:164 Resp: 3999

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.0	123.0
160	66.8	63.0	94.4

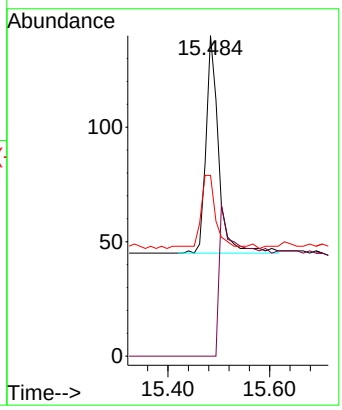




#14
2,4,6-Tribromophenol
Concen: 0.060 ng
RT: 15.484 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:330 Resp: 17

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.5	32.4	48.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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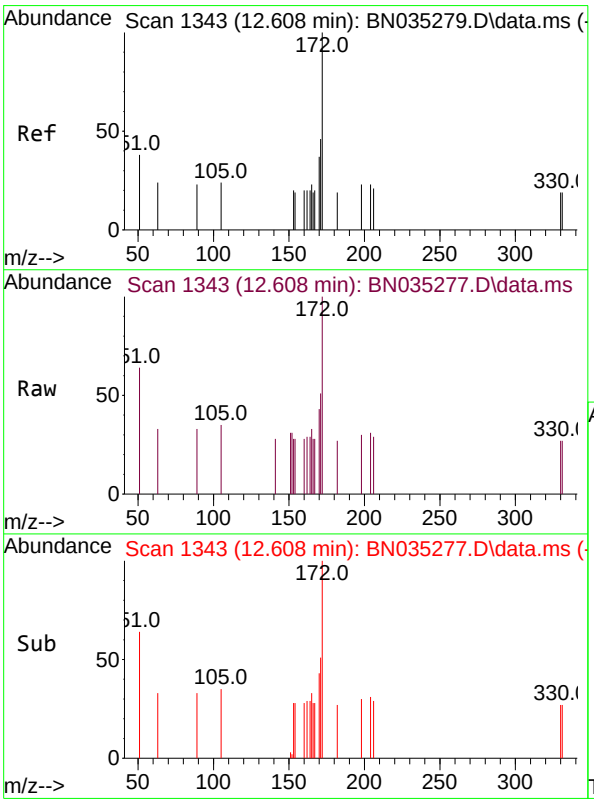
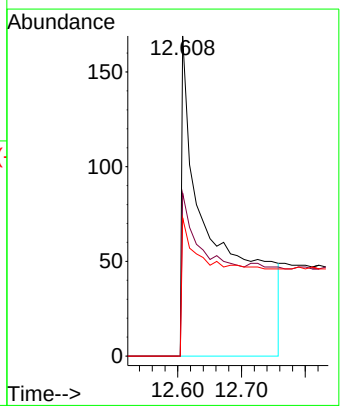
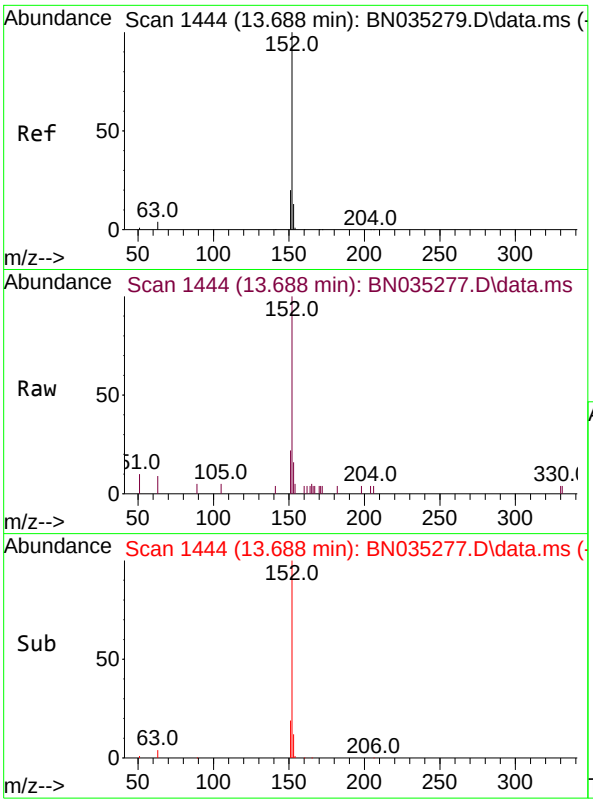


#15
2-Fluorobiphenyl
Concen: 0.037 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:172 Resp: 595

Ion	Ratio	Lower	Upper
172	100		
171	50.9	36.6	55.0
170	43.2	29.7	44.5

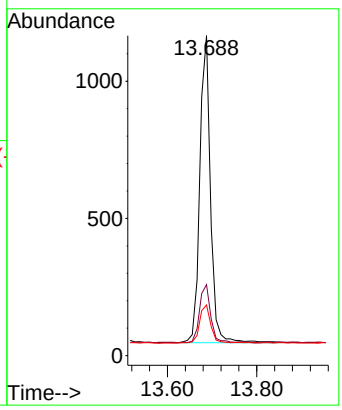




#16
Acenaphthylene
Concen: 0.109 ng
RT: 13.688 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:152 Resp: 185

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.9	23.9
153	13.4	10.2	15.4



Instrument :
BNA_N
ClientSampleId :
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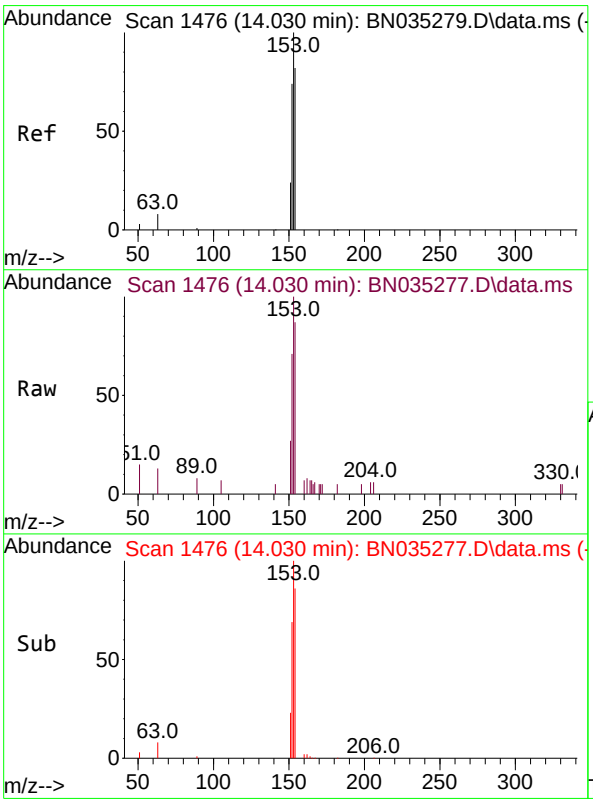
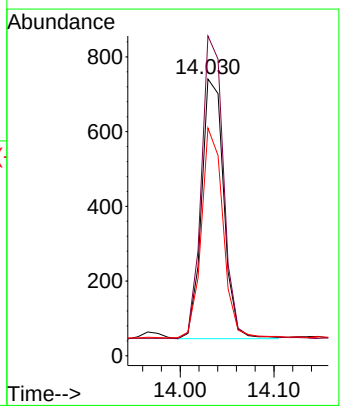
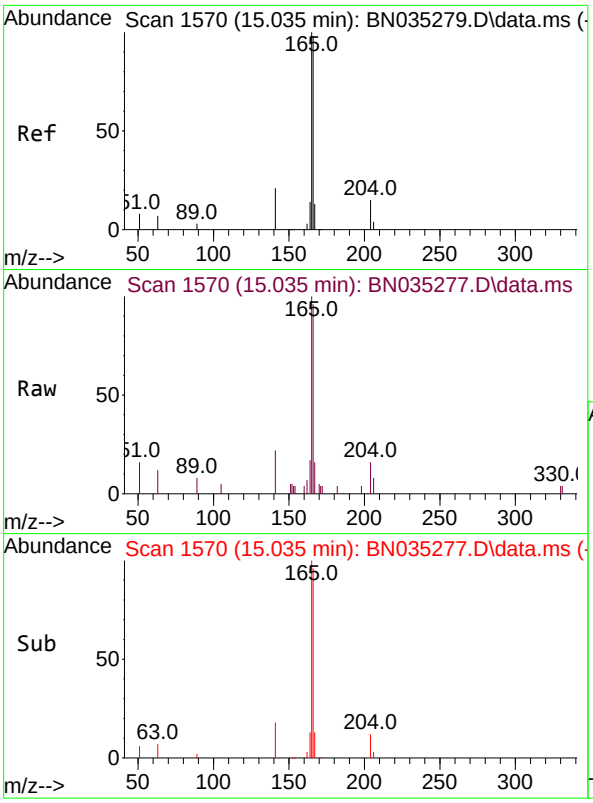


#17
Acenaphthene
Concen: 0.102 ng
RT: 14.030 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:154 Resp: 1144

Ion	Ratio	Lower	Upper
154	100		
153	115.4	96.1	144.1
152	78.8	72.2	108.2

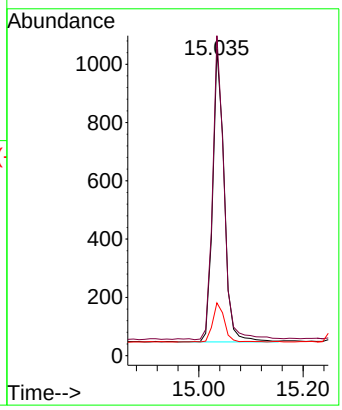




#18
Fluorene
Concen: 0.093 ng
RT: 15.035 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:166 Resp: 153

Ion	Ratio	Lower	Upper
166	100		
165	101.9	81.2	121.8
167	13.8	10.5	15.7



Instrument :
BNA_N
ClientSampleId :
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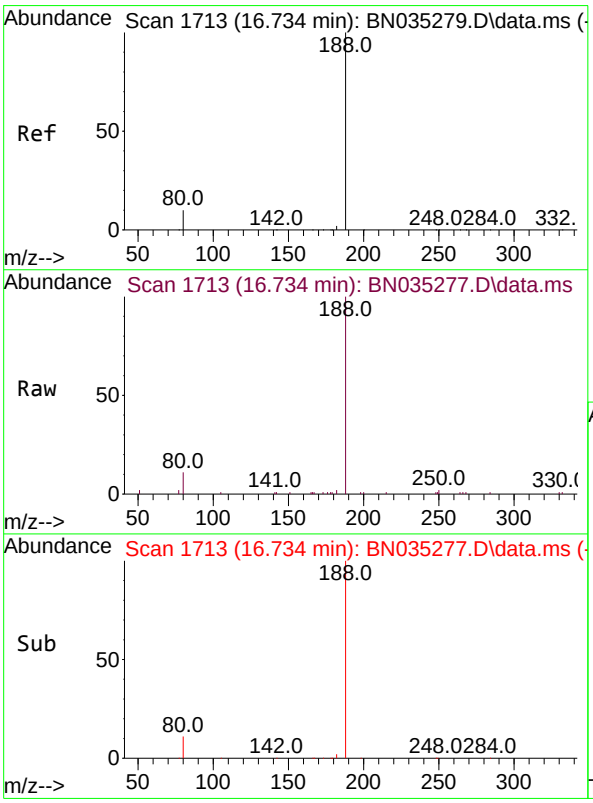
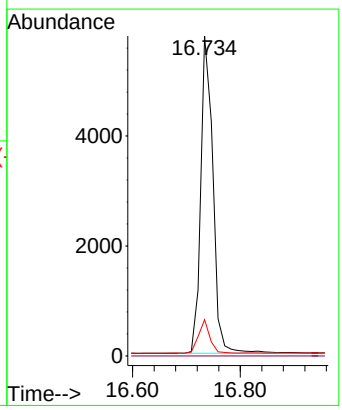
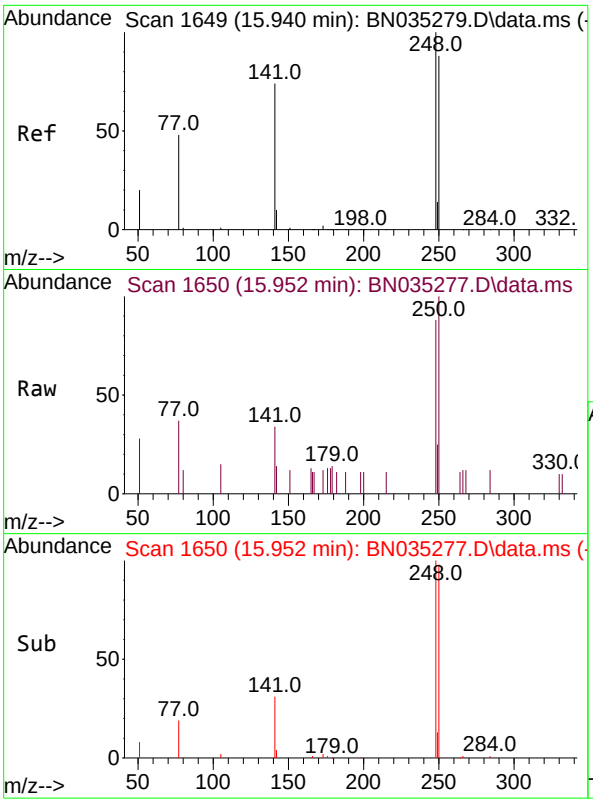


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:188 Resp: 9103

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.4	8.9	13.3

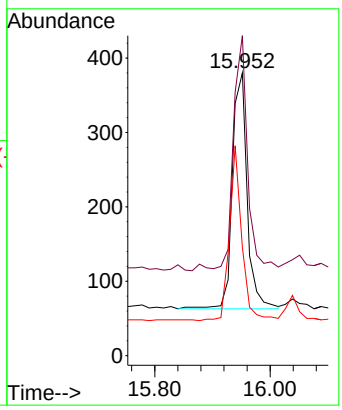




#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 15.952 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:248 Resp: 56

Ion	Ratio	Lower	Upper
248	100		
250	113.2	74.8	112.2#
141	38.4	59.0	88.4#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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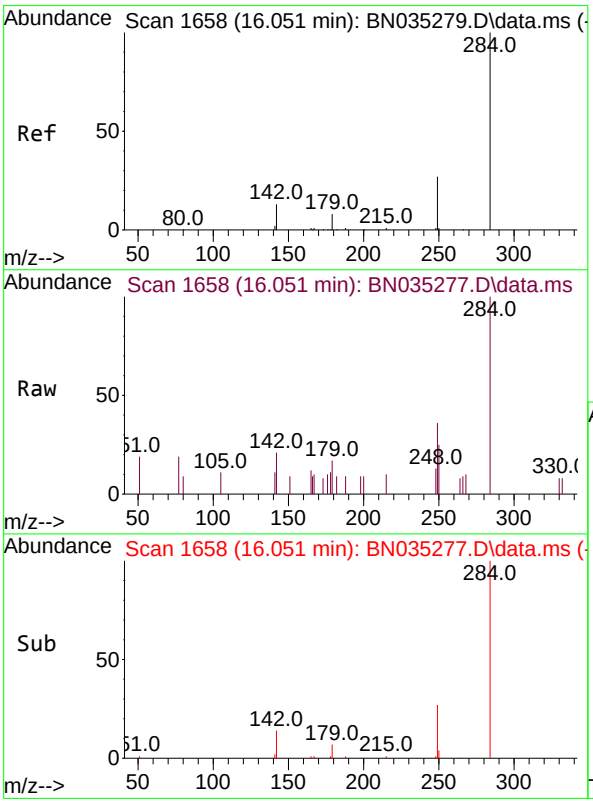
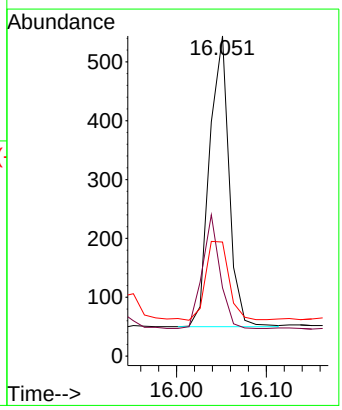
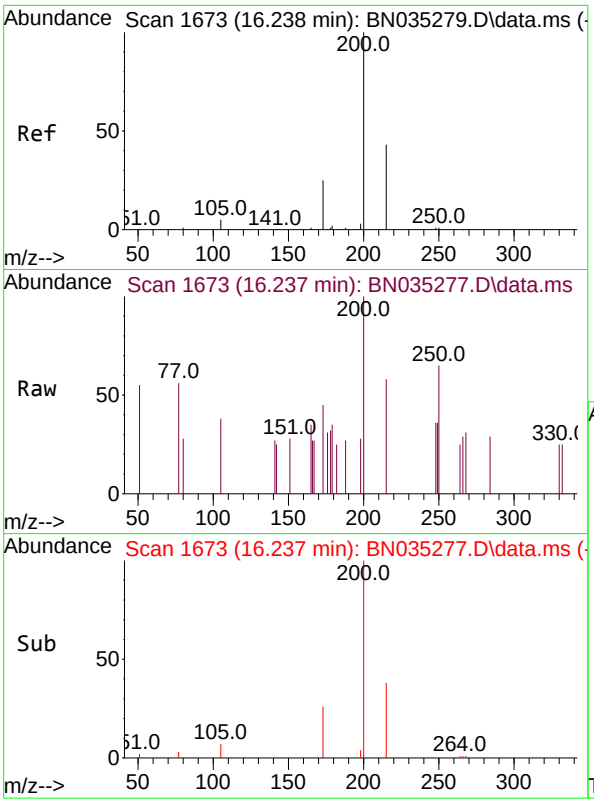


#22
Hexachlorobenzene
Concen: 0.123 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:284 Resp: 743

Ion	Ratio	Lower	Upper
284	100		
142	35.4	28.7	43.1
249	33.1	25.4	38.0

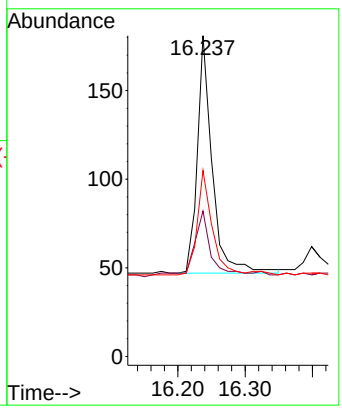




#23
Atrazine
Concen: 0.040 ng
RT: 16.237 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:200 Resp: 20(

Ion	Ratio	Lower	Upper
200	100		
173	45.3	25.8	38.8#
215	58.0	38.6	58.0#



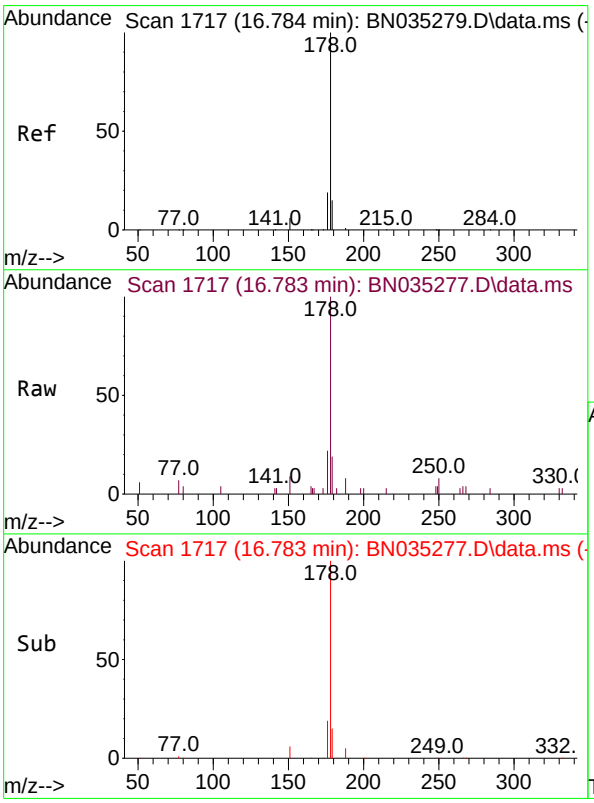
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

11/27/2024
Supervised By :mohammad ahmed

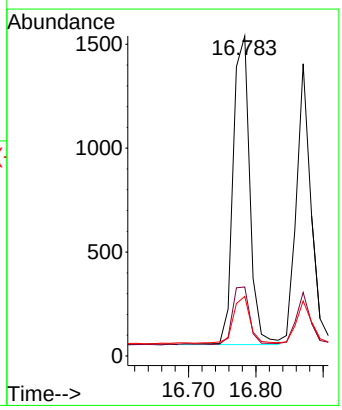
11/27/2024

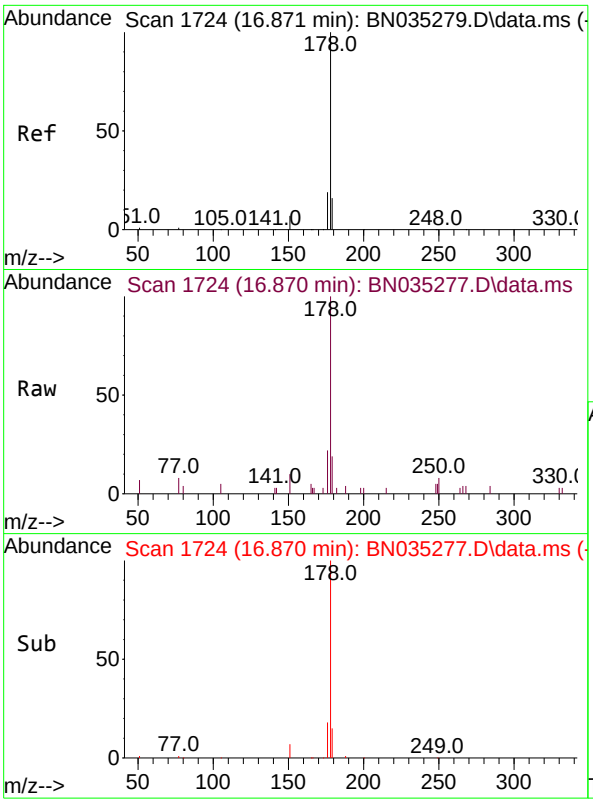


#25
Phenanthrene
Concen: 0.107 ng
RT: 16.783 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:178 Resp: 2552

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.2	12.6	18.8

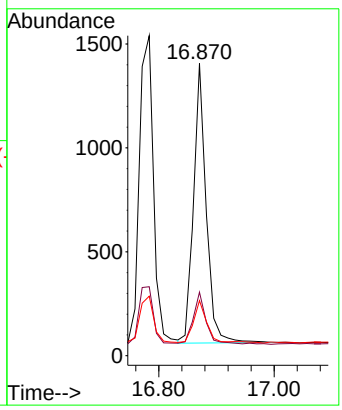




#26
Anthracene
Concen: 0.093 ng
RT: 16.870 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:178 Resp: 205

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.4
179	15.9	12.4	18.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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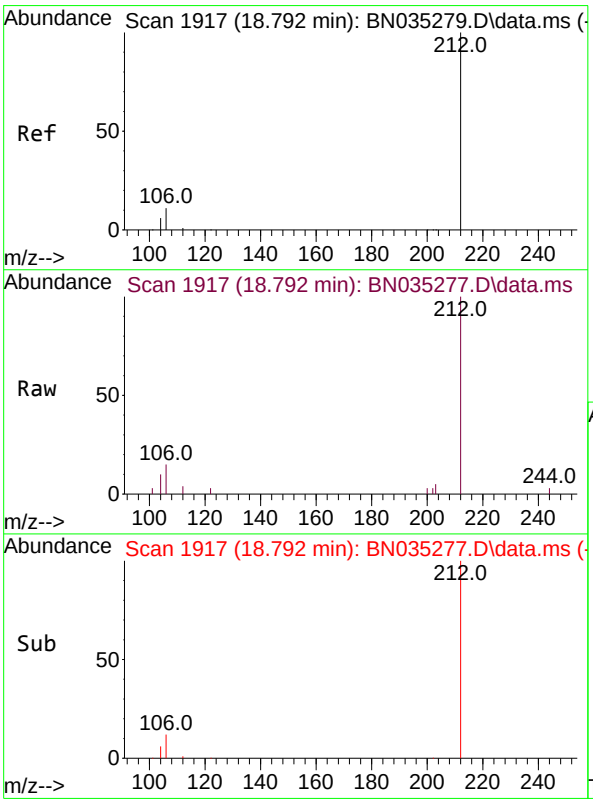
Reviewed By :Yogesh Patel

11/27/2024
Supervised By :mohammad ahmed

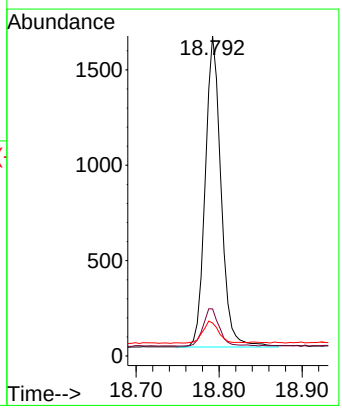
11/27/2024

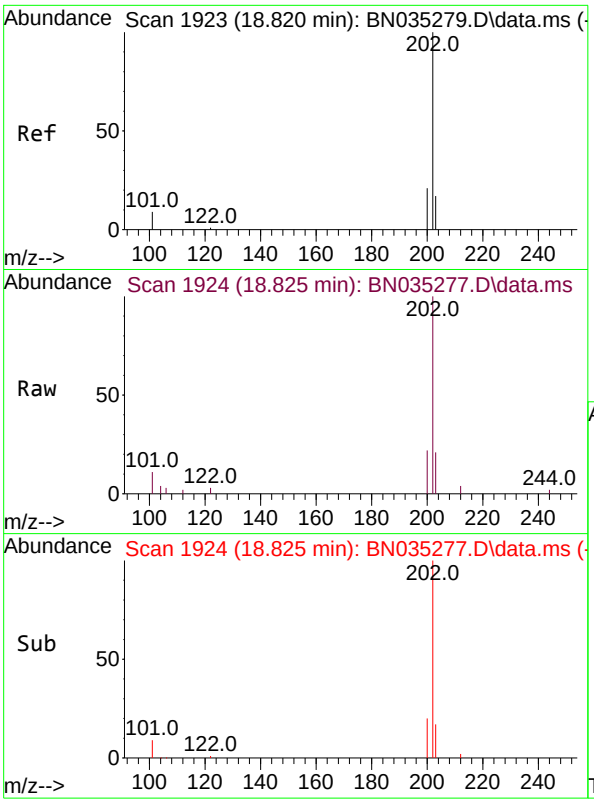


#27
Fluoranthene-d10
Concen: 0.078 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:212 Resp: 2168

Ion	Ratio	Lower	Upper
212	100		
106	12.5	9.8	14.8
104	7.1	5.6	8.4

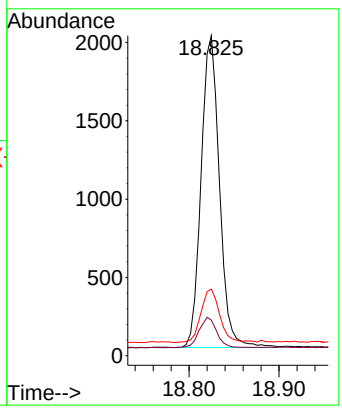




#28
Fluoranthene
Concen: 0.086 ng
RT: 18.825 min Scan# 1
Delta R.T. 0.004 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:202 Resp: 284

Ion	Ratio	Lower	Upper
202	100		
101	9.6	7.6	11.4
203	17.6	13.8	20.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

11/27/2024
Supervised By :mohammad ahmed

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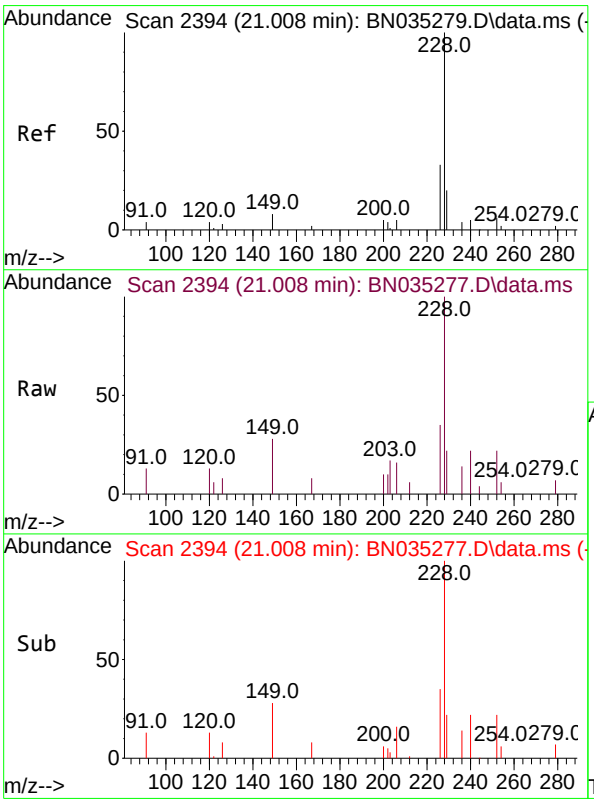
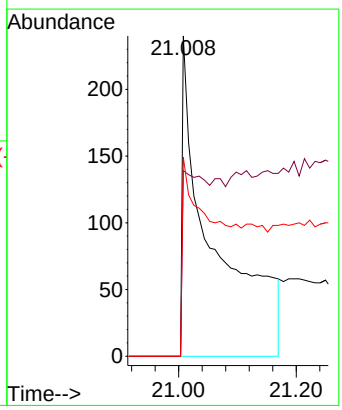
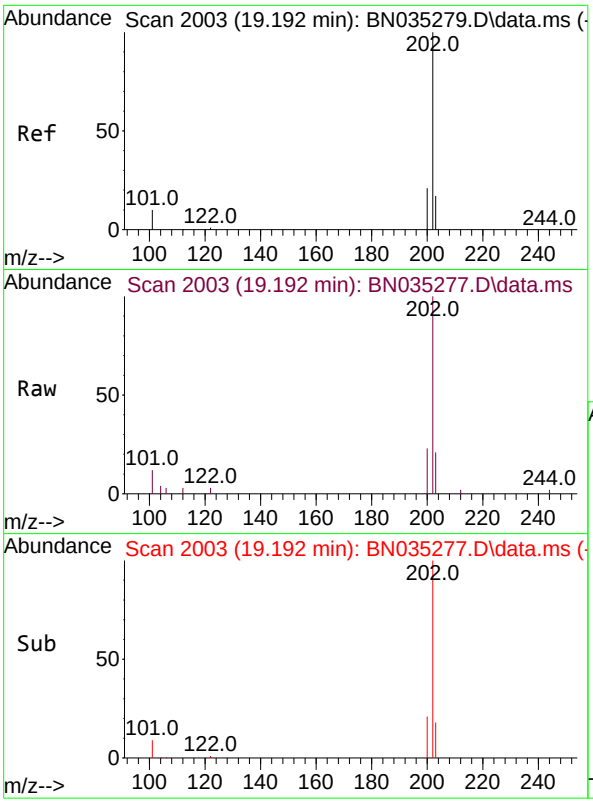


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:240 Resp: 834

Ion	Ratio	Lower	Upper
240	100		
120	57.9	54.9	82.3
236	62.1	54.0	81.0

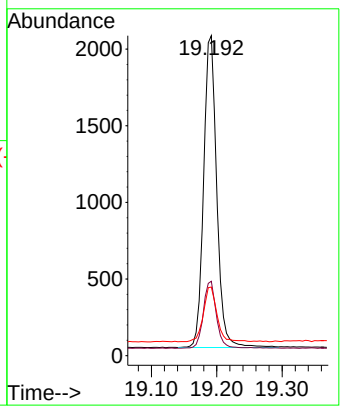




#30
Pyrene
Concen: 1.019 ng
RT: 19.192 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:202 Resp: 283

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.8	25.2
203	17.9	14.4	21.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

11/27/2024
Supervised By :mohammad ahmed

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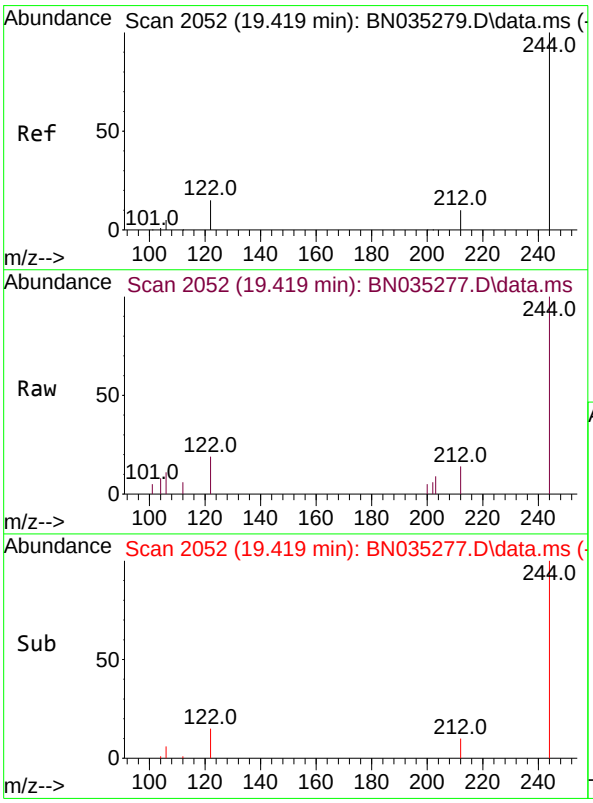
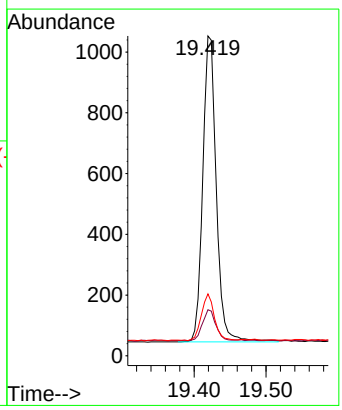
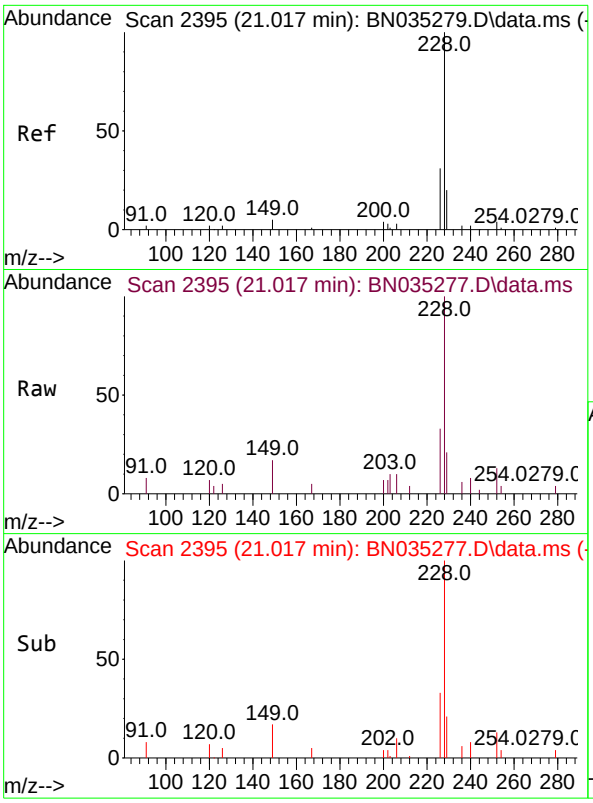


#31
Terphenyl-d14
Concen: 0.749 ng
RT: 19.419 min Scan# 2052
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:244 Resp: 1310

Ion	Ratio	Lower	Upper
244	100		
212	14.4	9.4	14.0#
122	19.4	13.0	19.4

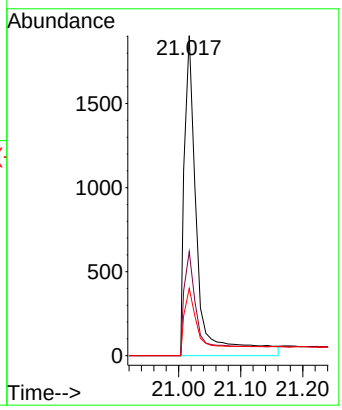




#32
Benzo(a)anthracene
Concen: 0.933 ng
RT: 21.017 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:228 Resp: 270

Ion	Ratio	Lower	Upper
228	100		
226	32.5	24.7	37.1
229	21.0	16.2	24.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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Reviewed By :Yogesh Patel

11/27/2024
Supervised By :mohammad ahmed

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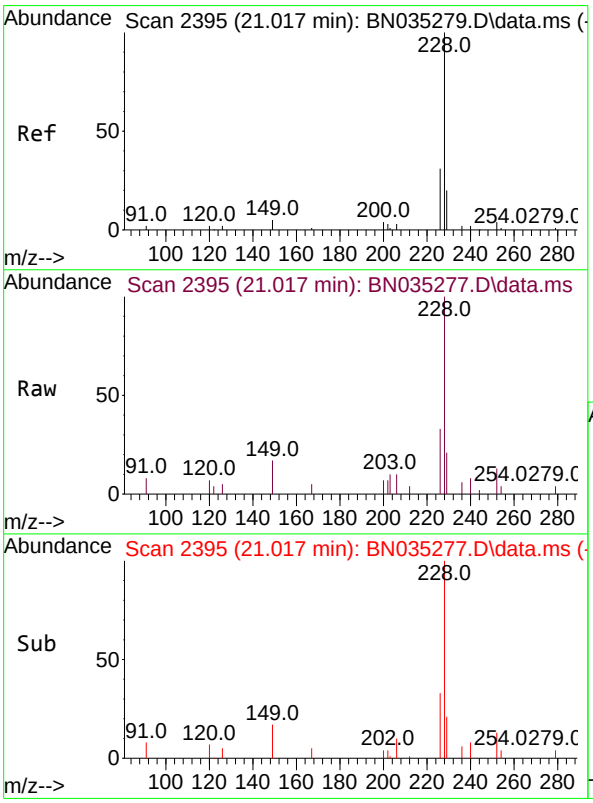
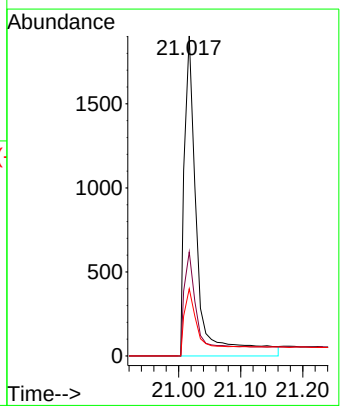
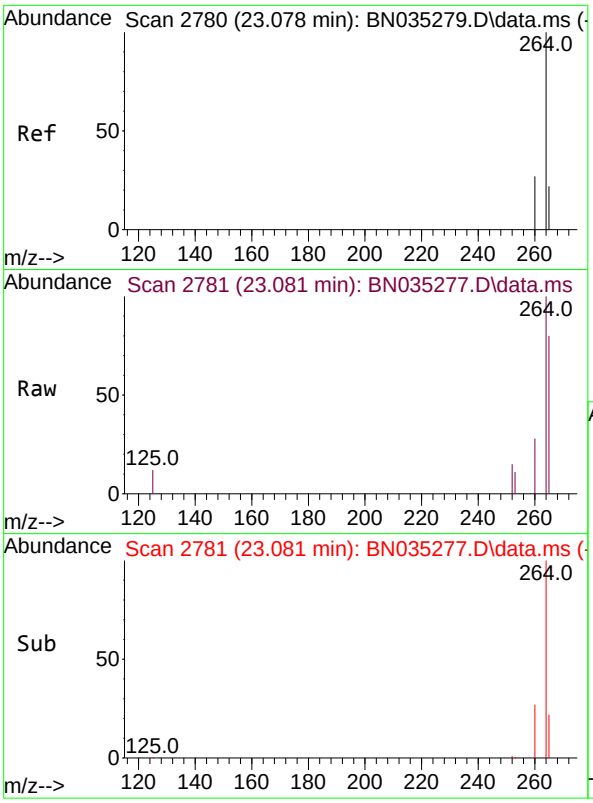


#33
Chrysene
Concen: 0.942 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:228 Resp: 2709

Ion	Ratio	Lower	Upper
228	100		
226	32.5	24.7	37.1
229	21.0	16.2	24.2

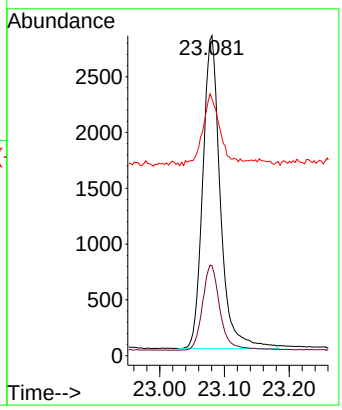




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:264 Resp: 529

Ion	Ratio	Lower	Upper
264	100		
260	28.1	22.3	33.5
265	80.3	68.6	103.0



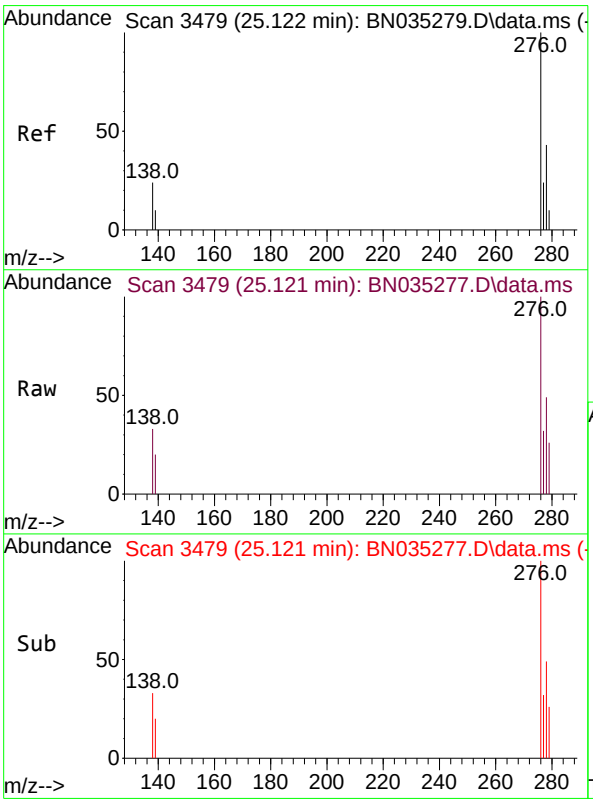
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

11/27/2024
Supervised By :mohammad ahmed

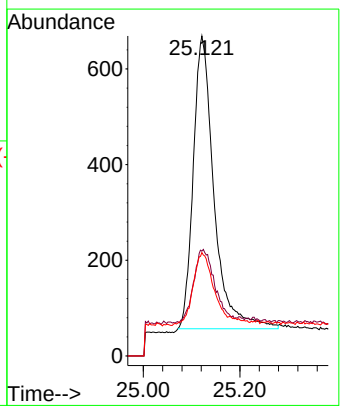
11/27/2024

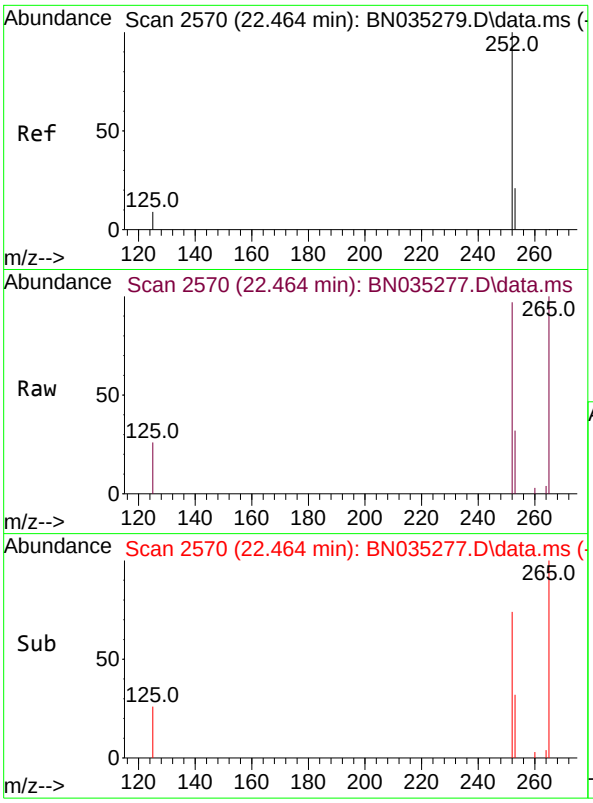


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.086 ng
RT: 25.121 min Scan# 3479
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:276 Resp: 1824

Ion	Ratio	Lower	Upper
276	100		
138	21.8	18.8	28.2
277	22.8	18.2	27.4

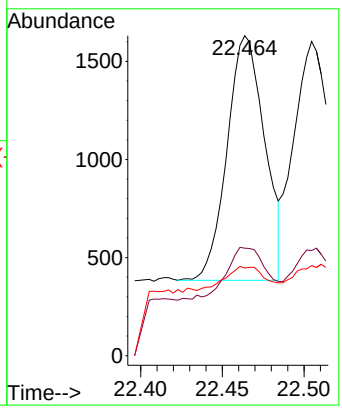




#37
Benzo(b)fluoranthene
Concen: 0.112 ng
RT: 22.464 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:252 Resp: 199

Ion	Ratio	Lower	Upper
252	100		
253	33.6	20.2	30.2#
125	27.4	12.0	18.0#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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Supervised By :mohammad ahmed

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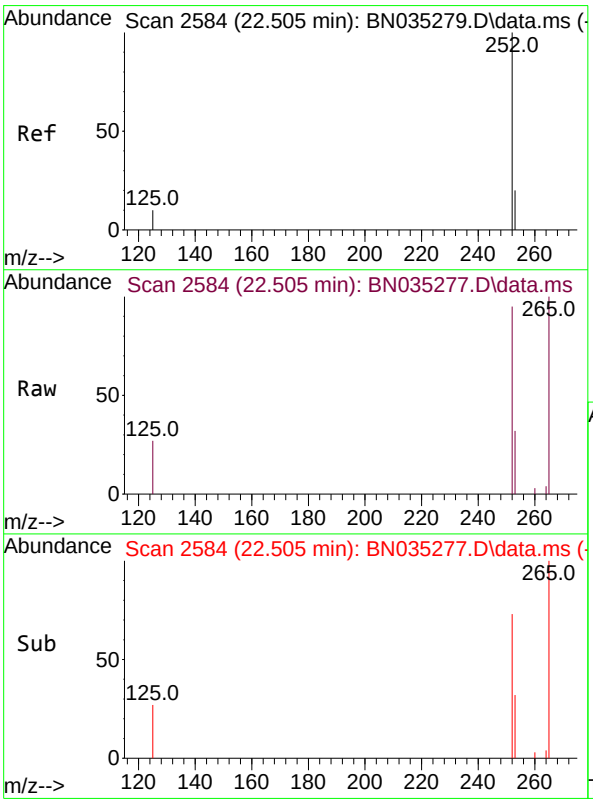
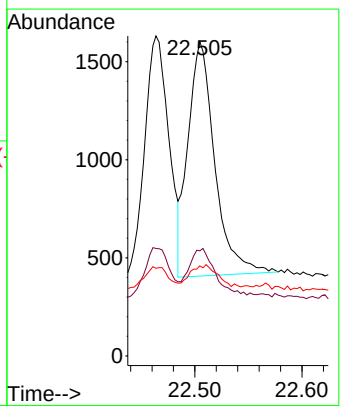
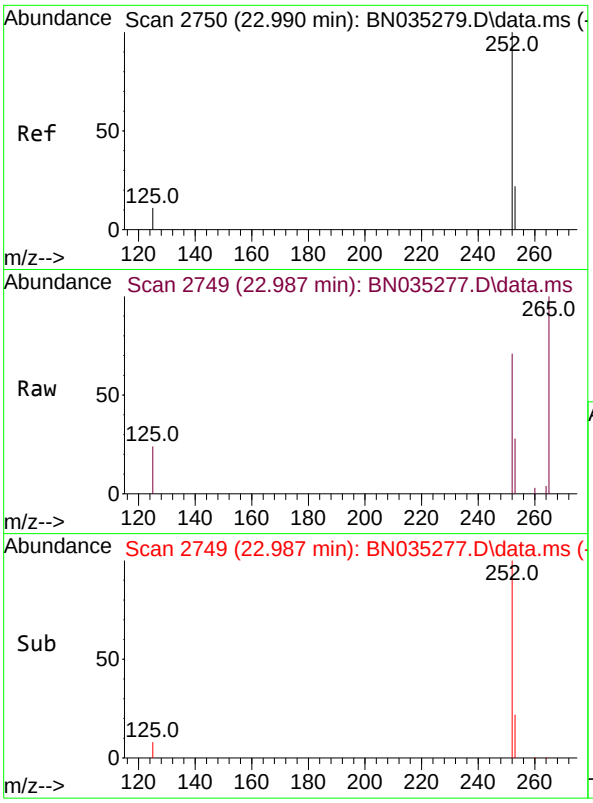


#38
Benzo(k)fluoranthene
Concen: 0.116 ng
RT: 22.505 min Scan# 2584
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:252 Resp: 2076

Ion	Ratio	Lower	Upper
252	100		
253	33.5	20.1	30.1#
125	28.7	12.7	19.1#

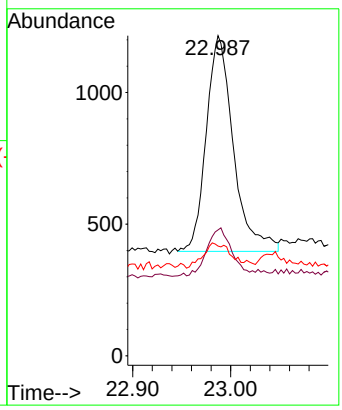




#39
Benzo(a)pyrene
Concen: 0.101 ng
RT: 22.987 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:252 Resp: 157

Ion	Ratio	Lower	Upper
252	100		
253	39.3	22.3	33.5#
125	34.3	15.3	22.9#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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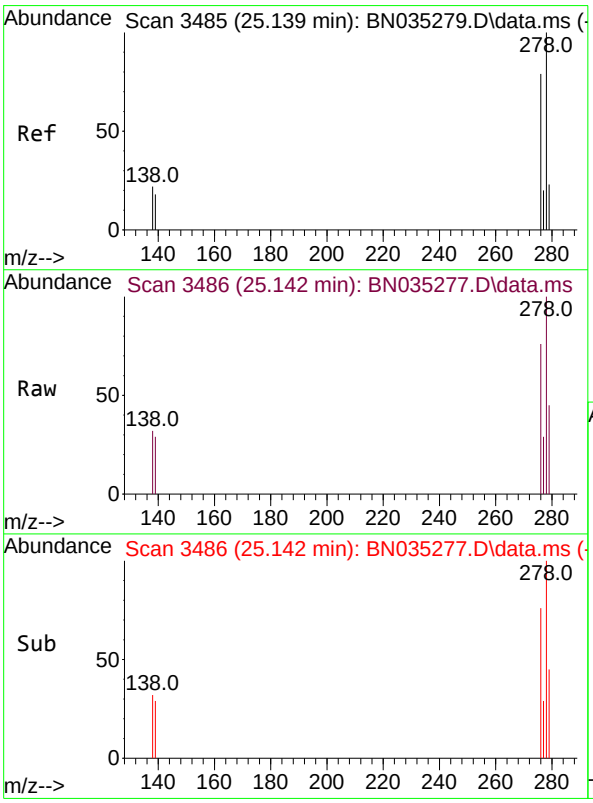
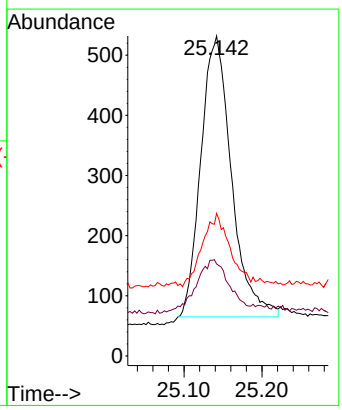
11/27/2024

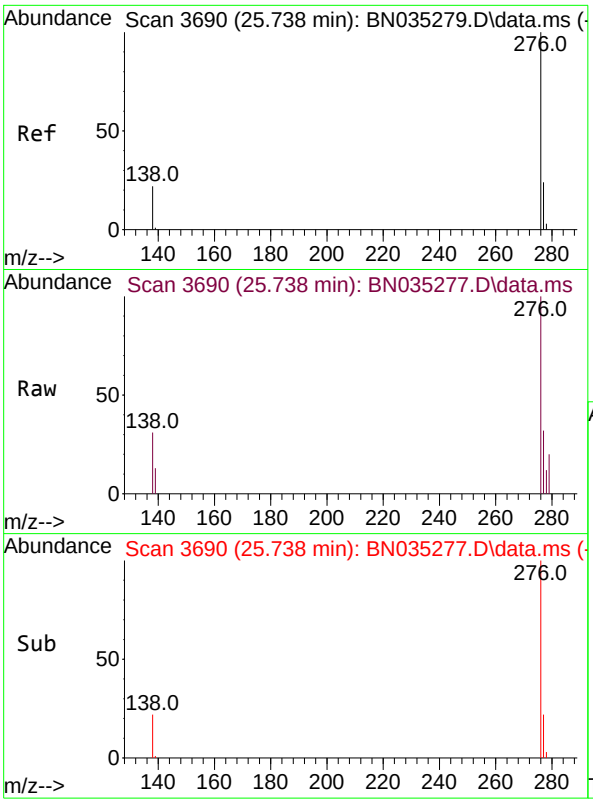


#40
Dibenzo(a,h)anthracene
Concen: 0.076 ng
RT: 25.142 min Scan# 3486
Delta R.T. 0.003 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:278 Resp: 1273

Ion	Ratio	Lower	Upper
278	100		
139	28.8	17.0	25.6#
279	44.5	23.0	34.4#

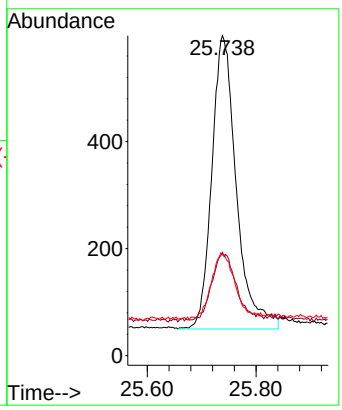




#41
Benzo(g,h,i)perylene
Concen: 0.096 ng
RT: 25.738 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:276 Resp: 171

Ion	Ratio	Lower	Upper
276	100		
277	32.3	21.1	31.7#
138	31.4	19.8	29.8#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

11/27/2024
Supervised By :mohammad ahmed

11/27/2024

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035278.D
Acq On : 25 Nov 2024 10:52
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 25 14:18:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.315	152	2248	0.400	ng		0.00
7) Naphthalene-d8	10.063	136	5670	0.400	ng		0.00
13) Acenaphthene-d10	13.976	164	3200	0.400	ng		0.00
19) Phenanthrene-d10	16.734	188	7531	0.400	ng		0.00
29) Chrysene-d12	21.008	240	797	0.400	ng		0.00
35) Perylene-d12	23.084	264	4527	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.975	112	891	0.156	ng		0.00
5) Phenol-d6	6.520	99	1264	0.177	ng		0.00
8) Nitrobenzene-d5	8.450	82	771m	0.156	ng		0.00
11) 2-Methylnaphthalene-d10	11.666	152	1506	0.149	ng		0.00
14) 2,4,6-Tribromophenol	15.484	330	279	0.121	ng		0.00
15) 2-Fluorobiphenyl	12.608	172	679	0.052	ng		0.00
27) Fluoranthene-d10	18.792	212	3625	0.157	ng		0.00
31) Terphenyl-d14	19.424	244	2197	1.314	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	310	0.152	ng	#	75
3) n-Nitrosodimethylamine	3.299	42	314	0.165	ng	#	82
6) bis(2-Chloroethyl)ether	6.766	93	978	0.182	ng		98
9) Naphthalene	10.116	128	2990	0.202	ng		96
10) Hexachlorobutadiene	10.415	225	818	0.189	ng	#	98
12) 2-Methylnaphthalene	11.742	142	1929	0.177	ng		97
16) Acenaphthylene	13.688	152	2991	0.219	ng		99
17) Acenaphthene	14.040	154	1852	0.207	ng		97
18) Fluorene	15.035	166	2587	0.196	ng		98
20) 4,6-Dinitro-2-methylph...	15.131	198	102	0.065	ng	#	49
21) 4-Bromophenyl-phenylether	15.952	248	888	0.185	ng	#	70
22) Hexachlorobenzene	16.051	284	1264	0.254	ng		98
23) Atrazine	16.237	200	357	0.083	ng		92
24) Pentachlorophenol	16.399	266	252	0.108	ng		97
25) Phenanthrene	16.783	178	4155	0.210	ng		100
26) Anthracene	16.870	178	3384	0.186	ng		99
28) Fluoranthene	18.825	202	4828	0.177	ng		100
30) Pyrene	19.192	202	4697	1.770	ng		99
32) Benzo(a)anthracene	21.017	228	4459	1.607	ng		99
33) Chrysene	21.017	228	4459	1.622	ng		99
34) Bis(2-ethylhexyl)phtha...	21.017	149	696	0.478	ng	#	92
36) Indeno(1,2,3-cd)pyrene	25.121	276	3191	0.177	ng		99
37) Benzo(b)fluoranthene	22.467	252	3513	0.231	ng	#	90
38) Benzo(k)fluoranthene	22.505	252	3588	0.235	ng	#	90
39) Benzo(a)pyrene	22.990	252	2673	0.199	ng	#	87
40) Dibenzo(a,h)anthracene	25.142	278	2328	0.163	ng	#	90
41) Benzo(g,h,i)perylene	25.741	276	2967	0.195	ng		95

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

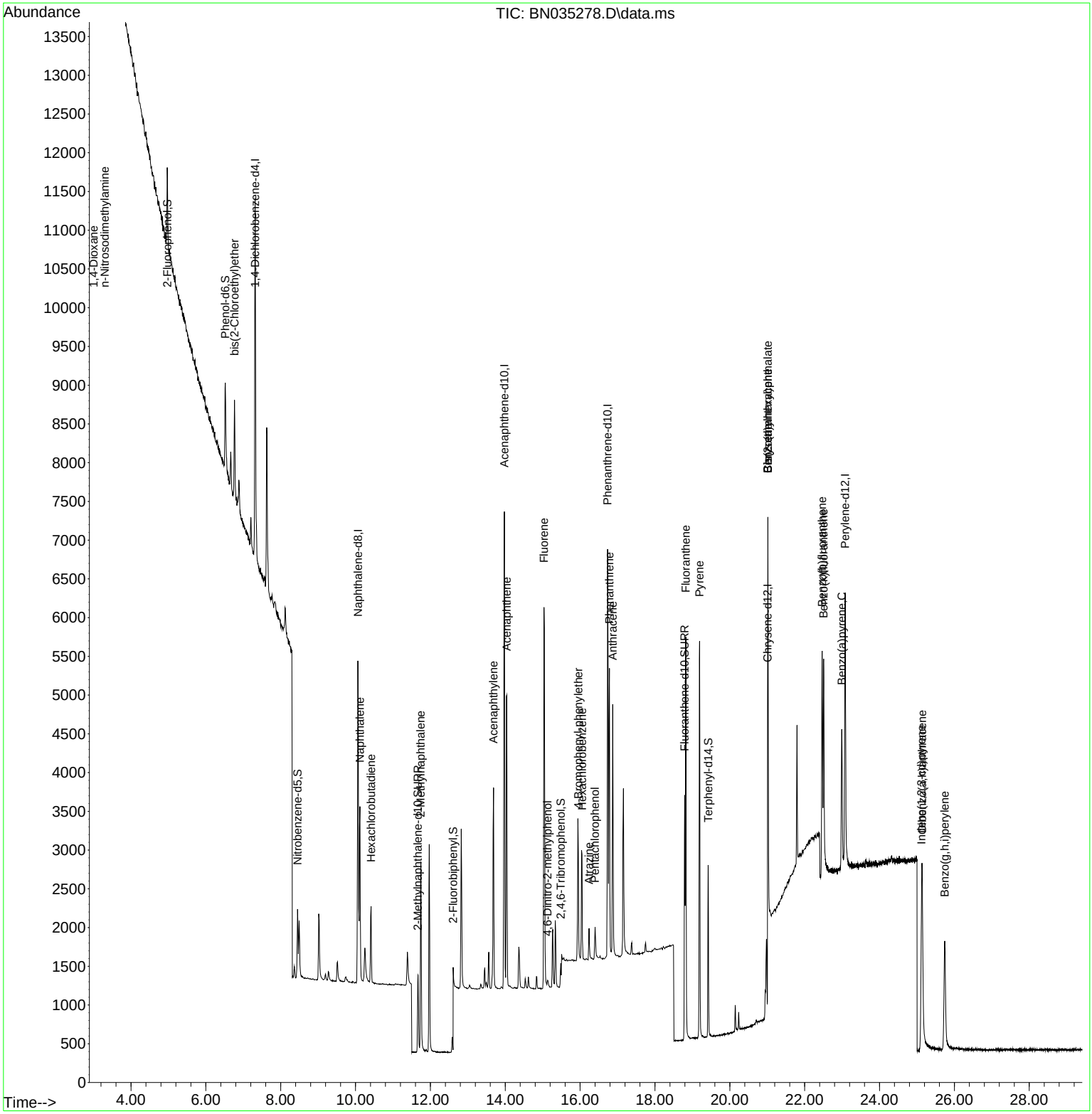
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035278.D
Acq On : 25 Nov 2024 10:52
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 53 Sample Multiplier: 1

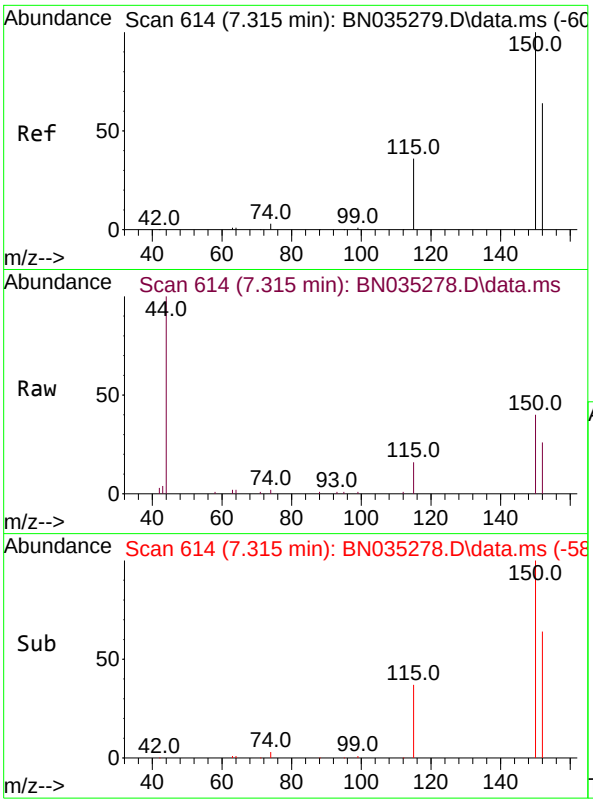
Quant Time: Nov 25 14:18:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

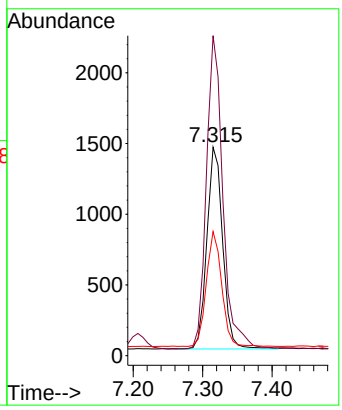




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:152 Resp: 224

Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.5	186.7
115	59.6	47.8	71.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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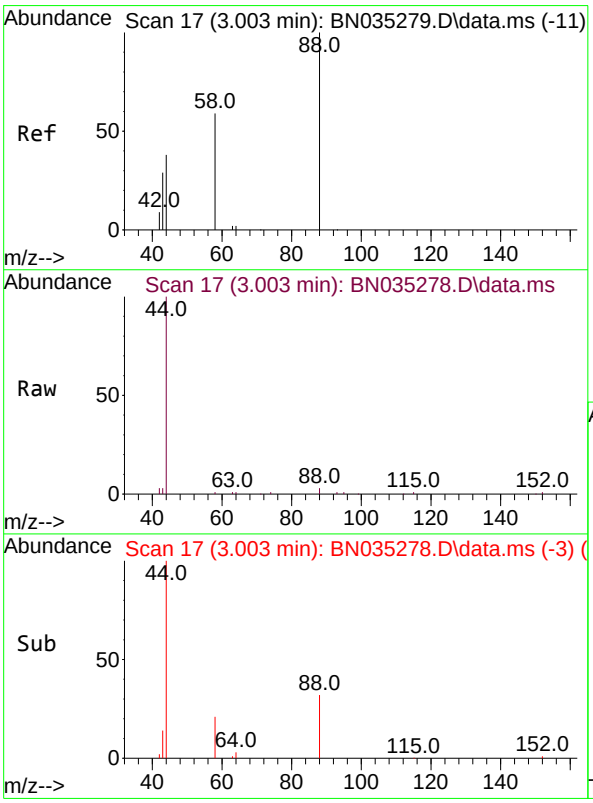
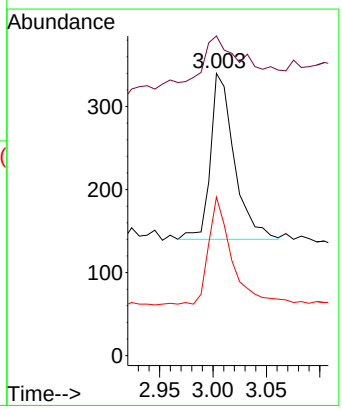
Supervised By :mohammad ahmed 11/27/2024

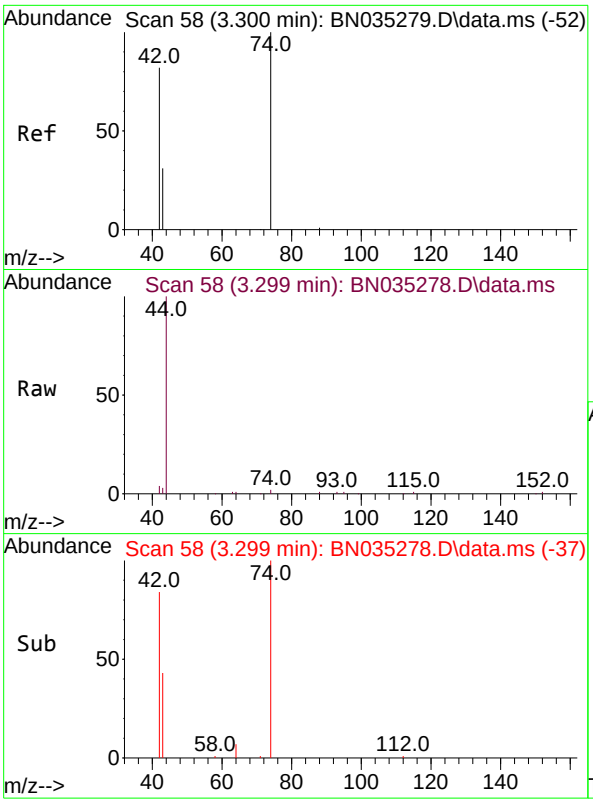


#2
1,4-Dioxane
Concen: 0.152 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion: 88 Resp: 310

Ion	Ratio	Lower	Upper
88	100		
43	91.0	48.1	72.1#
58	65.5	46.9	70.3

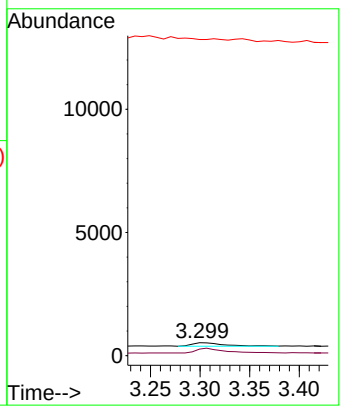




#3
n-Nitrosodimethylamine
Concen: 0.165 ng
RT: 3.299 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion: 42 Resp: 31

Ion	Ratio	Lower	Upper
42	100		
74	125.8	102.7	154.1
44	0.0	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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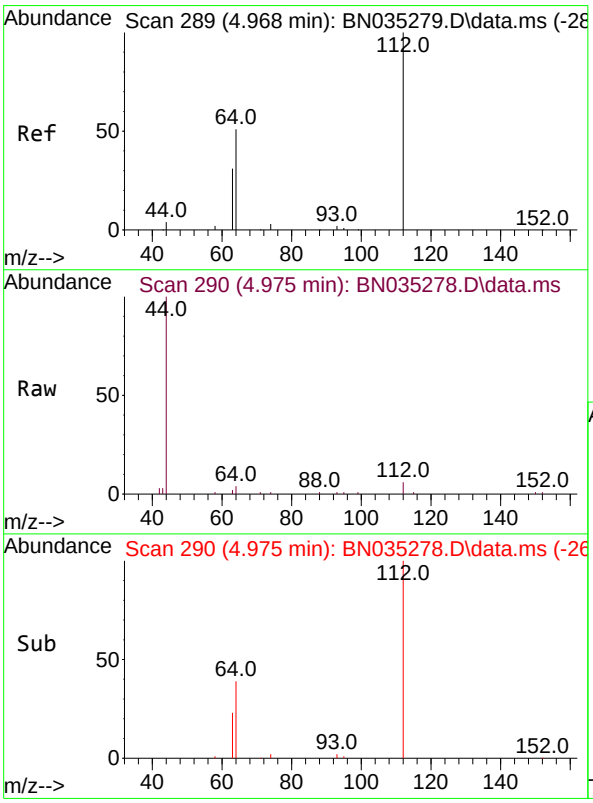
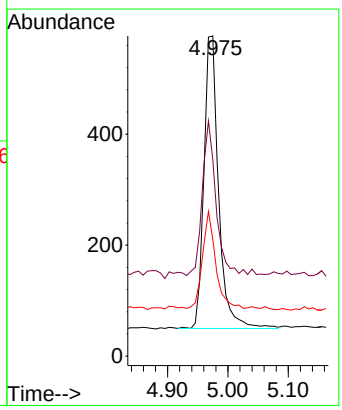
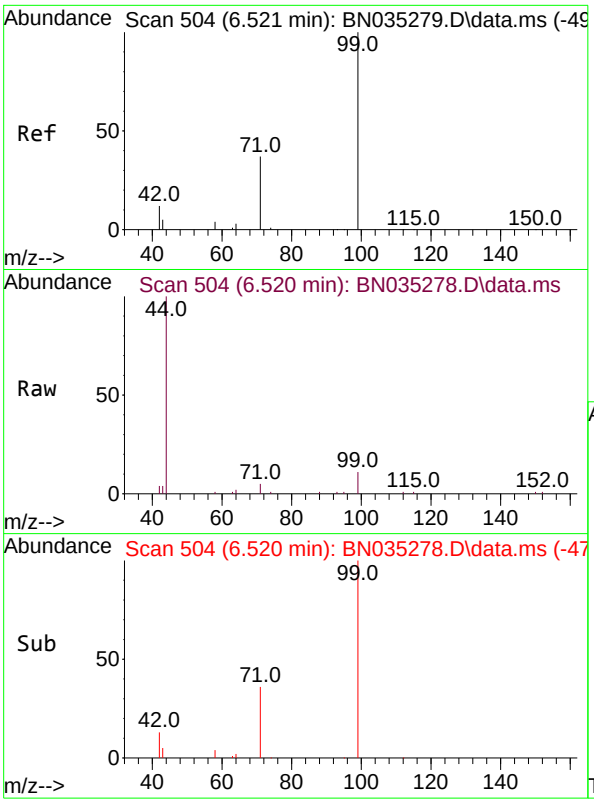


#4
2-Fluorophenol
Concen: 0.156 ng
RT: 4.975 min Scan# 290
Delta R.T. 0.007 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:112 Resp: 891

Ion	Ratio	Lower	Upper
112	100		
64	50.3	40.4	60.6
63	29.5	23.8	35.8

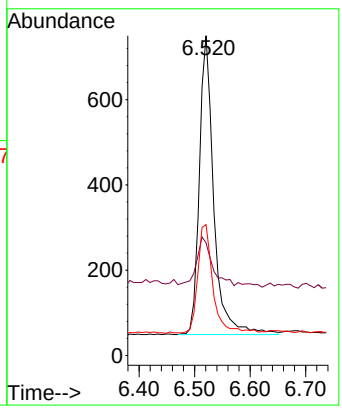




#5
Phenol-d6
Concen: 0.177 ng
RT: 6.520 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion: 99 Resp: 126

Ion	Ratio	Lower	Upper
99	100		
42	20.3	12.8	19.2
71	37.8	31.4	47.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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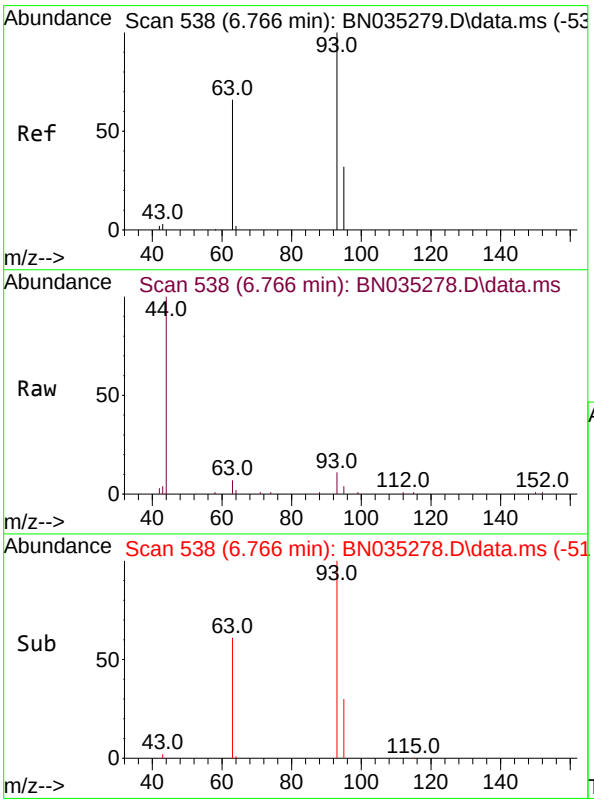
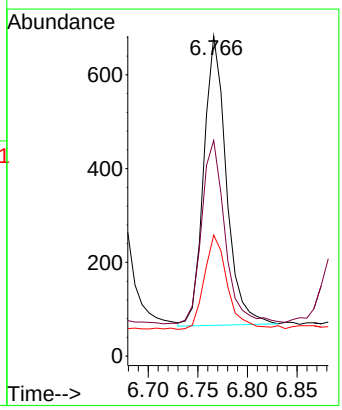
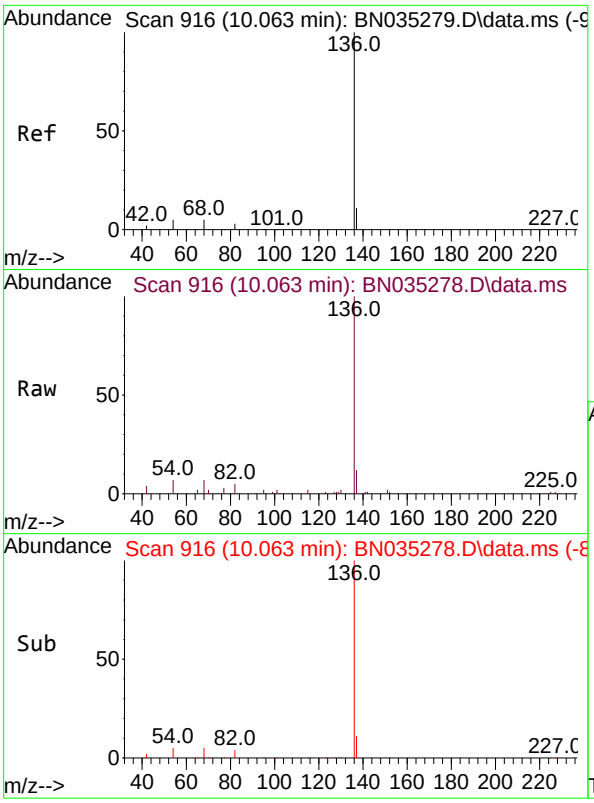


#6
bis(2-Chloroethyl)ether
Concen: 0.182 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion: 93 Resp: 978

Ion	Ratio	Lower	Upper
93	100		
63	66.0	52.3	78.5
95	33.7	25.5	38.3

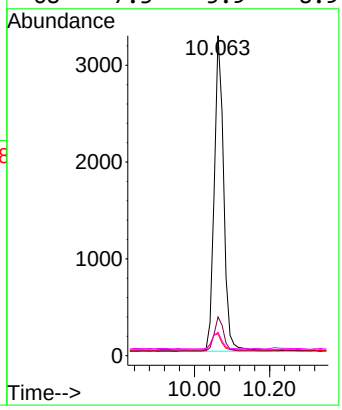




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:136 Resp: 567

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	6.8	5.3	7.9
68	7.3	5.9	8.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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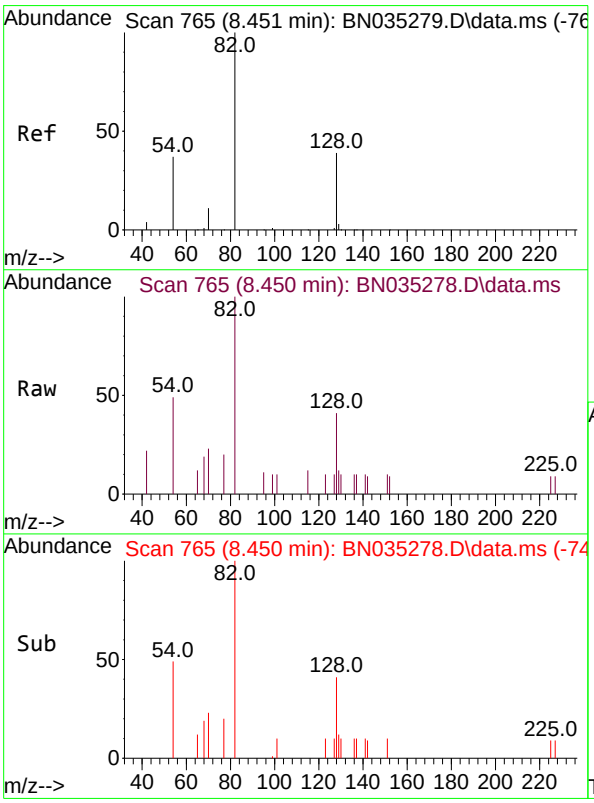
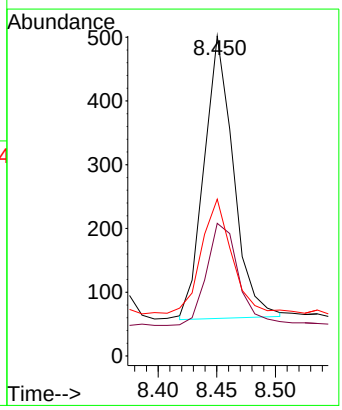
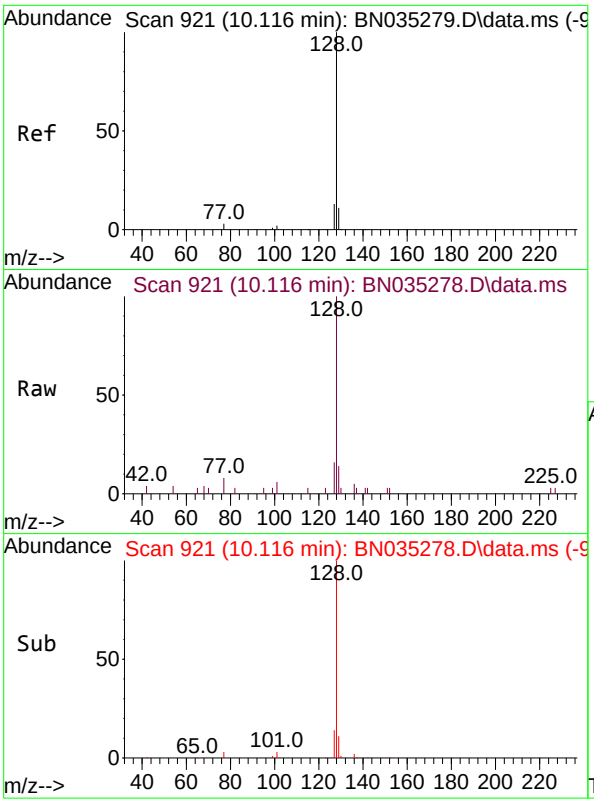


#8
Nitrobenzene-d5
Concen: 0.156 ng m
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion: 82 Resp: 771

Ion	Ratio	Lower	Upper
82	100		
128	41.4	33.0	49.4
54	49.0	33.3	49.9

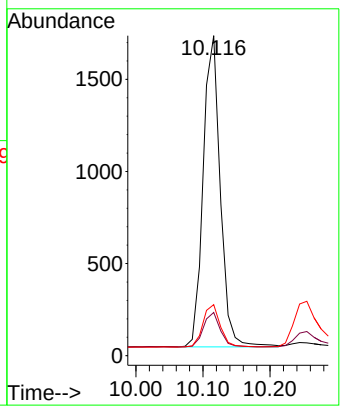




#9
Naphthalene
Concen: 0.202 ng
RT: 10.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:128 Resp: 299

Ion	Ratio	Lower	Upper
128	100		
129	13.5	9.6	14.4
127	15.9	11.3	16.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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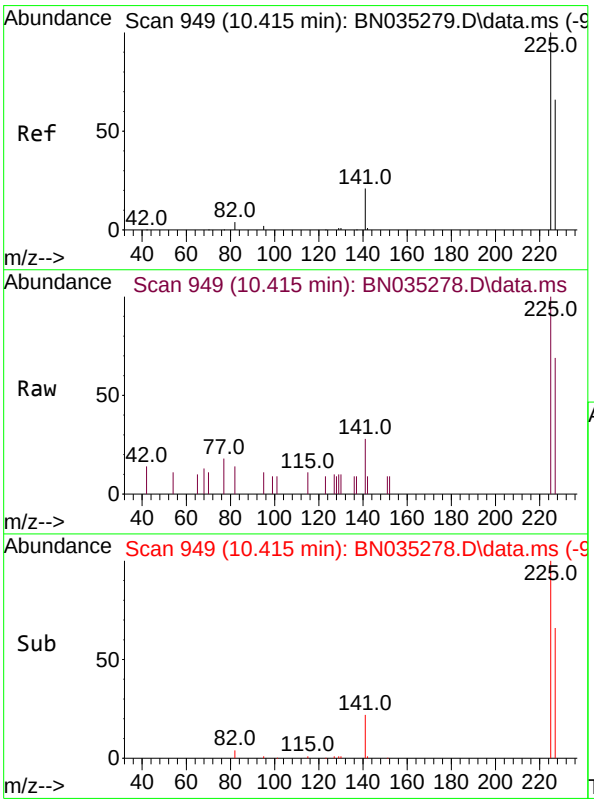
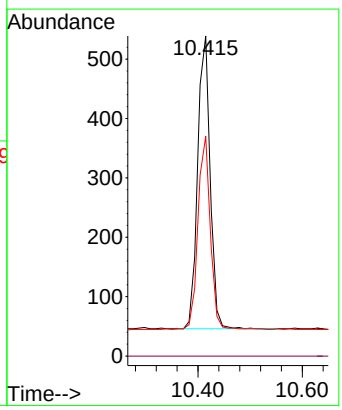
Supervised By :mohammad ahmed 11/27/2024

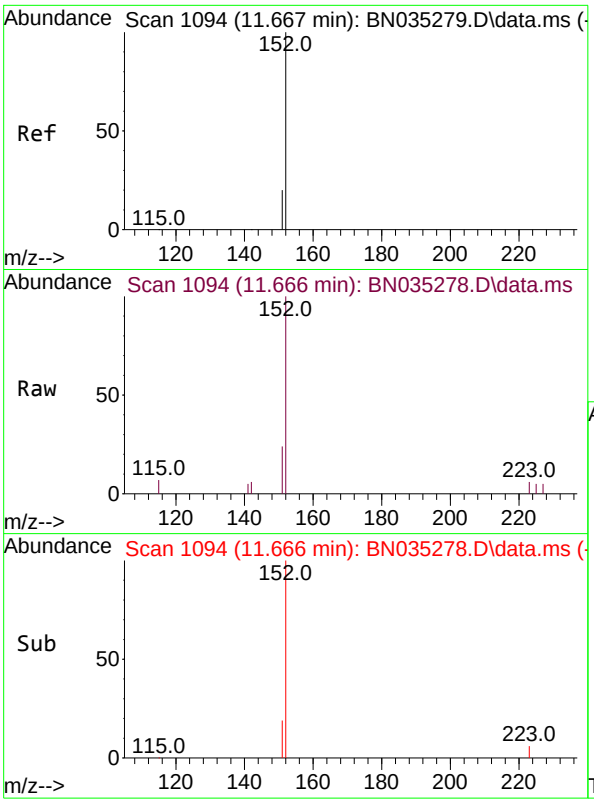


#10
Hexachlorobutadiene
Concen: 0.189 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:225 Resp: 818

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	51.3	76.9

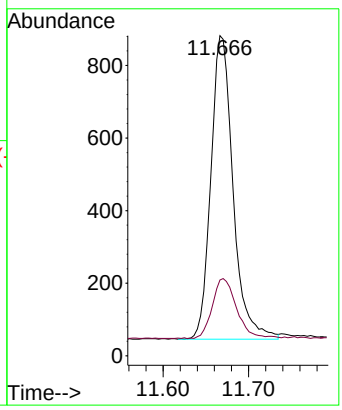




#11
2-Methylnaphthalene-d10
Concen: 0.149 ng
RT: 11.666 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:152 Resp: 150(

Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.2	25.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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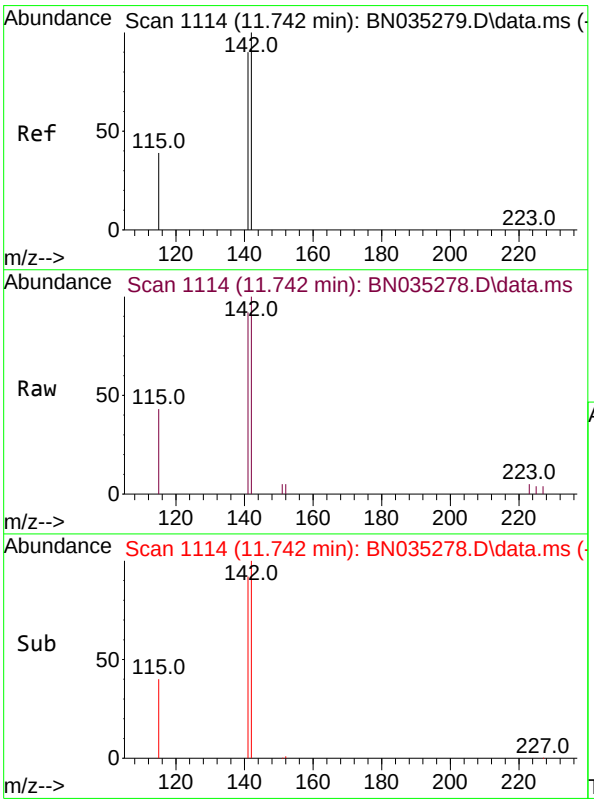
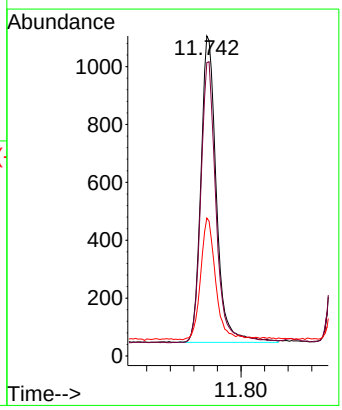
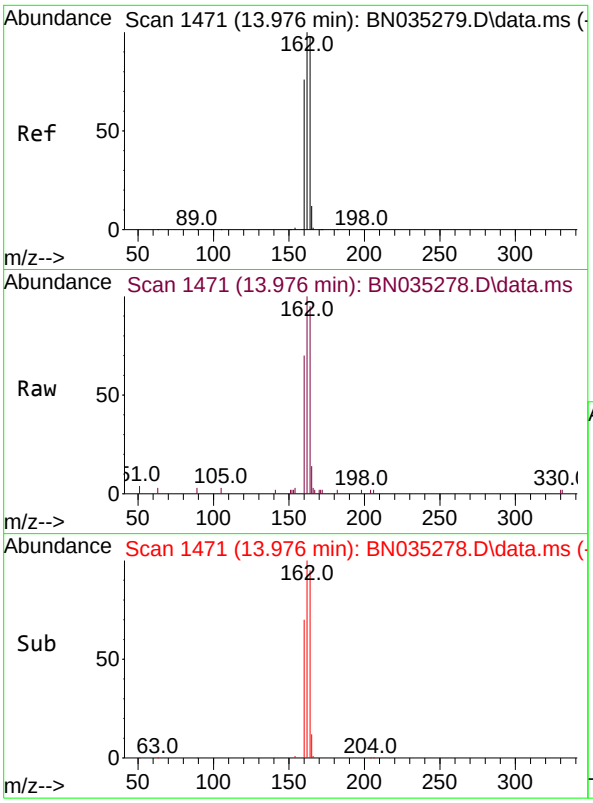


#12
2-Methylnaphthalene
Concen: 0.177 ng
RT: 11.742 min Scan# 1114
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:142 Resp: 1929

Ion	Ratio	Lower	Upper
142	100		
141	91.7	71.8	107.8
115	43.1	32.6	49.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:164 Resp: 320

Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.0	123.0
160	74.2	63.0	94.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
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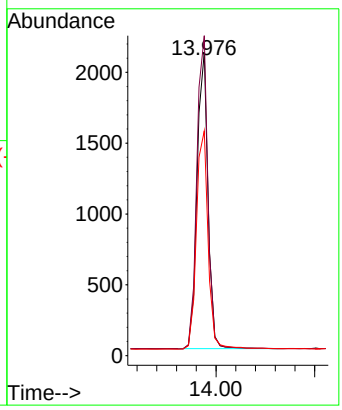
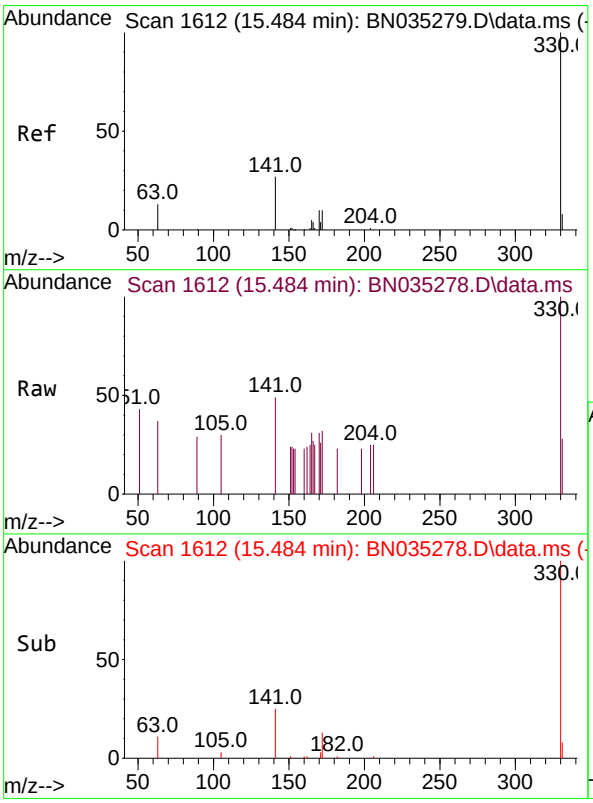
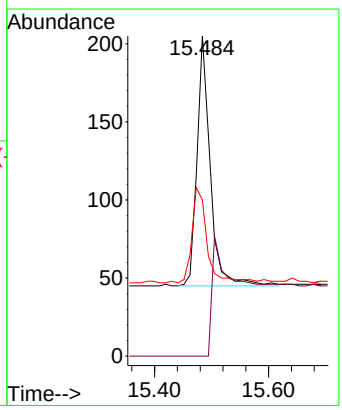


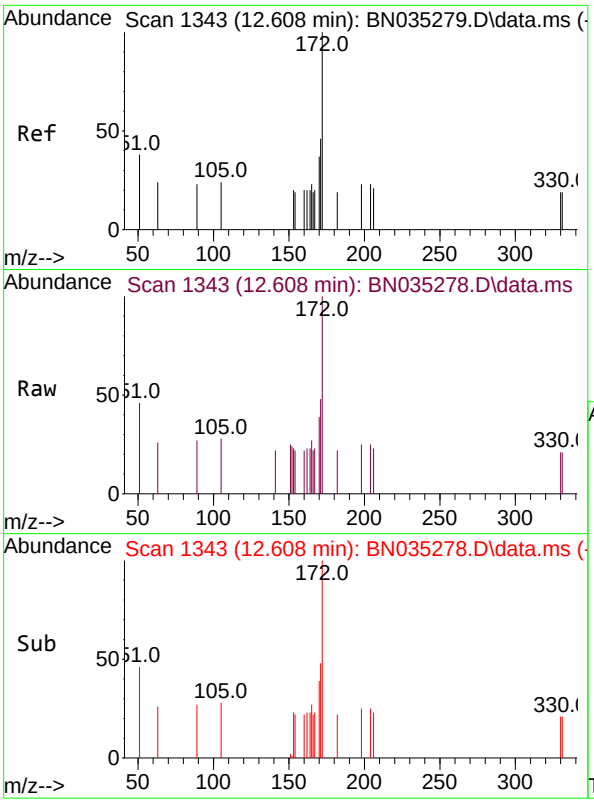


#14
2,4,6-Tribromophenol
Concen: 0.121 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:330 Resp: 279

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	43.4	32.4	48.6

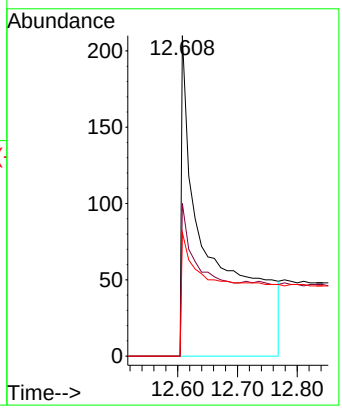




#15
2-Fluorobiphenyl
Concen: 0.052 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:172 Resp: 67

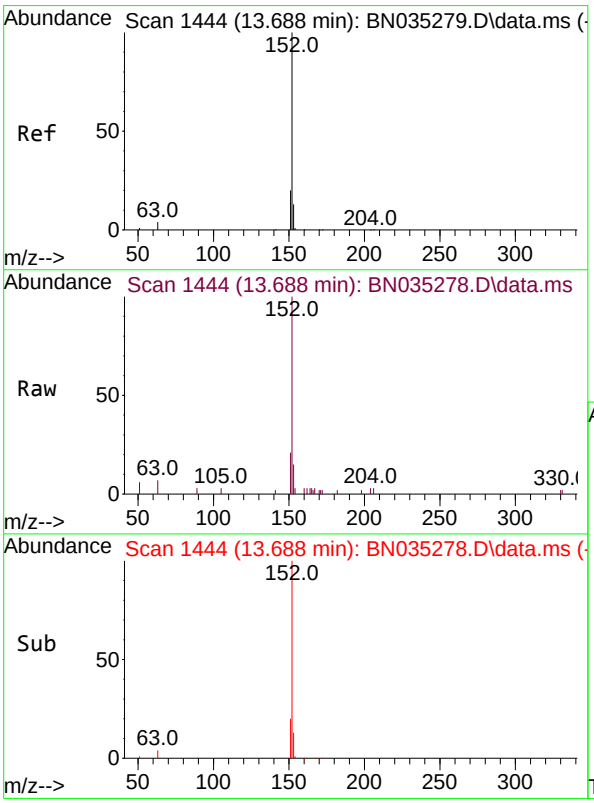
Ion	Ratio	Lower	Upper
172	100		
171	47.6	36.6	55.0
170	38.6	29.7	44.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

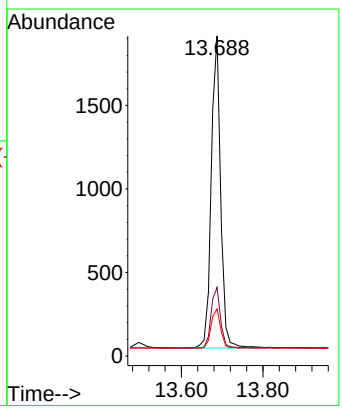
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

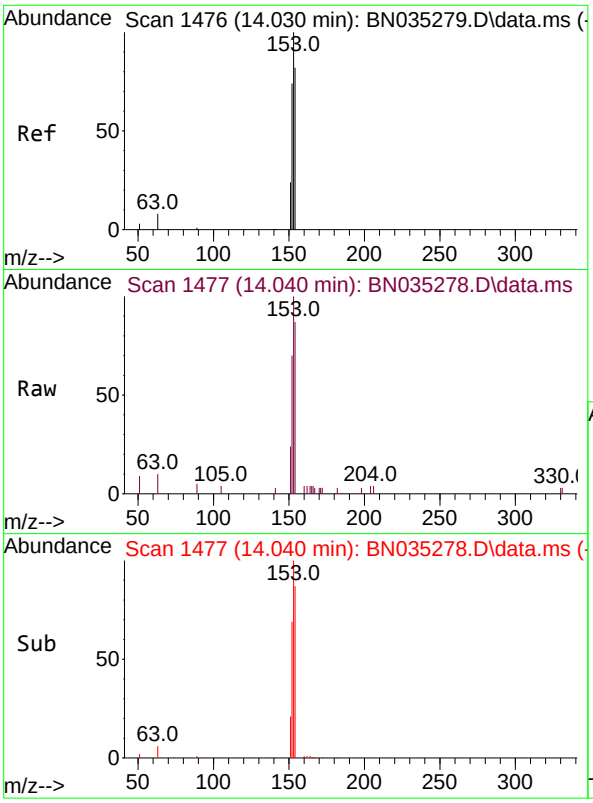


#16
Acenaphthylene
Concen: 0.219 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:152 Resp: 2991

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.9	23.9
153	12.9	10.2	15.4

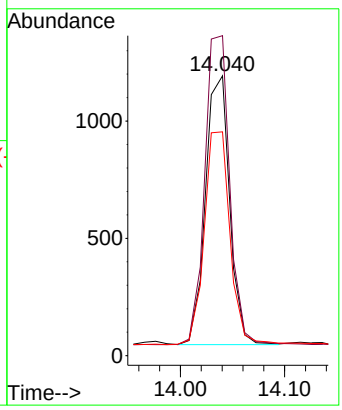




#17
Acenaphthene
Concen: 0.207 ng
RT: 14.040 min Scan# 14
Delta R.T. 0.010 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:154 Resp: 185

Ion	Ratio	Lower	Upper
154	100		
153	119.7	96.1	144.1
152	84.6	72.2	108.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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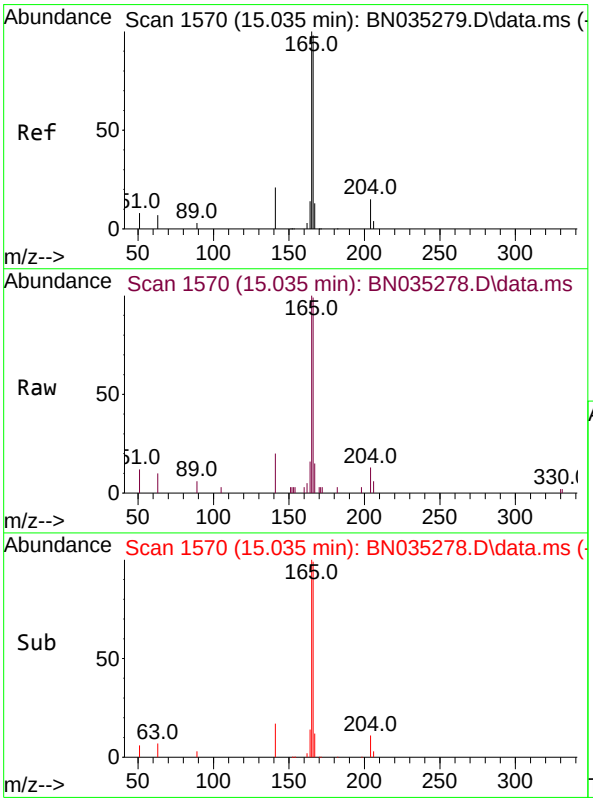
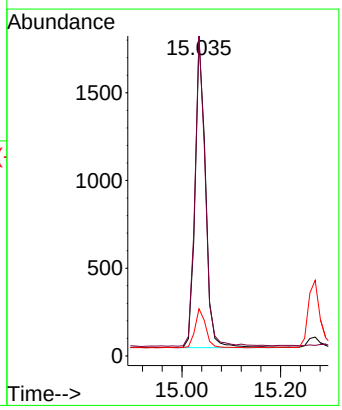
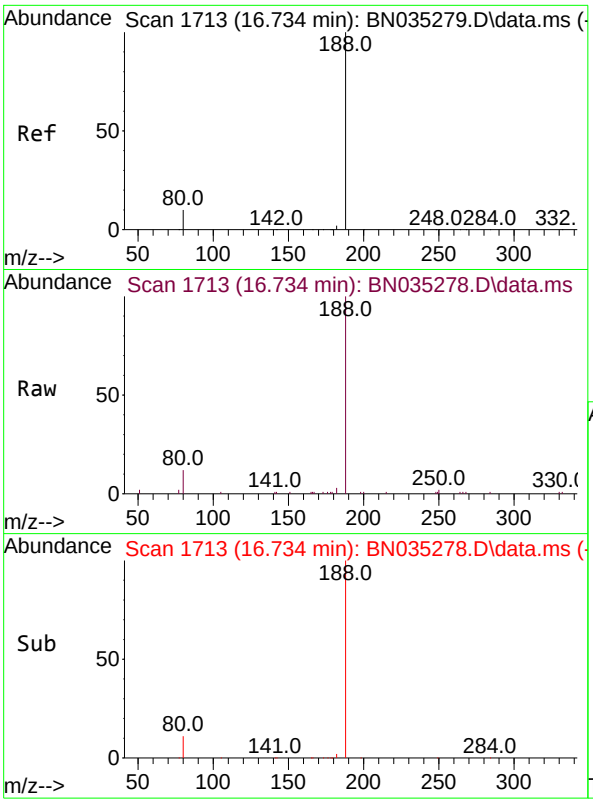


#18
Fluorene
Concen: 0.196 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:166 Resp: 2587

Ion	Ratio	Lower	Upper
166	100		
165	99.7	81.2	121.8
167	13.2	10.5	15.7

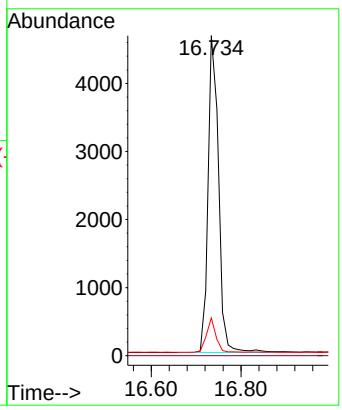




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:188 Resp: 753

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.9	13.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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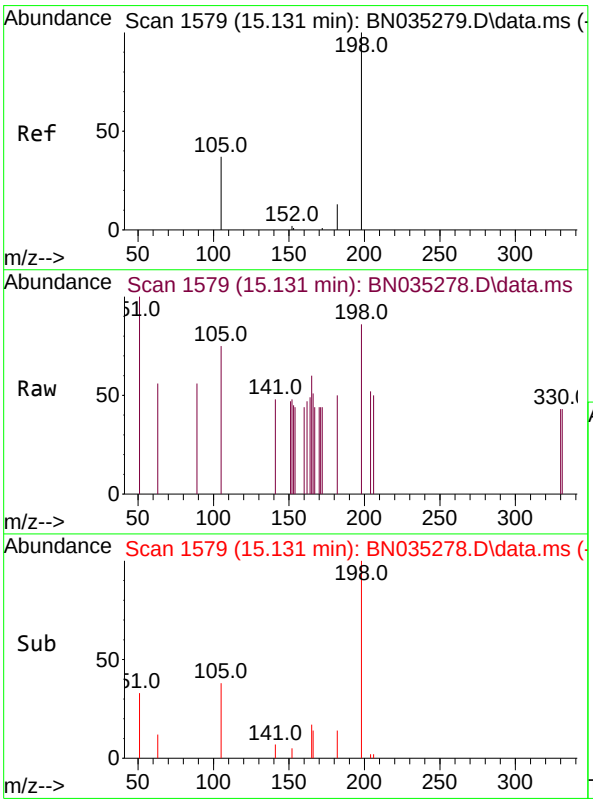
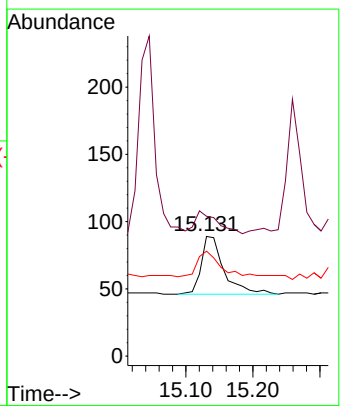
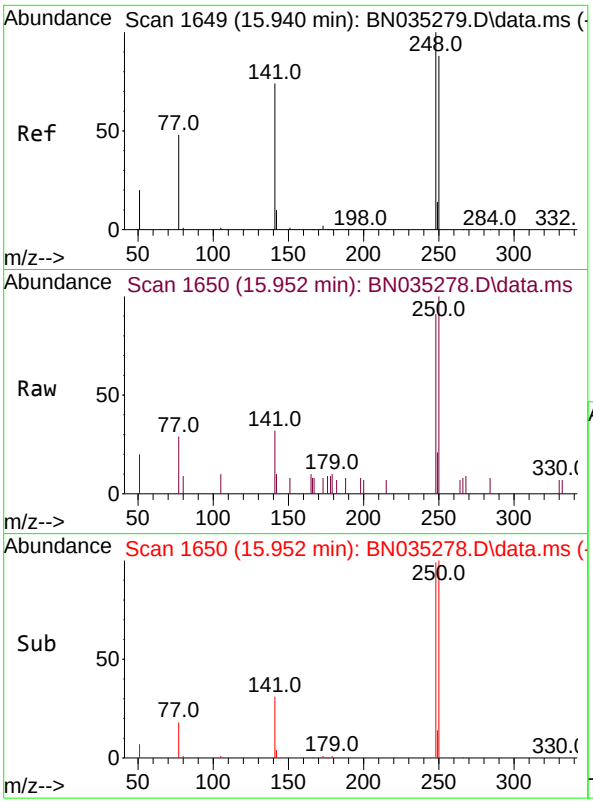


#20
4,6-Dinitro-2-methylphenol
Concen: 0.065 ng
RT: 15.131 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:198 Resp: 102

Ion	Ratio	Lower	Upper
198	100		
51	116.9	53.6	80.4#
105	87.6	47.4	71.2#

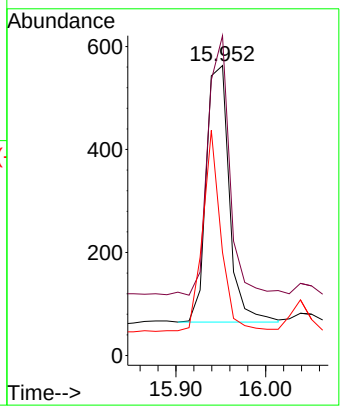




#21
4-Bromophenyl-phenylether
Concen: 0.185 ng
RT: 15.952 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:248 Resp: 88

Ion	Ratio	Lower	Upper
248	100		
250	110.3	74.8	112.2
141	35.5	59.0	88.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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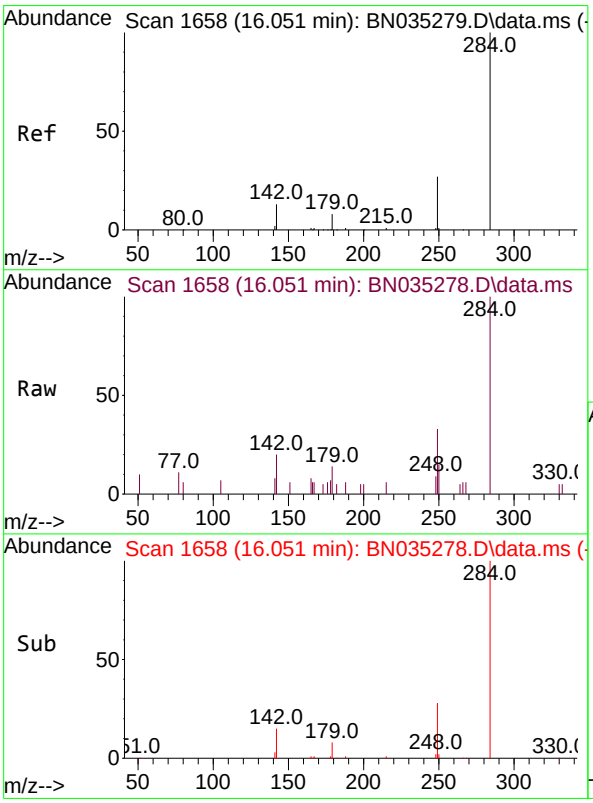
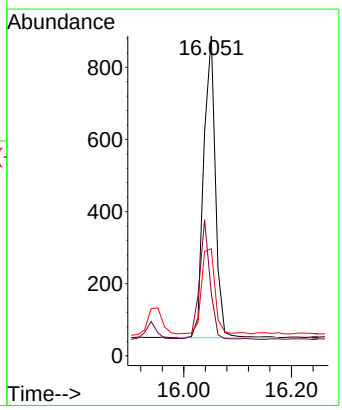
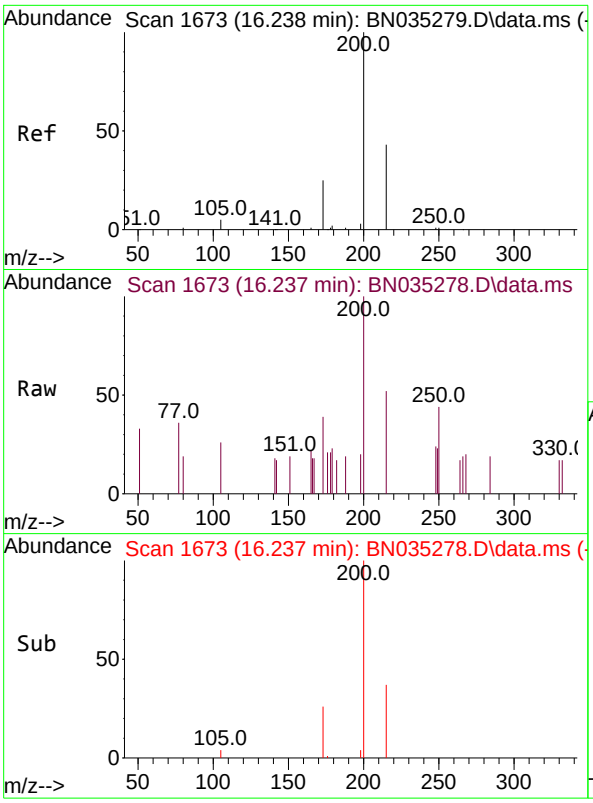


#22
Hexachlorobenzene
Concen: 0.254 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:284 Resp: 1264

Ion	Ratio	Lower	Upper
284	100		
142	35.2	28.7	43.1
249	33.8	25.4	38.0

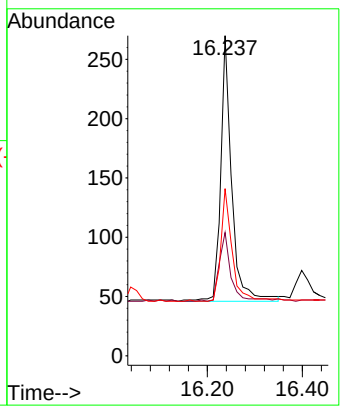




#23
Atrazine
Concen: 0.083 ng
RT: 16.237 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:200 Resp: 35

Ion	Ratio	Lower	Upper
200	100		
173	38.5	25.8	38.8
215	52.2	38.6	58.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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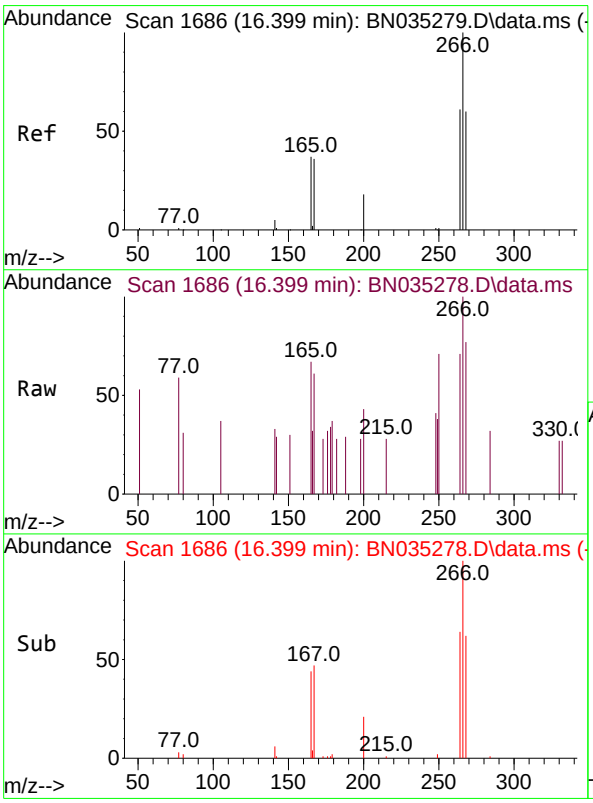
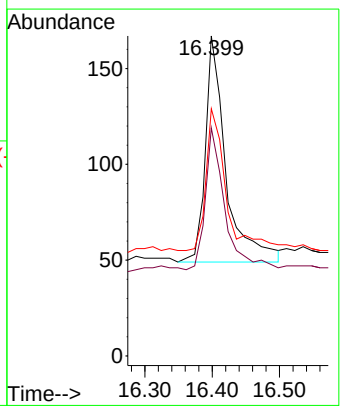
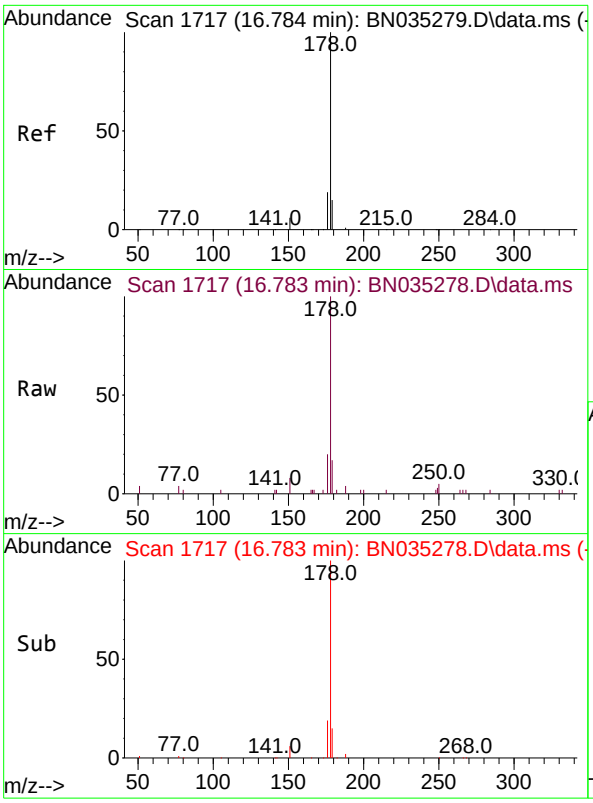


#24
Pentachlorophenol
Concen: 0.108 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:266 Resp: 252

Ion	Ratio	Lower	Upper
266	100		
264	59.1	49.3	73.9
268	63.1	48.6	73.0

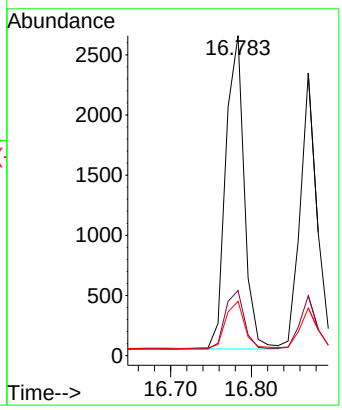




#25
Phenanthrene
Concen: 0.210 ng
RT: 16.783 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:178 Resp: 415

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.5	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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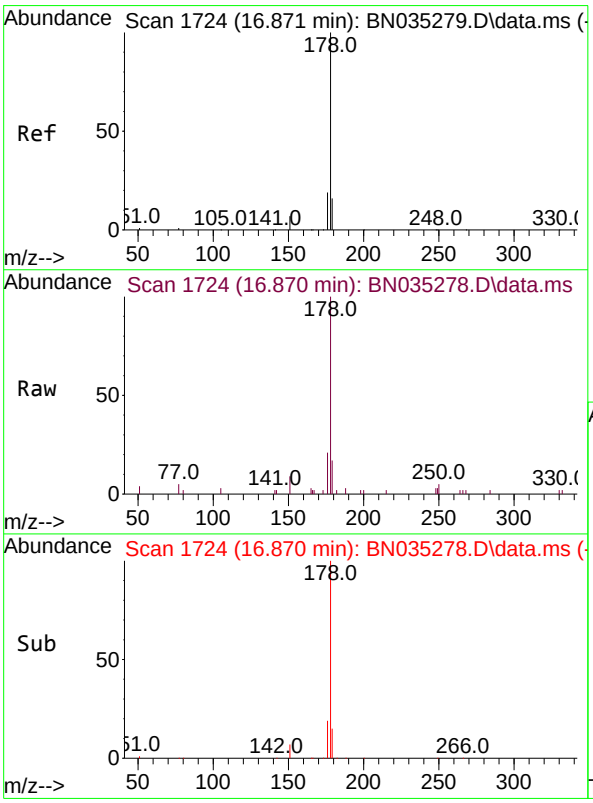
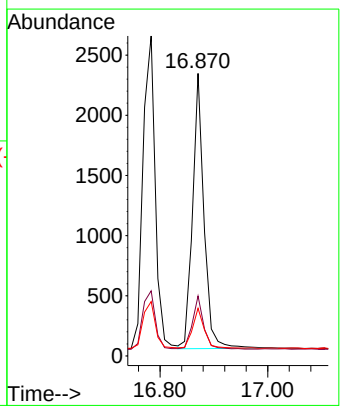
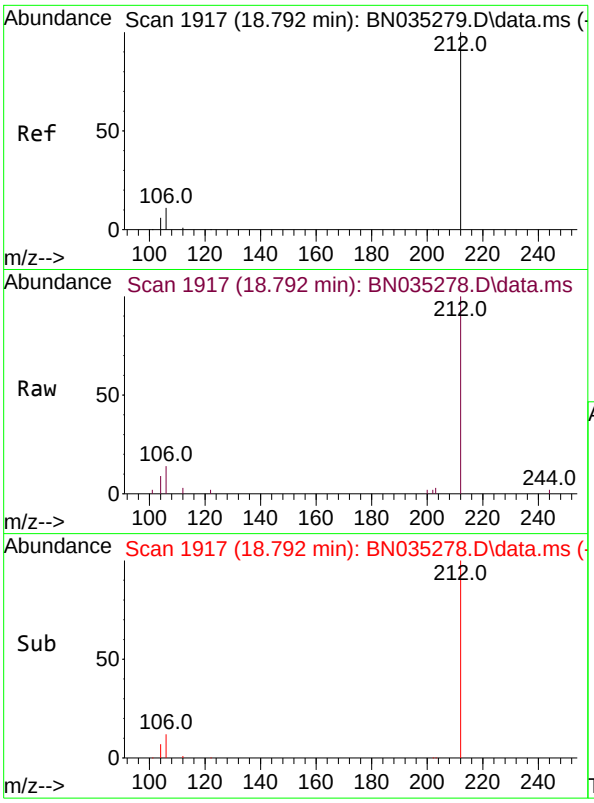


#26
Anthracene
Concen: 0.186 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:178 Resp: 3384

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.4
179	15.0	12.4	18.6

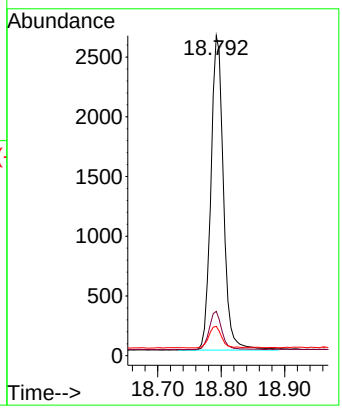




#27
Fluoranthene-d10
Concen: 0.157 ng
RT: 18.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:212 Resp: 362

Ion	Ratio	Lower	Upper
212	100		
106	12.3	9.8	14.8
104	6.9	5.6	8.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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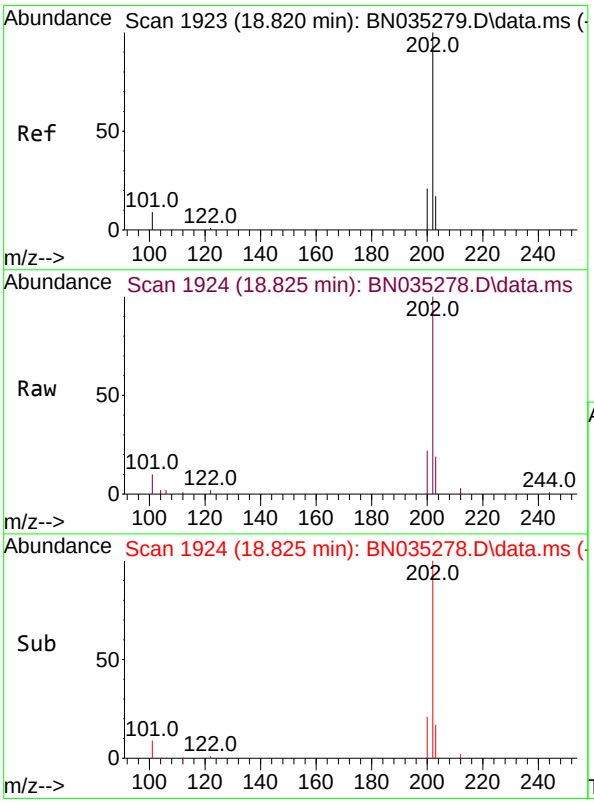
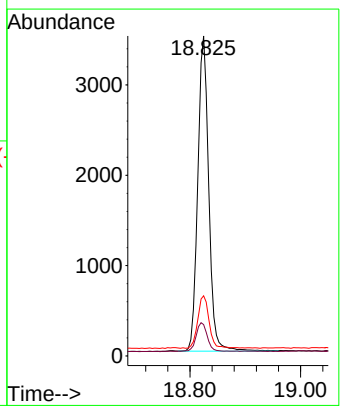
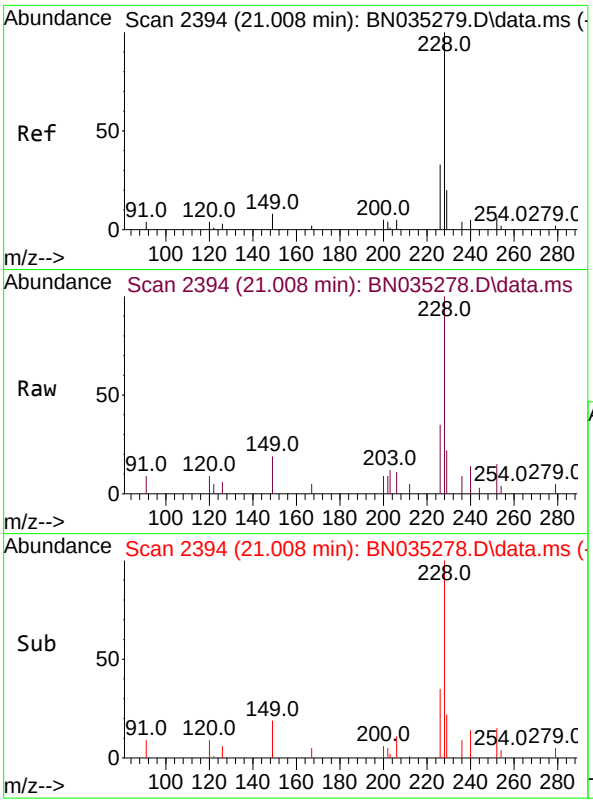


#28
Fluoranthene
Concen: 0.177 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.004 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:202 Resp: 4828

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.6	11.4
203	17.3	13.8	20.8

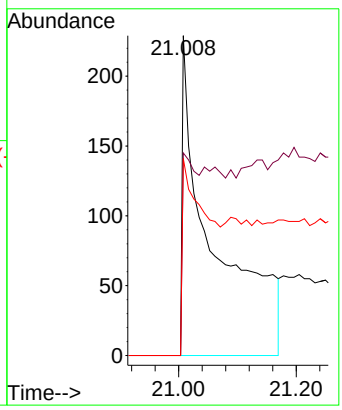




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:240 Resp: 79

Ion	Ratio	Lower	Upper
240	100		
120	63.3	54.9	82.3
236	61.6	54.0	81.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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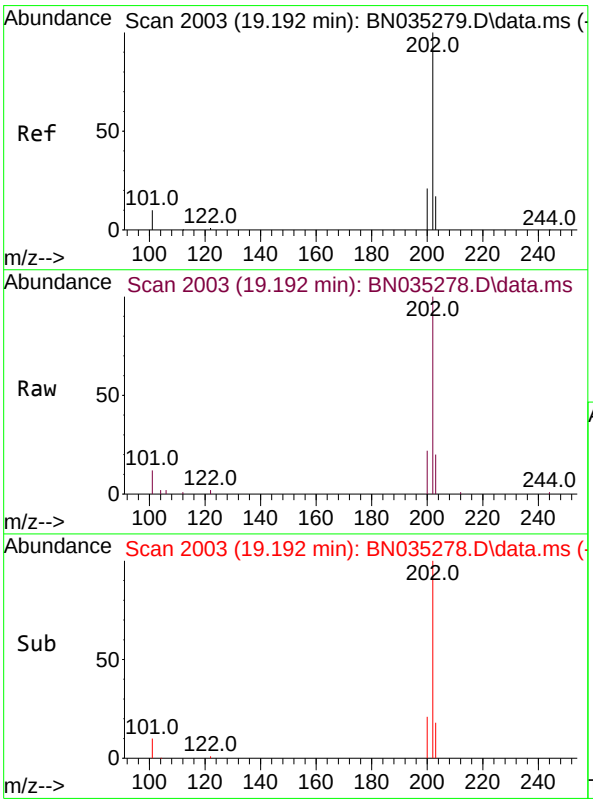
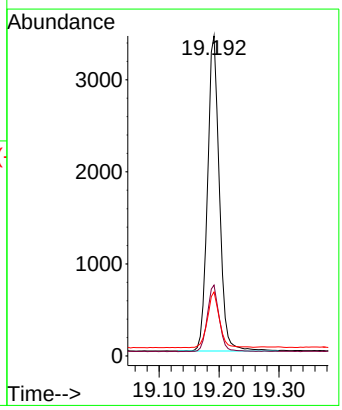
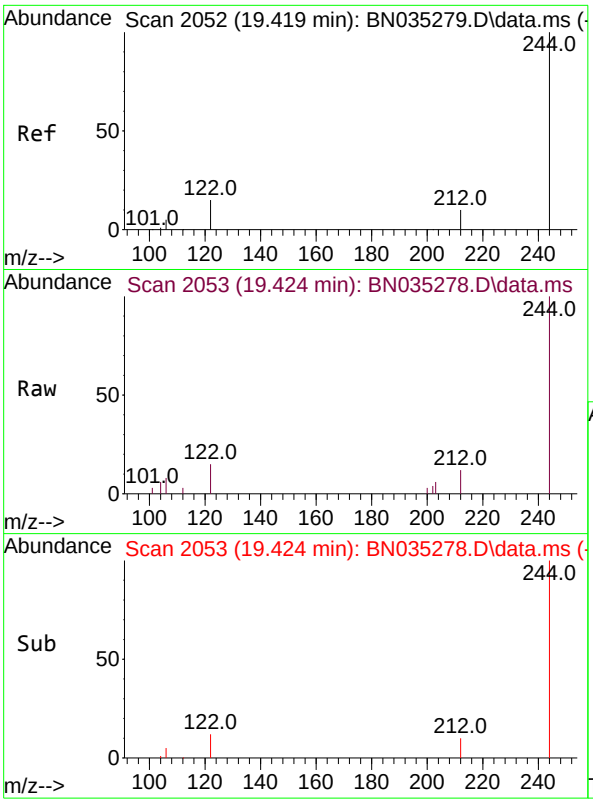


#30
Pyrene
Concen: 1.770 ng
RT: 19.192 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:202 Resp: 4697

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.7	14.4	21.6

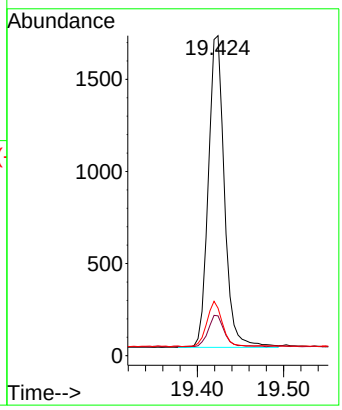




#31
Terphenyl-d14
Concen: 1.314 ng
RT: 19.424 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:244 Resp: 219

Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.4	14.0
122	14.9	13.0	19.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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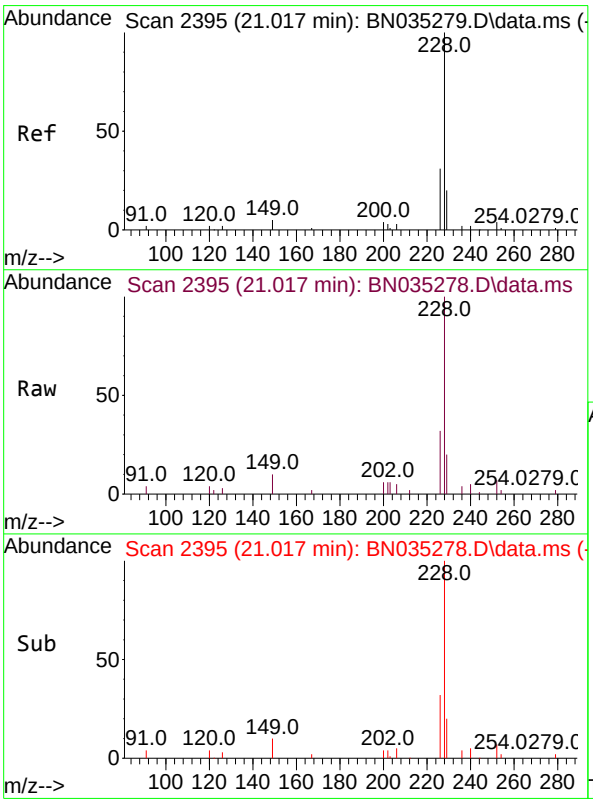
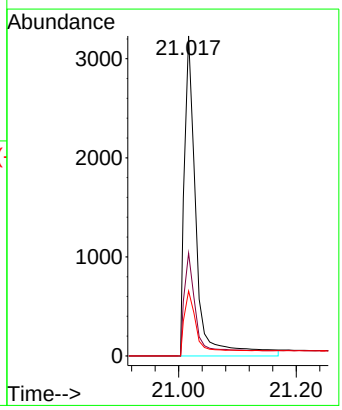
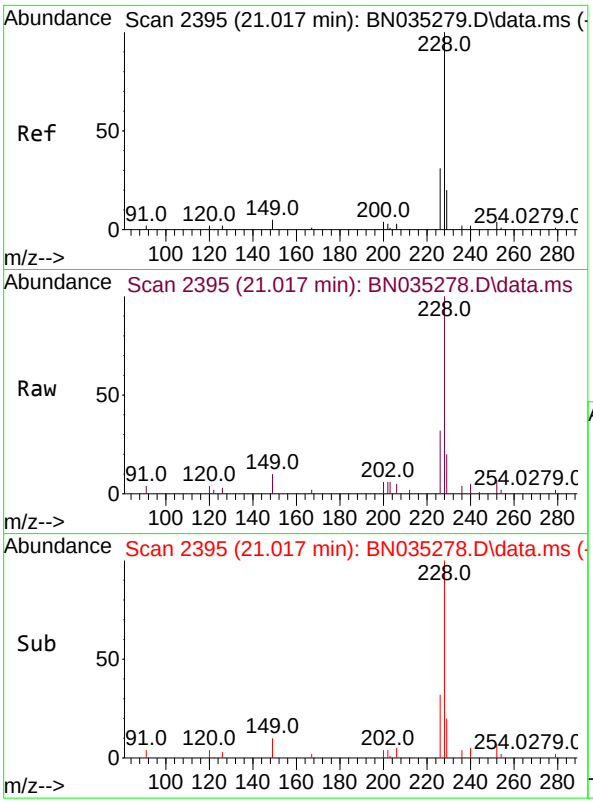


#32
Benzo(a)anthracene
Concen: 1.607 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:228 Resp: 4459

Ion	Ratio	Lower	Upper
228	100		
226	32.1	24.7	37.1
229	20.3	16.2	24.2

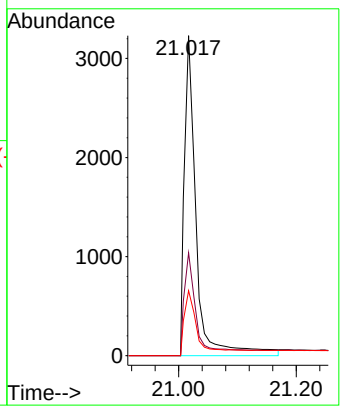




#33
Chrysene
Concen: 1.622 ng
RT: 21.017 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:228 Resp: 445

Ion	Ratio	Lower	Upper
228	100		
226	32.1	24.7	37.1
229	20.3	16.2	24.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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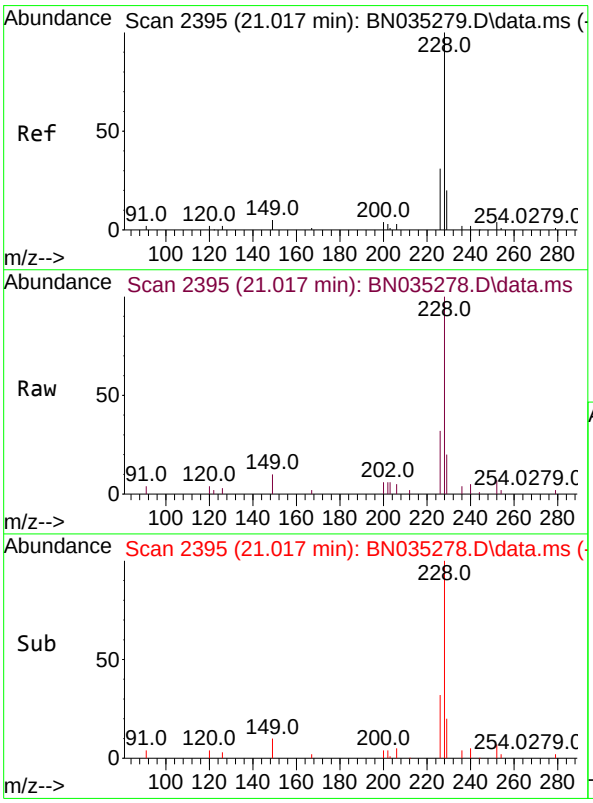
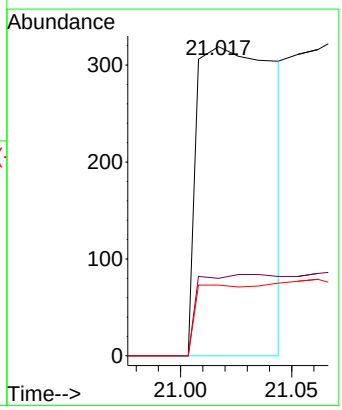
Supervised By :mohammad ahmed 11/27/2024

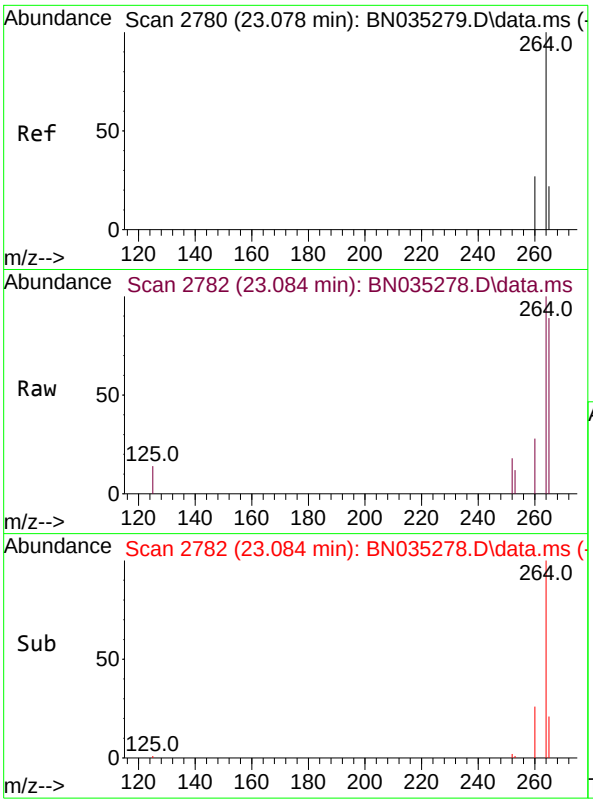


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.478 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:149 Resp: 696

Ion	Ratio	Lower	Upper
149	100		
167	26.7	0.0	0.0#
279	12.8	13.0	19.6#

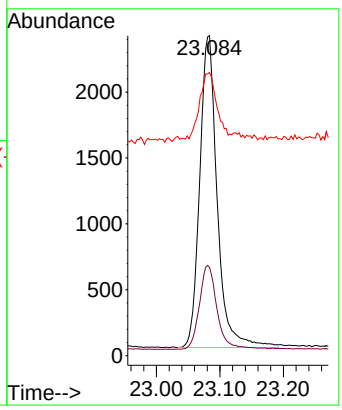




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.084 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:264 Resp: 452

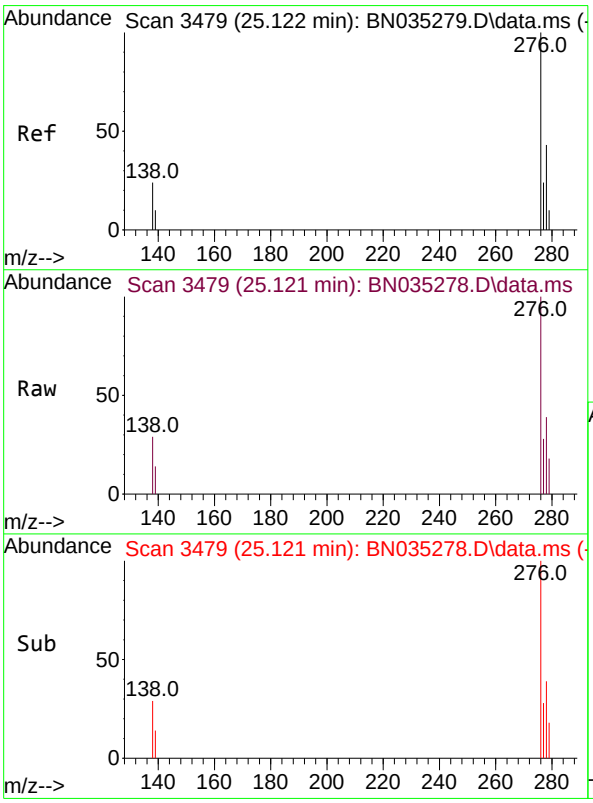
Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.3	33.5
265	88.5	68.6	103.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

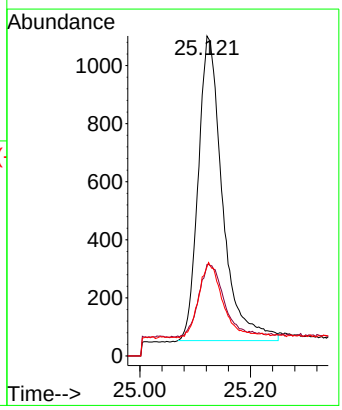
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

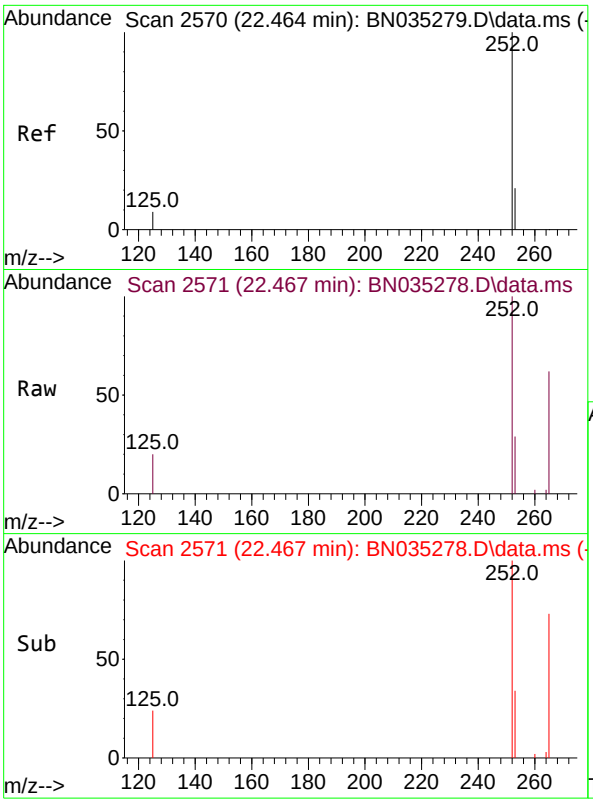


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.177 ng
RT: 25.121 min Scan# 3479
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:276 Resp: 3191

Ion	Ratio	Lower	Upper
276	100		
138	23.2	18.8	28.2
277	23.0	18.2	27.4

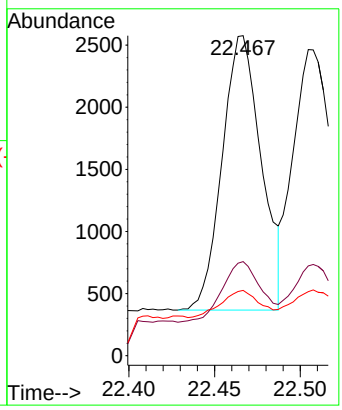




#37
Benzo(b)fluoranthene
Concen: 0.231 ng
RT: 22.467 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:252 Resp: 351

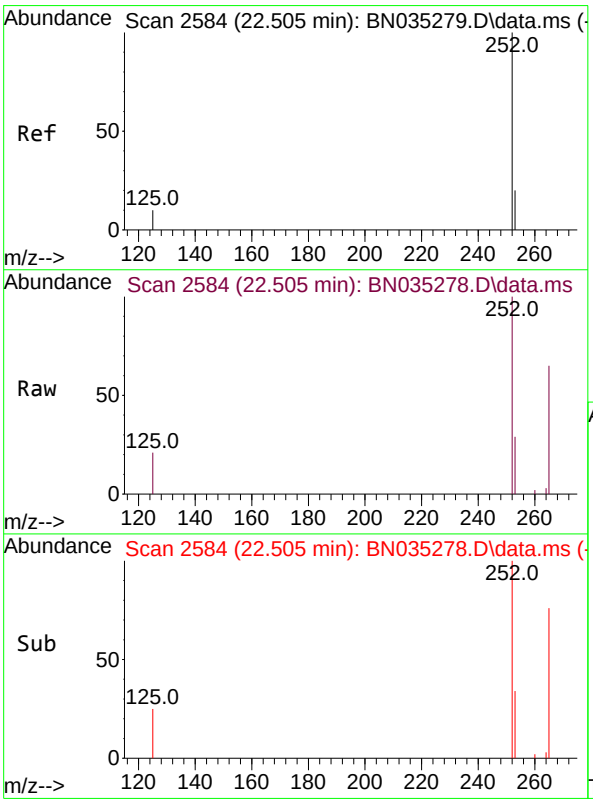
Ion	Ratio	Lower	Upper
252	100		
253	29.4	20.2	30.2
125	20.4	12.0	18.0#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

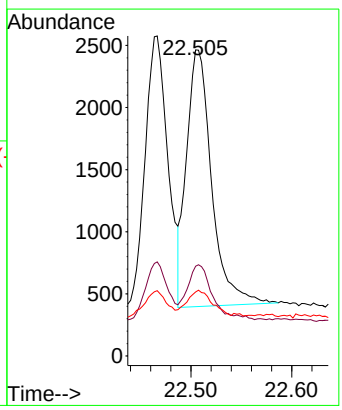
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

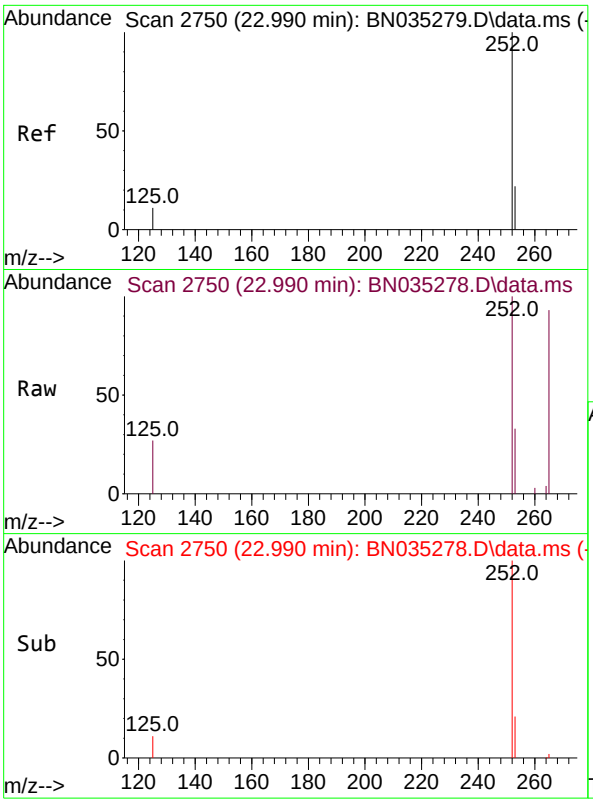


#38
Benzo(k)fluoranthene
Concen: 0.235 ng
RT: 22.505 min Scan# 2584
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:252 Resp: 3588

Ion	Ratio	Lower	Upper
252	100		
253	29.3	20.1	30.1
125	20.9	12.7	19.1#

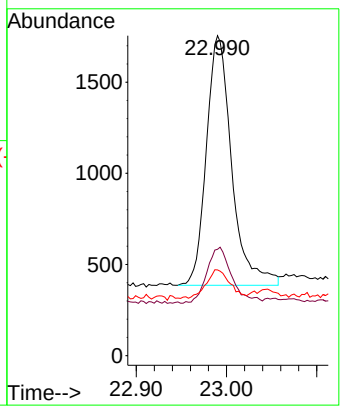




#39
Benzo(a)pyrene
Concen: 0.199 ng
RT: 22.990 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:252 Resp: 267

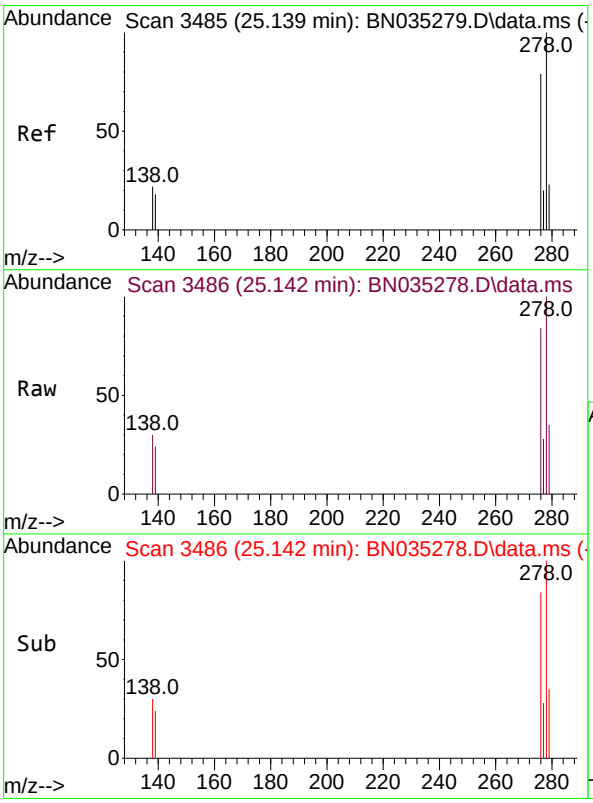
Ion	Ratio	Lower	Upper
252	100		
253	33.2	22.3	33.5
125	26.8	15.3	22.9#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

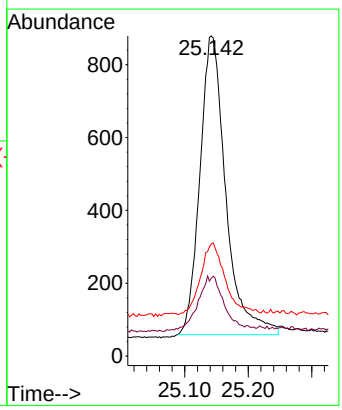
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

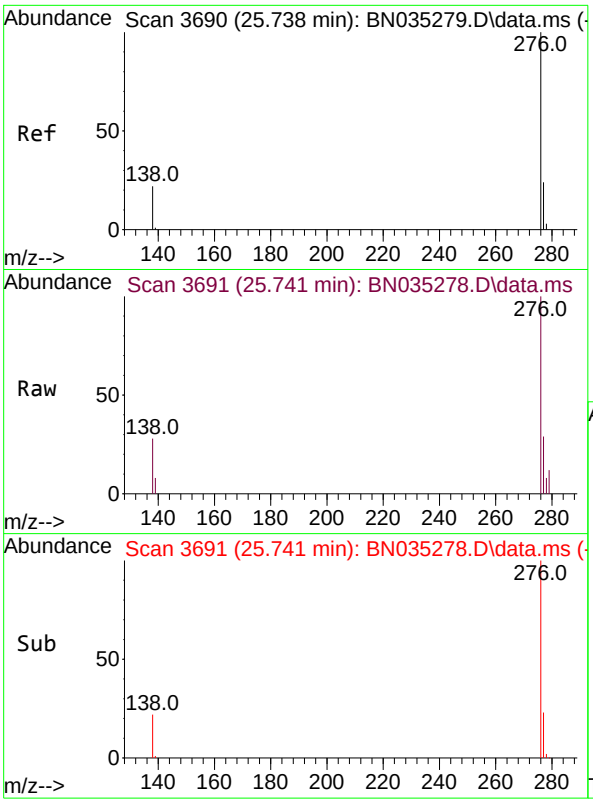


#40
Dibenzo(a,h)anthracene
Concen: 0.163 ng
RT: 25.142 min Scan# 3486
Delta R.T. 0.003 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:278 Resp: 2328

Ion	Ratio	Lower	Upper
278	100		
139	24.3	17.0	25.6
279	35.0	23.0	34.4#

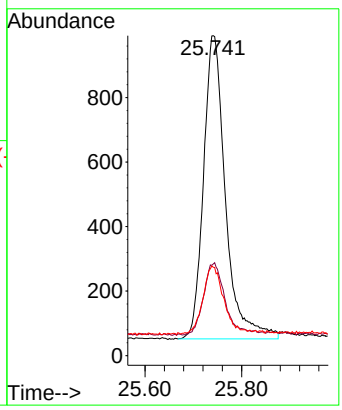




#41
Benzo(g,h,i)perylene
Concen: 0.195 ng
RT: 25.741 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:276 Resp: 296

Ion	Ratio	Lower	Upper
276	100		
277	28.6	21.1	31.7
138	27.6	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035279.D
Acq On : 25 Nov 2024 11:28
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 25 14:13:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:13:00 2024
Response via : Initial Calibration

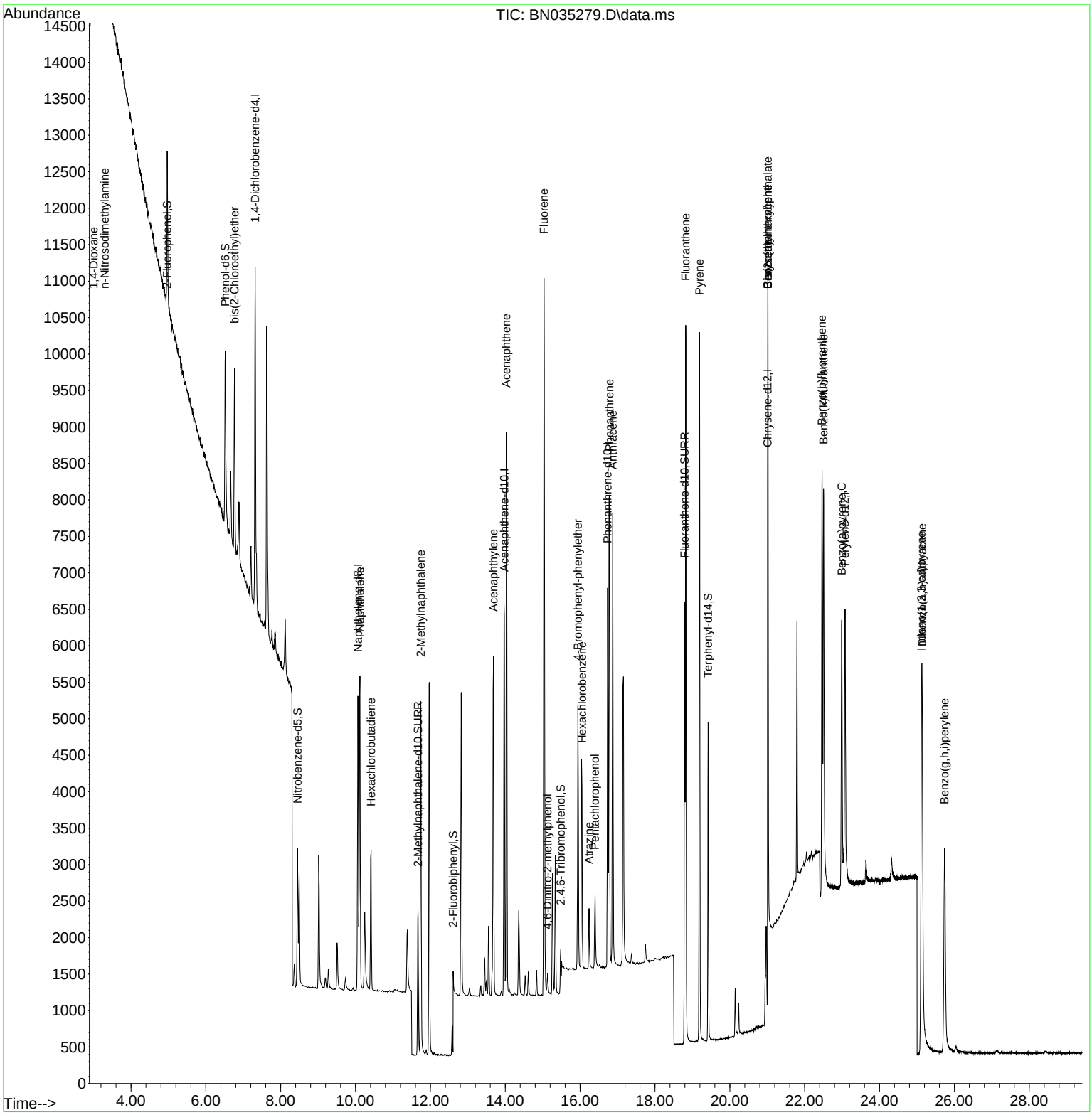
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.315	152	2200	0.400	ng		0.00
7) Naphthalene-d8	10.063	136	5326	0.400	ng		0.00
13) Acenaphthene-d10	13.976	164	2947	0.400	ng		0.00
19) Phenanthrene-d10	16.734	188	6895	0.400	ng		0.00
29) Chrysene-d12	21.008	240	586	0.400	ng		0.00
35) Perylene-d12	23.078	264	4692	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	1735	0.311	ng		0.00
5) Phenol-d6	6.521	99	2431	0.347	ng		0.00
8) Nitrobenzene-d5	8.451	82	1846	0.398	ng		0.00
11) 2-Methylnaphthalene-d10	11.667	152	2873	0.303	ng		0.00
14) 2,4,6-Tribromophenol	15.484	330	531	0.250	ng		0.00
15) 2-Fluorobiphenyl	12.608	172	721	0.060	ng		0.00
27) Fluoranthene-d10	18.792	212	6669	0.316	ng		0.00
31) Terphenyl-d14	19.419	244	4254	3.460	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	631	0.316	ng		100
3) n-Nitrosodimethylamine	3.300	42	624	0.335	ng		100
6) bis(2-Chloroethyl)ether	6.766	93	1971	0.375	ng		100
9) Naphthalene	10.116	128	5810	0.418	ng		100
10) Hexachlorobutadiene	10.415	225	1664	0.408	ng	#	100
12) 2-Methylnaphthalene	11.742	142	3623	0.353	ng		100
16) Acenaphthylene	13.688	152	5556	0.441	ng		100
17) Acenaphthene	14.030	154	3465	0.420	ng		100
18) Fluorene	15.035	166	4816	0.397	ng		100
20) 4,6-Dinitro-2-methylph...	15.131	198	233	0.162	ng		100
21) 4-Bromophenyl-phenylether	15.940	248	1623	0.369	ng		100
22) Hexachlorobenzene	16.051	284	2429	0.533	ng		100
23) Atrazine	16.238	200	689	0.175	ng		100
24) Pentachlorophenol	16.399	266	544	0.255	ng		100
25) Phenanthrene	16.784	178	7798	0.430	ng		100
26) Anthracene	16.871	178	6280	0.377	ng		100
28) Fluoranthene	18.820	202	9240	0.370	ng		100
30) Pyrene	19.192	202	8957	4.590	ng		100
32) Benzo(a)anthracene	21.017	228	8100	3.970	ng		100
33) Chrysene	21.017	228	8100	4.007	ng		100
34) Bis(2-ethylhexyl)phtha...	21.017	149	533	0.498	ng	#	100
36) Indeno(1,2,3-cd)pyrene	25.122	276	7146	0.382	ng		100
37) Benzo(b)fluoranthene	22.464	252	6813	0.432	ng		100
38) Benzo(k)fluoranthene	22.505	252	7659	0.485	ng		100
39) Benzo(a)pyrene	22.990	252	5365	0.386	ng		100
40) Dibenzo(a,h)anthracene	25.139	278	5194	0.350	ng		100
41) Benzo(g,h,i)perylene	25.738	276	5823	0.369	ng		100

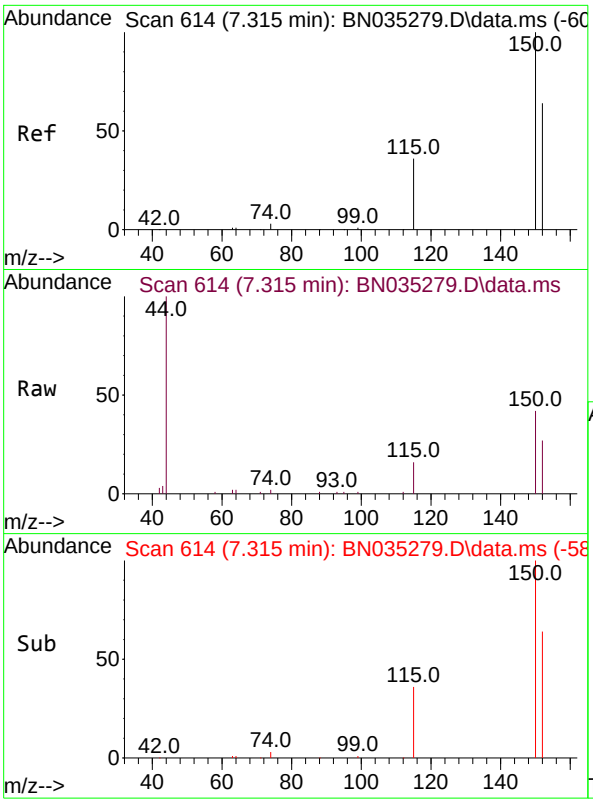
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035279.D
Acq On : 25 Nov 2024 11:28
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 25 14:13:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:13:00 2024
Response via : Initial Calibration



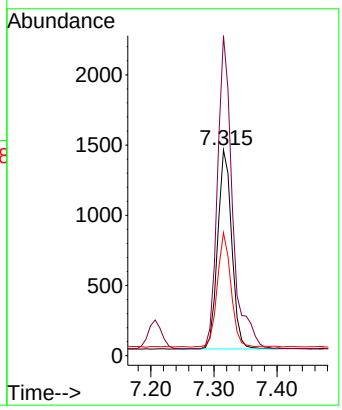


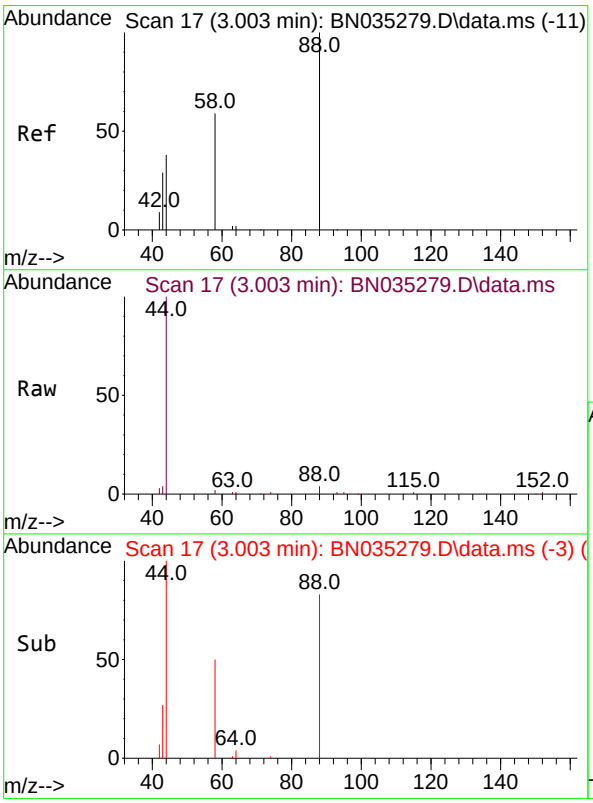
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2200

Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.5	186.7
115	59.8	47.8	71.8

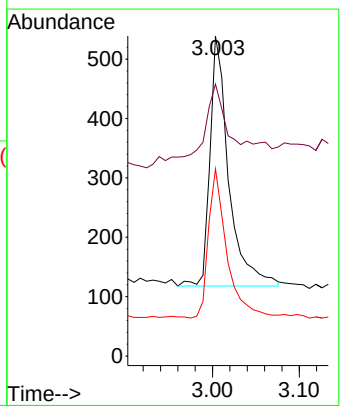


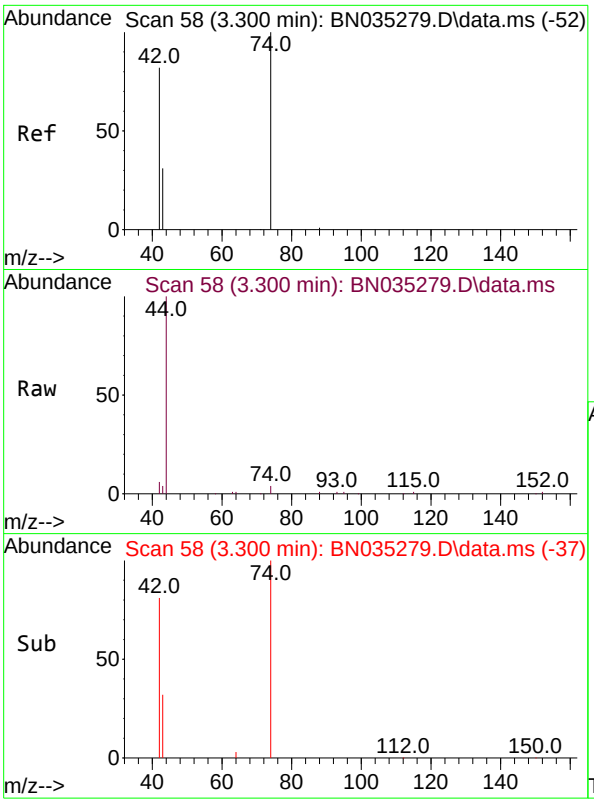


#2
1,4-Dioxane
Concen: 0.316 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion: 88 Resp: 631

Ion	Ratio	Lower	Upper
88	100		
43	60.1	48.1	72.1
58	58.6	46.9	70.3



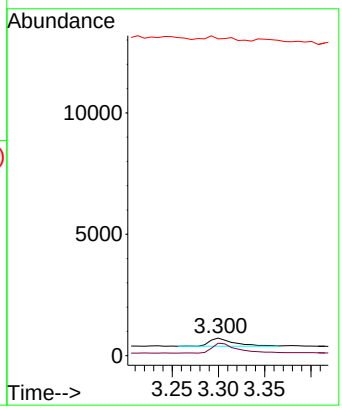


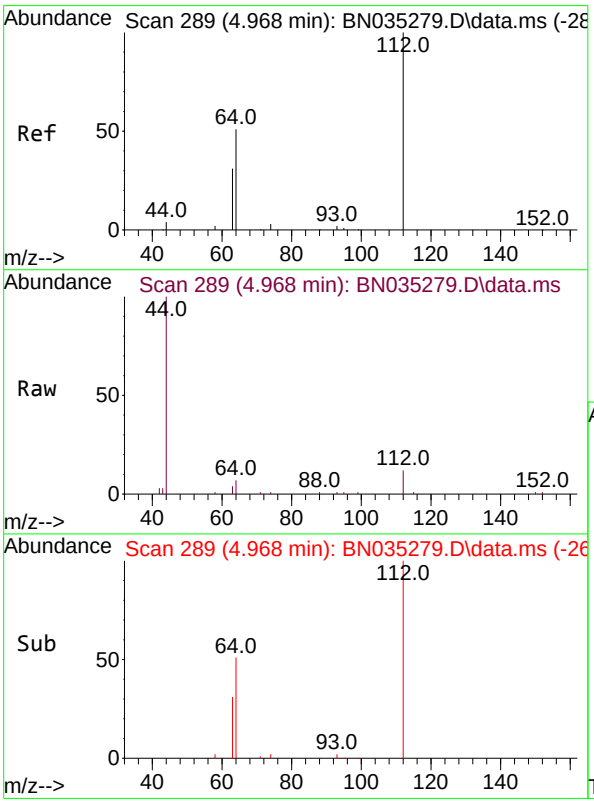
#3
n-Nitrosodimethylamine
Concen: 0.335 ng
RT: 3.300 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 624

Ion	Ratio	Lower	Upper
42	100		
74	128.4	102.7	154.1
44	42.6	34.1	51.1

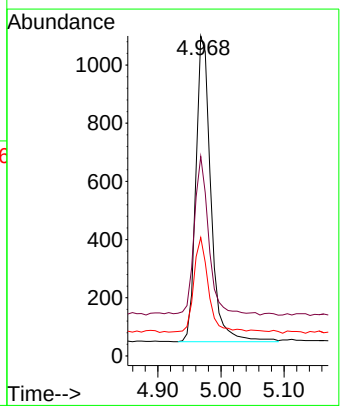


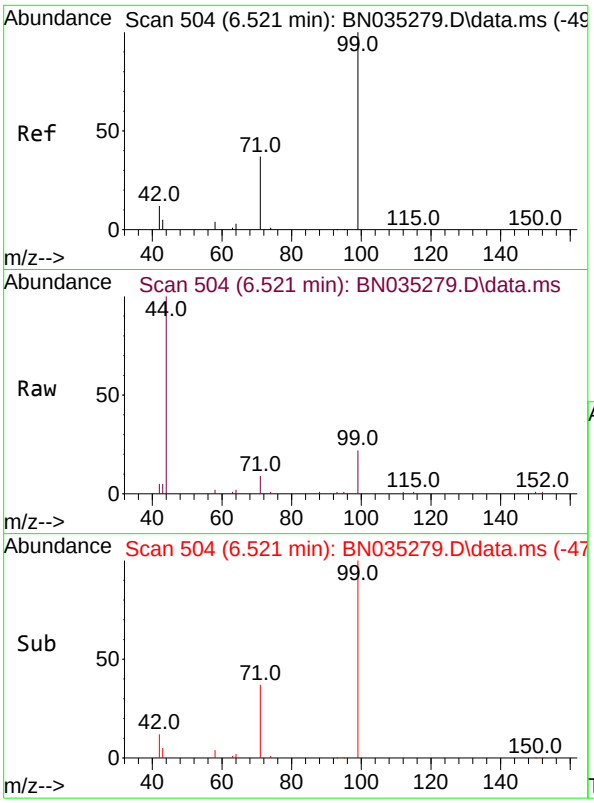


#4
2-Fluorophenol
Concen: 0.311 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:112 Resp: 1735

Ion	Ratio	Lower	Upper
112	100		
64	50.5	40.4	60.6
63	29.8	23.8	35.8



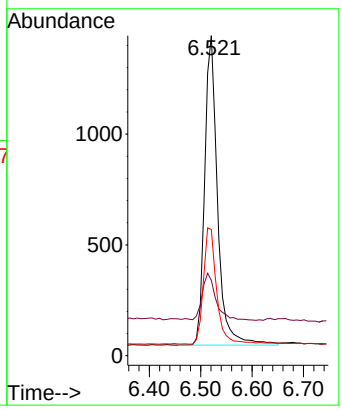


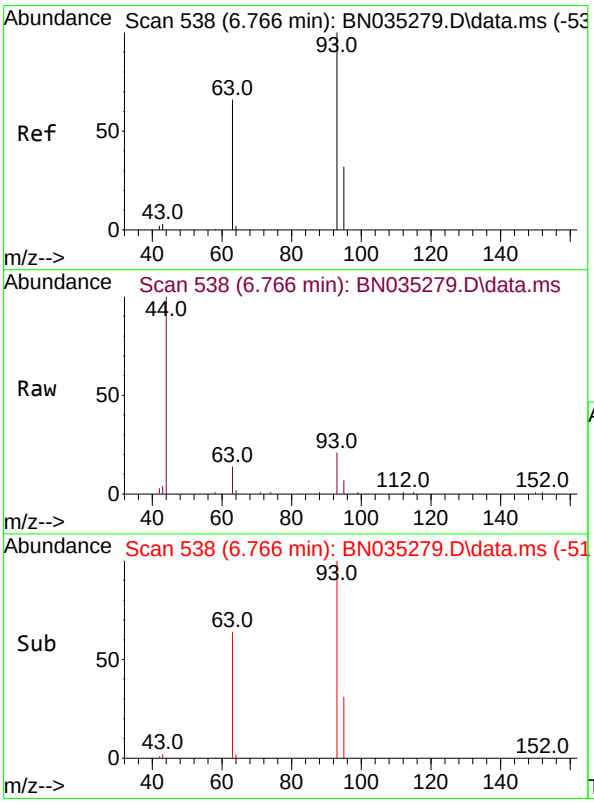
#5
Phenol-d6
Concen: 0.347 ng
RT: 6.521 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 2431

Ion	Ratio	Lower	Upper
99	100		
42	16.0	12.8	19.2
71	39.3	31.4	47.2

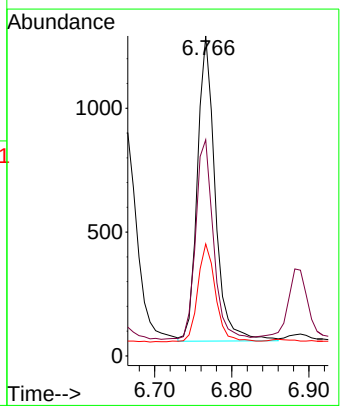


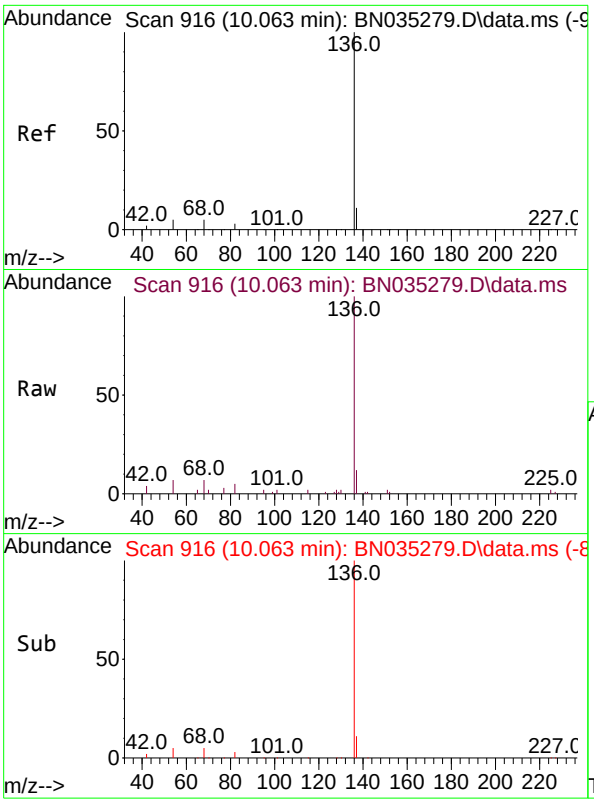


#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion: 93 Resp: 1971

Ion	Ratio	Lower	Upper
93	100		
63	65.4	52.3	78.5
95	31.9	25.5	38.3



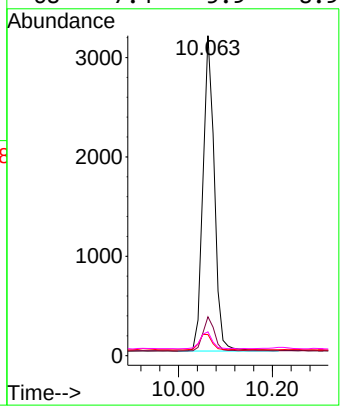


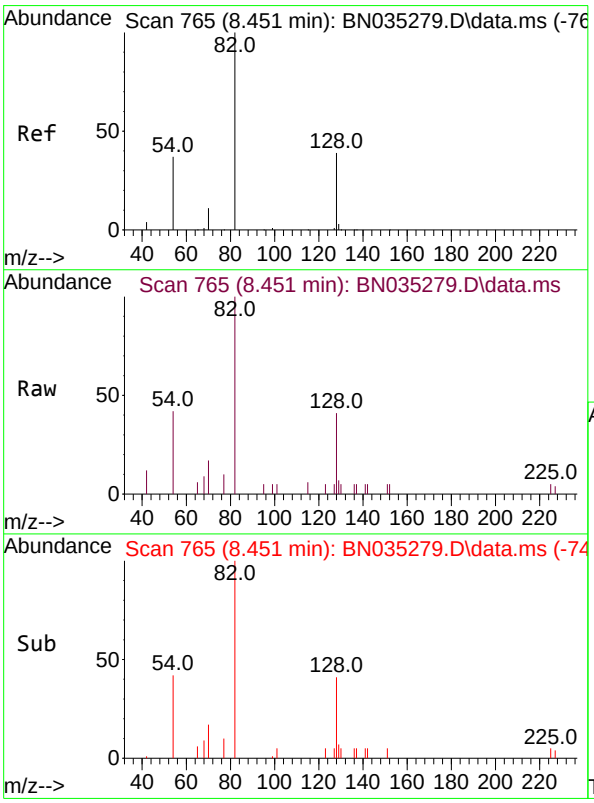
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 5326

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	6.6	5.3	7.9
68	7.4	5.9	8.9

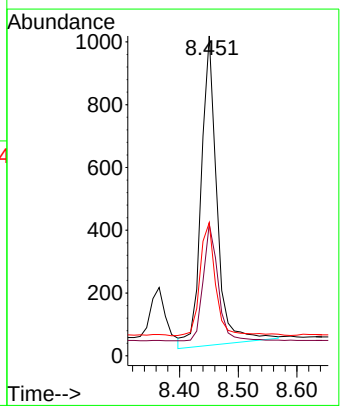


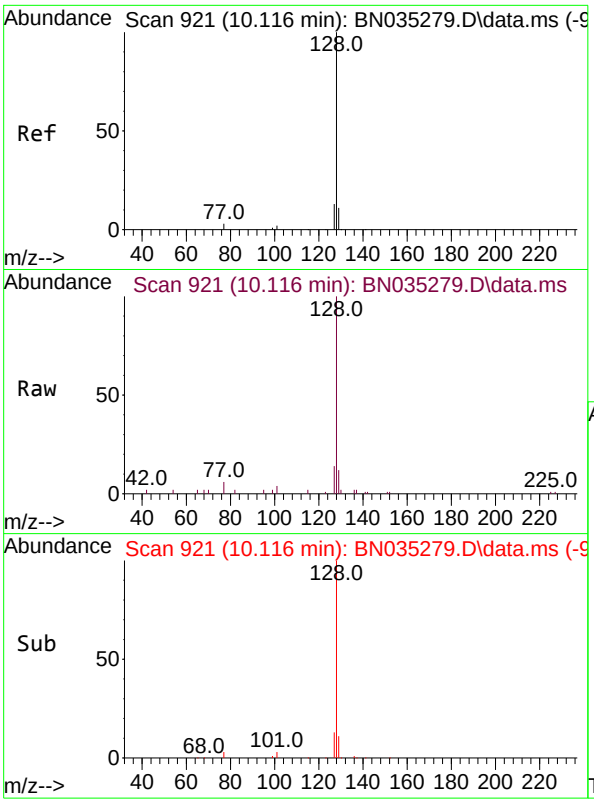


#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.451 min Scan# 765
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion: 82 Resp: 1846

Ion	Ratio	Lower	Upper
82	100		
128	41.2	33.0	49.4
54	41.6	33.3	49.9



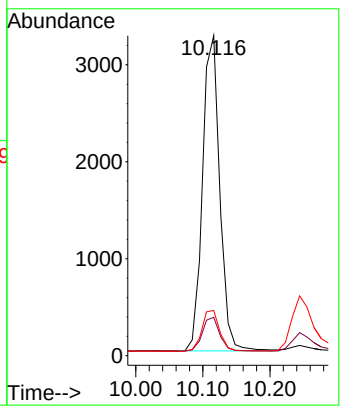


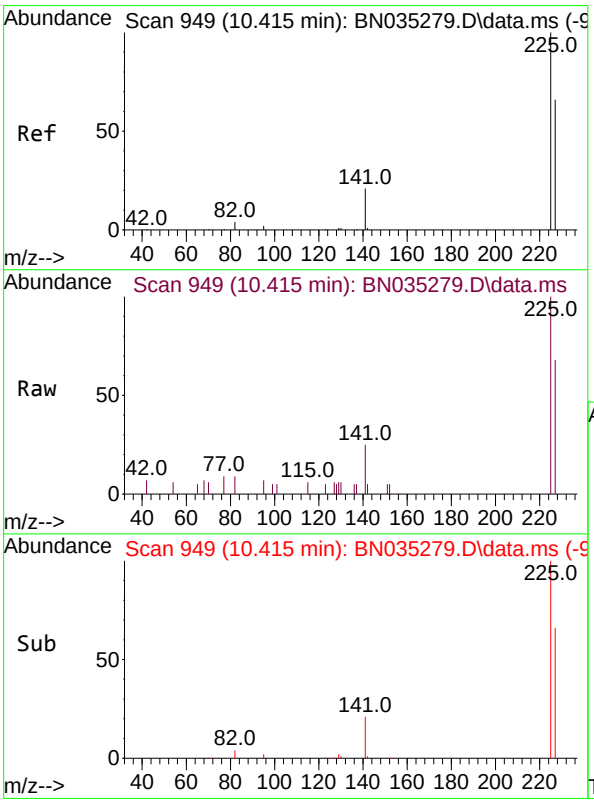
#9
Naphthalene
Concen: 0.418 ng
RT: 10.116 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 5810

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.6	14.4
127	14.1	11.3	16.9

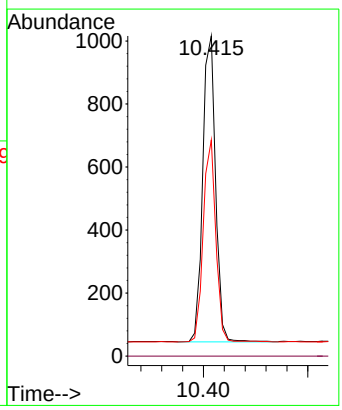


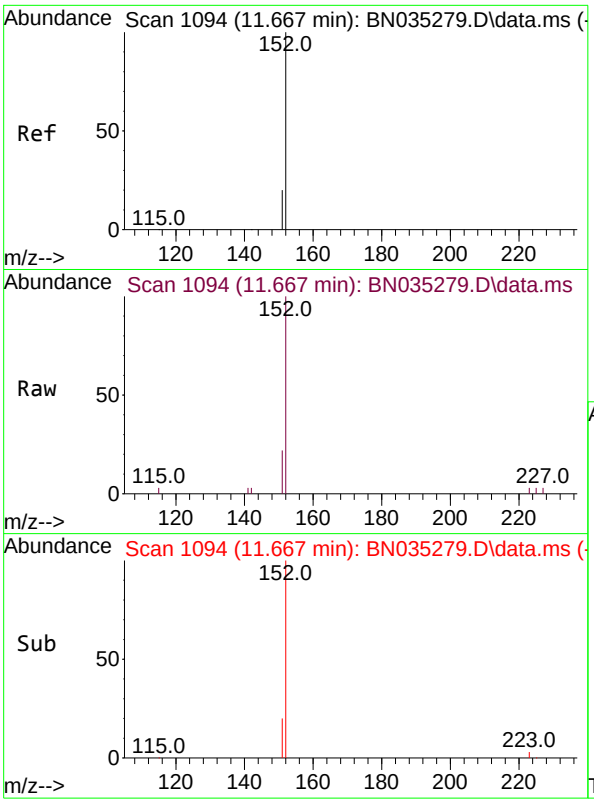


#10
Hexachlorobutadiene
Concen: 0.408 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:225 Resp: 1664

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



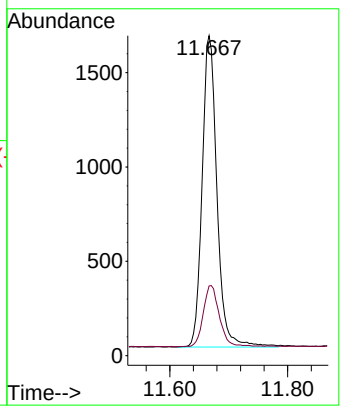


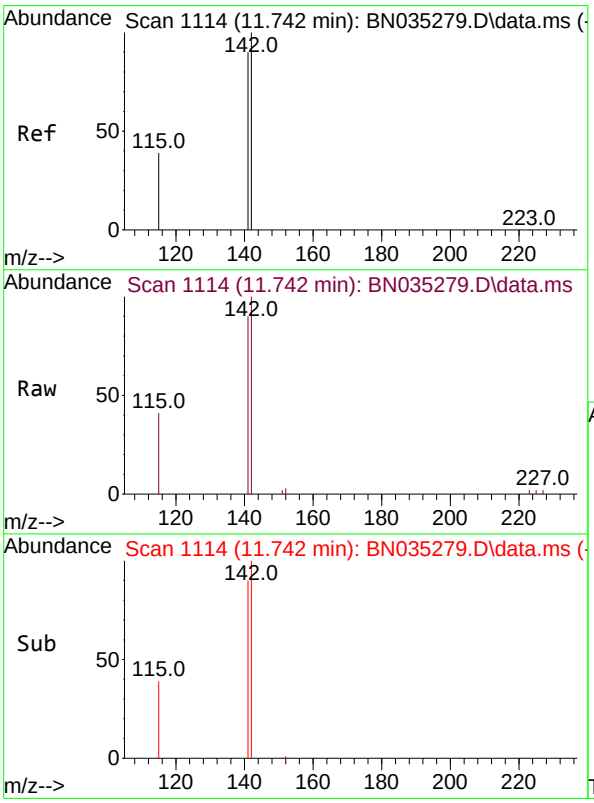
#11
2-Methylnaphthalene-d10
Concen: 0.303 ng
RT: 11.667 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2873

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.2	25.8

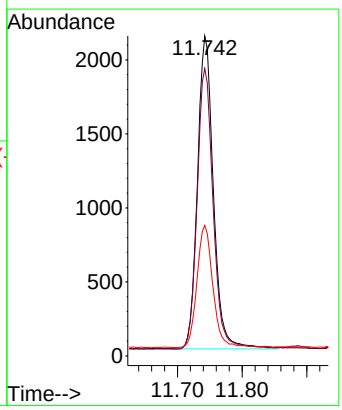


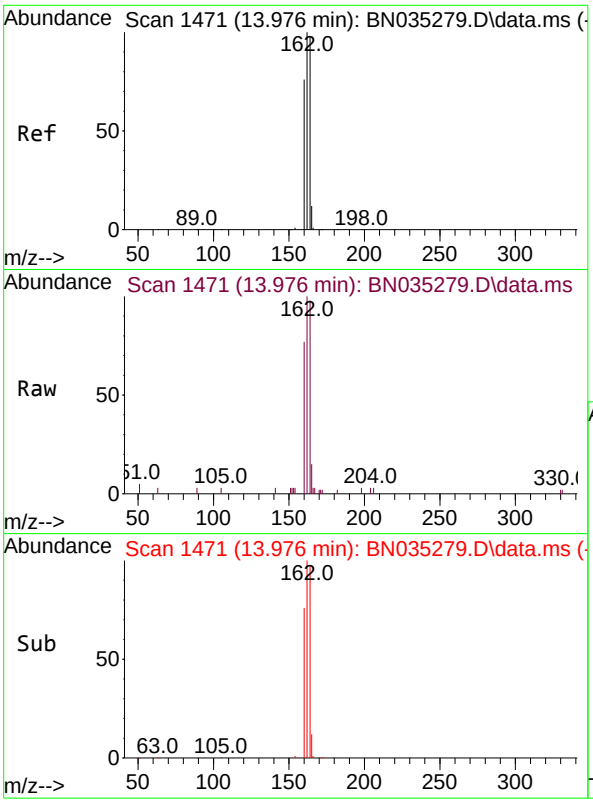


#12
2-Methylnaphthalene
Concen: 0.353 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:142 Resp: 3623

Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.8	107.8
115	40.8	32.6	49.0



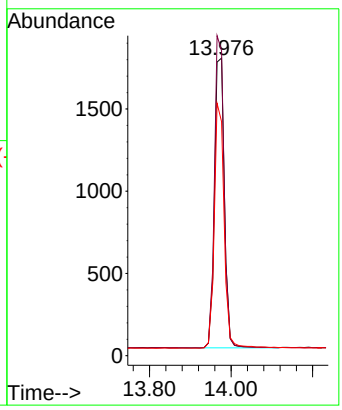


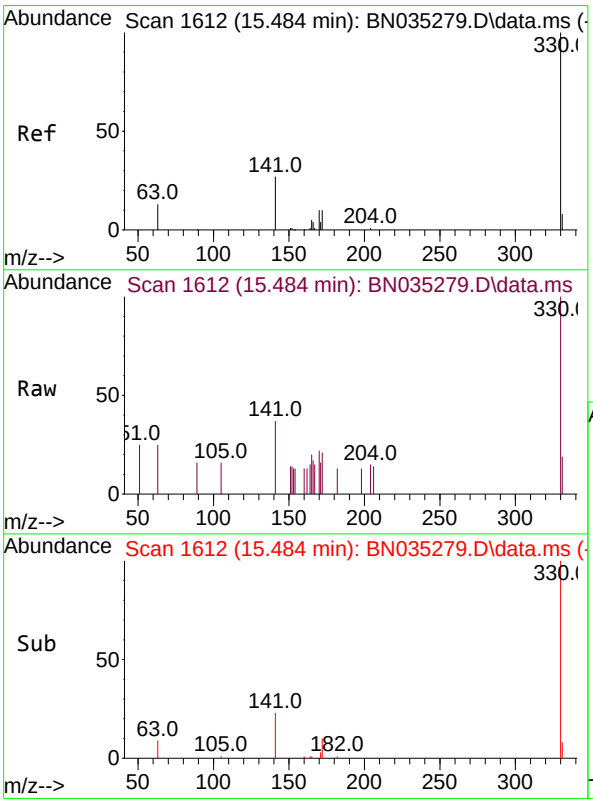
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 2947

Ion	Ratio	Lower	Upper
164	100		
162	102.5	82.0	123.0
160	78.7	63.0	94.4

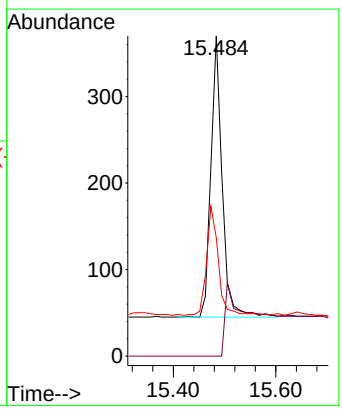


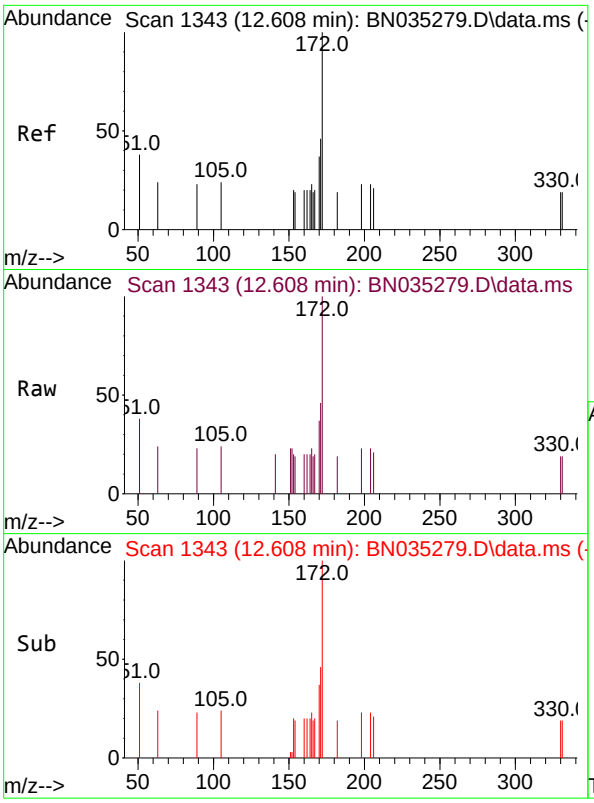


#14
2,4,6-Tribromophenol
Concen: 0.250 ng
RT: 15.484 min Scan# 1612
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:330 Resp: 531

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	40.5	32.4	48.6



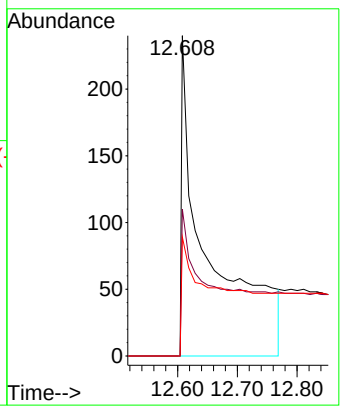


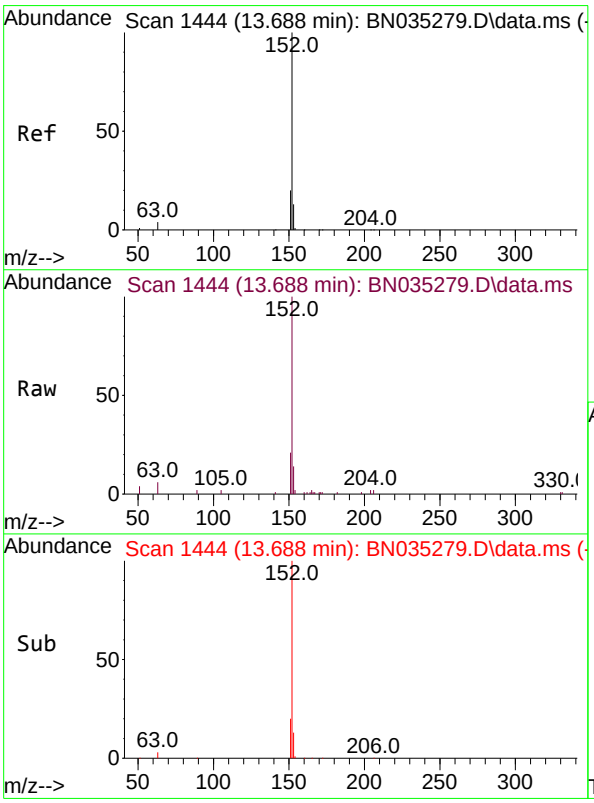
#15
2-Fluorobiphenyl
Concen: 0.060 ng
RT: 12.608 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 721

Ion	Ratio	Lower	Upper
172	100		
171	45.8	36.6	55.0
170	37.1	29.7	44.5

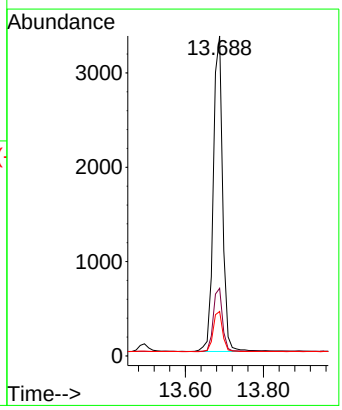


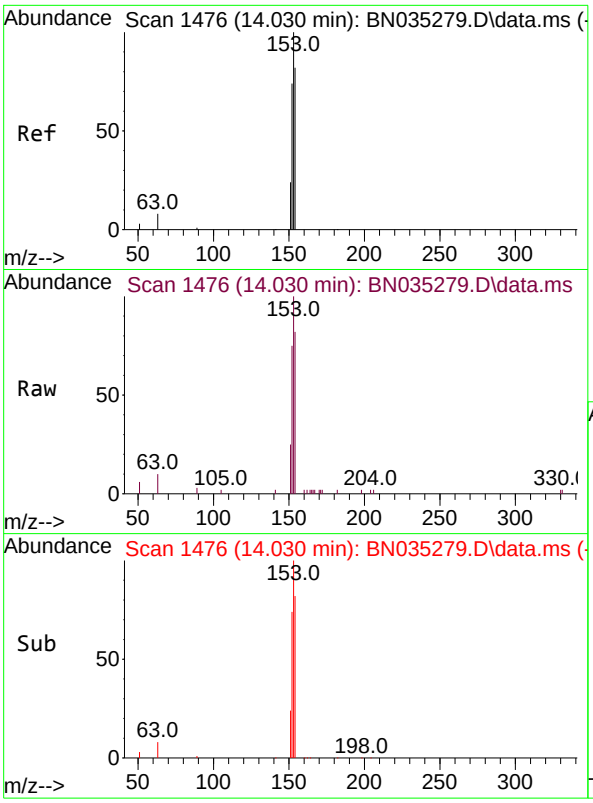


#16
Acenaphthylene
Concen: 0.441 ng
RT: 13.688 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:152 Resp: 5556

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.9	23.9
153	12.8	10.2	15.4



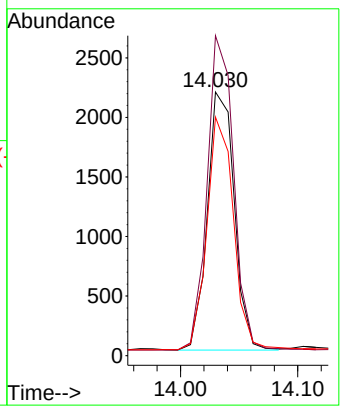


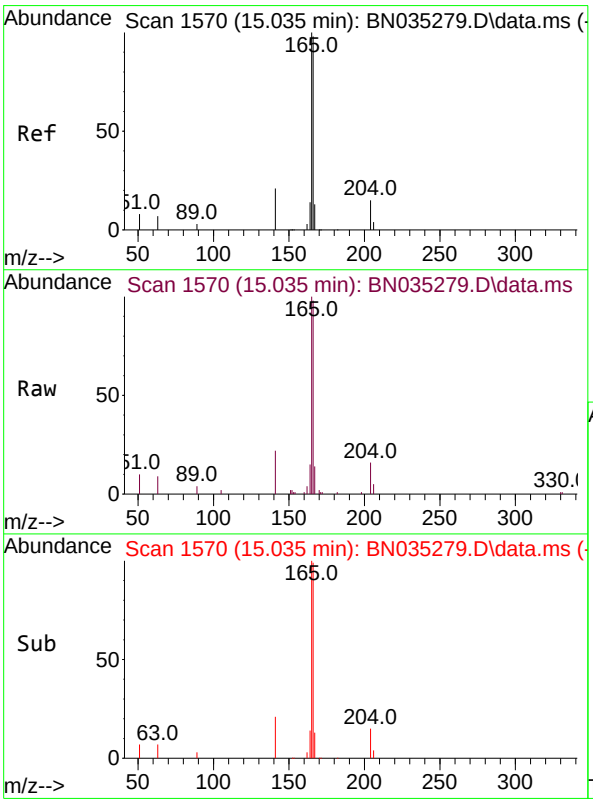
#17
Acenaphthene
Concen: 0.420 ng
RT: 14.030 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 3465

Ion	Ratio	Lower	Upper
154	100		
153	120.1	96.1	144.1
152	90.2	72.2	108.4

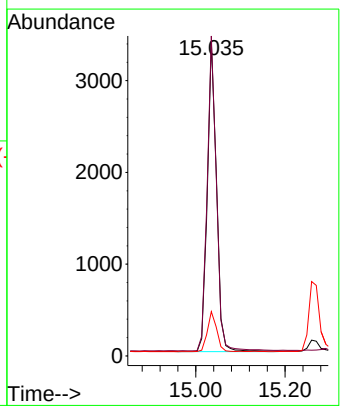


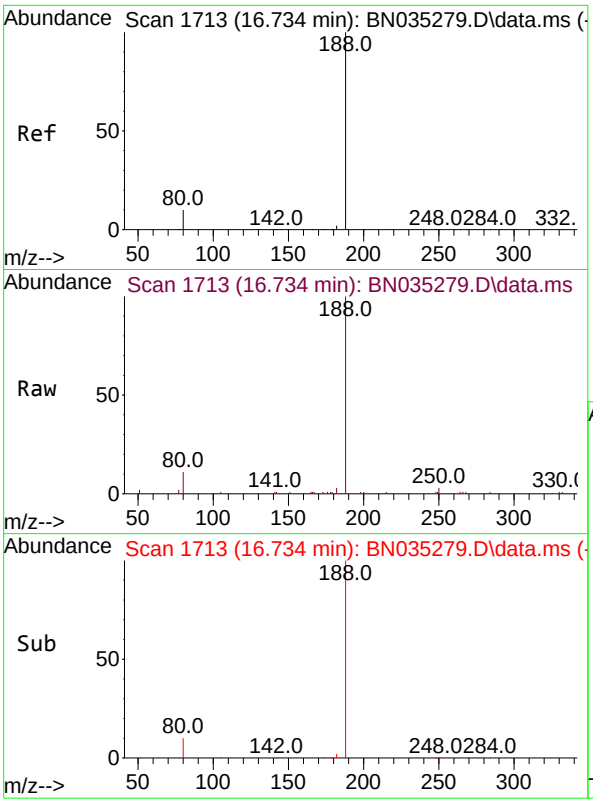


#18
Fluorene
Concen: 0.397 ng
RT: 15.035 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:166 Resp: 4816

Ion	Ratio	Lower	Upper
166	100		
165	101.5	81.2	121.8
167	13.1	10.5	15.7



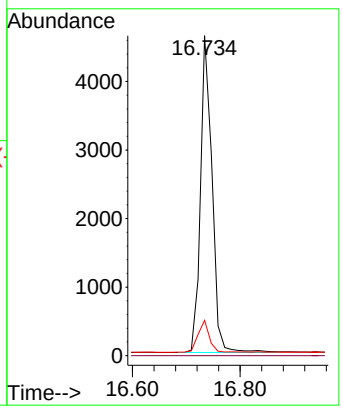


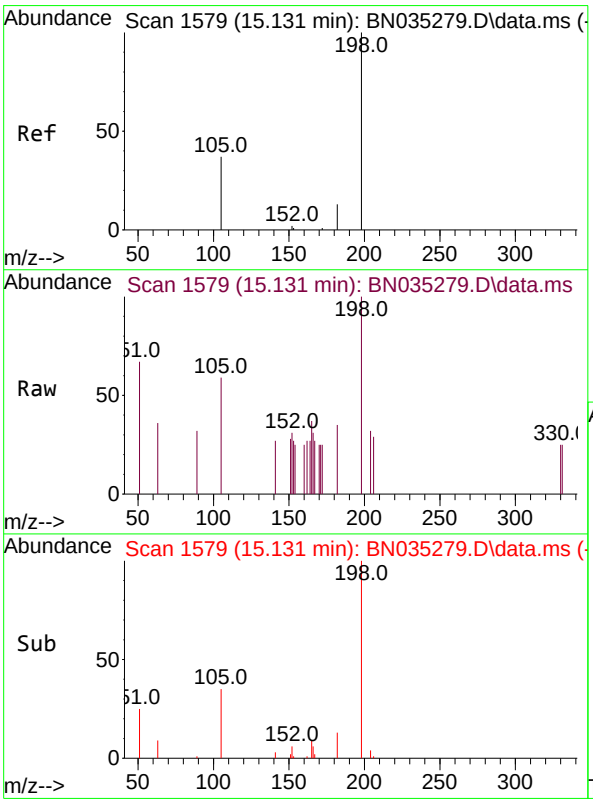
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 6895

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.1	8.9	13.3

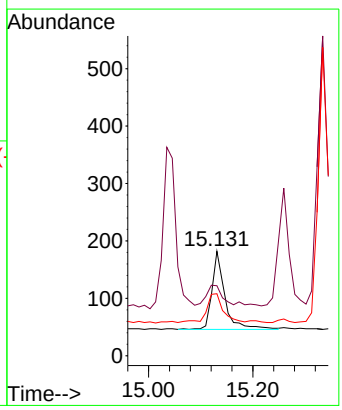


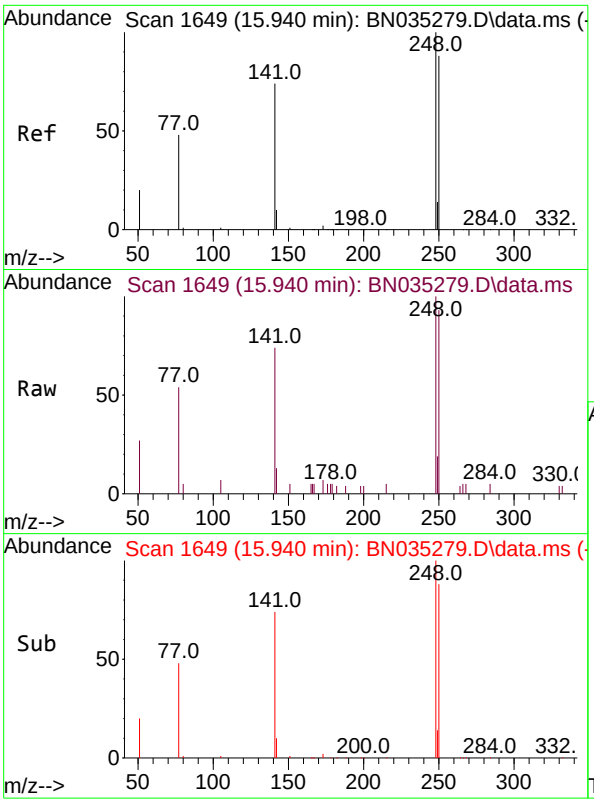


#20
4,6-Dinitro-2-methylphenol
Concen: 0.162 ng
RT: 15.131 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:198 Resp: 233

Ion	Ratio	Lower	Upper
198	100		
51	67.0	53.6	80.4
105	59.3	47.4	71.2



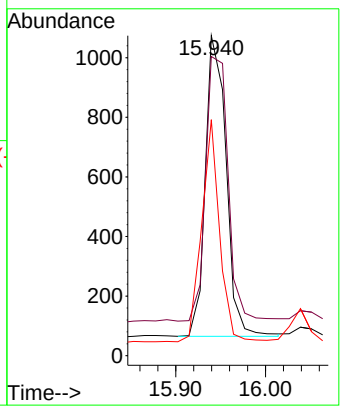


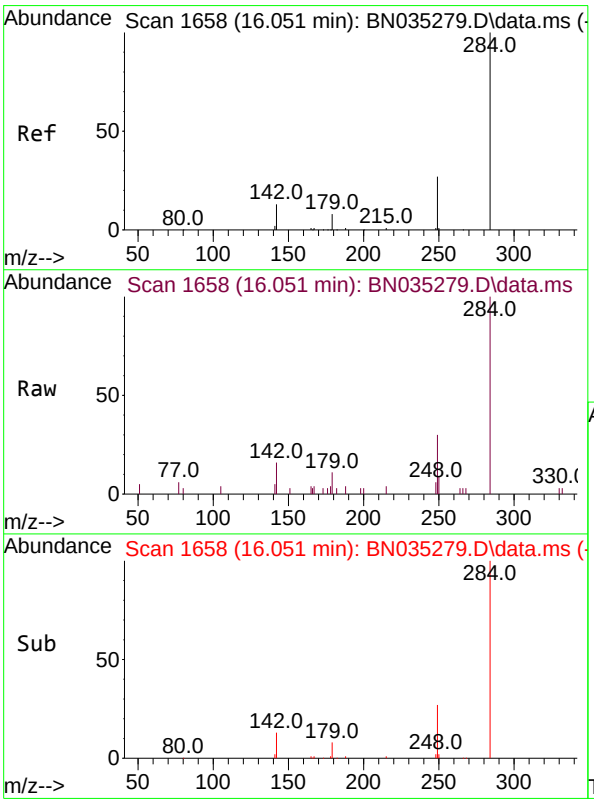
#21
4-Bromophenyl-phenylether
Concen: 0.369 ng
RT: 15.940 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 1623

Ion	Ratio	Lower	Upper
248	100		
250	93.5	74.8	112.2
141	73.7	59.0	88.4

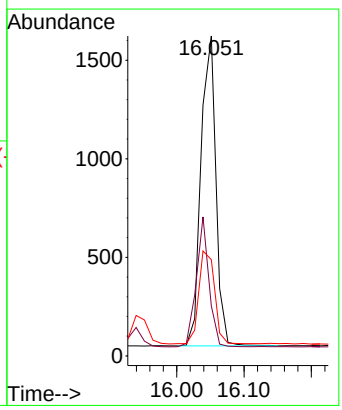


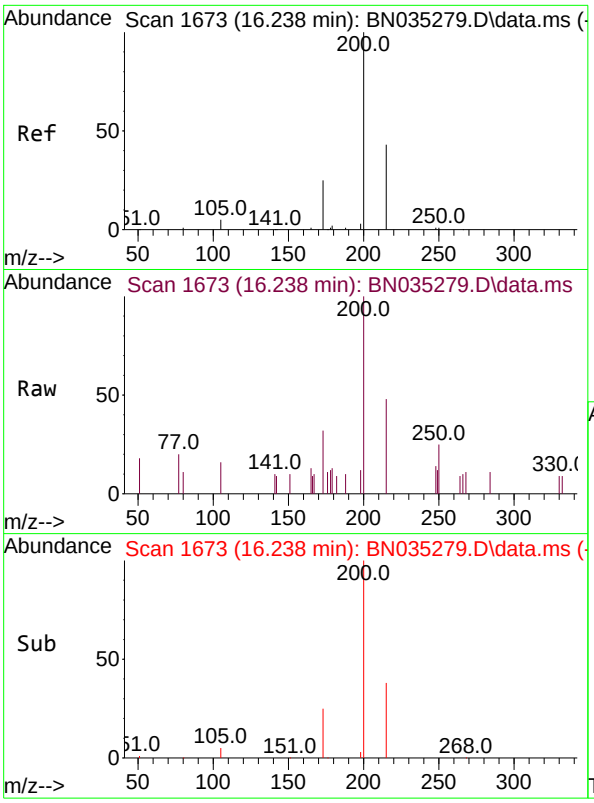


#22
Hexachlorobenzene
Concen: 0.533 ng
RT: 16.051 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:284 Resp: 2429

Ion	Ratio	Lower	Upper
284	100		
142	35.9	28.7	43.1
249	31.7	25.4	38.0



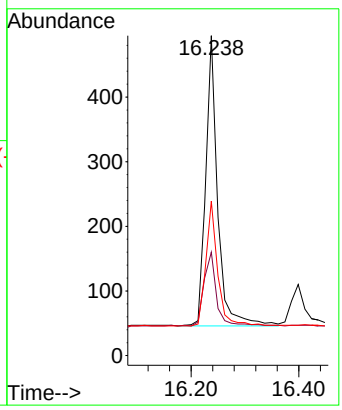


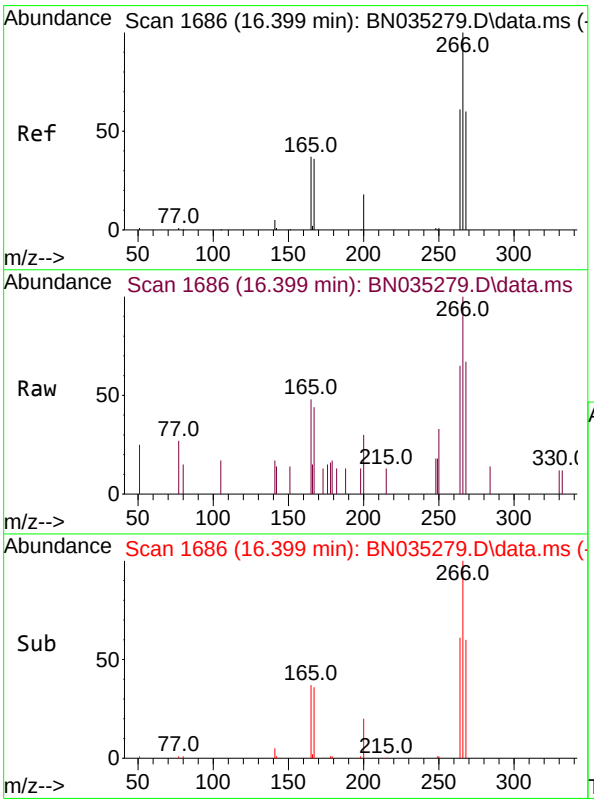
#23
Atrazine
Concen: 0.175 ng
RT: 16.238 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 689

Ion	Ratio	Lower	Upper
200	100		
173	32.3	25.8	38.8
215	48.3	38.6	58.0

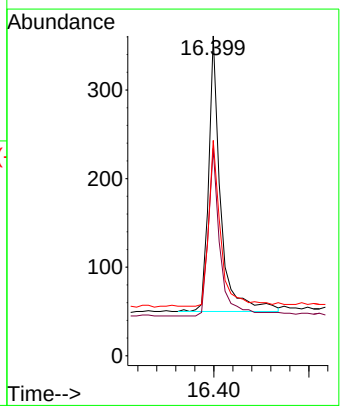


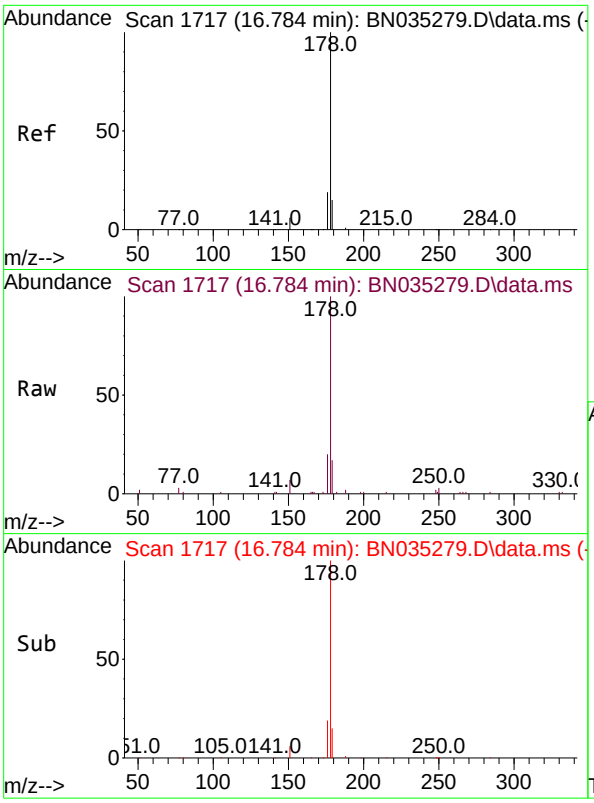


#24
Pentachlorophenol
Concen: 0.255 ng
RT: 16.399 min Scan# 1686
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:266 Resp: 544

Ion	Ratio	Lower	Upper
266	100		
264	61.6	49.3	73.9
268	60.8	48.6	73.0



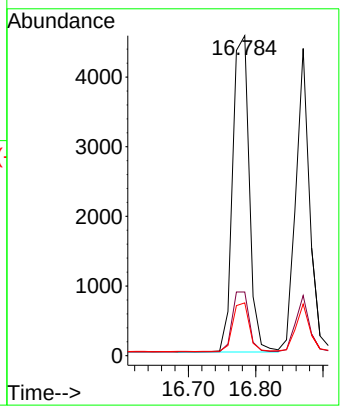


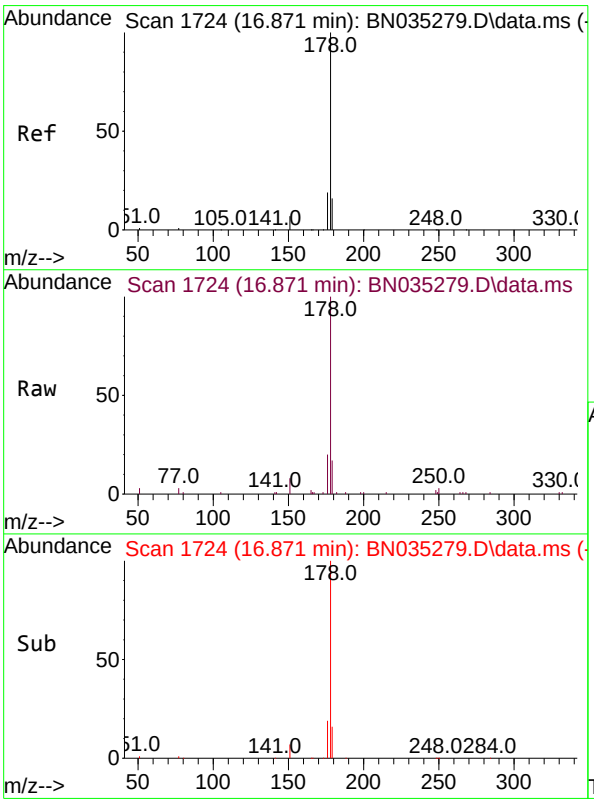
#25
Phenanthrene
Concen: 0.430 ng
RT: 16.784 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 7798

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.7	12.6	18.8

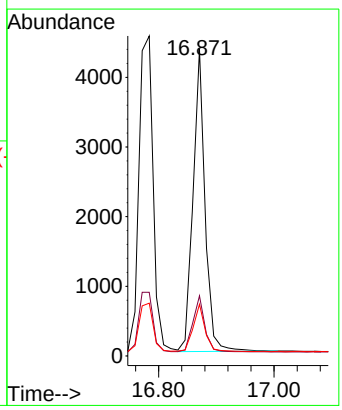


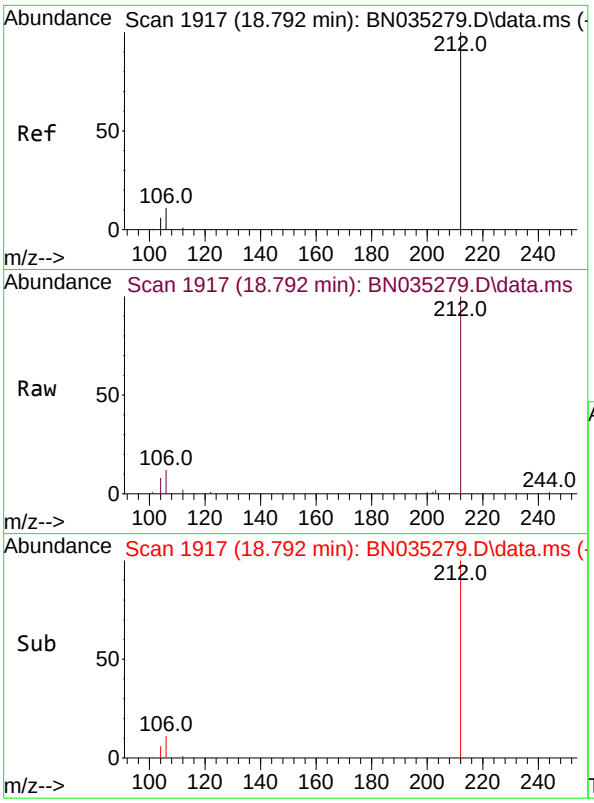


#26
Anthracene
Concen: 0.377 ng
RT: 16.871 min Scan# 1724
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:178 Resp: 6280

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.5	12.4	18.6



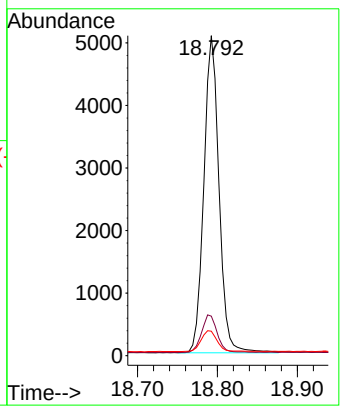


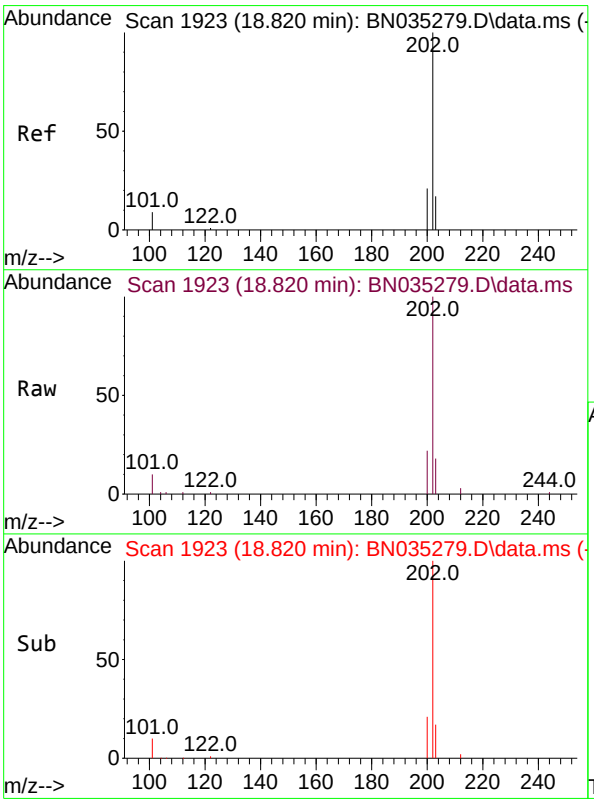
#27
Fluoranthene-d10
Concen: 0.316 ng
RT: 18.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 6669

Ion	Ratio	Lower	Upper
212	100		
106	12.3	9.8	14.8
104	7.0	5.6	8.4

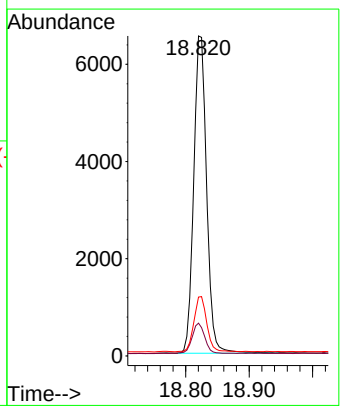


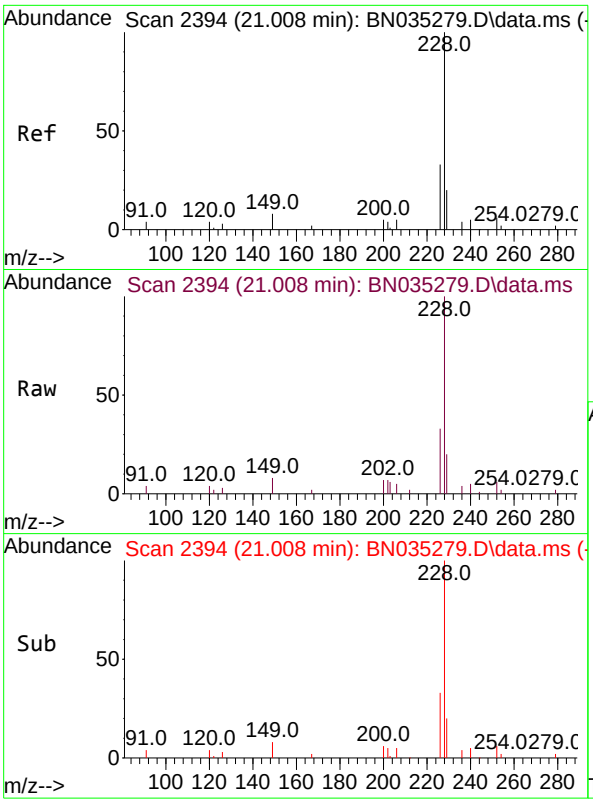


#28
Fluoranthene
Concen: 0.370 ng
RT: 18.820 min Scan# 1923
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:202 Resp: 9240

Ion	Ratio	Lower	Upper
202	100		
101	9.5	7.6	11.4
203	17.3	13.8	20.8



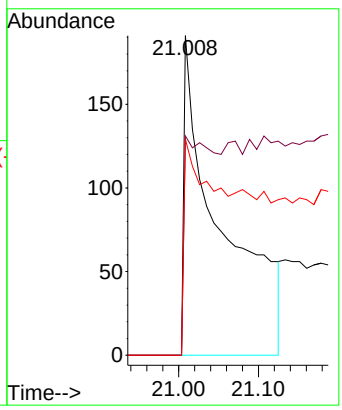


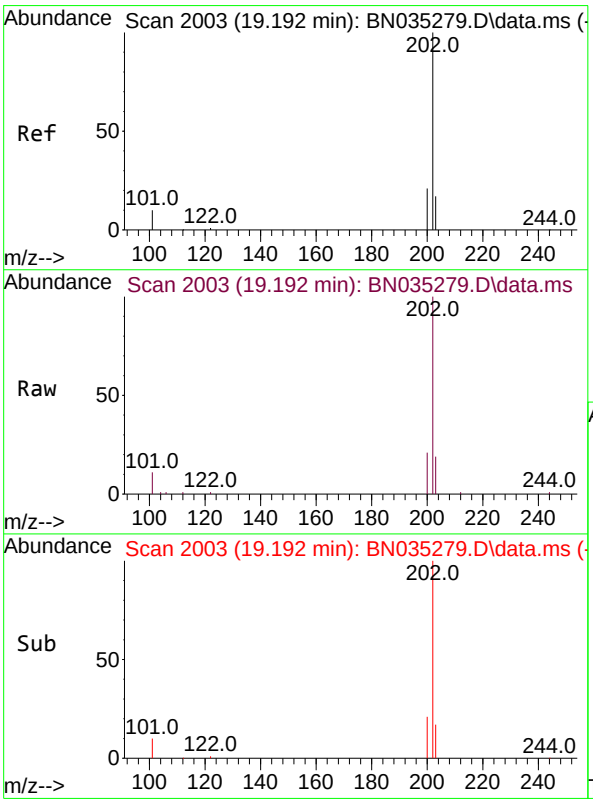
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 586

Ion	Ratio	Lower	Upper
240	100		
120	68.6	54.9	82.3
236	67.5	54.0	81.0

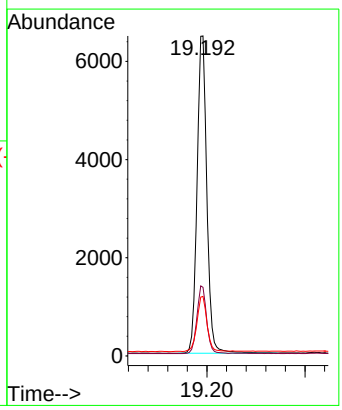


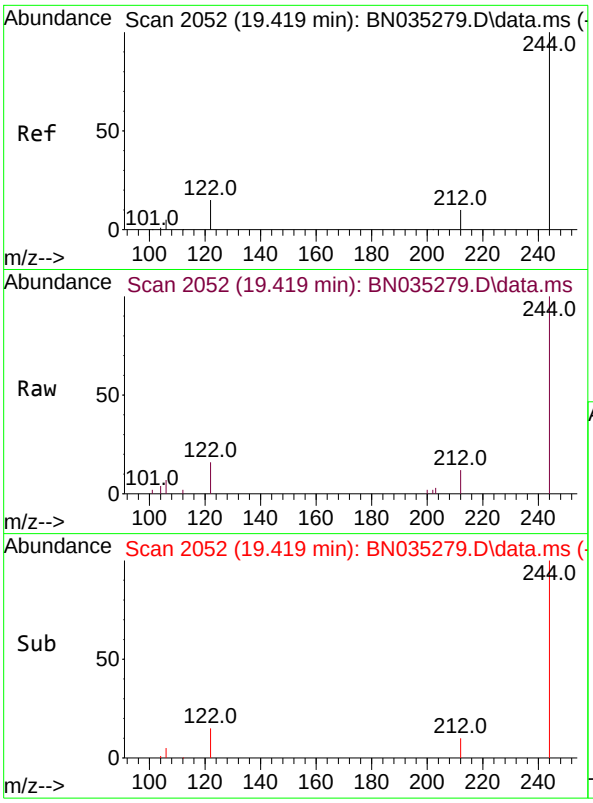


#30
Pyrene
Concen: 4.590 ng
RT: 19.192 min Scan# 2003
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:202 Resp: 8957

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	18.0	14.4	21.6



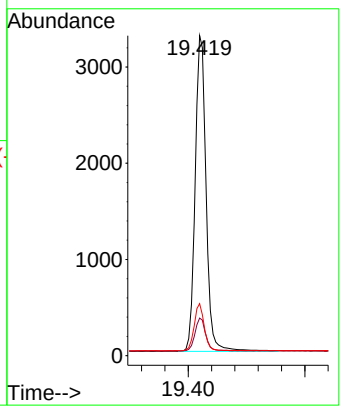


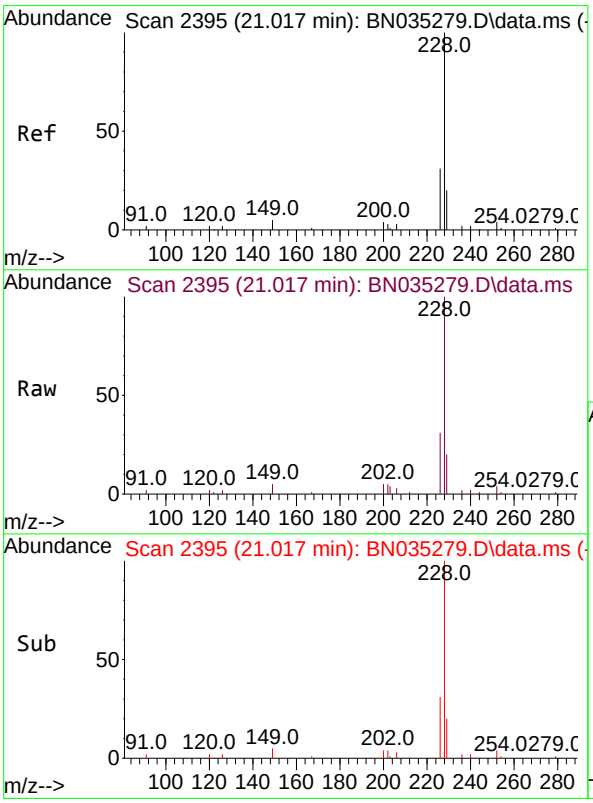
#31
Terphenyl-d14
Concen: 3.460 ng
RT: 19.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 4254

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.4	14.0
122	16.2	13.0	19.4

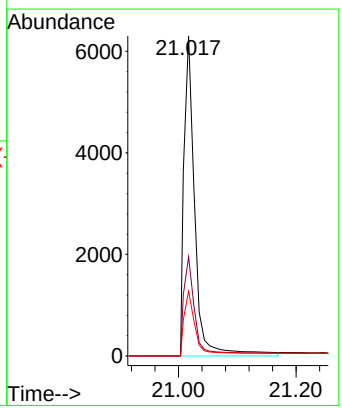


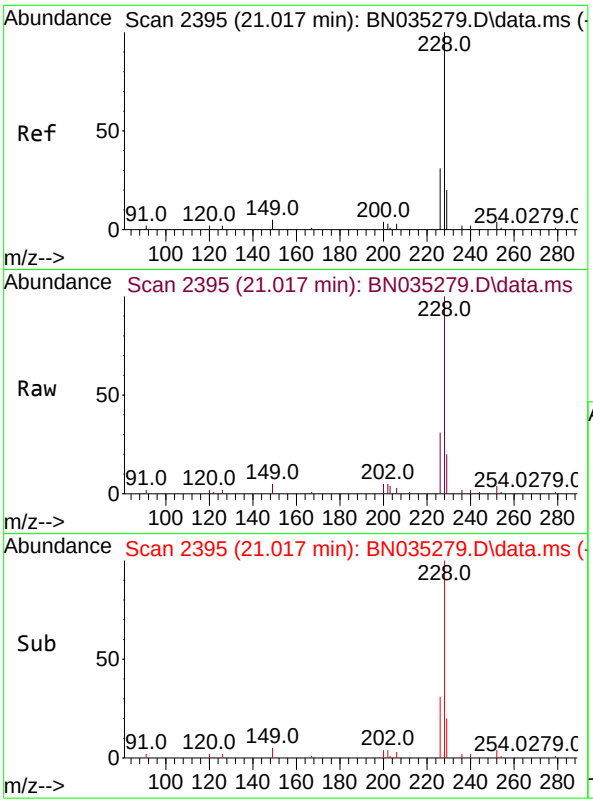


#32
Benzo(a)anthracene
Concen: 3.970 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:228 Resp: 8100

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.7	37.1
229	20.2	16.2	24.2



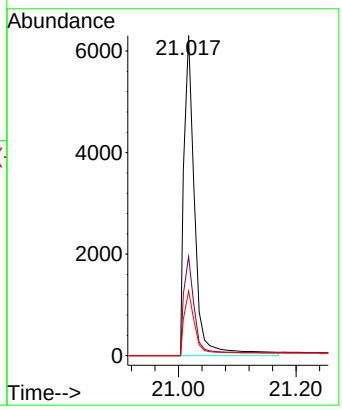


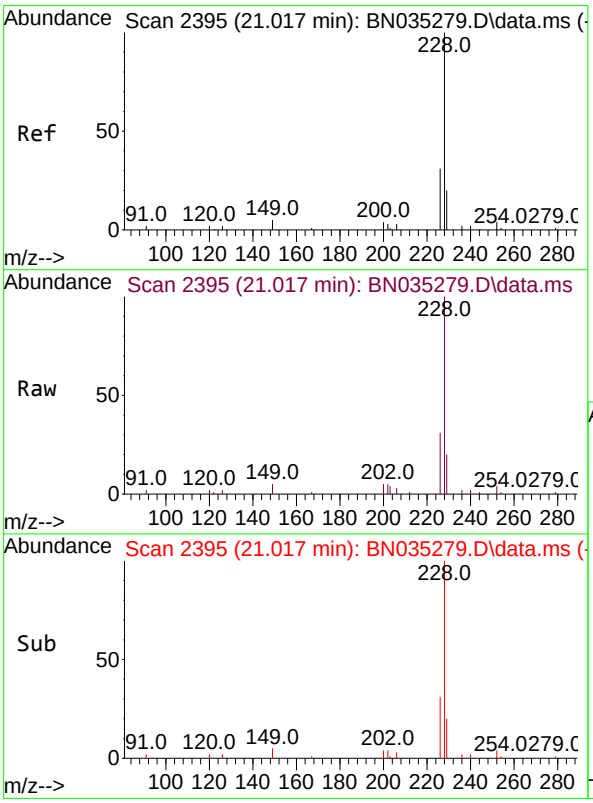
#33
Chrysene
Concen: 4.007 ng
RT: 21.017 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 8100

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.7	37.1
229	20.2	16.2	24.2

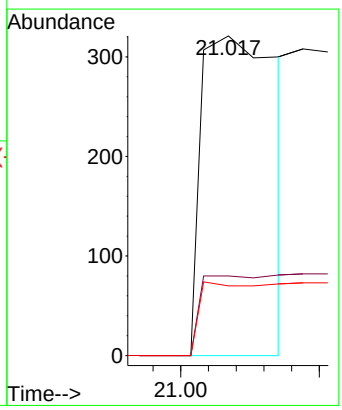


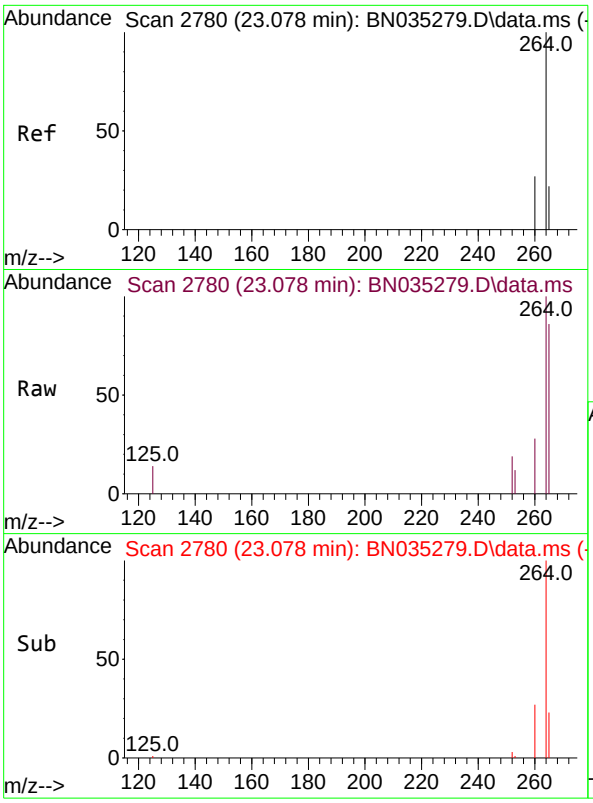


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.498 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:149 Resp: 533

Ion	Ratio	Lower	Upper
149	100		
167	0.0	0.0	0.0
279	16.3	13.0	19.6



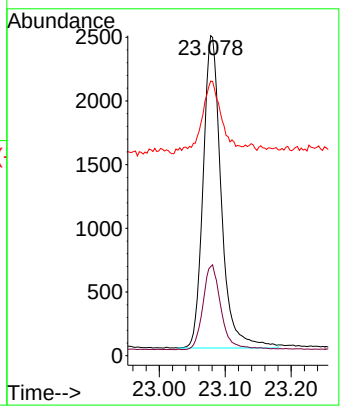


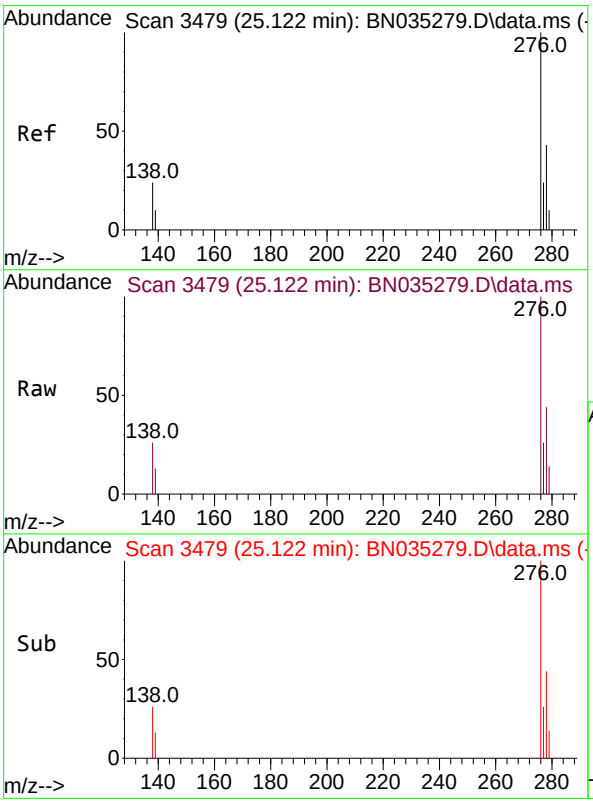
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 4692

Ion	Ratio	Lower	Upper
264	100		
260	27.9	22.3	33.5
265	85.8	68.6	103.0

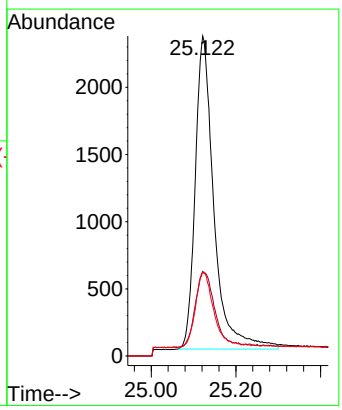


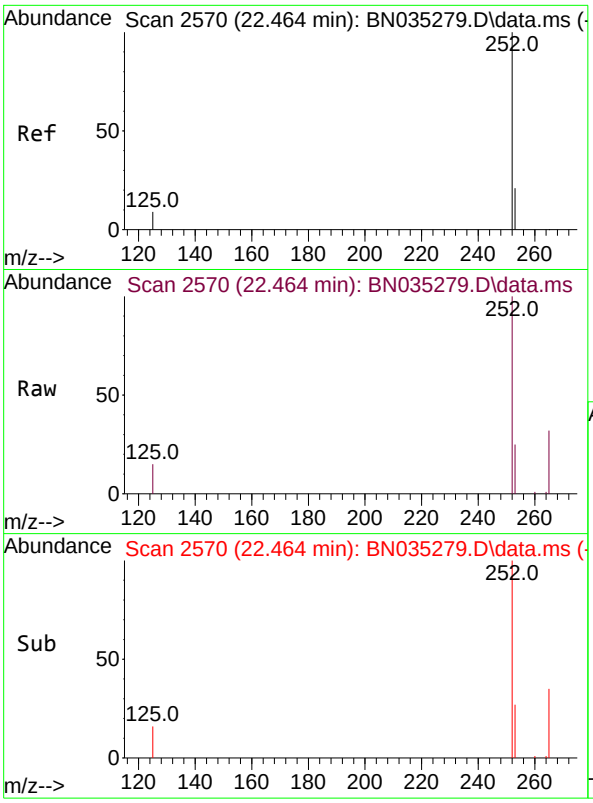


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.382 ng
RT: 25.122 min Scan# 3479
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:276 Resp: 7146

Ion	Ratio	Lower	Upper
276	100		
138	23.5	18.8	28.2
277	22.8	18.2	27.4



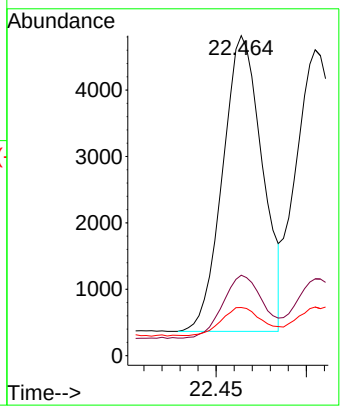


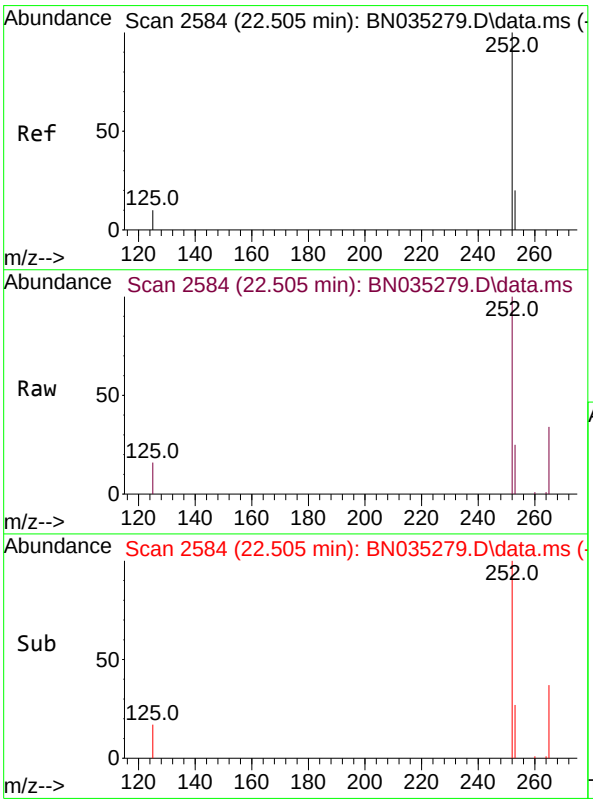
#37
Benzo(b)fluoranthene
Concen: 0.432 ng
RT: 22.464 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 6813

Ion	Ratio	Lower	Upper
252	100		
253	25.2	20.2	30.2
125	15.0	12.0	18.0

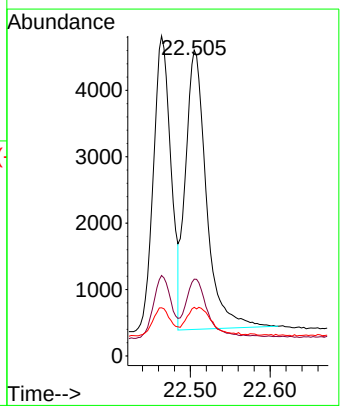


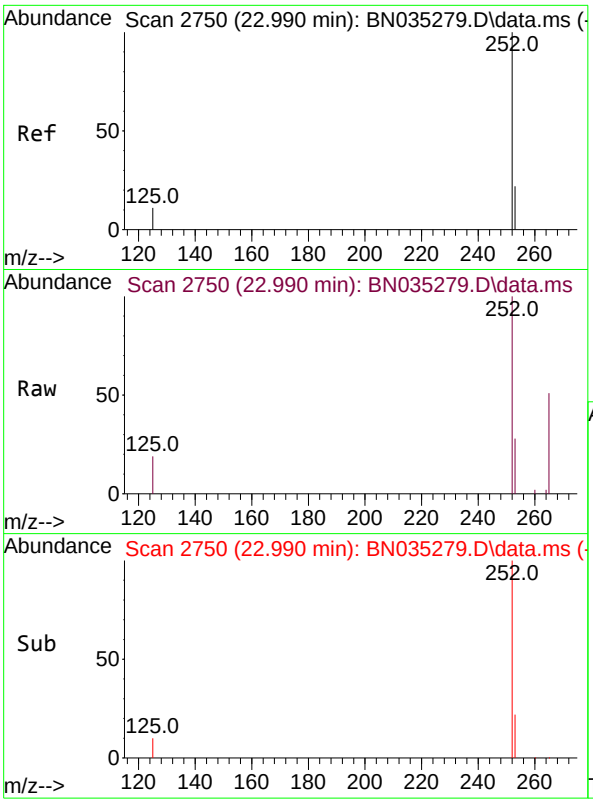


#38
Benzo(k)fluoranthene
Concen: 0.485 ng
RT: 22.505 min Scan# 2584
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:252 Resp: 7659

Ion	Ratio	Lower	Upper
252	100		
253	25.1	20.1	30.1
125	15.9	12.7	19.1



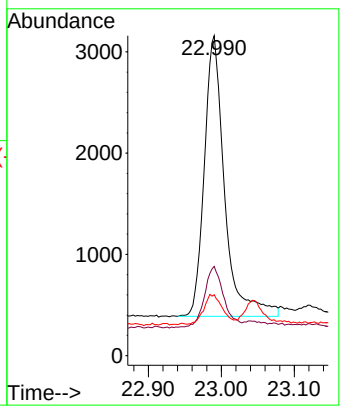


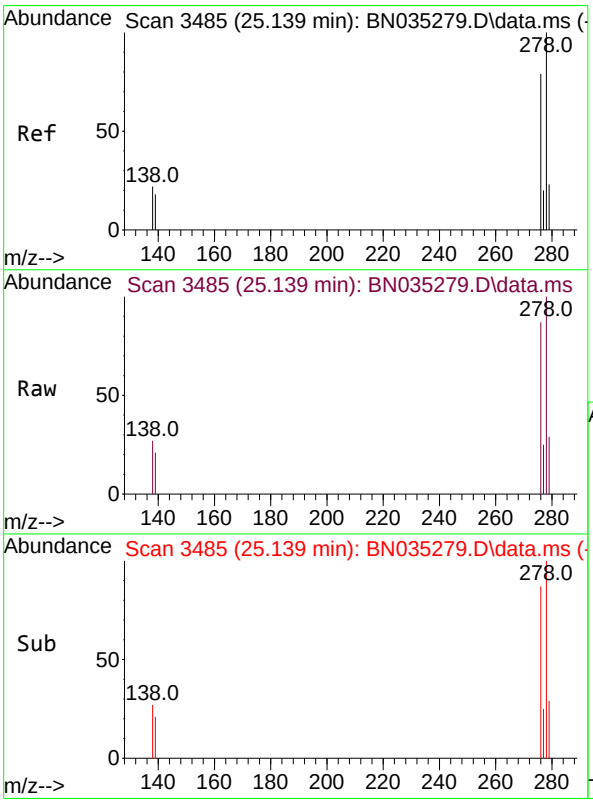
#39
Benzo(a)pyrene
Concen: 0.386 ng
RT: 22.990 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 5365

Ion	Ratio	Lower	Upper
252	100		
253	27.9	22.3	33.5
125	19.1	15.3	22.9

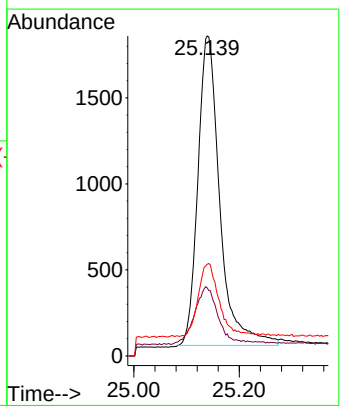


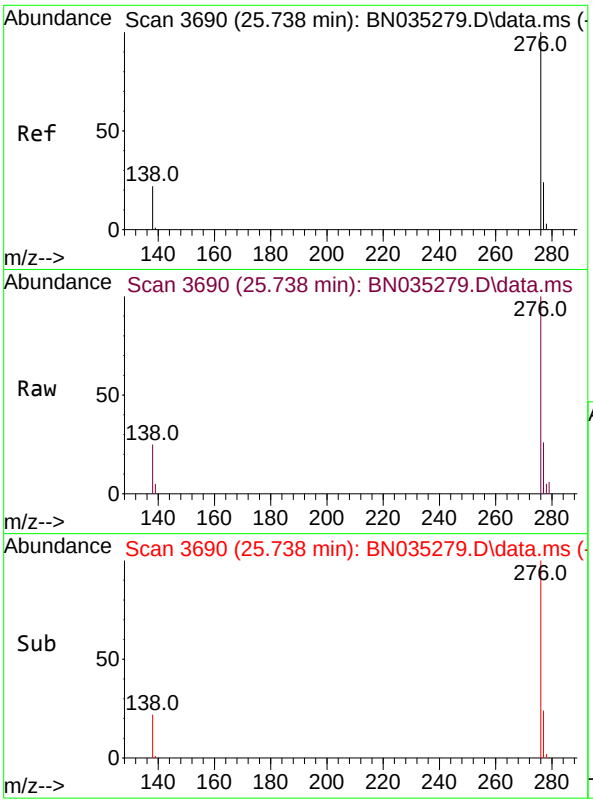


#40
Dibenzo(a,h)anthracene
Concen: 0.350 ng
RT: 25.139 min Scan# 3485
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:278 Resp: 5194

Ion	Ratio	Lower	Upper
278	100		
139	21.3	17.0	25.6
279	28.7	23.0	34.4



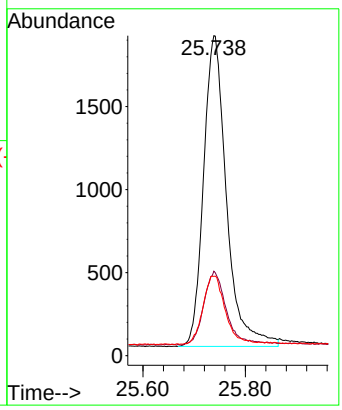


#41
Benzo(g,h,i)perylene
Concen: 0.369 ng
RT: 25.738 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 5823

Ion	Ratio	Lower	Upper
276	100		
277	26.4	21.1	31.7
138	24.8	19.8	29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035280.D
Acq On : 25 Nov 2024 12:04
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 55 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 25 14:19:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration

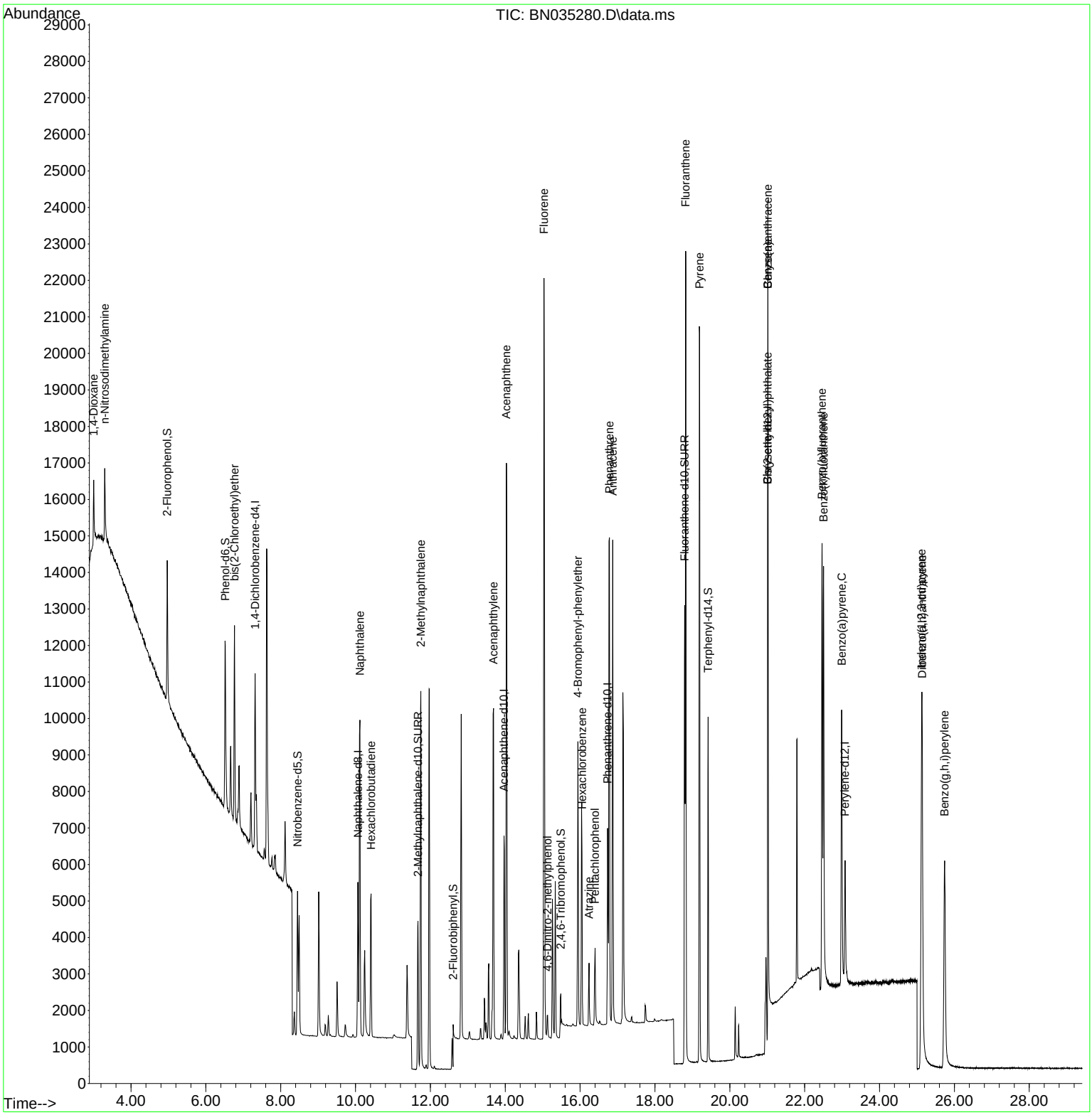
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.315	152	2258	0.400	ng		0.00
7) Naphthalene-d8	10.063	136	5425	0.400	ng		0.00
13) Acenaphthene-d10	13.966	164	2924	0.400	ng		-0.01
19) Phenanthrene-d10	16.734	188	6884	0.400	ng		0.00
29) Chrysene-d12	21.008	240	725	0.400	ng		0.00
35) Perylene-d12	23.078	264	4193	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	3276	0.572	ng		0.00
5) Phenol-d6	6.520	99	4617	0.642	ng		0.00
8) Nitrobenzene-d5	8.450	82	3545	0.751	ng		0.00
11) 2-Methylnaphthalene-d10	11.666	152	5717	0.591	ng		0.00
14) 2,4,6-Tribromophenol	15.484	330	1086	0.515	ng		0.00
15) 2-Fluorobiphenyl	12.608	172	691	0.058	ng		0.00
27) Fluoranthene-d10	18.792	212	13734	0.651	ng		0.00
31) Terphenyl-d14	19.419	244	8811	5.792	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	1187	0.579	ng	#	83
3) n-Nitrosodimethylamine	3.299	42	1383	0.724	ng	#	78
6) bis(2-Chloroethyl)ether	6.766	93	4007	0.743	ng		99
9) Naphthalene	10.116	128	11664	0.824	ng		98
10) Hexachlorobutadiene	10.415	225	3379	0.814	ng	#	100
12) 2-Methylnaphthalene	11.742	142	7328	0.701	ng		99
16) Acenaphthylene	13.688	152	11221	0.898	ng		99
17) Acenaphthene	14.030	154	6985	0.853	ng		99
18) Fluorene	15.035	166	9874	0.820	ng		100
20) 4,6-Dinitro-2-methylph...	15.131	198	542	0.378	ng	#	71
21) 4-Bromophenyl-phenylether	15.939	248	3203	0.730	ng		98
22) Hexachlorobenzene	16.051	284	5001	1.099	ng		99
23) Atrazine	16.237	200	1376	0.350	ng		95
24) Pentachlorophenol	16.399	266	1125	0.529	ng		96
25) Phenanthrene	16.783	178	16001	0.883	ng		99
26) Anthracene	16.870	178	13123	0.789	ng		99
28) Fluoranthene	18.820	202	20007	0.803	ng		100
30) Pyrene	19.192	202	18434	7.635	ng		99
32) Benzo(a)anthracene	21.017	228	16677	6.606	ng		99
33) Chrysene	21.017	228	16677	6.669	ng		99
34) Bis(2-ethylhexyl)phtha...	21.008	149	733	0.553	ng	#	62
36) Indeno(1,2,3-cd)pyrene	25.124	276	13203	0.789	ng		99
37) Benzo(b)fluoranthene	22.464	252	14372	1.019	ng		95
38) Benzo(k)fluoranthene	22.505	252	15061	1.067	ng	#	95
39) Benzo(a)pyrene	22.987	252	10876	0.876	ng	#	92
40) Dibenzo(a,h)anthracene	25.139	278	10078	0.760	ng		94
41) Benzo(g,h,i)perylene	25.738	276	11838	0.840	ng		97

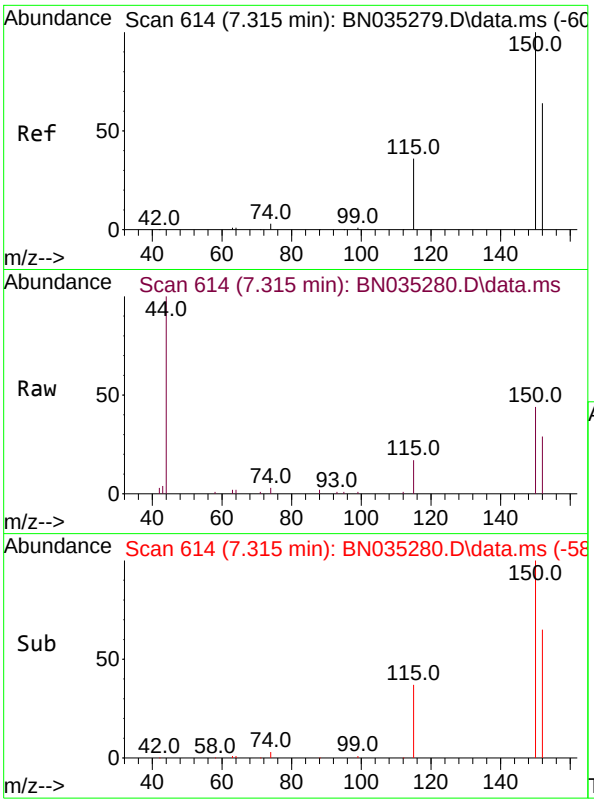
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035280.D
Acq On : 25 Nov 2024 12:04
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 55 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 25 14:19:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration



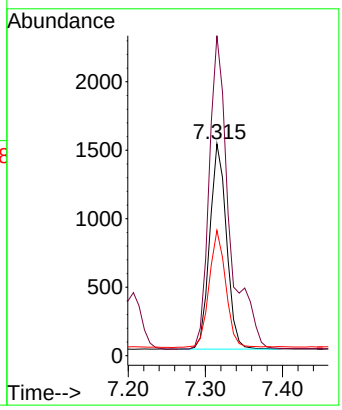


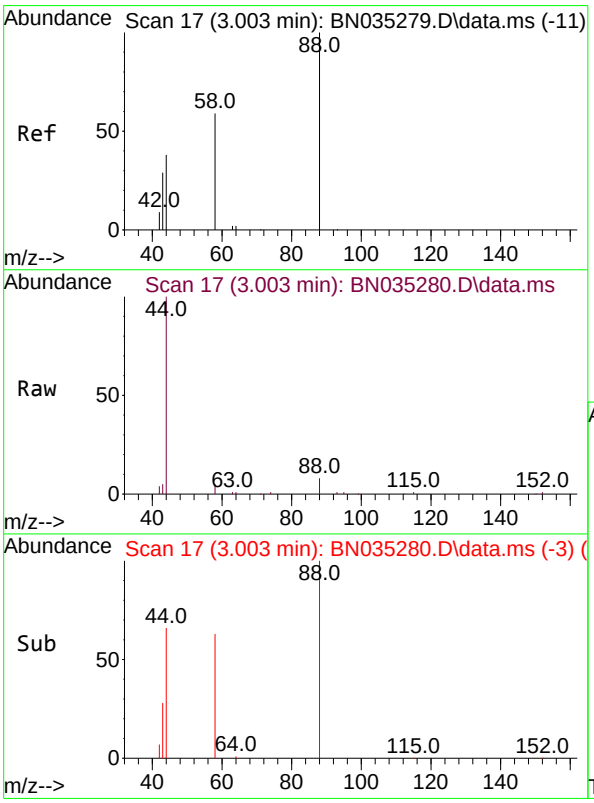
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2258

Ion	Ratio	Lower	Upper
152	100		
150	151.1	124.5	186.7
115	59.1	47.8	71.8

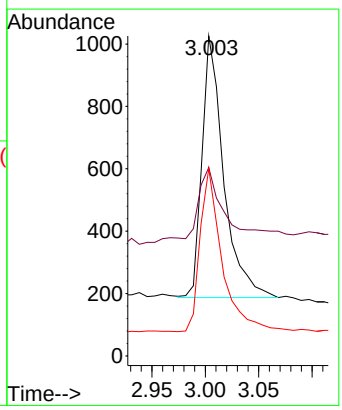


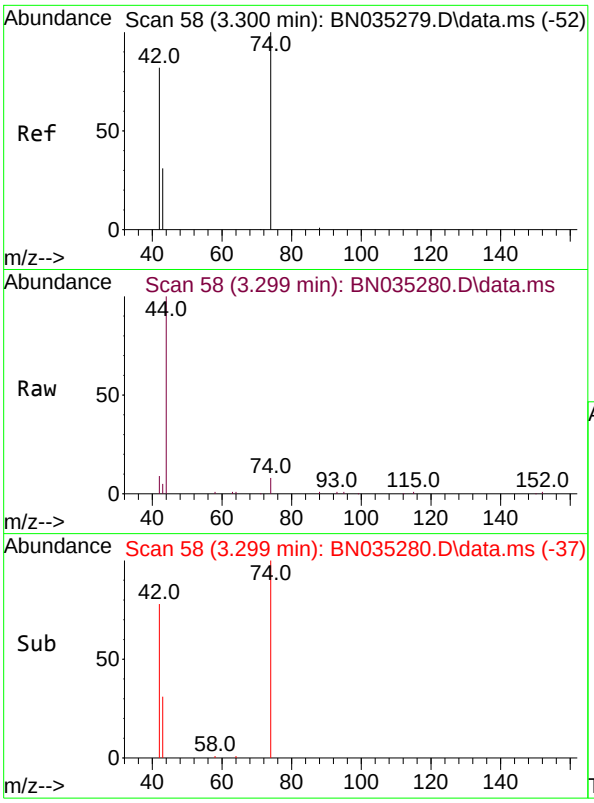


#2
1,4-Dioxane
Concen: 0.579 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion: 88 Resp: 1187

Ion	Ratio	Lower	Upper
88	100		
43	39.6	48.1	72.1#
58	63.3	46.9	70.3



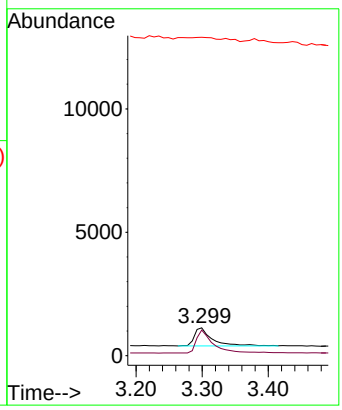


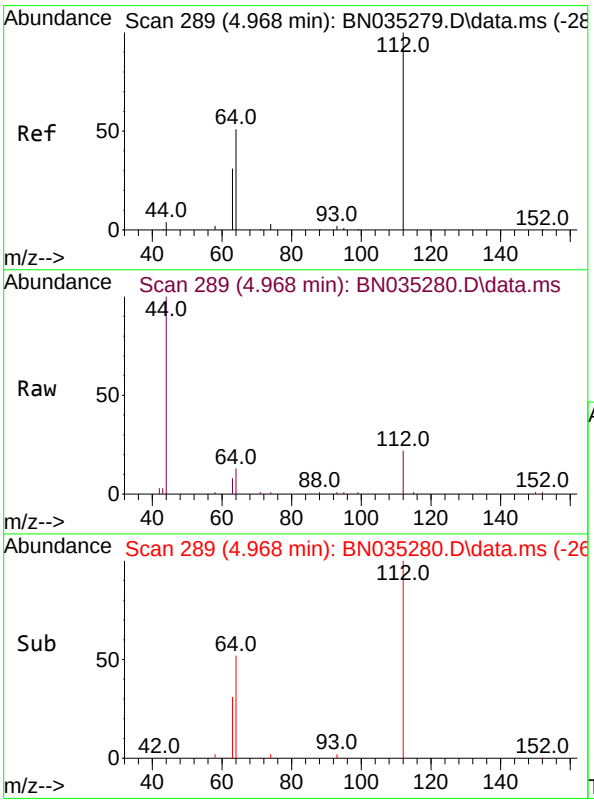
#3
n-Nitrosodimethylamine
Concen: 0.724 ng
RT: 3.299 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 1383

Ion	Ratio	Lower	Upper
42	100		
74	120.0	102.7	154.1
44	0.0	34.1	51.1#

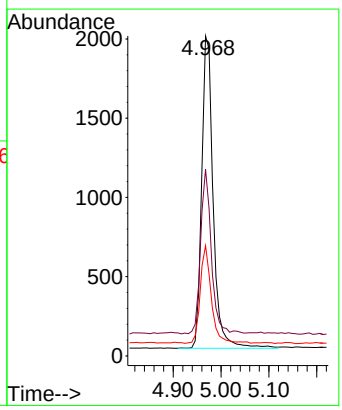


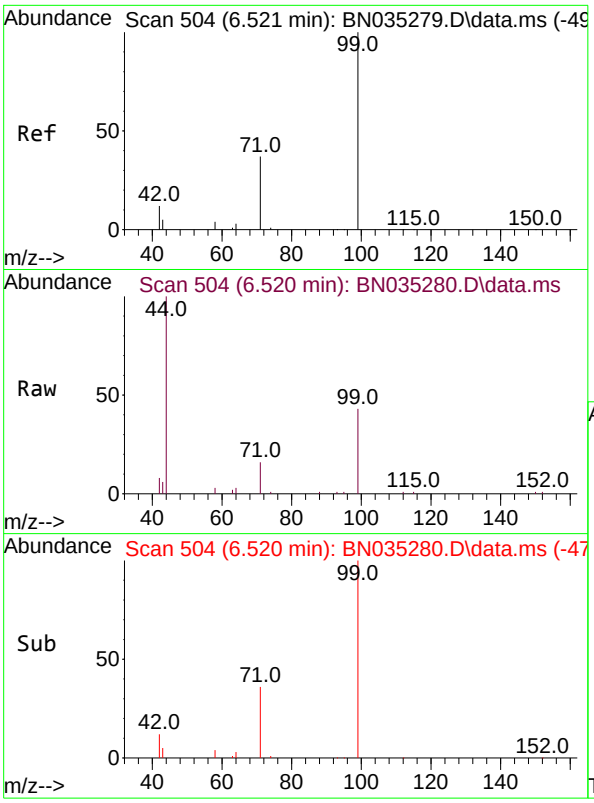


#4
2-Fluorophenol
Concen: 0.572 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:112 Resp: 3276

Ion	Ratio	Lower	Upper
112	100		
64	49.6	40.4	60.6
63	30.1	23.8	35.8



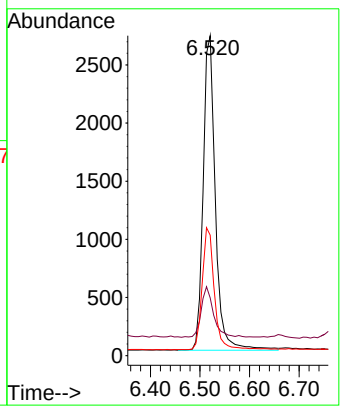


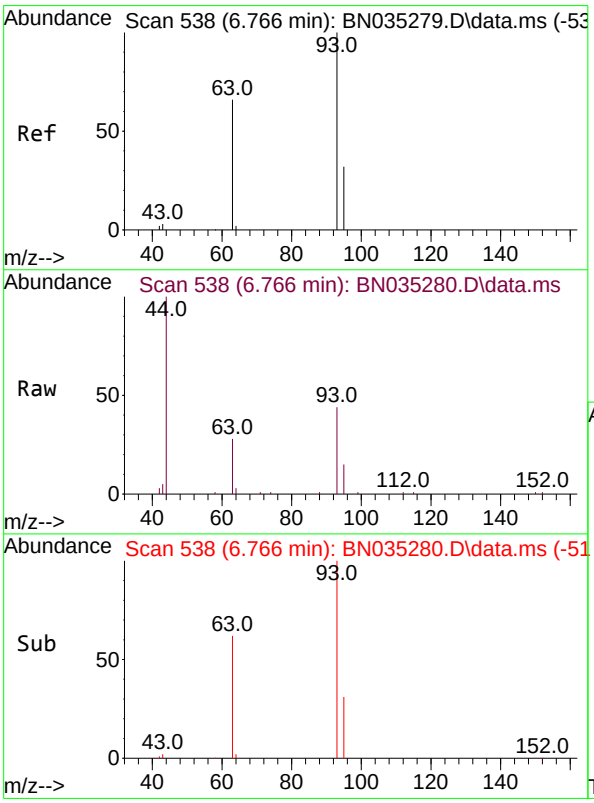
#5
Phenol-d6
Concen: 0.642 ng
RT: 6.520 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 4617

Ion	Ratio	Lower	Upper
99	100		
42	16.7	12.8	19.2
71	38.6	31.4	47.2

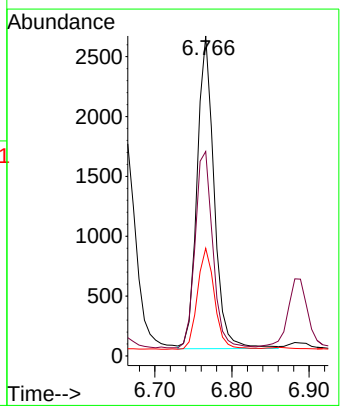


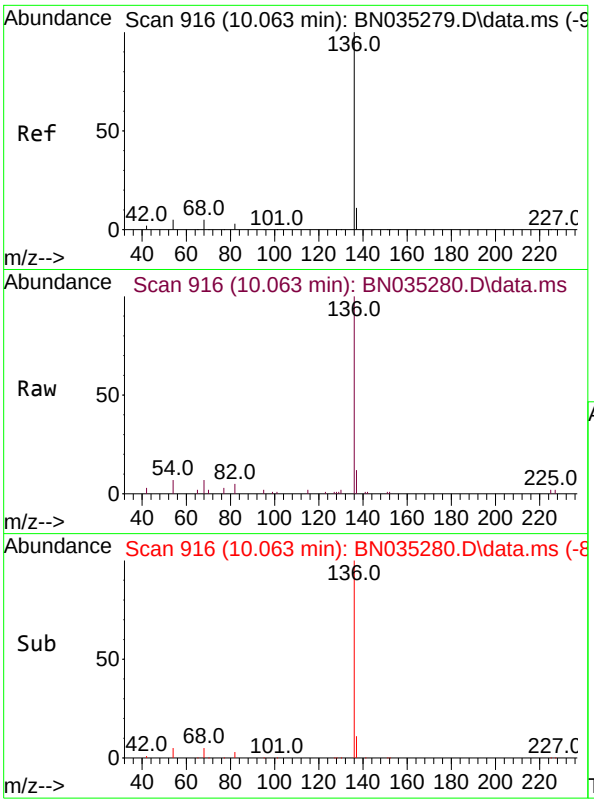


#6
bis(2-Chloroethyl)ether
Concen: 0.743 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion: 93 Resp: 4007

Ion	Ratio	Lower	Upper
93	100		
63	65.0	52.3	78.5
95	32.3	25.5	38.3



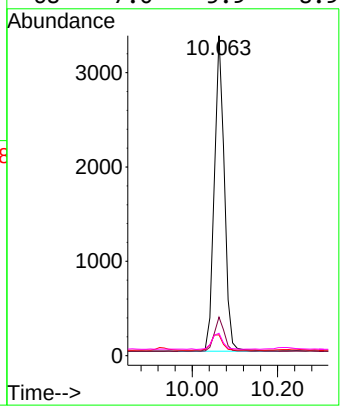


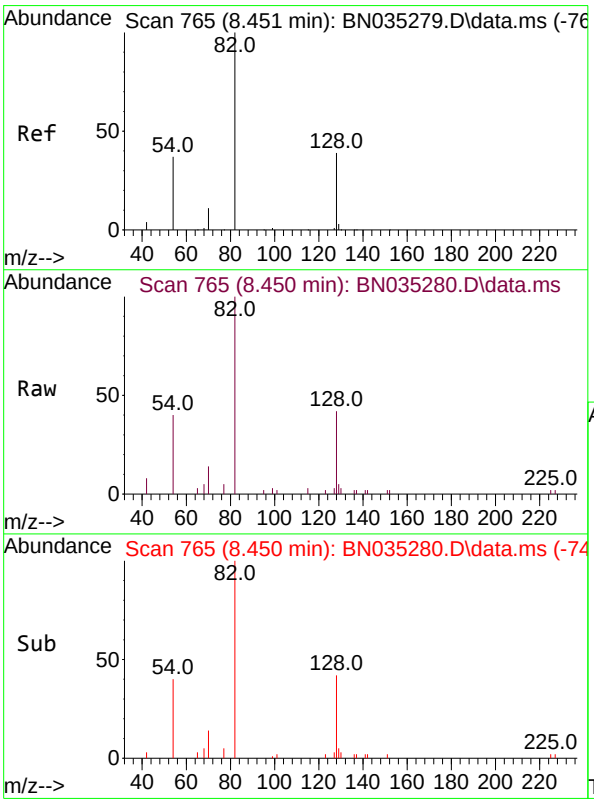
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5425

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	6.5	5.3	7.9
68	7.0	5.9	8.9

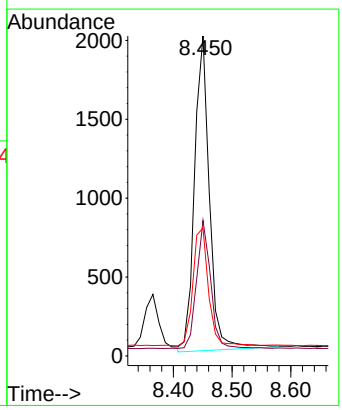


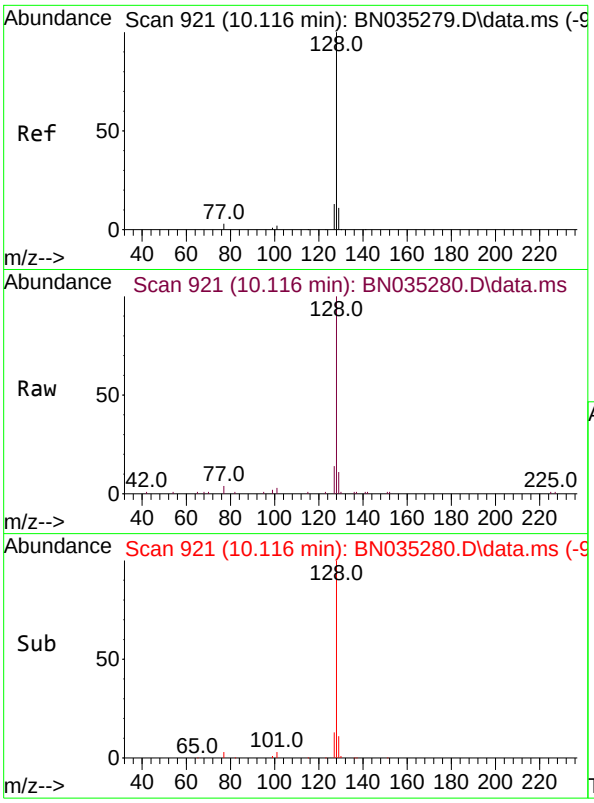


#8
Nitrobenzene-d5
Concen: 0.751 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion: 82 Resp: 3545

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.0	49.4
54	40.0	33.3	49.9



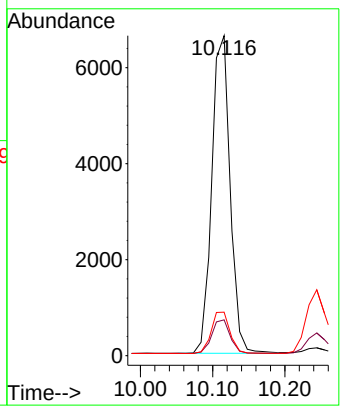


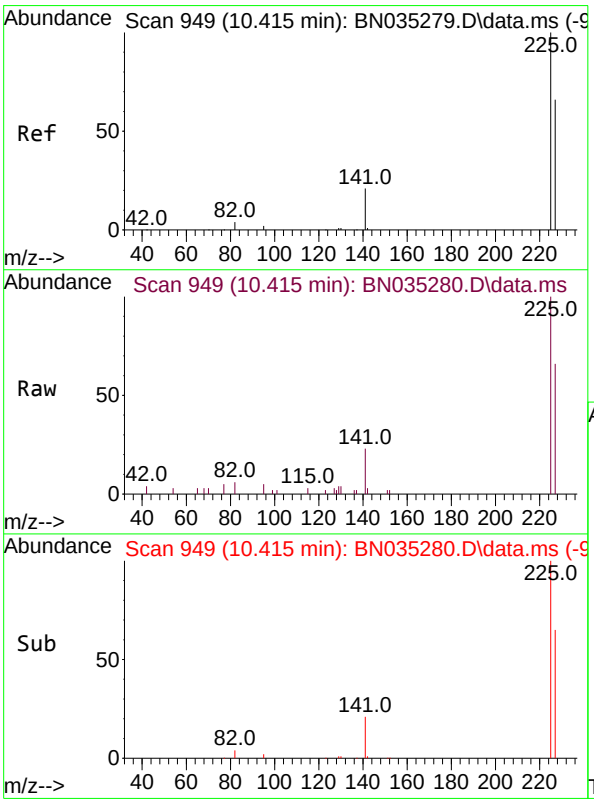
#9
Naphthalene
Concen: 0.824 ng
RT: 10.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 11664

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.6	14.4
127	13.6	11.3	16.9

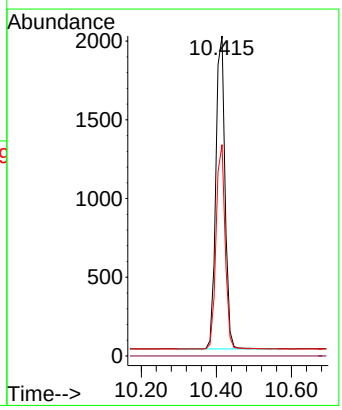


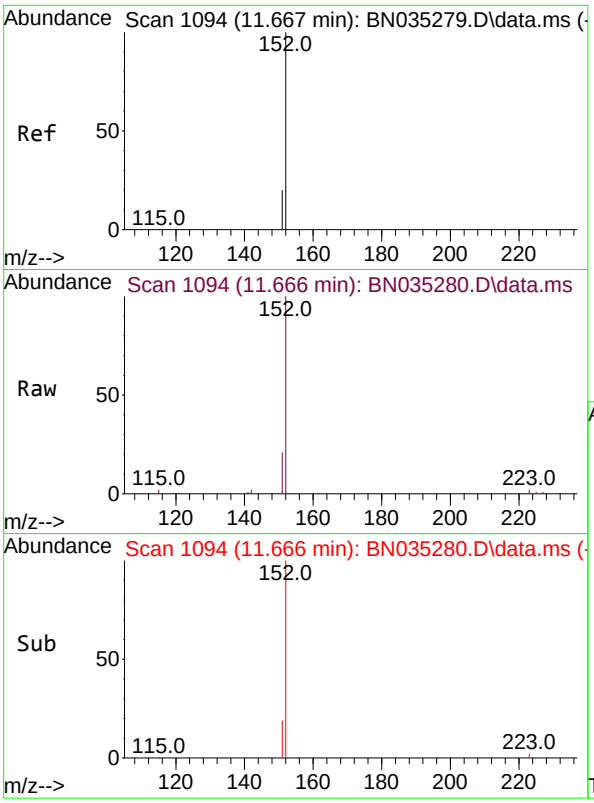


#10
Hexachlorobutadiene
Concen: 0.814 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:225 Resp: 3379

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



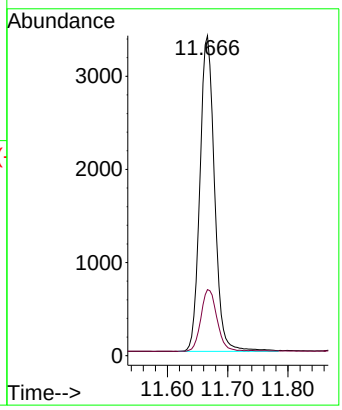


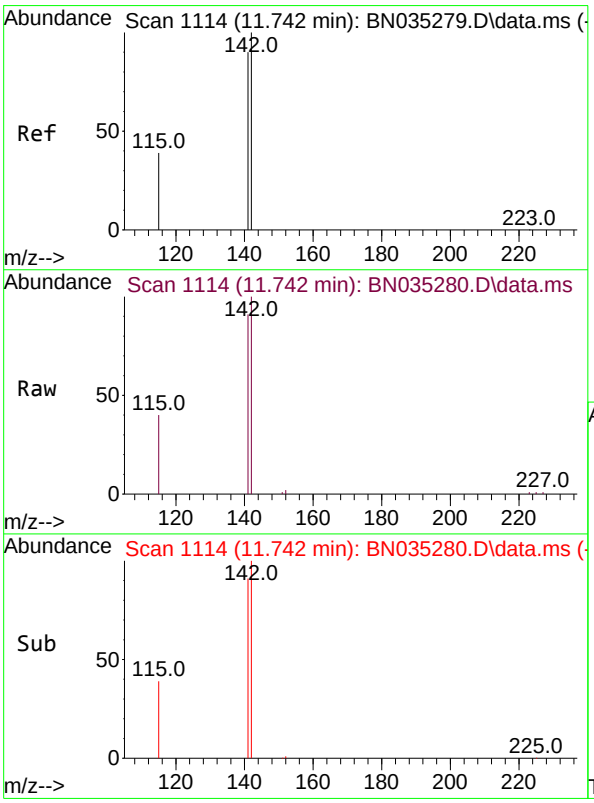
#11
2-Methylnaphthalene-d10
Concen: 0.591 ng
RT: 11.666 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 5717

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.2	25.8

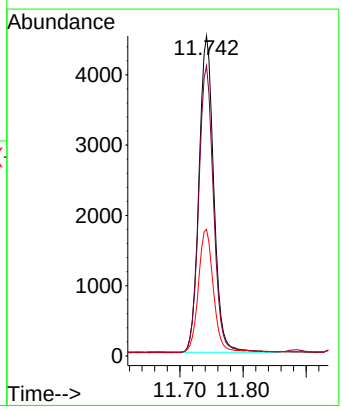


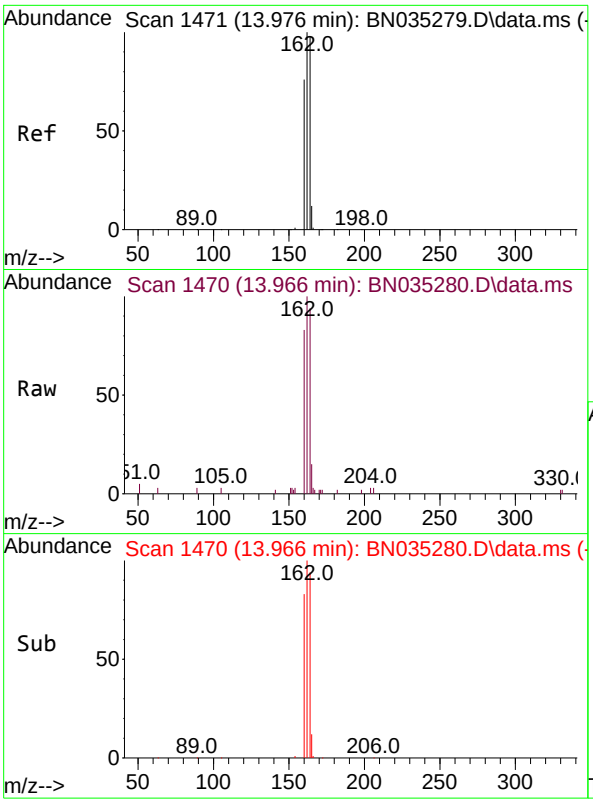


#12
2-Methylnaphthalene
Concen: 0.701 ng
RT: 11.742 min Scan# 1114
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:142 Resp: 7328

Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.8	107.8
115	39.6	32.6	49.0



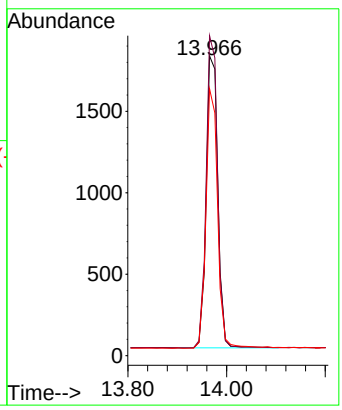


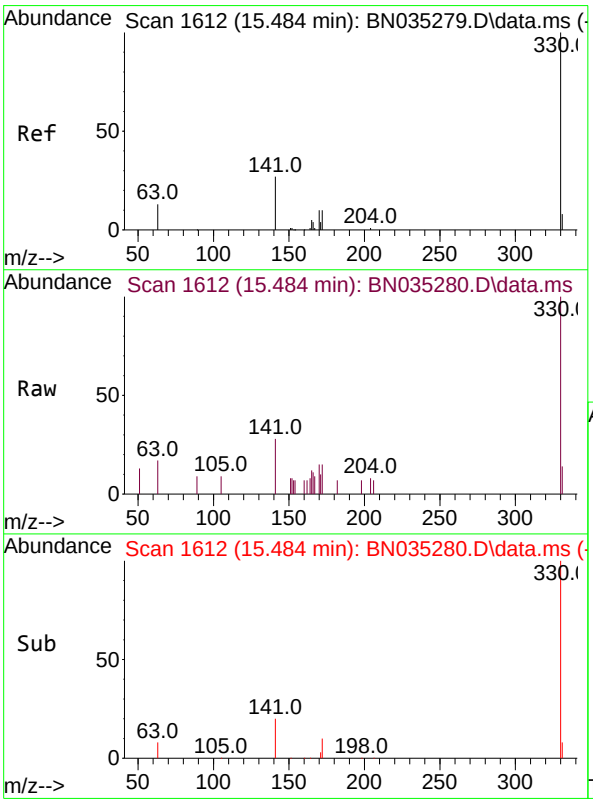
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.966 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 2924

Ion	Ratio	Lower	Upper
164	100		
162	106.8	82.0	123.0
160	89.1	63.0	94.4

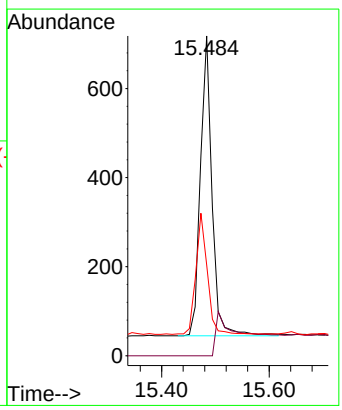


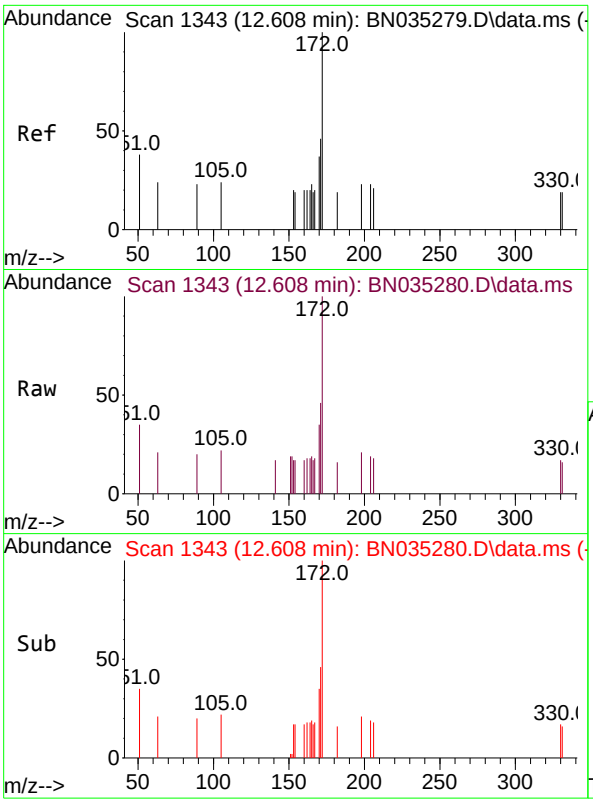


#14
2,4,6-Tribromophenol
Concen: 0.515 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:330 Resp: 1086

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	39.4	32.4	48.6



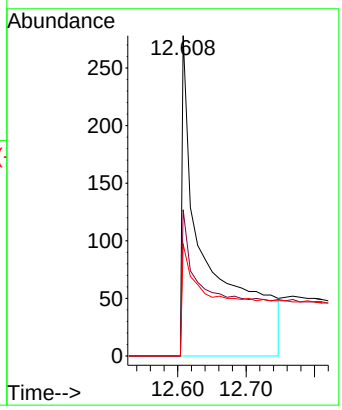


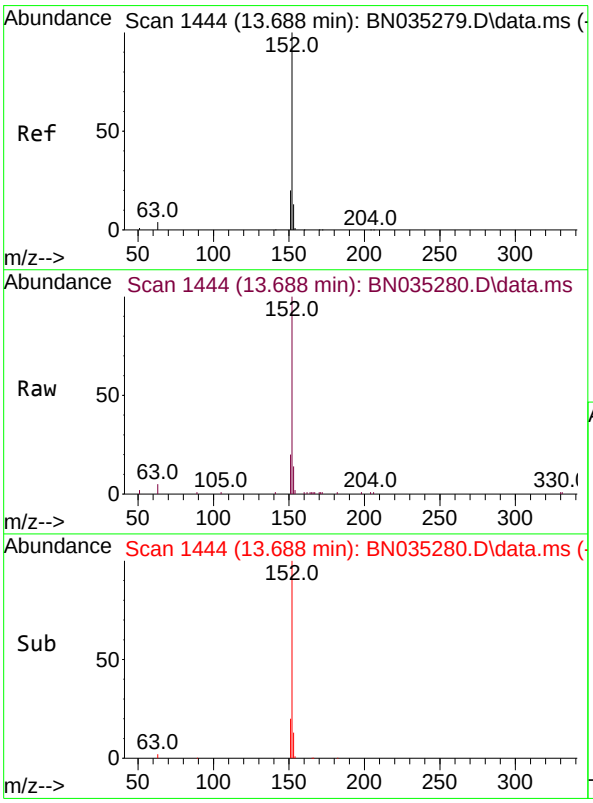
#15
2-Fluorobiphenyl
Concen: 0.058 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 691

Ion	Ratio	Lower	Upper
172	100		
171	45.7	36.6	55.0
170	34.9	29.7	44.5

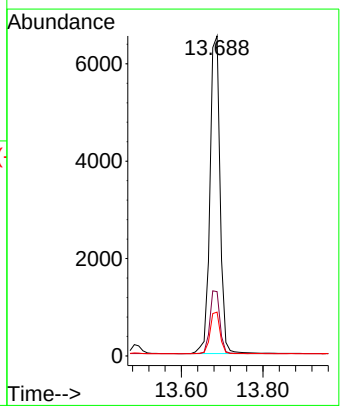


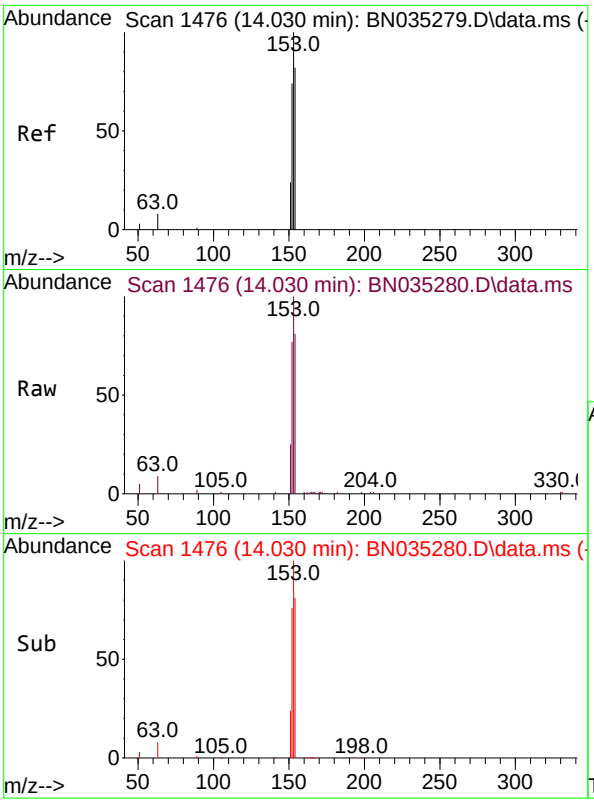


#16
Acenaphthylene
Concen: 0.898 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:152 Resp: 11221

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.9	23.9
153	13.0	10.2	15.4



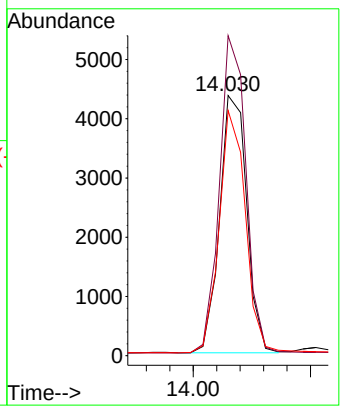


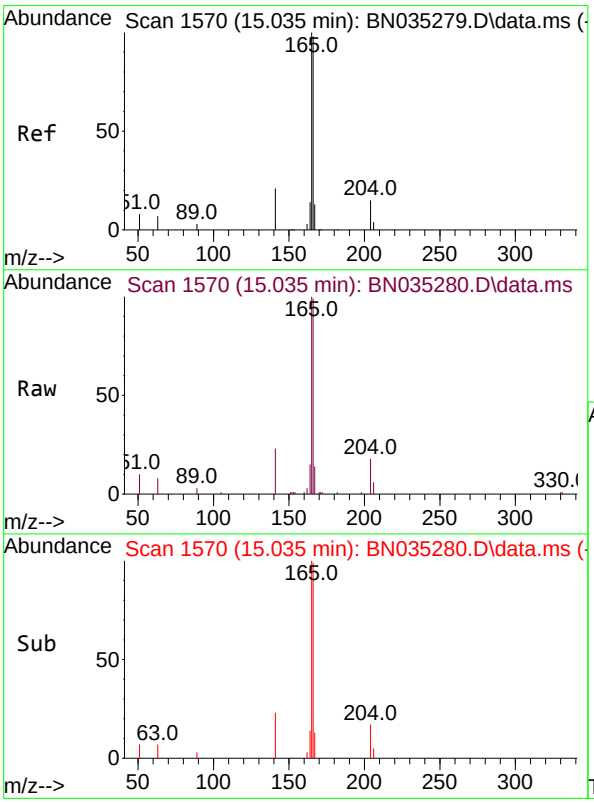
#17
Acenaphthene
Concen: 0.853 ng
RT: 14.030 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 6985

Ion	Ratio	Lower	Upper
154	100		
153	120.3	96.1	144.1
152	92.3	72.2	108.2

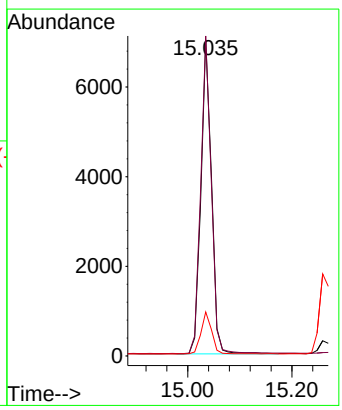


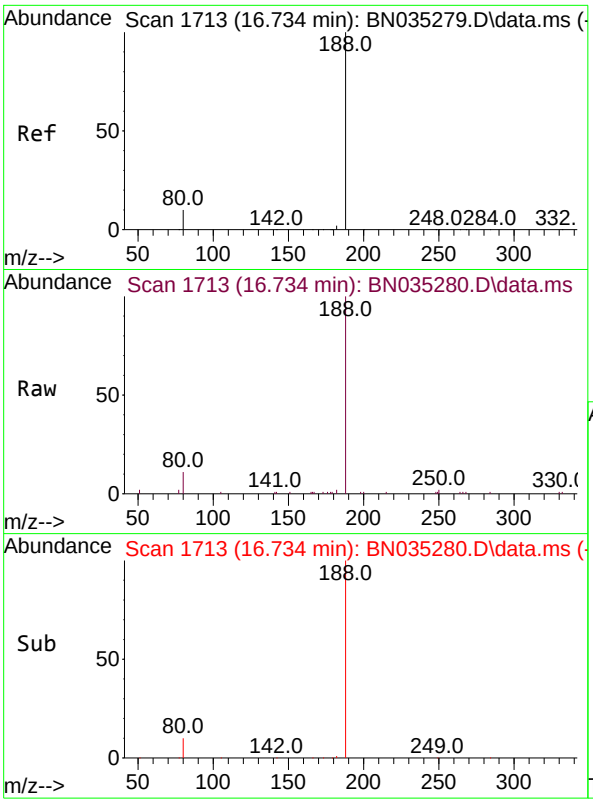


#18
Fluorene
Concen: 0.820 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:166 Resp: 9874

Ion	Ratio	Lower	Upper
166	100		
165	101.4	81.2	121.8
167	13.3	10.5	15.7



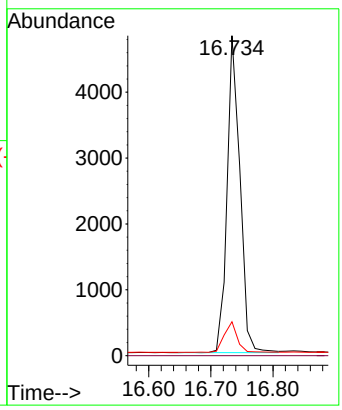


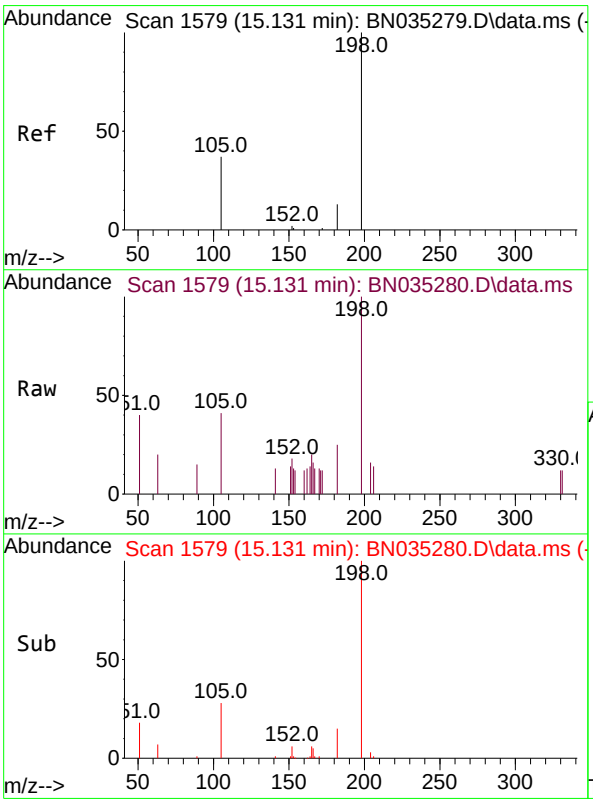
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 6884

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	8.9	13.3

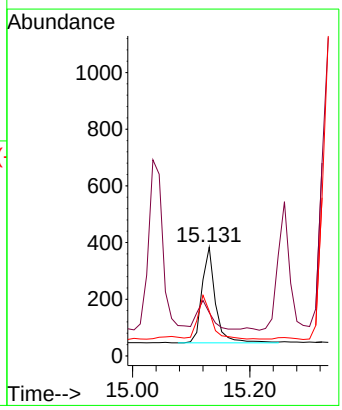


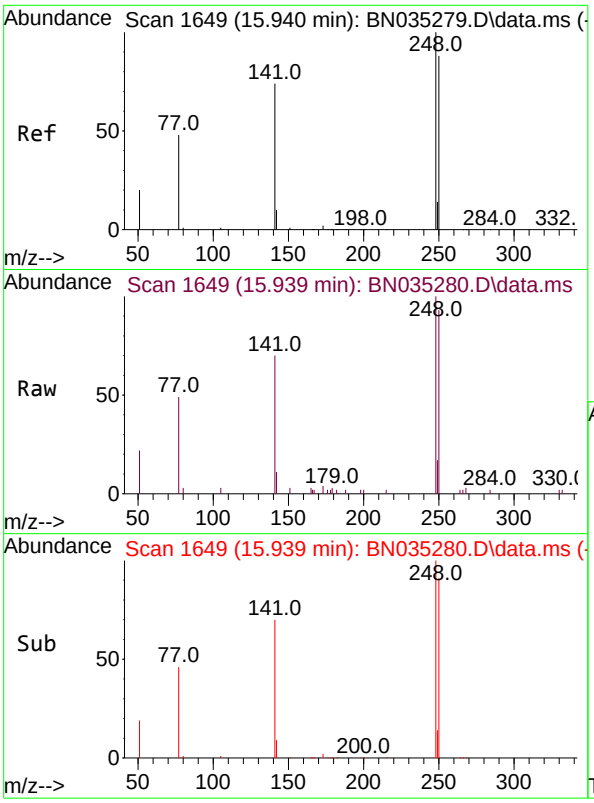


#20
4,6-Dinitro-2-methylphenol
Concen: 0.378 ng
RT: 15.131 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:198 Resp: 542

Ion	Ratio	Lower	Upper
198	100		
51	39.8	53.6	80.4#
105	41.1	47.4	71.2#



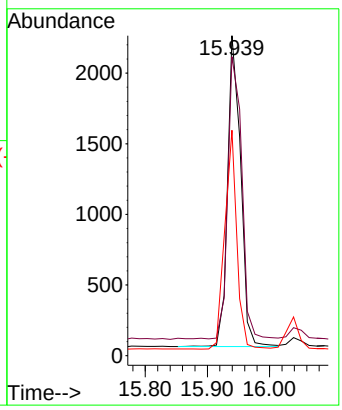


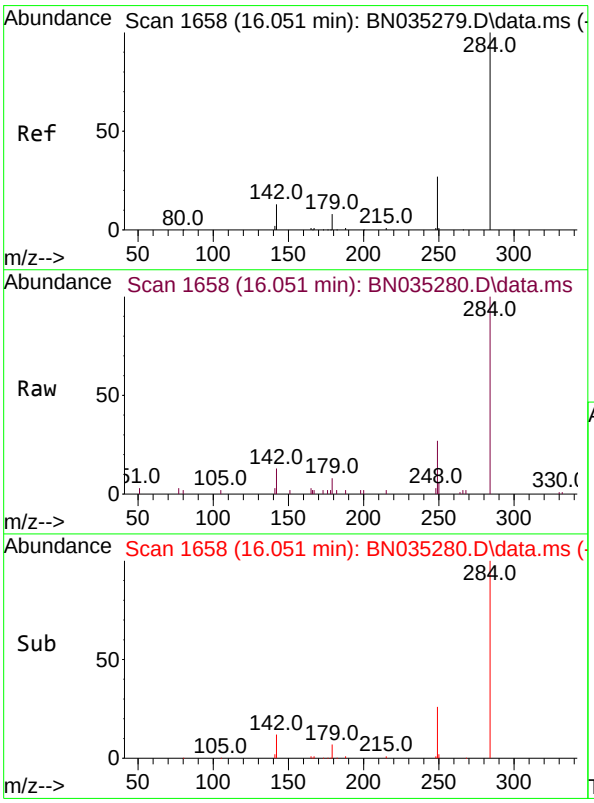
#21
4-Bromophenyl-phenylether
Concen: 0.730 ng
RT: 15.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 3203

Ion	Ratio	Lower	Upper
248	100		
250	93.5	74.8	112.2
141	70.5	59.0	88.4

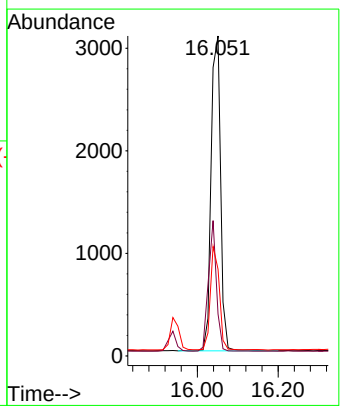


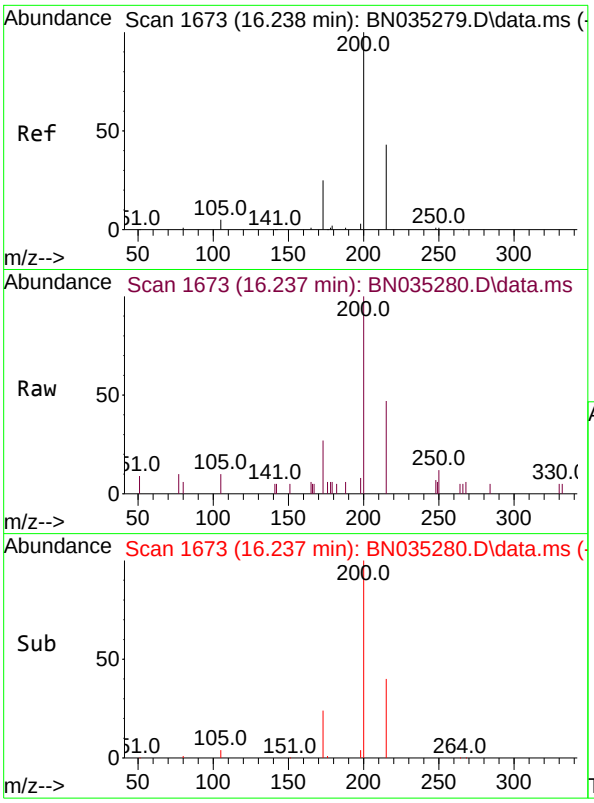


#22
Hexachlorobenzene
Concen: 1.099 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:284 Resp: 5001

Ion	Ratio	Lower	Upper
284	100		
142	35.2	28.7	43.1
249	30.8	25.4	38.0



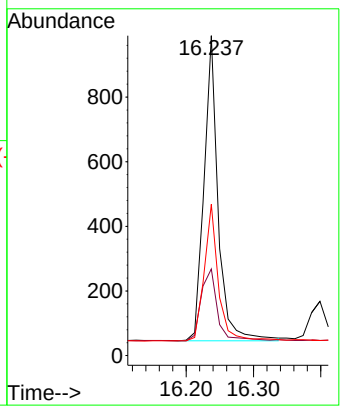


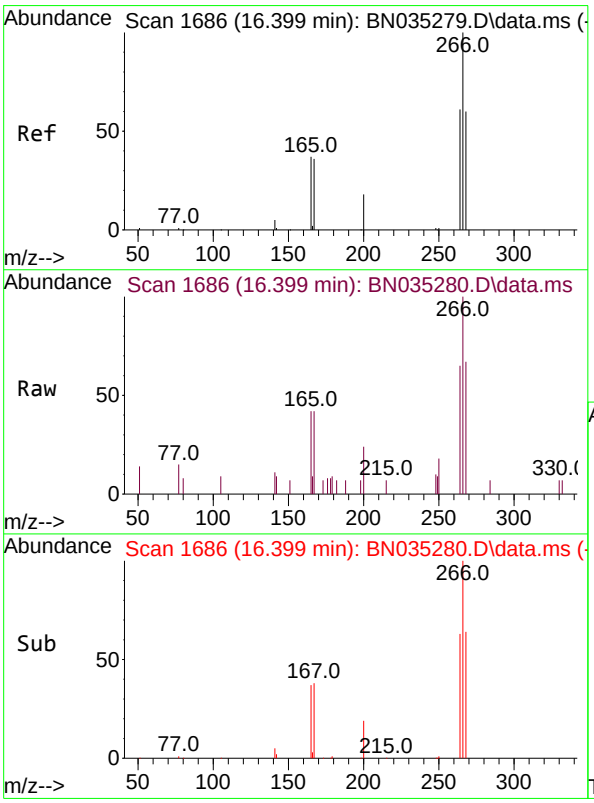
#23
Atrazine
Concen: 0.350 ng
RT: 16.237 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 1376

Ion	Ratio	Lower	Upper
200	100		
173	27.1	25.8	38.8
215	47.3	38.6	58.0

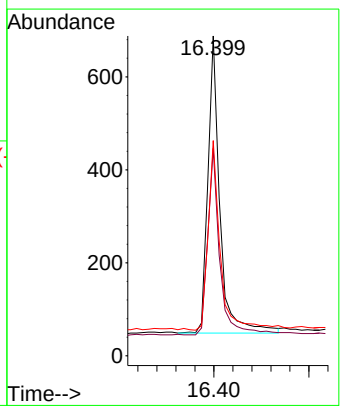


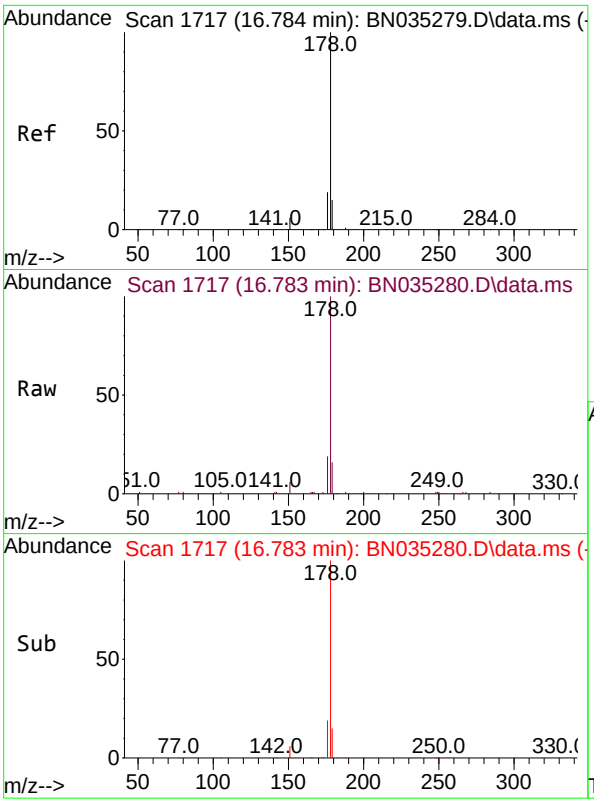


#24
Pentachlorophenol
Concen: 0.529 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:266 Resp: 1125

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.3	73.9
268	65.5	48.6	73.0



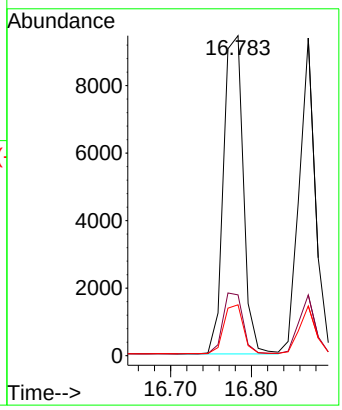


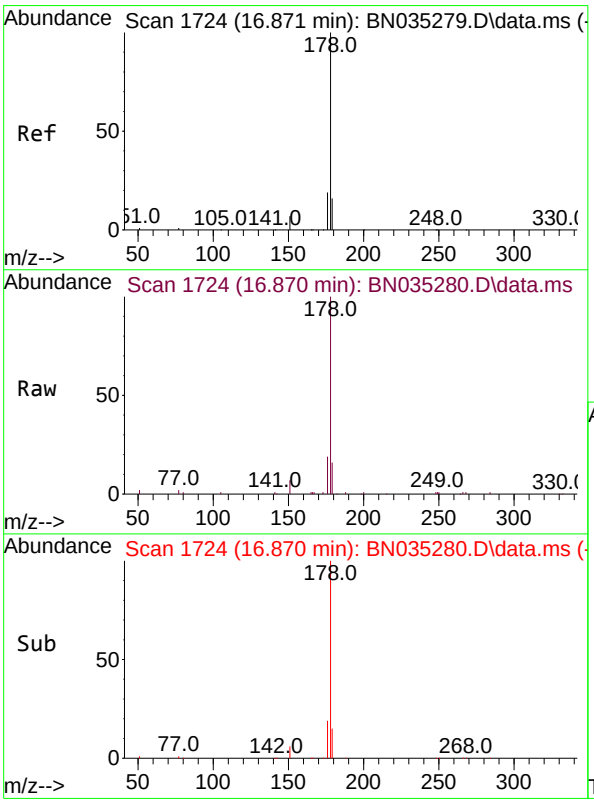
#25
Phenanthrene
Concen: 0.883 ng
RT: 16.783 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 16001

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.3	12.6	18.8

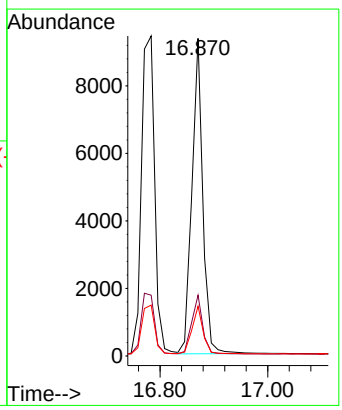


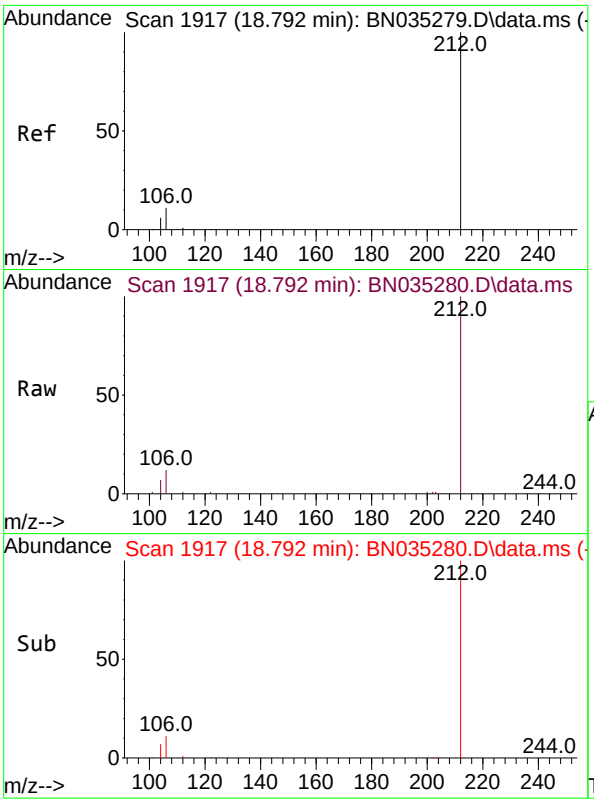


#26
Anthracene
Concen: 0.789 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:178 Resp: 13123

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.4
179	15.2	12.4	18.6



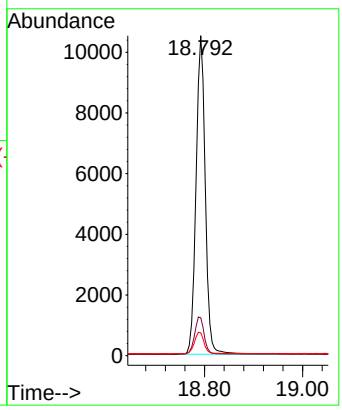


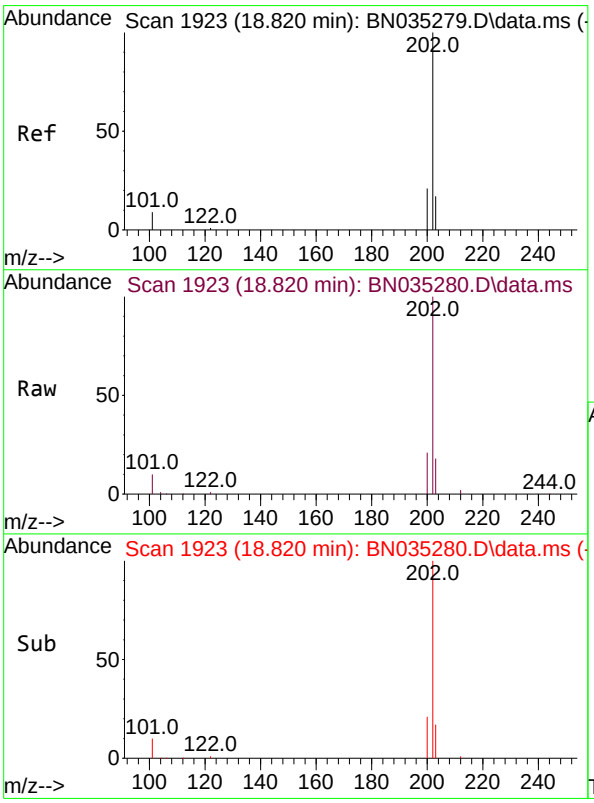
#27
Fluoranthene-d10
Concen: 0.651 ng
RT: 18.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 13734

Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.8	14.8
104	6.9	5.6	8.4

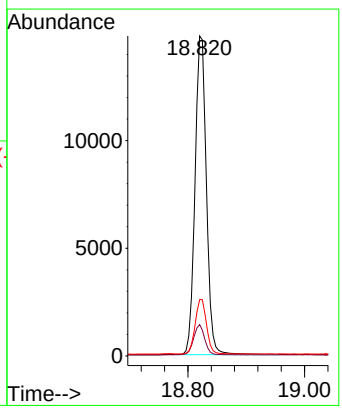


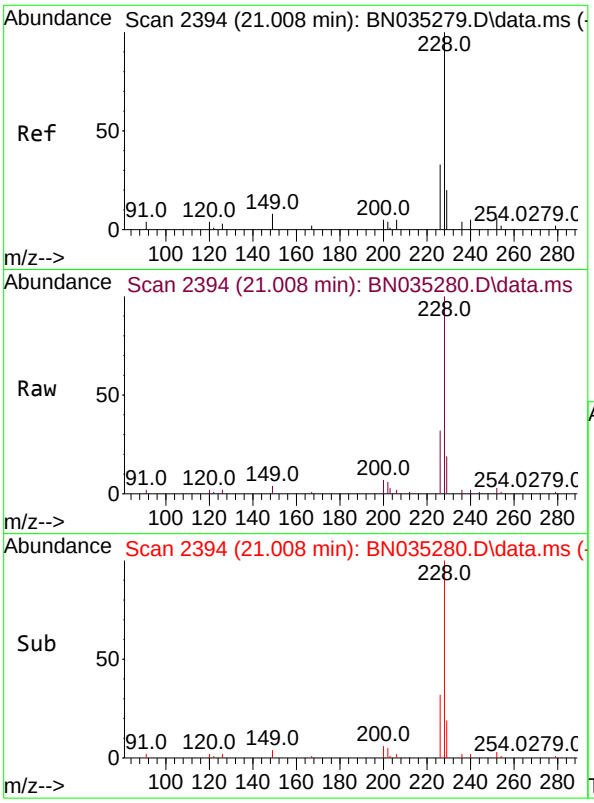


#28
Fluoranthene
Concen: 0.803 ng
RT: 18.820 min Scan# 1923
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:202 Resp: 20007

Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.6	11.4
203	17.1	13.8	20.8



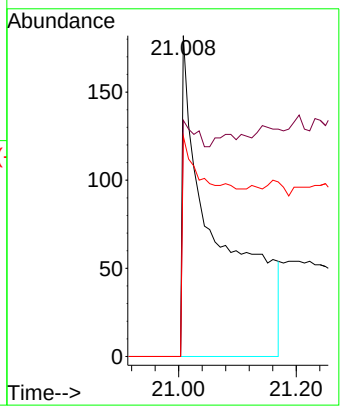


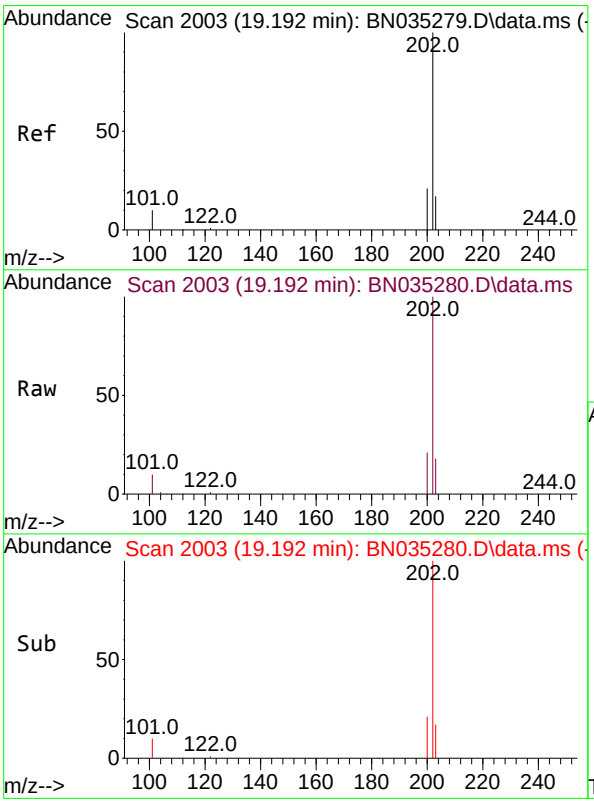
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 725

Ion	Ratio	Lower	Upper
240	100		
120	73.6	54.9	82.3
236	68.7	54.0	81.0

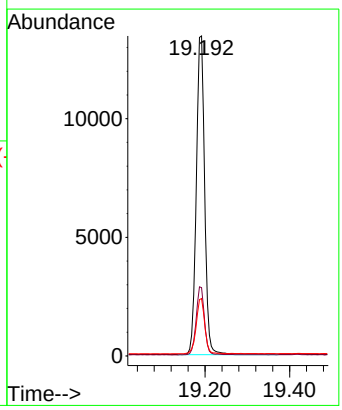


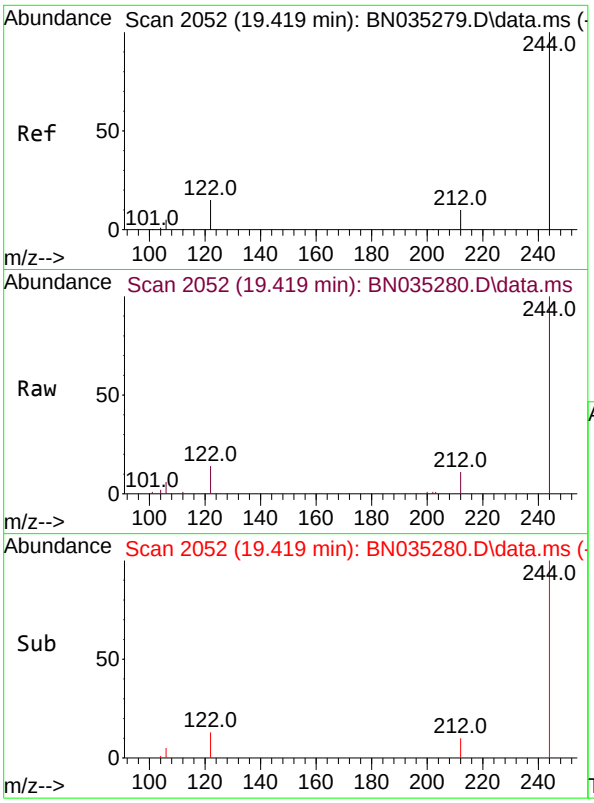


#30
Pyrene
Concen: 7.635 ng
RT: 19.192 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:202 Resp: 18434

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.6	14.4	21.6



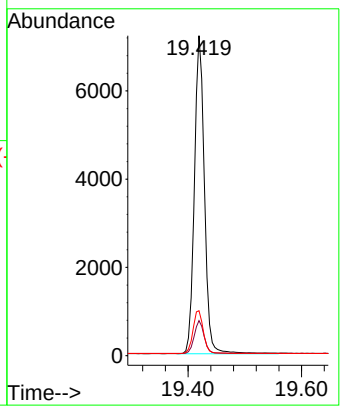


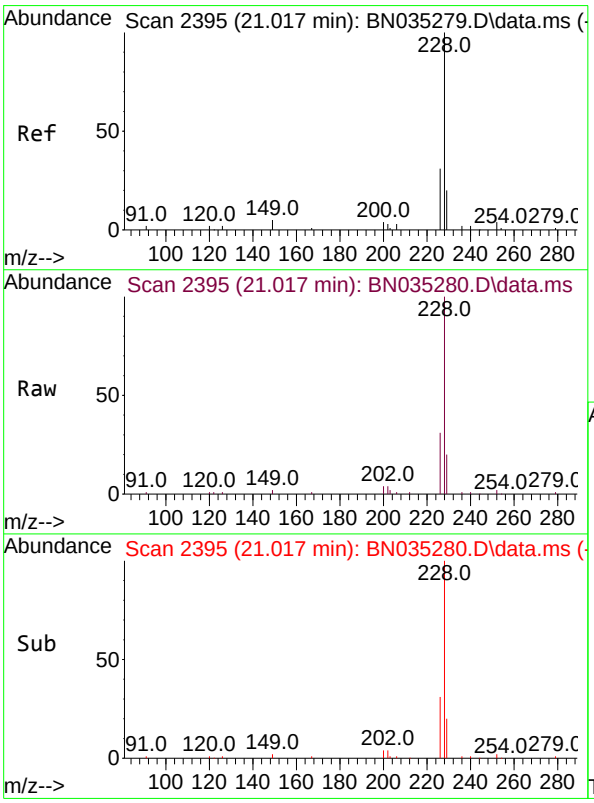
#31
Terphenyl-d14
Concen: 5.792 ng
RT: 19.419 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 8811

Ion	Ratio	Lower	Upper
244	100		
212	10.9	9.4	14.0
122	14.1	13.0	19.4

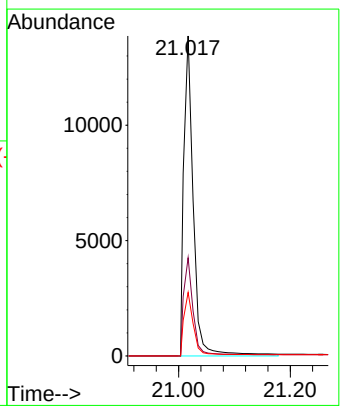


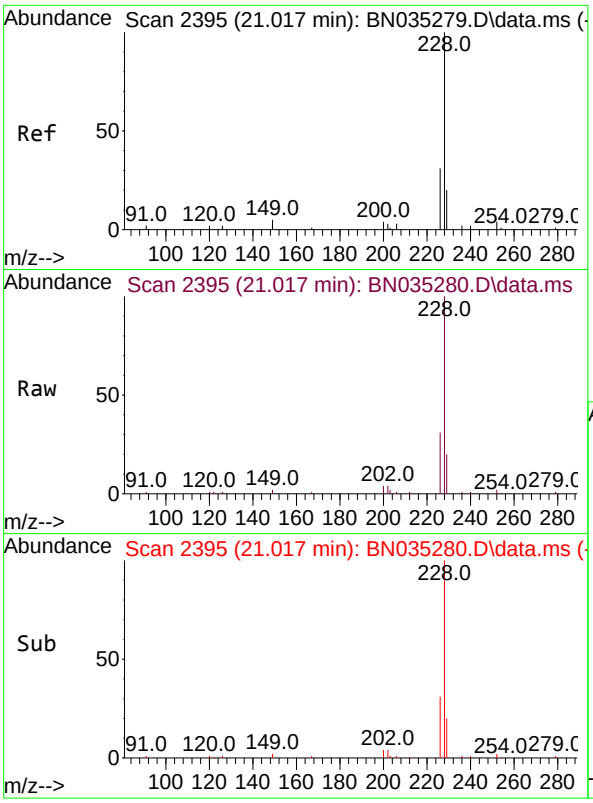


#32
Benzo(a)anthracene
Concen: 6.606 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:228 Resp: 16677

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	19.9	16.2	24.2



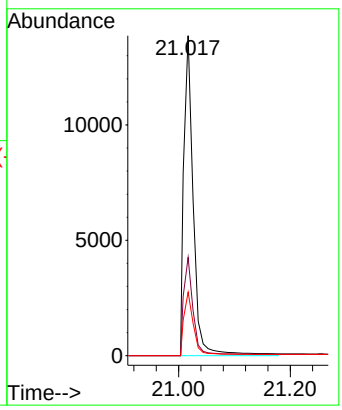


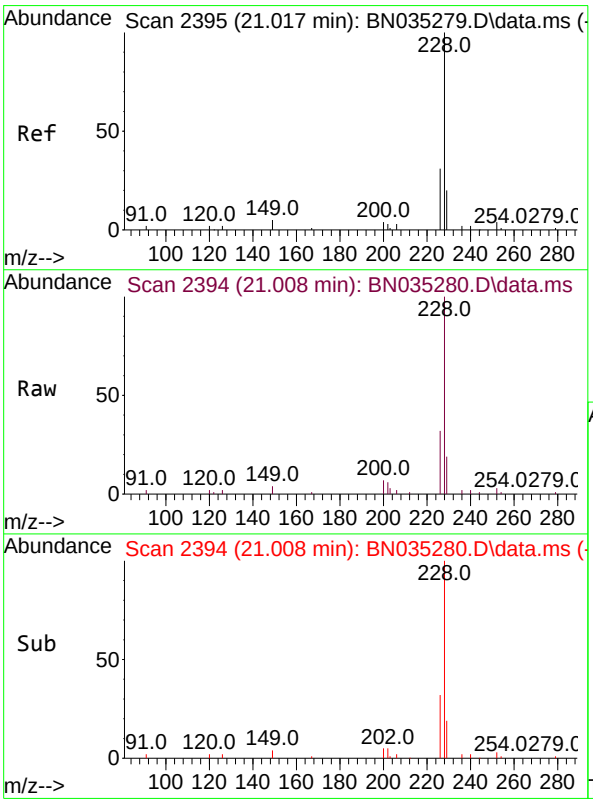
#33
Chrysene
Concen: 6.669 ng
RT: 21.017 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 16677

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	19.9	16.2	24.2

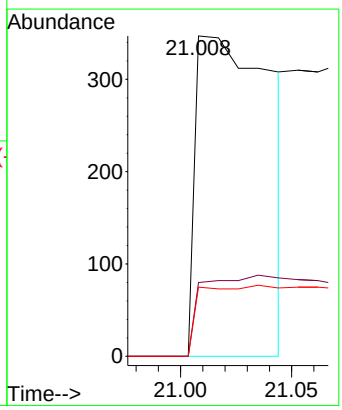


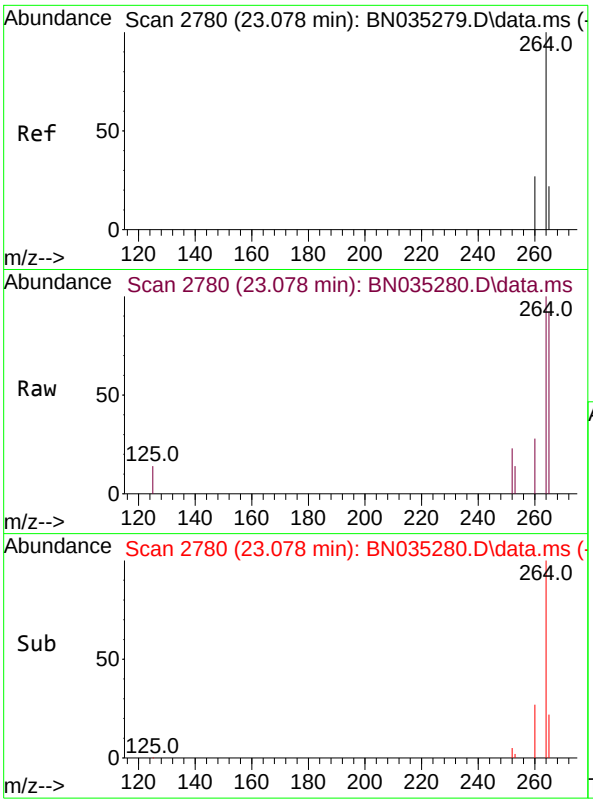


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.553 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.009 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:149 Resp: 733

Ion	Ratio	Lower	Upper
149	100		
167	0.0	0.0	0.0
279	0.0	13.0	19.6#



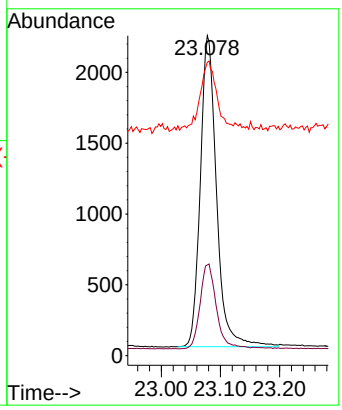


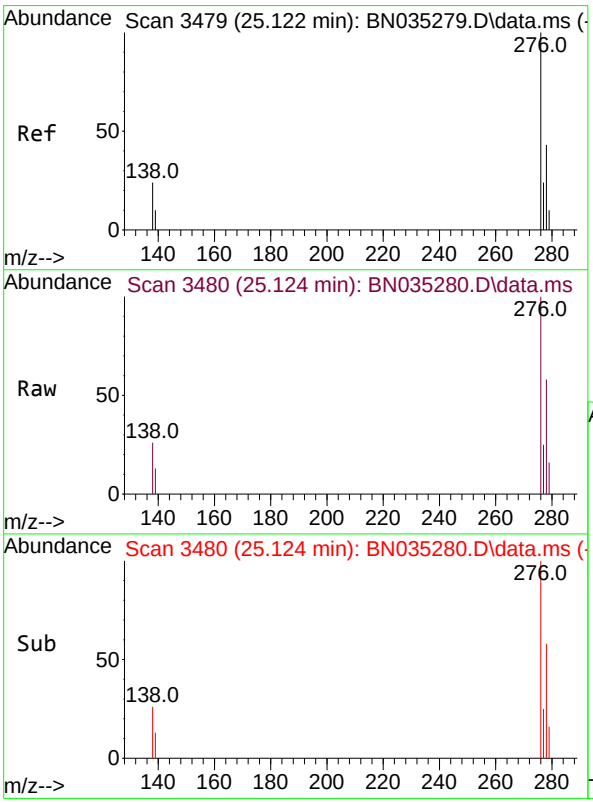
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 4193

Ion	Ratio	Lower	Upper
264	100		
260	28.3	22.3	33.5
265	91.6	68.6	103.0

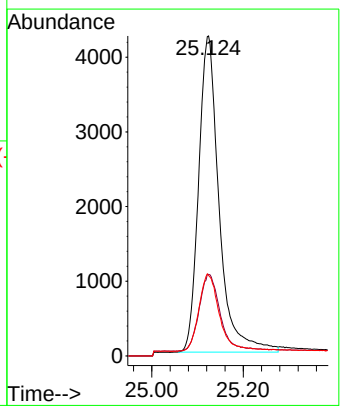


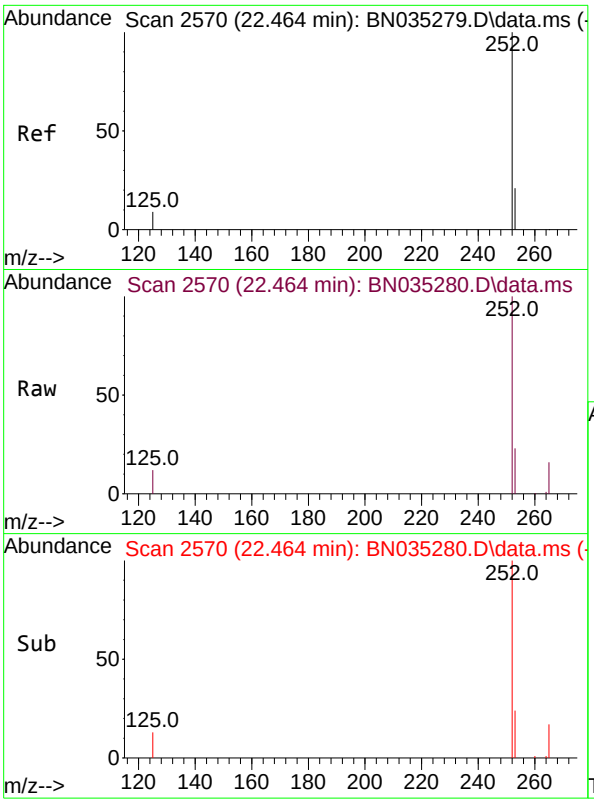


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.789 ng
RT: 25.124 min Scan# 3480
Delta R.T. 0.003 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:276 Resp: 13203

Ion	Ratio	Lower	Upper
276	100		
138	23.8	18.8	28.2
277	23.7	18.2	27.4



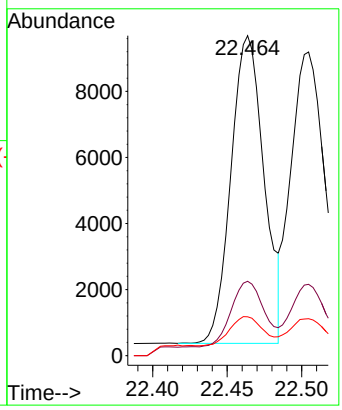


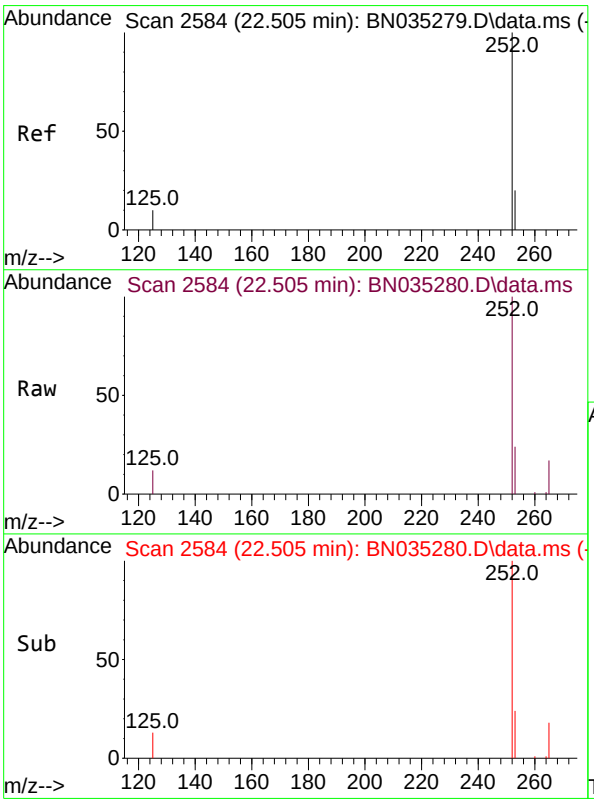
#37
Benzo(b)fluoranthene
Concen: 1.019 ng
RT: 22.464 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 14372

Ion	Ratio	Lower	Upper
252	100		
253	23.3	20.2	30.2
125	12.2	12.0	18.0

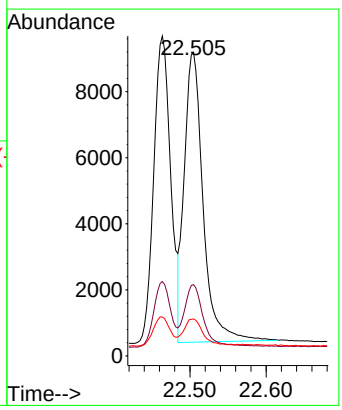


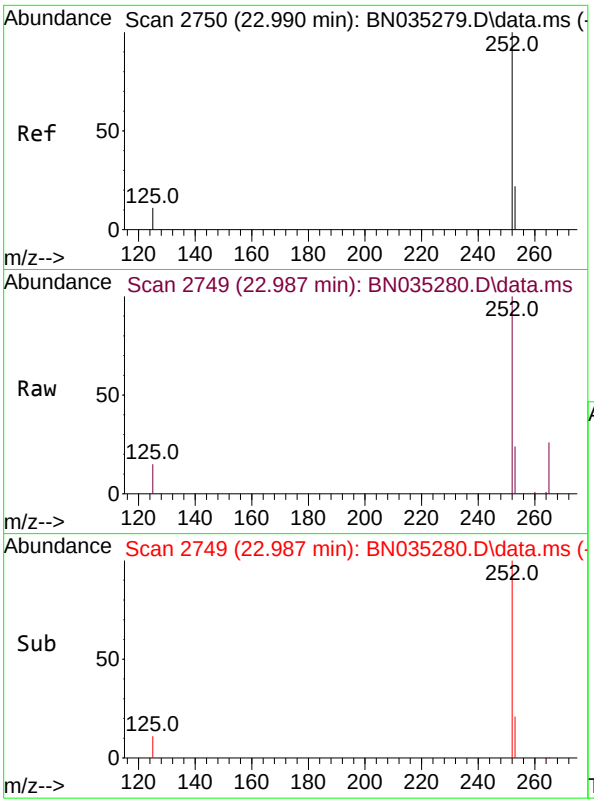


#38
Benzo(k)fluoranthene
Concen: 1.067 ng
RT: 22.505 min Scan# 2584
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:252 Resp: 15061

Ion	Ratio	Lower	Upper
252	100		
253	23.5	20.1	30.1
125	12.2	12.7	19.1#



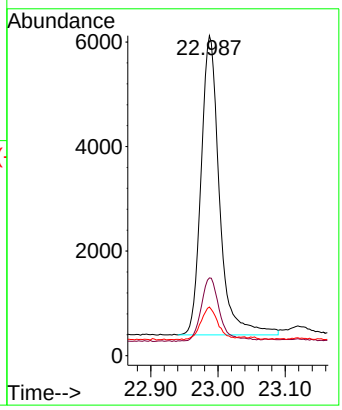


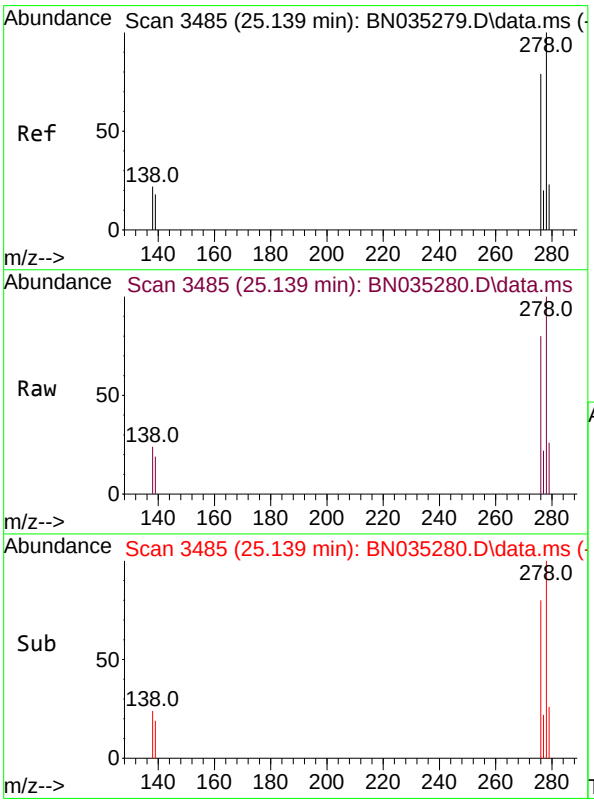
#39
Benzo(a)pyrene
Concen: 0.876 ng
RT: 22.987 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 10876

Ion	Ratio	Lower	Upper
252	100		
253	24.3	22.3	33.5
125	15.2	15.3	22.9#

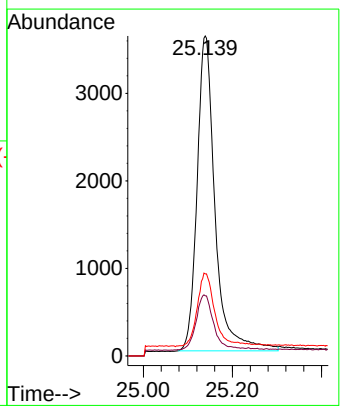


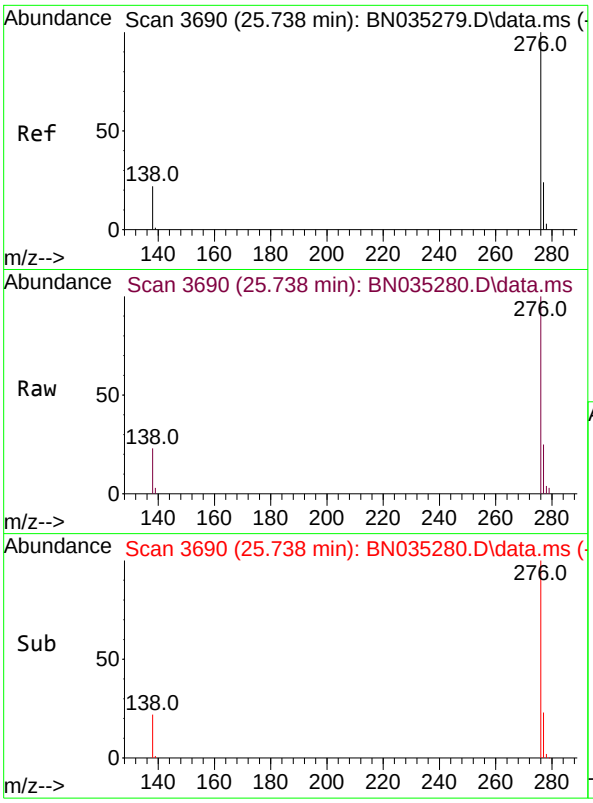


#40
Dibenzo(a,h)anthracene
Concen: 0.760 ng
RT: 25.139 min Scan# 3485
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:278 Resp: 10078

Ion	Ratio	Lower	Upper
278	100		
139	18.8	17.0	25.6
279	25.6	23.0	34.4



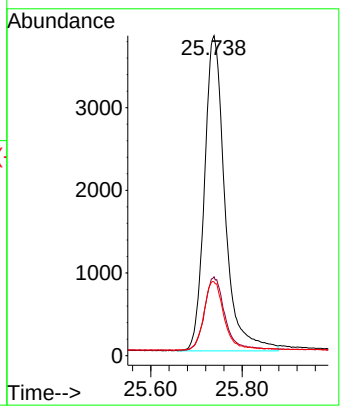


#41
Benzo(g,h,i)perylene
Concen: 0.840 ng
RT: 25.738 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 11838

Ion	Ratio	Lower	Upper
276	100		
277	24.7	21.1	31.7
138	23.0	19.8	29.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035281.D
Acq On : 25 Nov 2024 12:40
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 25 14:20:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration

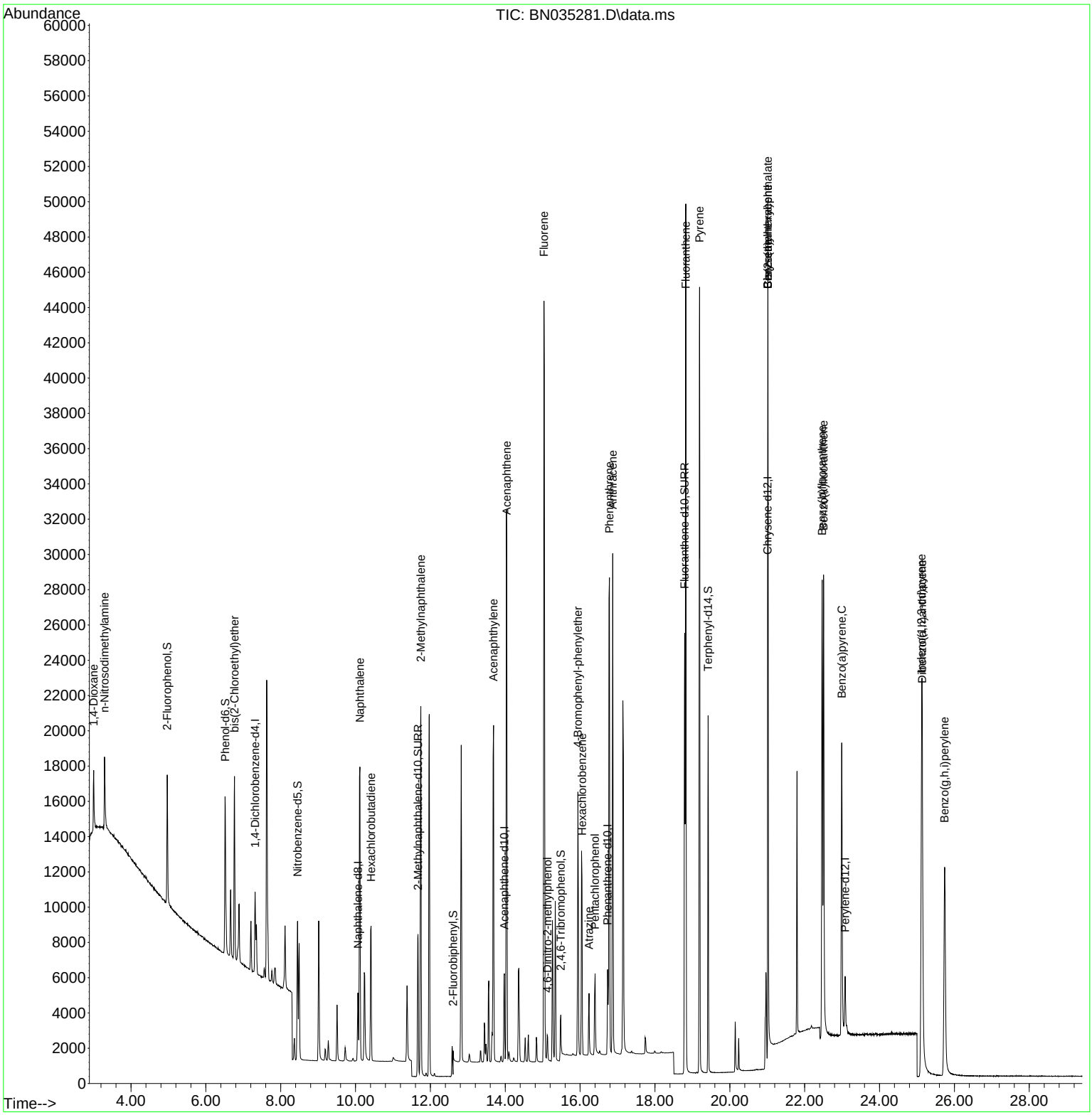
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.315	152	2108	0.400	ng		0.00
7) Naphthalene-d8	10.063	136	4875	0.400	ng		0.00
13) Acenaphthene-d10	13.976	164	2647	0.400	ng		0.00
19) Phenanthrene-d10	16.734	188	6226	0.400	ng		0.00
29) Chrysene-d12	21.008	240	542	0.400	ng		0.00
35) Perylene-d12	23.081	264	3989	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	6152	1.150	ng		0.00
5) Phenol-d6	6.520	99	8647	1.289	ng		0.00
8) Nitrobenzene-d5	8.450	82	6940	1.635	ng		0.00
11) 2-Methylnaphthalene-d10	11.666	152	11029	1.270	ng		0.00
14) 2,4,6-Tribromophenol	15.484	330	2250	1.178	ng		0.00
15) 2-Fluorobiphenyl	12.608	172	871	0.081	ng		0.00
27) Fluoranthene-d10	18.792	212	27881	1.462	ng		0.00
31) Terphenyl-d14	19.419	244	18679	16.424	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	2397	1.252	ng	#	80
3) n-Nitrosodimethylamine	3.292	42	2641	1.480	ng	#	81
6) bis(2-Chloroethyl)ether	6.766	93	7711	1.531	ng		99
9) Naphthalene	10.116	128	22419	1.761	ng		98
10) Hexachlorobutadiene	10.415	225	6605	1.770	ng	#	99
12) 2-Methylnaphthalene	11.742	142	14579	1.553	ng		98
16) Acenaphthylene	13.688	152	22416	1.982	ng		99
17) Acenaphthene	14.040	154	14198	1.915	ng		100
18) Fluorene	15.035	166	20193	1.852	ng		99
20) 4,6-Dinitro-2-methylph...	15.131	198	1188	0.917	ng	#	56
21) 4-Bromophenyl-phenylether	15.939	248	6288	1.585	ng		98
22) Hexachlorobenzene	16.051	284	9730	2.364	ng		99
23) Atrazine	16.237	200	2833	0.796	ng	#	93
24) Pentachlorophenol	16.399	266	2413	1.255	ng		97
25) Phenanthrene	16.783	178	31649	1.932	ng		99
26) Anthracene	16.870	178	27397	1.820	ng		99
28) Fluoranthene	18.825	202	43133	1.914	ng		99
30) Pyrene	19.192	202	38572	21.370	ng		99
32) Benzo(a)anthracene	21.017	228	35573	18.849	ng		99
33) Chrysene	21.017	228	35573	19.028	ng		99
34) Bis(2-ethylhexyl)phtha...	21.017	149	946	0.955	ng	#	62
36) Indeno(1,2,3-cd)pyrene	25.124	276	27825	1.749	ng		97
37) Benzo(b)fluoranthene	22.467	252	29950	2.232	ng	#	93
38) Benzo(k)fluoranthene	22.505	252	32689	2.434	ng	#	92
39) Benzo(a)pyrene	22.990	252	22785	1.929	ng	#	88
40) Dibenzo(a,h)anthracene	25.142	278	21588	1.712	ng		92
41) Benzo(g,h,i)perylene	25.738	276	24058	1.794	ng		95

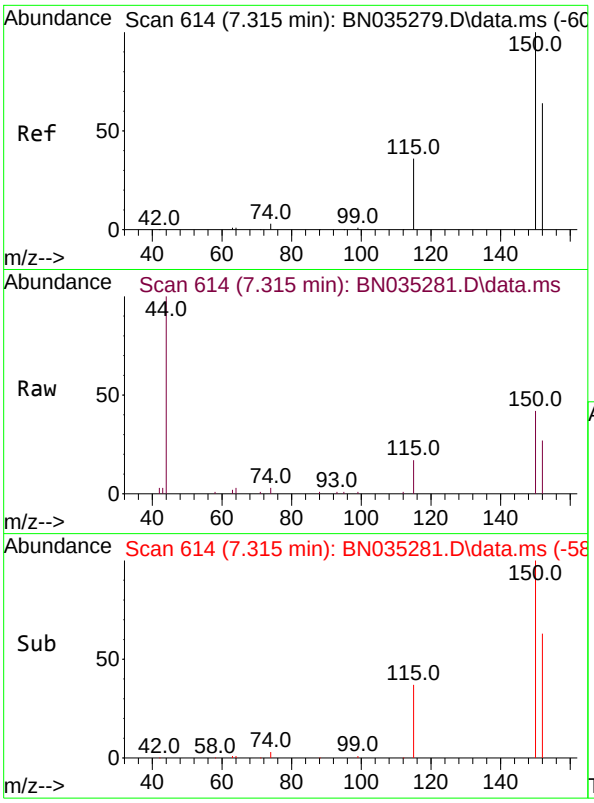
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035281.D
Acq On : 25 Nov 2024 12:40
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 25 14:20:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration



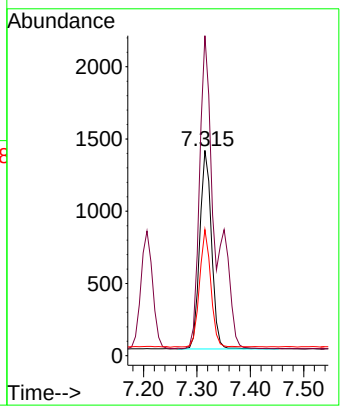


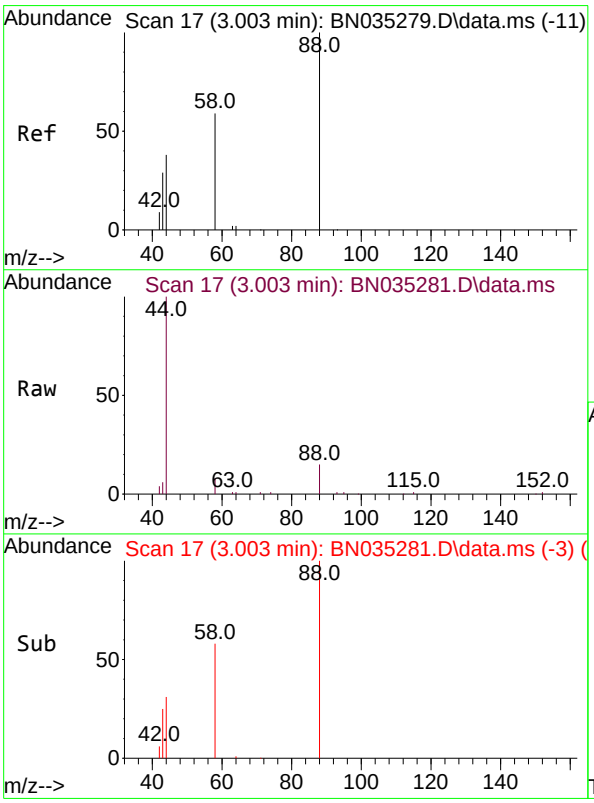
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2108

Ion	Ratio	Lower	Upper
152	100		
150	155.9	124.5	186.7
115	61.4	47.8	71.8

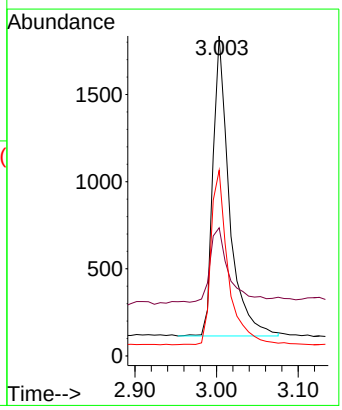


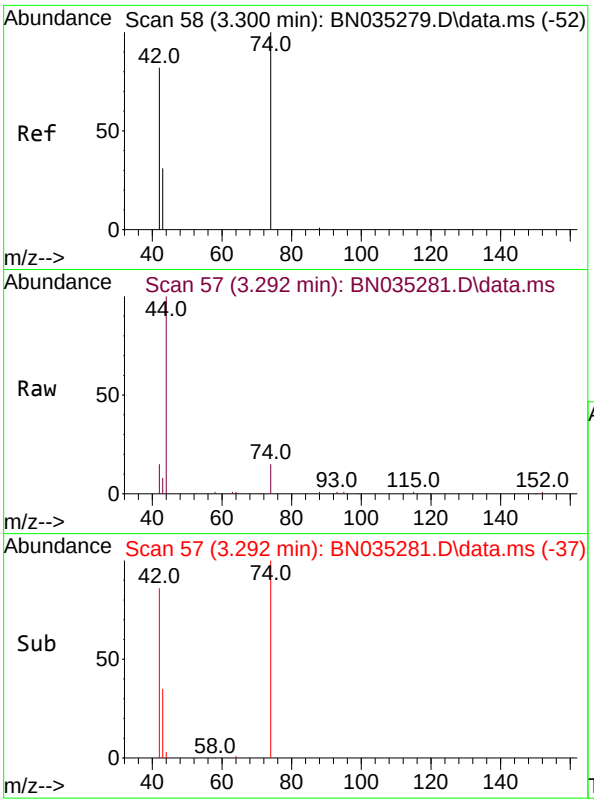


#2
1,4-Dioxane
Concen: 1.252 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion: 88 Resp: 2397

Ion	Ratio	Lower	Upper
88	100		
43	32.7	48.1	72.1#
58	61.1	46.9	70.3



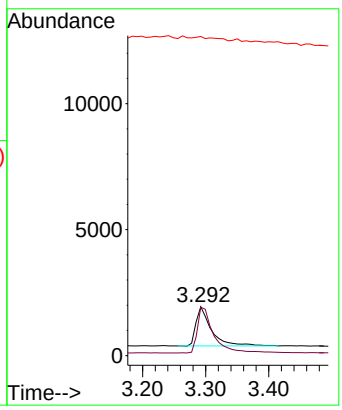


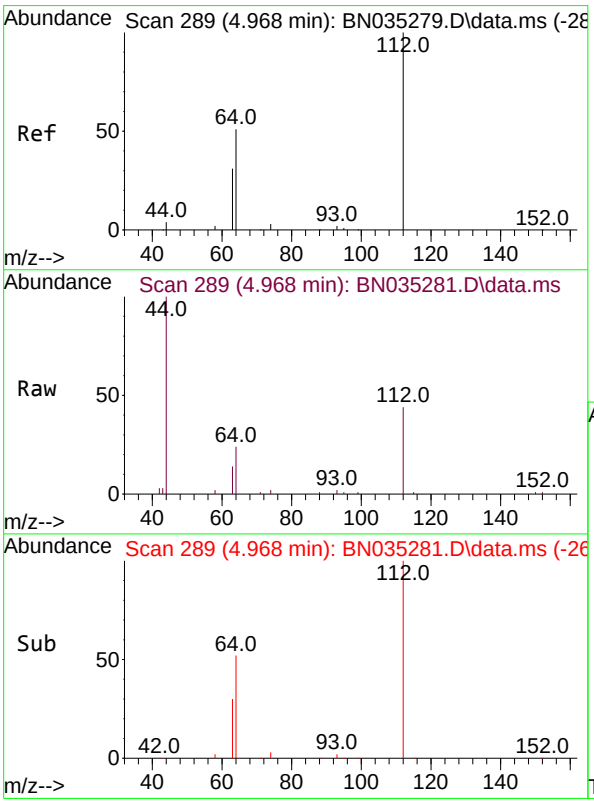
#3
n-Nitrosodimethylamine
Concen: 1.480 ng
RT: 3.292 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 2641

Ion	Ratio	Lower	Upper
42	100		
74	124.1	102.7	154.1
44	0.0	34.1	51.1#

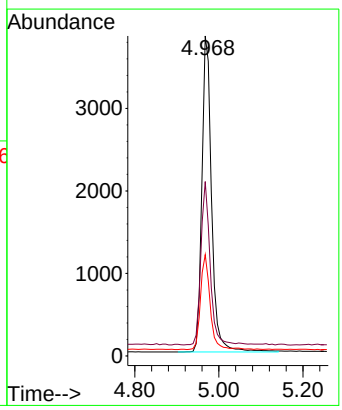


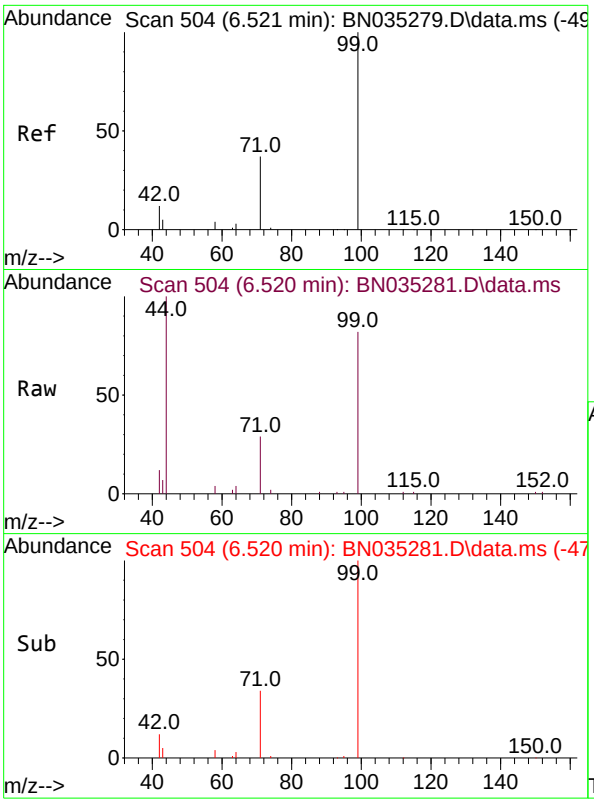


#4
2-Fluorophenol
Concen: 1.150 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:112 Resp: 6152

Ion	Ratio	Lower	Upper
112	100		
64	49.1	40.4	60.6
63	29.1	23.8	35.8



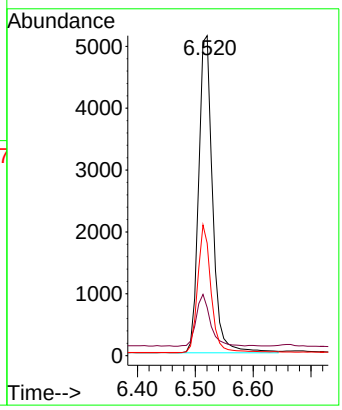


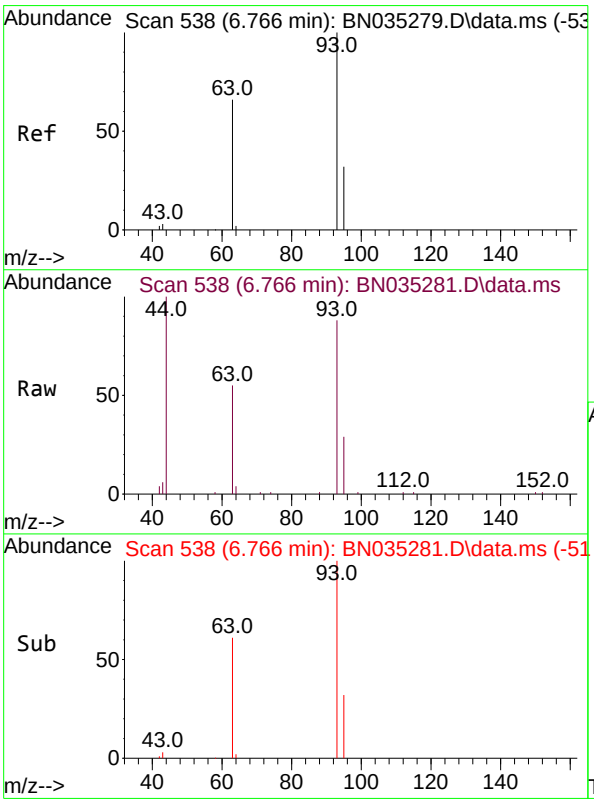
#5
Phenol-d6
Concen: 1.289 ng
RT: 6.520 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 8647

Ion	Ratio	Lower	Upper
99	100		
42	16.6	12.8	19.2
71	38.4	31.4	47.2

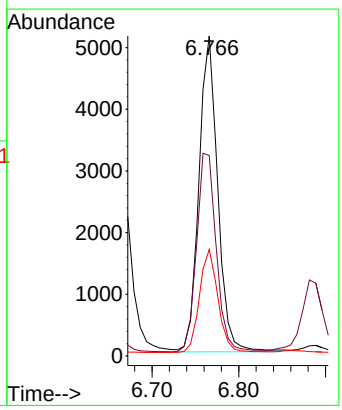


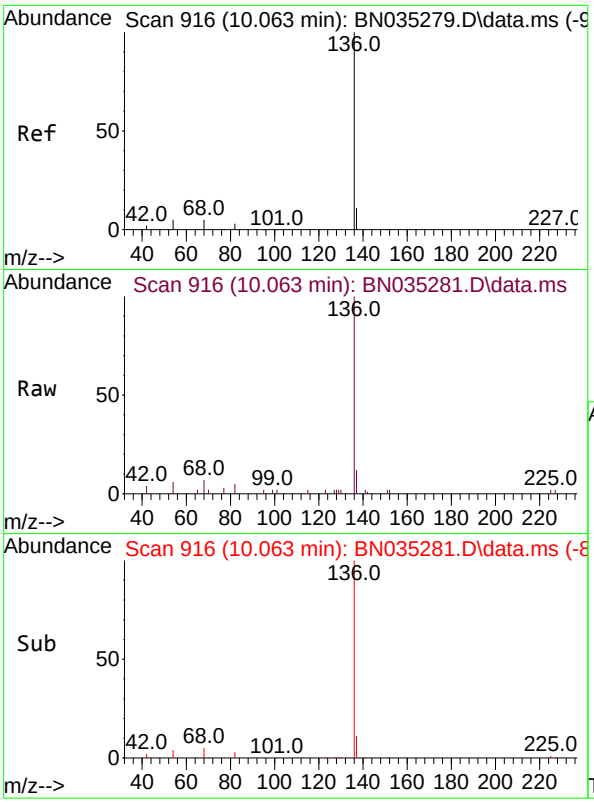


#6
bis(2-Chloroethyl)ether
Concen: 1.531 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion: 93 Resp: 7711

Ion	Ratio	Lower	Upper
93	100		
63	66.1	52.3	78.5
95	32.1	25.5	38.3



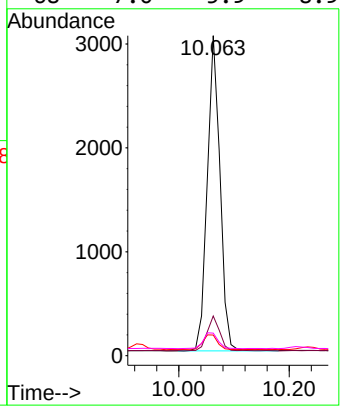


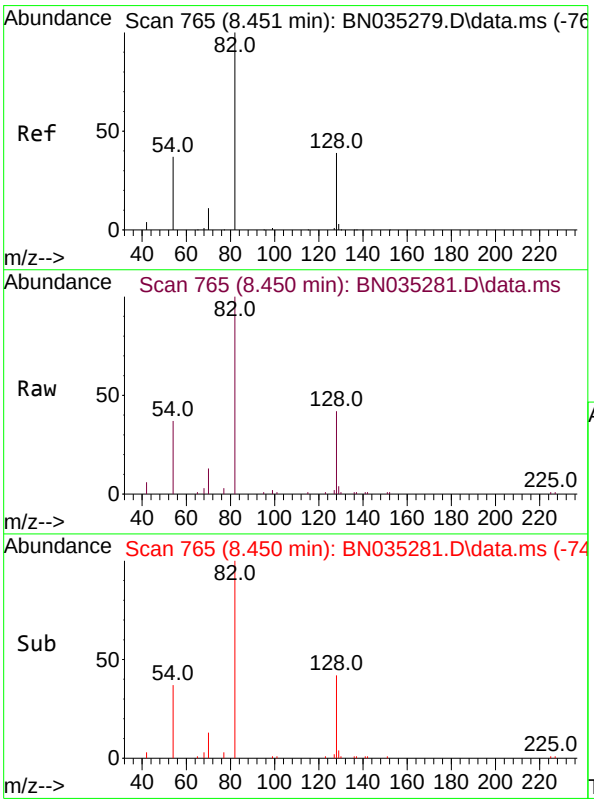
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 4875

Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.7	14.5
54	6.5	5.3	7.9
68	7.0	5.9	8.9

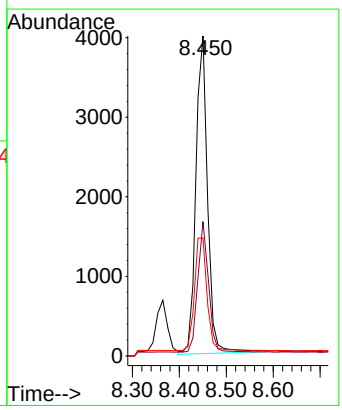


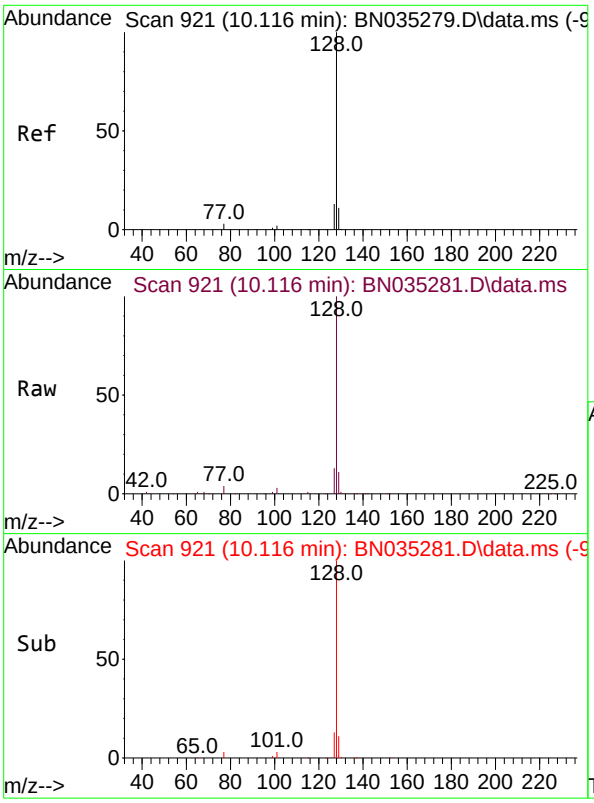


#8
Nitrobenzene-d5
Concen: 1.635 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion: 82 Resp: 6940

Ion	Ratio	Lower	Upper
82	100		
128	42.0	33.0	49.4
54	36.9	33.3	49.9



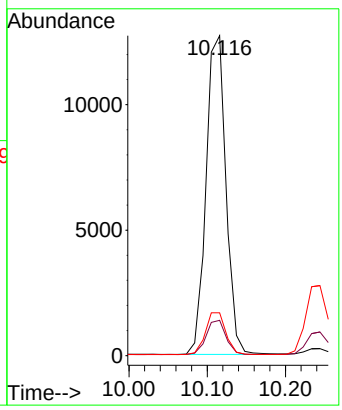


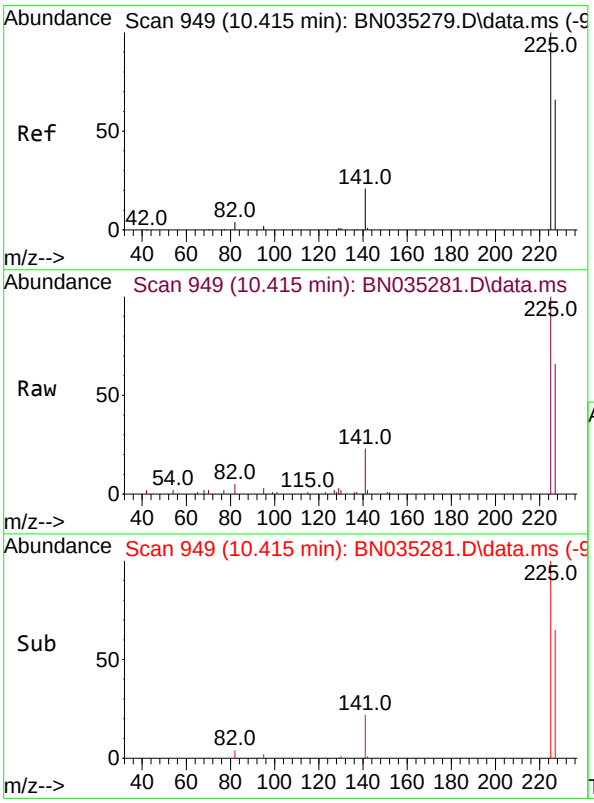
#9
Naphthalene
Concen: 1.761 ng
RT: 10.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 22419

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.6	14.4
127	13.4	11.3	16.9

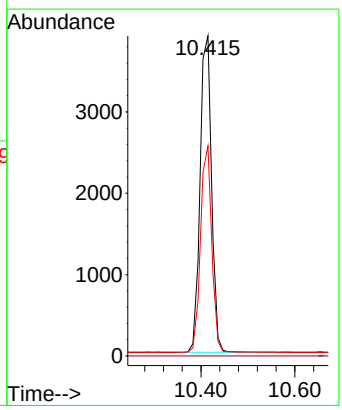


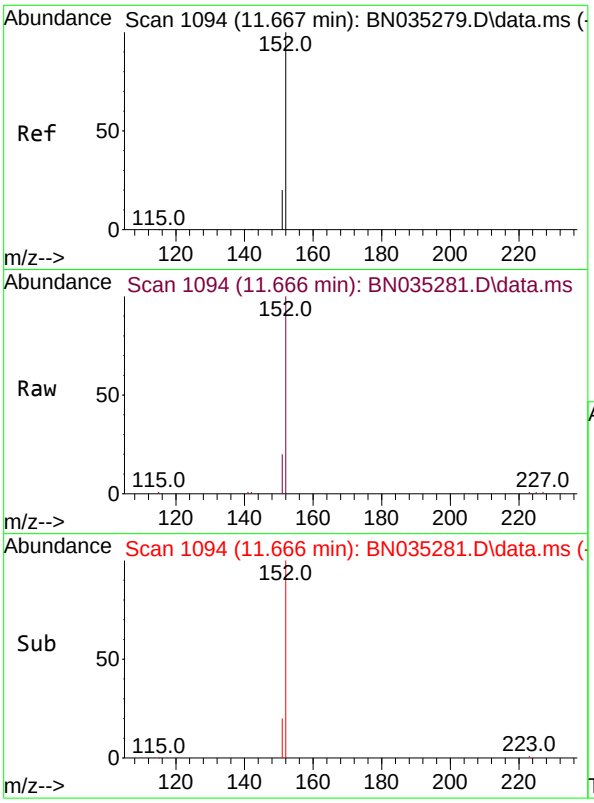


#10
Hexachlorobutadiene
Concen: 1.770 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:225 Resp: 6605

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.3	76.9



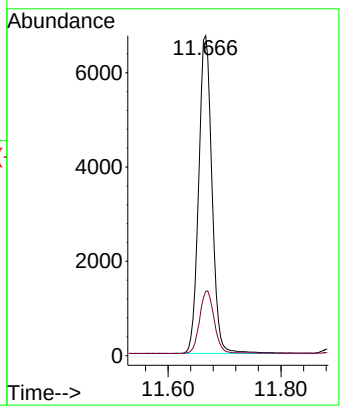


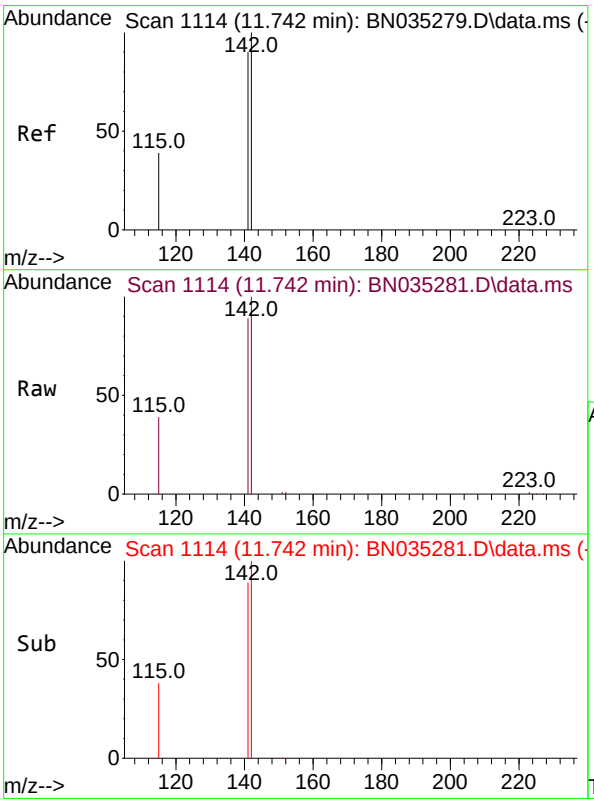
#11
2-Methylnaphthalene-d10
Concen: 1.270 ng
RT: 11.666 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 11029

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.2	25.8

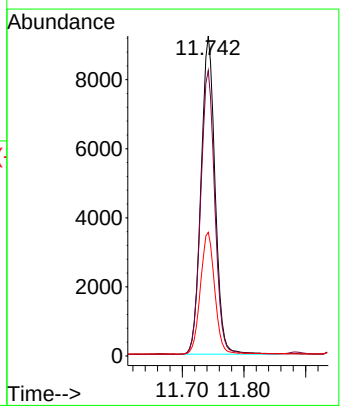


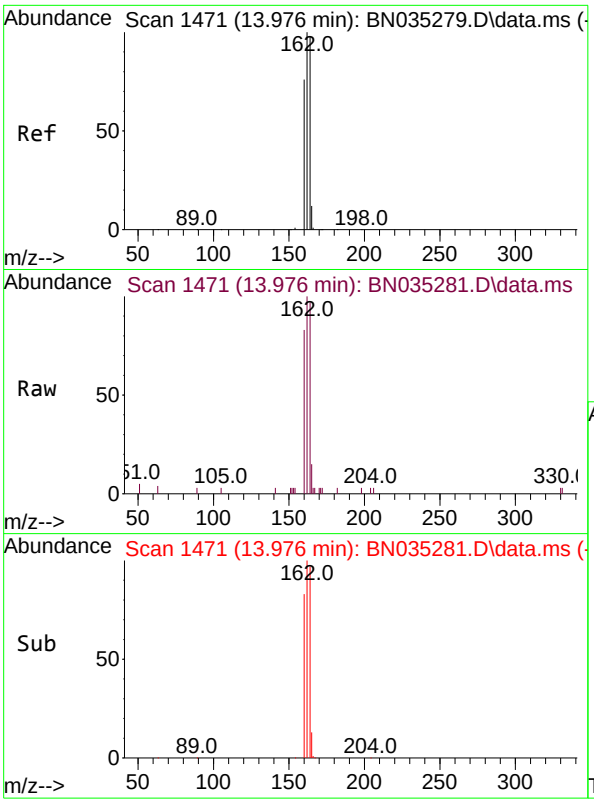


#12
2-Methylnaphthalene
Concen: 1.553 ng
RT: 11.742 min Scan# 1114
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:142 Resp: 14579

Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.8	107.8
115	38.7	32.6	49.0



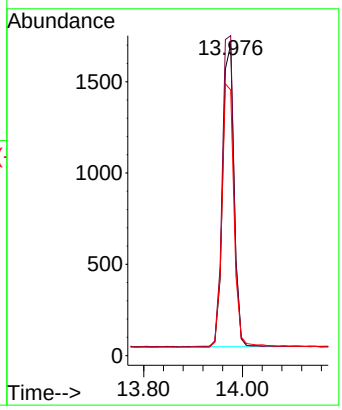


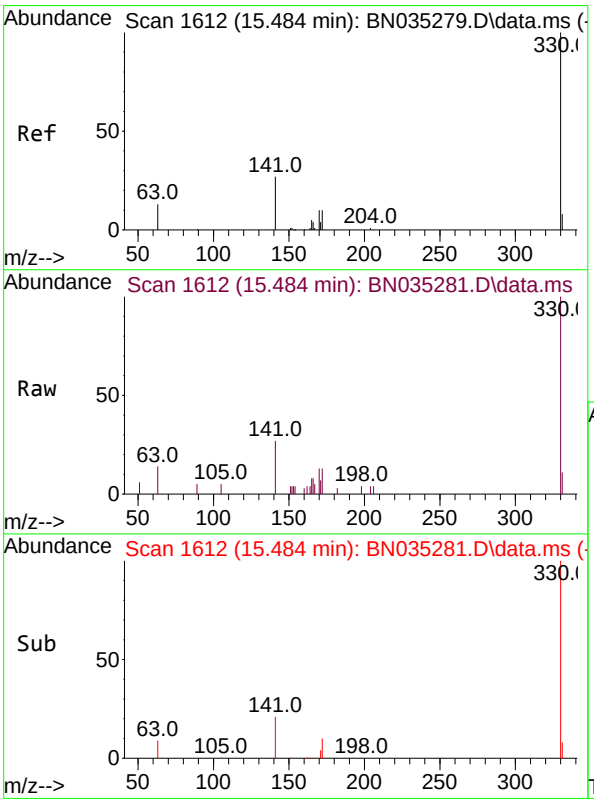
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 2647

Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.0	123.0
160	85.4	63.0	94.4

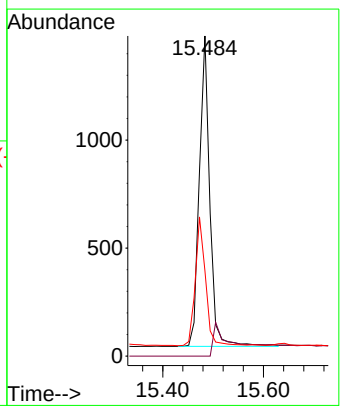


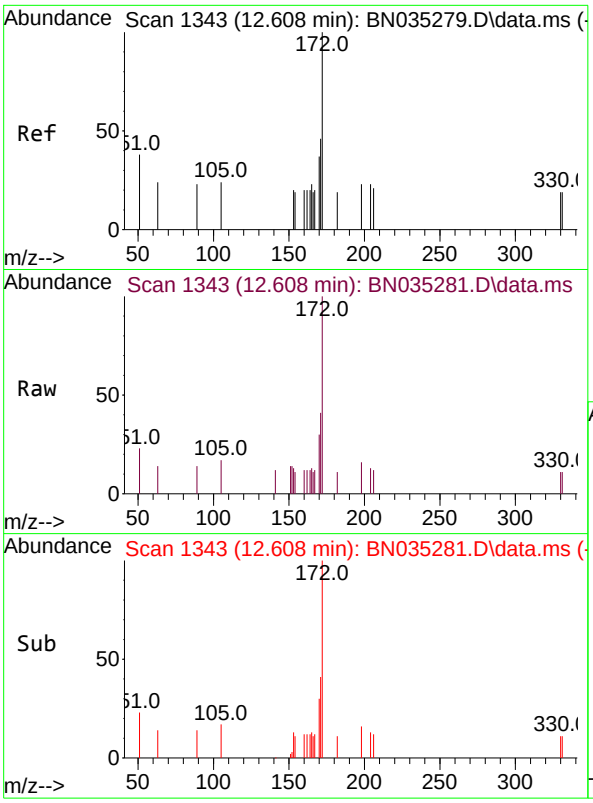


#14
2,4,6-Tribromophenol
Concen: 1.178 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:330 Resp: 2250

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	40.6	32.4	48.6



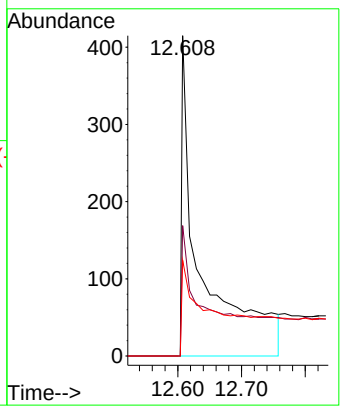


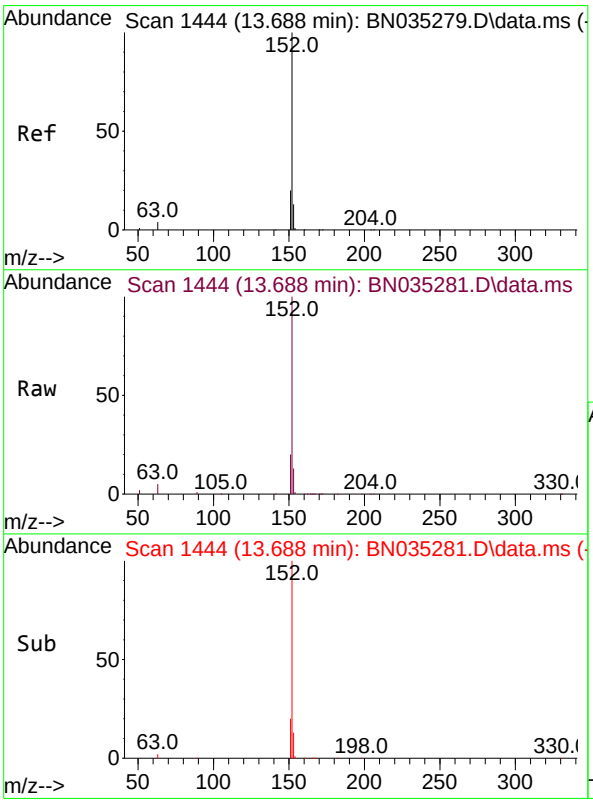
#15
2-Fluorobiphenyl
Concen: 0.081 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 871

Ion	Ratio	Lower	Upper
172	100		
171	40.7	36.6	55.0
170	29.9	29.7	44.5

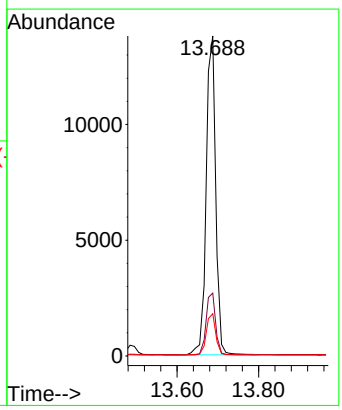


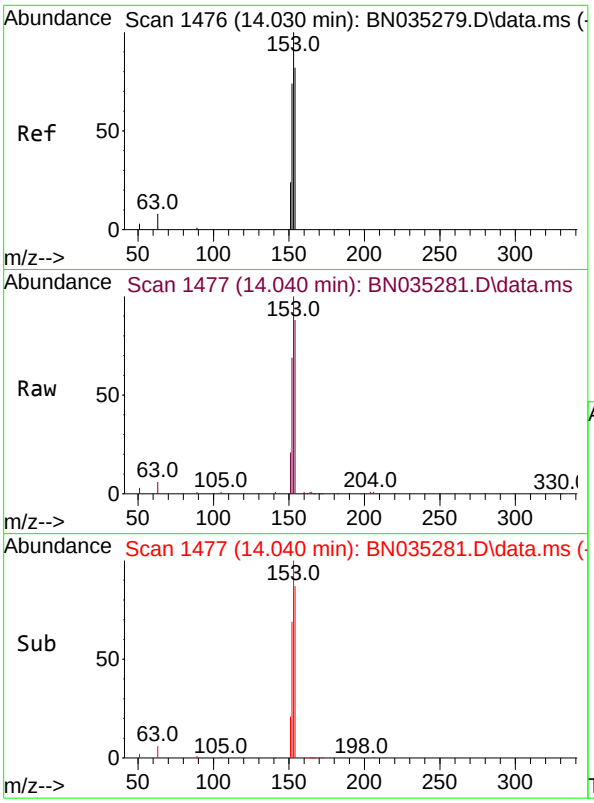


#16
Acenaphthylene
Concen: 1.982 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:152 Resp: 22416

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.9	23.9
153	12.9	10.2	15.4



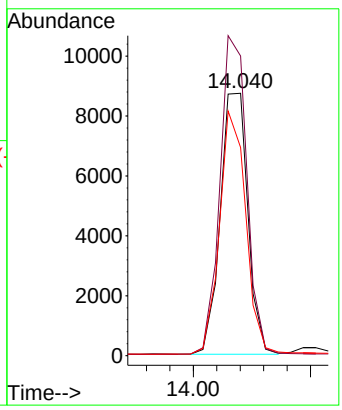


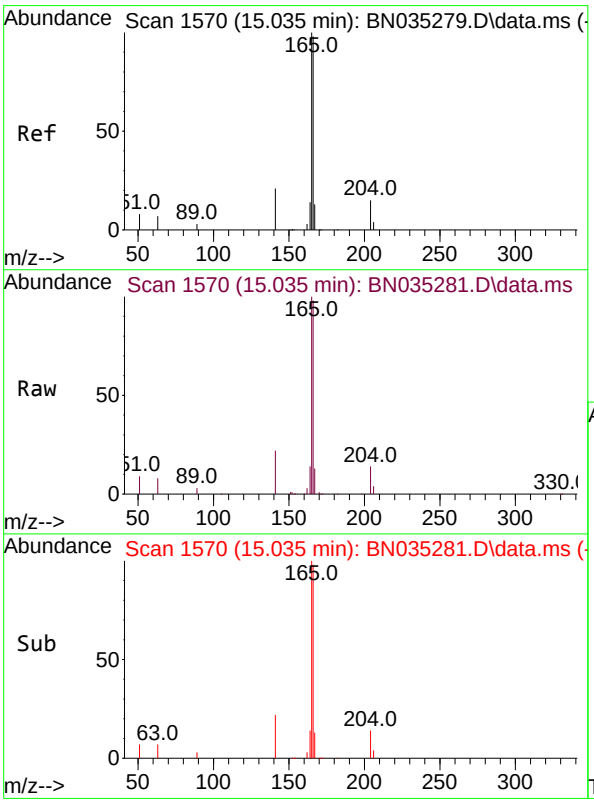
#17
Acenaphthene
Concen: 1.915 ng
RT: 14.040 min Scan# 14
Delta R.T. 0.010 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 14198

Ion	Ratio	Lower	Upper
154	100		
153	119.8	96.1	144.1
152	90.0	72.2	108.2

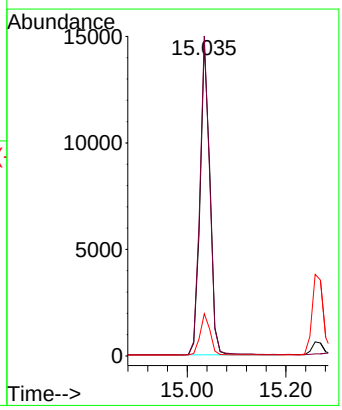


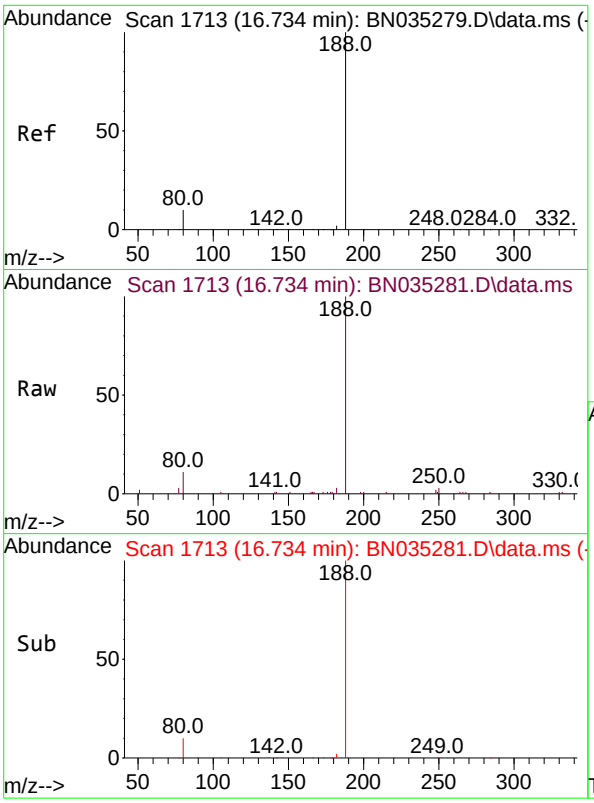


#18
Fluorene
Concen: 1.852 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:166 Resp: 20193

Ion	Ratio	Lower	Upper
166	100		
165	102.0	81.2	121.8
167	13.5	10.5	15.7



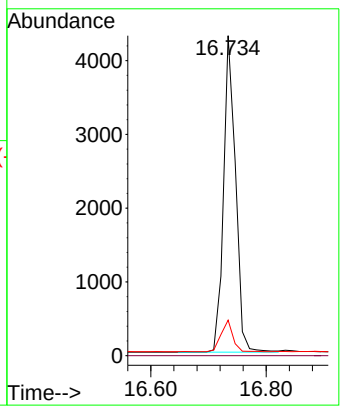


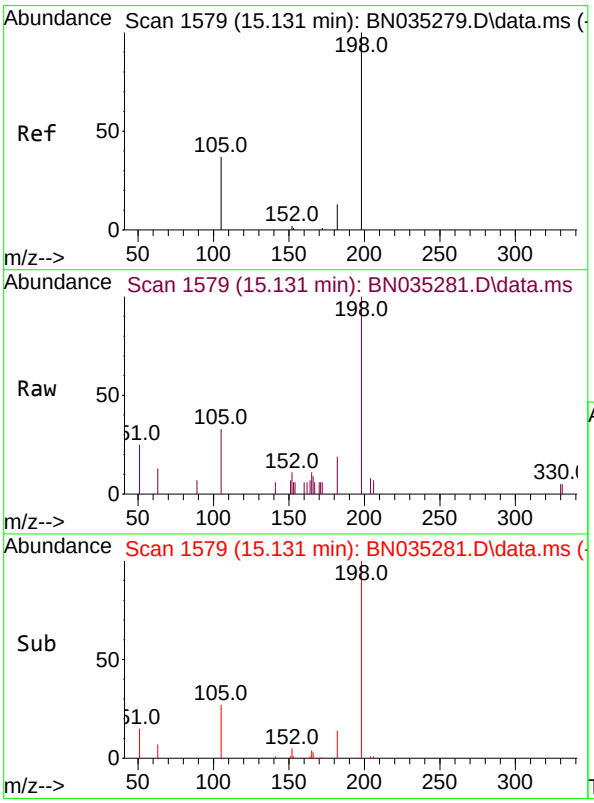
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 6226

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.1	8.9	13.3

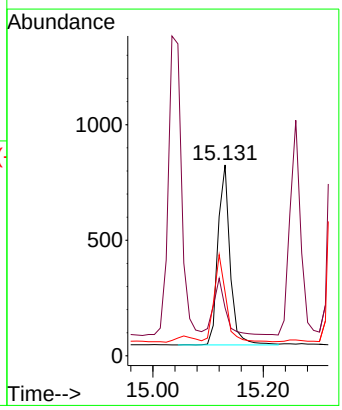


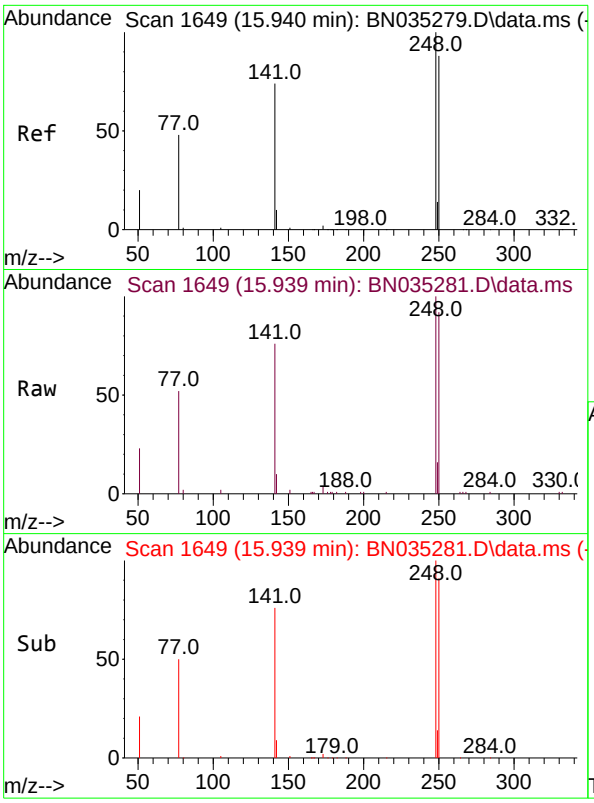


#20
4,6-Dinitro-2-methylphenol
Concen: 0.917 ng
RT: 15.131 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:198 Resp: 1188

Ion	Ratio	Lower	Upper
198	100		
51	25.2	53.6	80.4#
105	33.4	47.4	71.2#



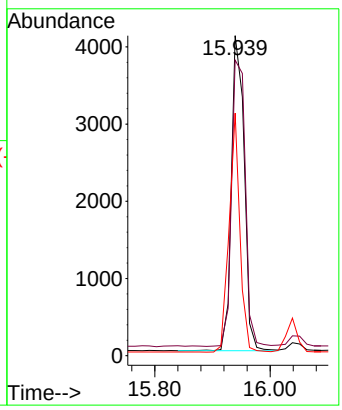


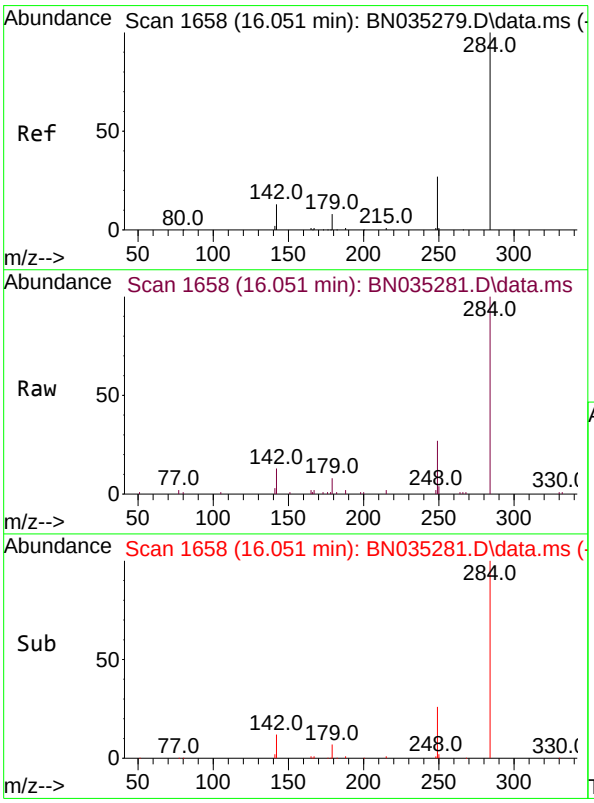
#21
4-Bromophenyl-phenylether
Concen: 1.585 ng
RT: 15.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 6288

Ion	Ratio	Lower	Upper
248	100		
250	92.4	74.8	112.2
141	75.8	59.0	88.4

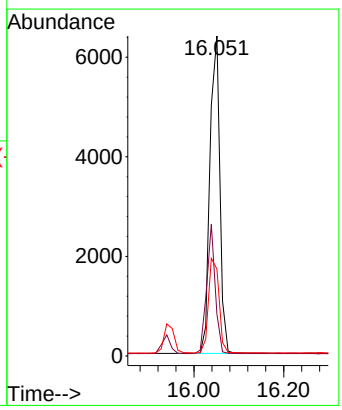


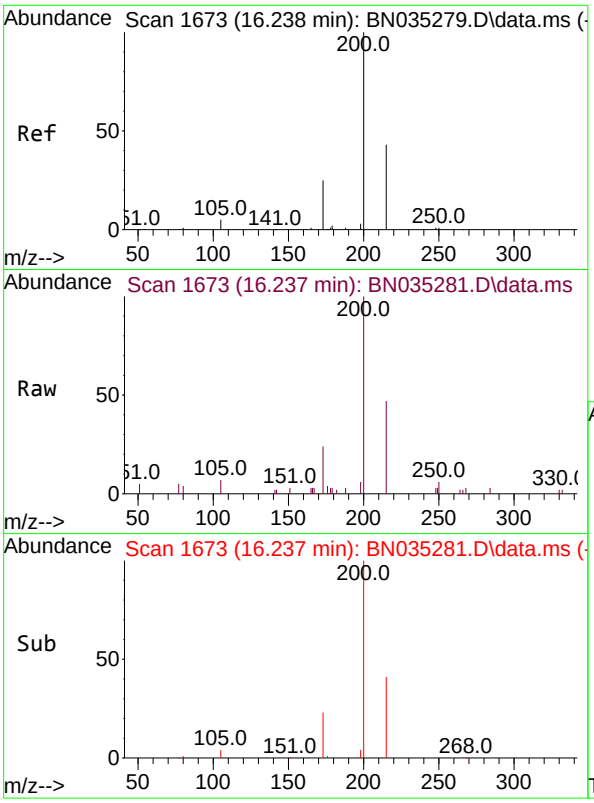


#22
Hexachlorobenzene
Concen: 2.364 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:284 Resp: 9730

Ion	Ratio	Lower	Upper
284	100		
142	35.4	28.7	43.1
249	31.4	25.4	38.0



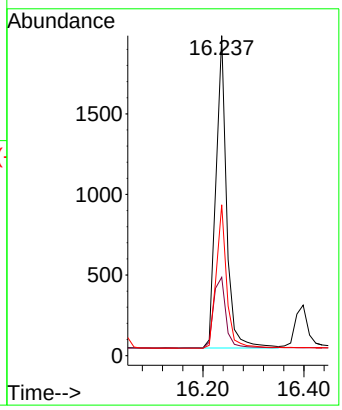


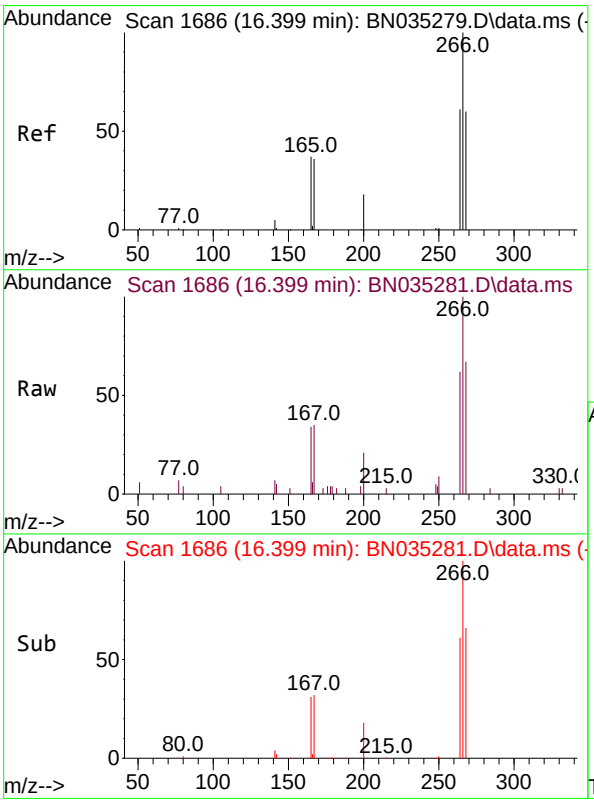
#23
Atrazine
Concen: 0.796 ng
RT: 16.237 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 2833

Ion	Ratio	Lower	Upper
200	100		
173	24.5	25.8	38.8#
215	47.2	38.6	58.0

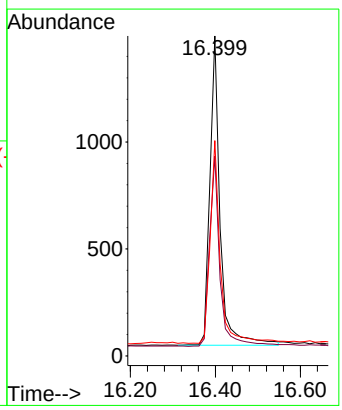


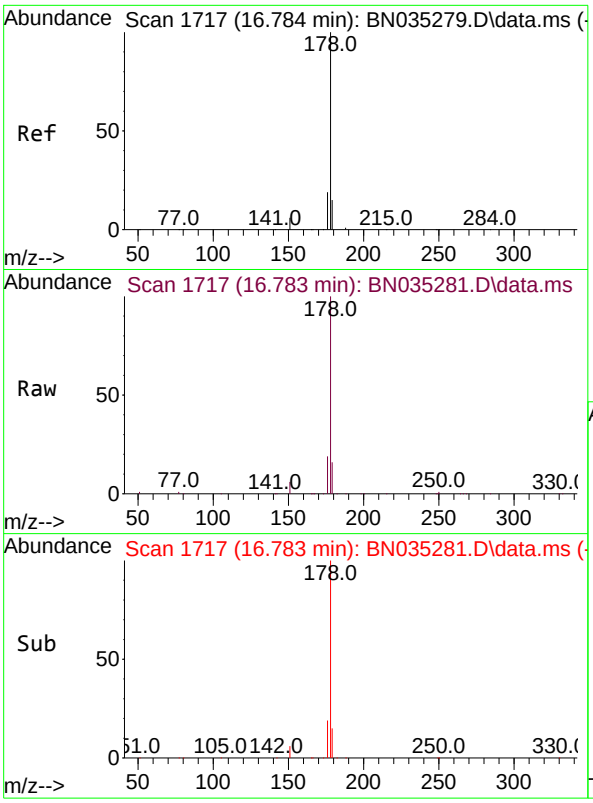


#24
Pentachlorophenol
Concen: 1.255 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:266 Resp: 2413

Ion	Ratio	Lower	Upper
266	100		
264	62.3	49.3	73.9
268	65.1	48.6	73.0



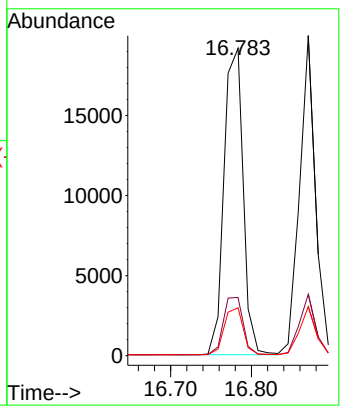


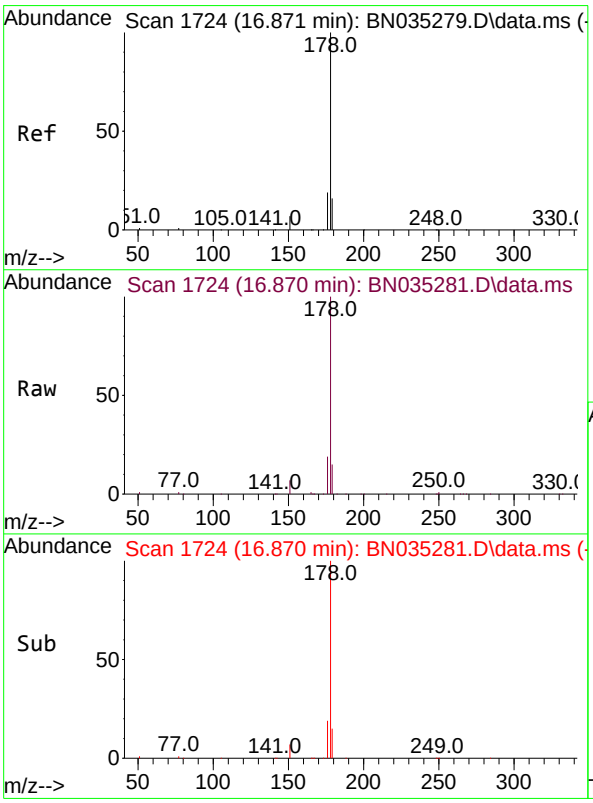
#25
Phenanthrene
Concen: 1.932 ng
RT: 16.783 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 31649

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.3	12.6	18.8

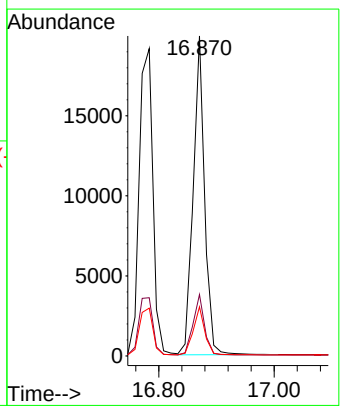


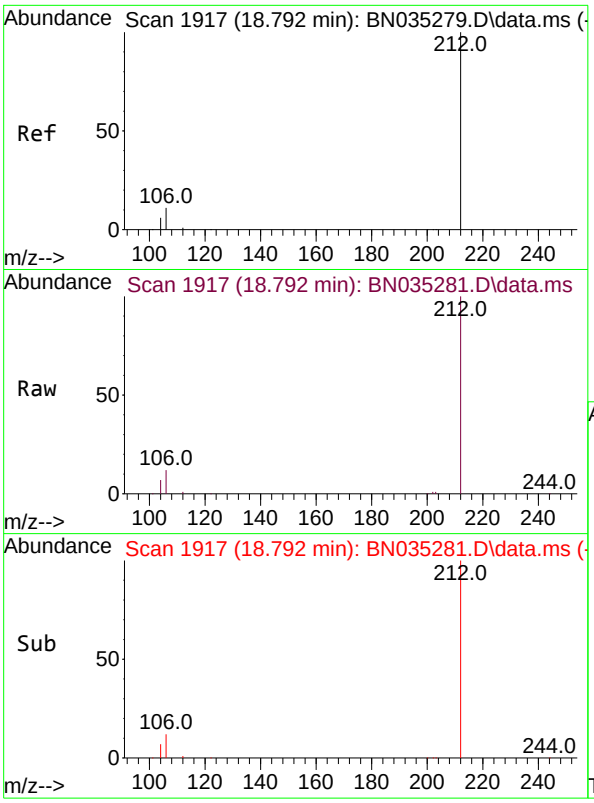


#26
Anthracene
Concen: 1.820 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:178 Resp: 27397

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.4
179	15.3	12.4	18.6



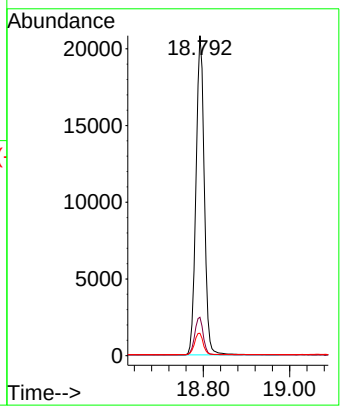


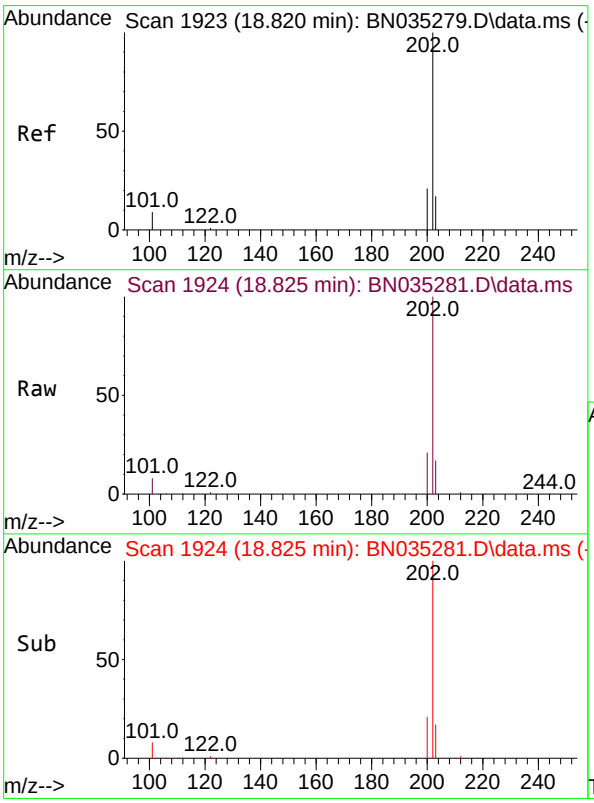
#27
Fluoranthene-d10
Concen: 1.462 ng
RT: 18.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 27881

Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.8	14.8
104	7.0	5.6	8.4

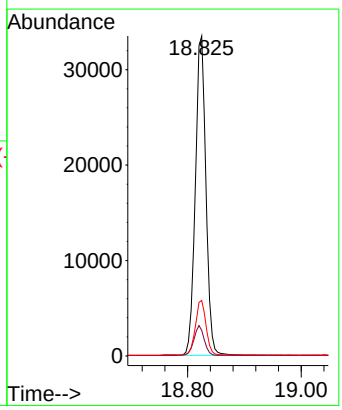


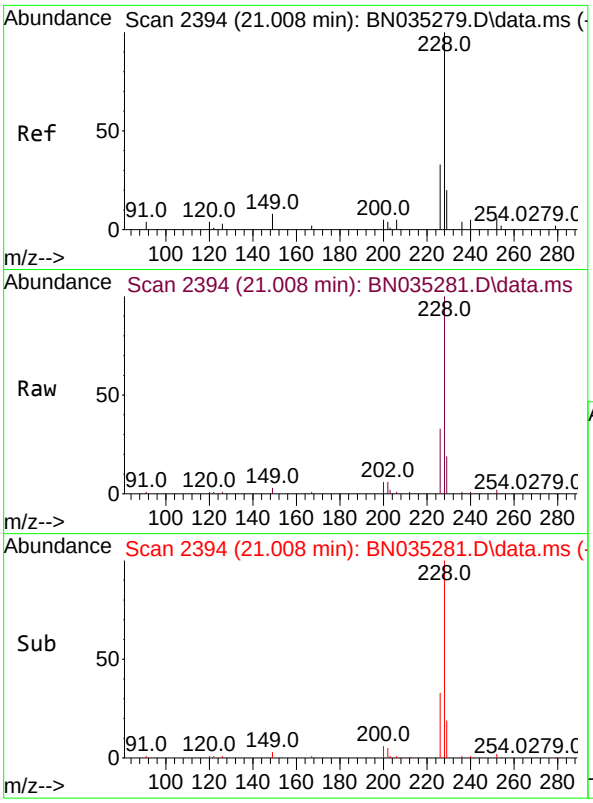


#28
Fluoranthene
Concen: 1.914 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.004 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:202 Resp: 43133

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.6	11.4
203	17.1	13.8	20.8



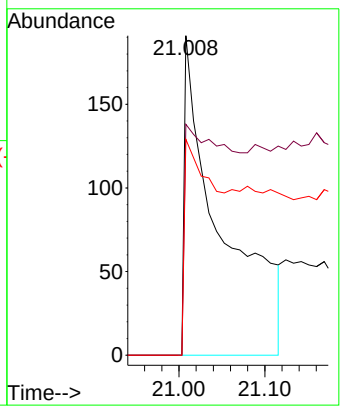


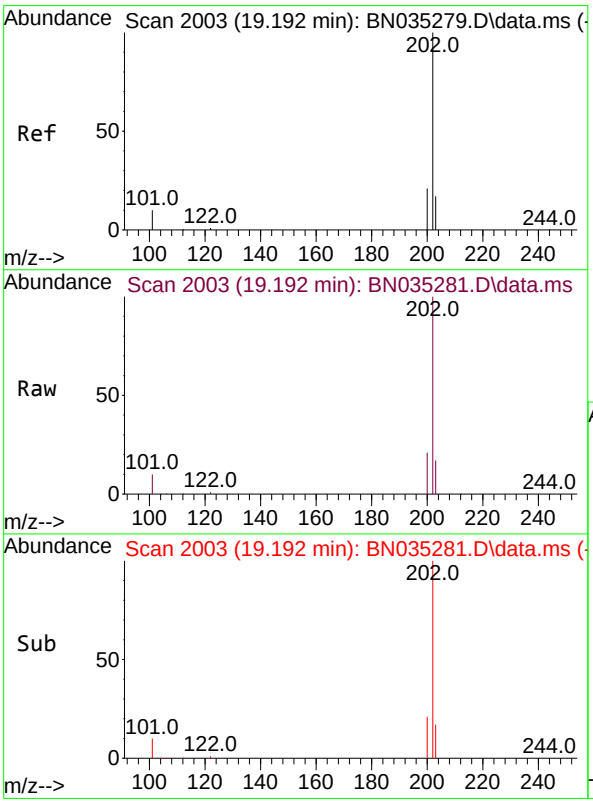
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 542

Ion	Ratio	Lower	Upper
240	100		
120	72.3	54.9	82.3
236	67.5	54.0	81.0

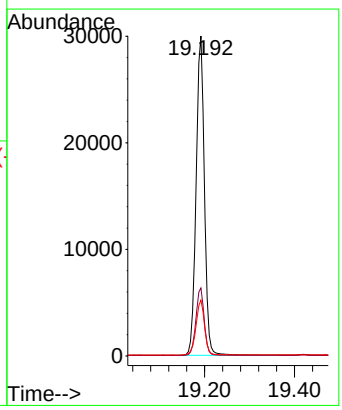


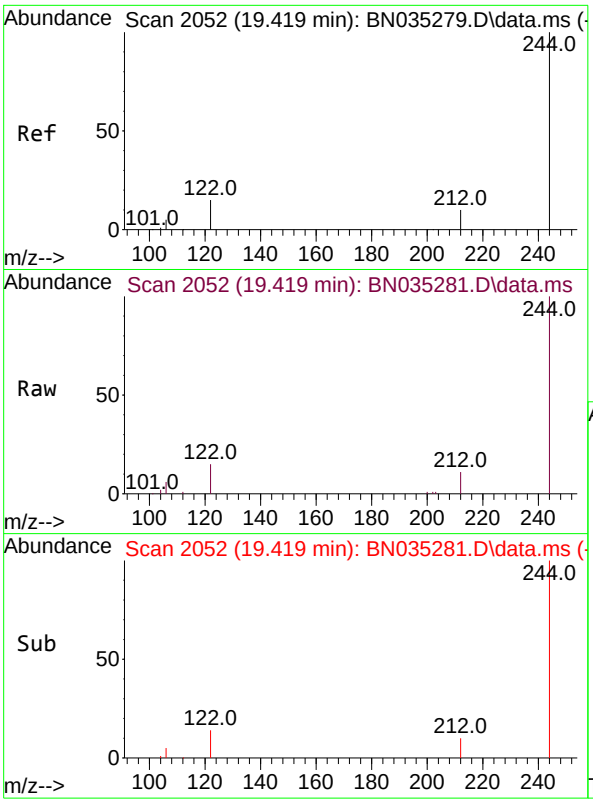


#30
Pyrene
Concen: 21.370 ng
RT: 19.192 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:202 Resp: 38572

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.7	14.4	21.6



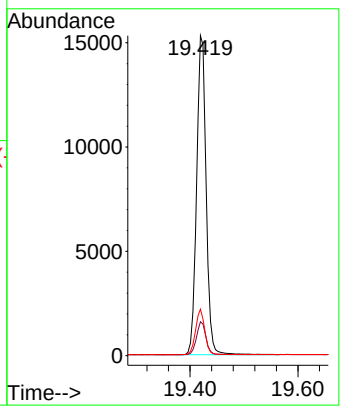


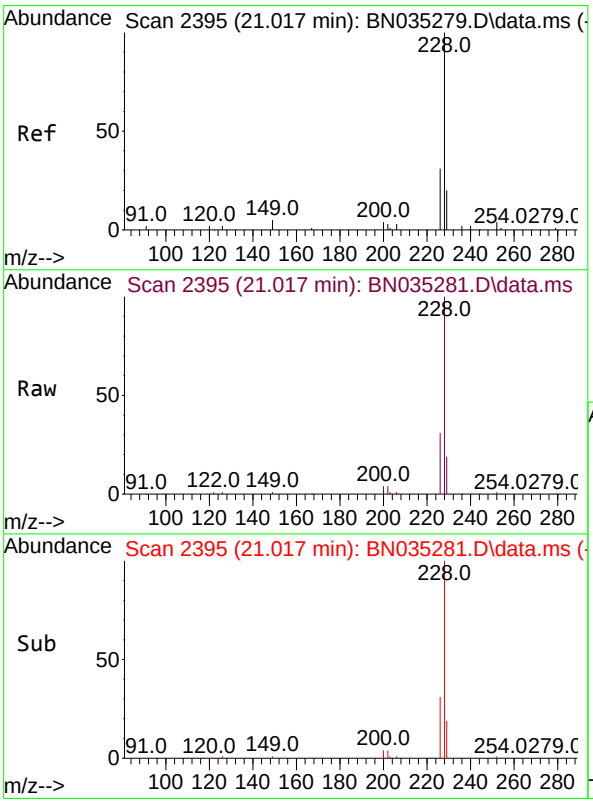
#31
Terphenyl-d14
Concen: 16.424 ng
RT: 19.419 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 18679

Ion	Ratio	Lower	Upper
244	100		
212	10.6	9.4	14.0
122	14.6	13.0	19.4

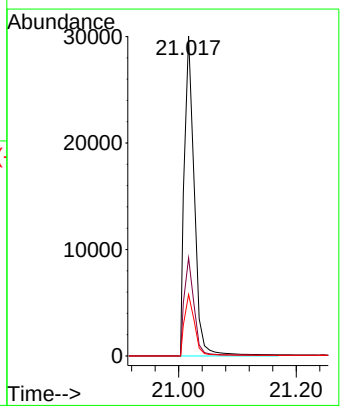


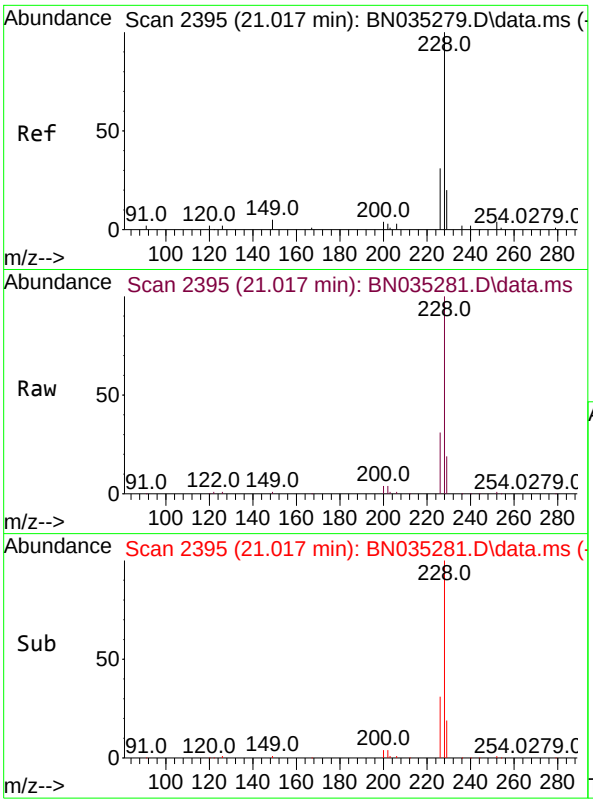


#32
Benzo(a)anthracene
Concen: 18.849 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:228 Resp: 35573

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	19.2	16.2	24.2



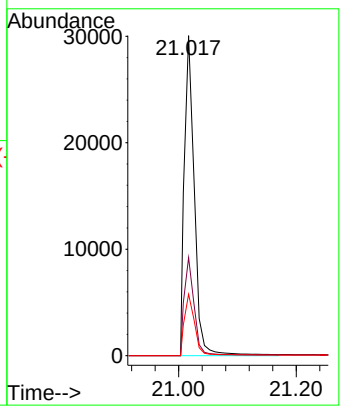


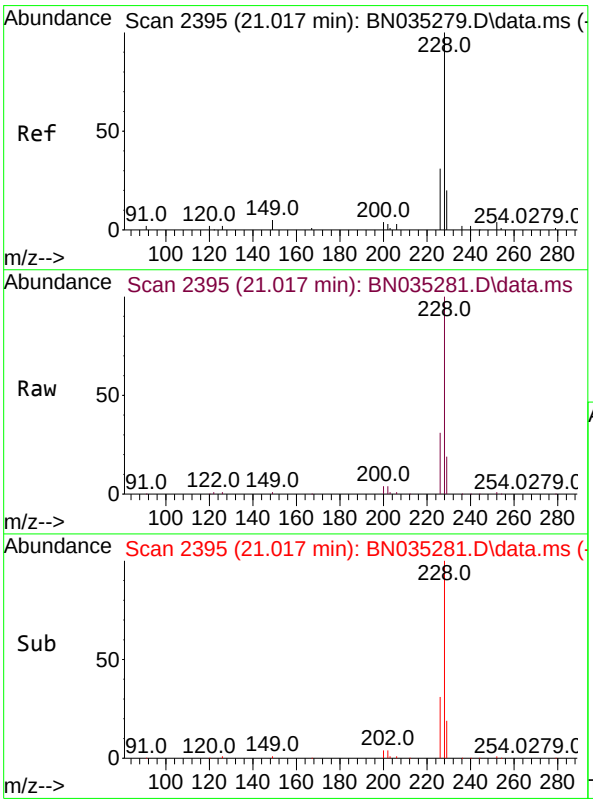
#33
Chrysene
Concen: 19.028 ng
RT: 21.017 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 35573

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	19.2	16.2	24.2

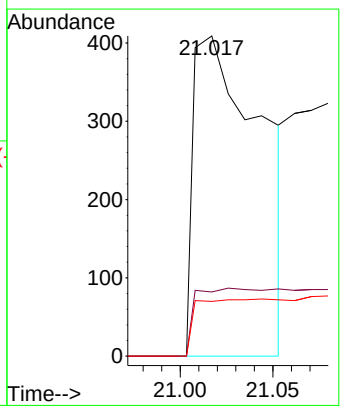


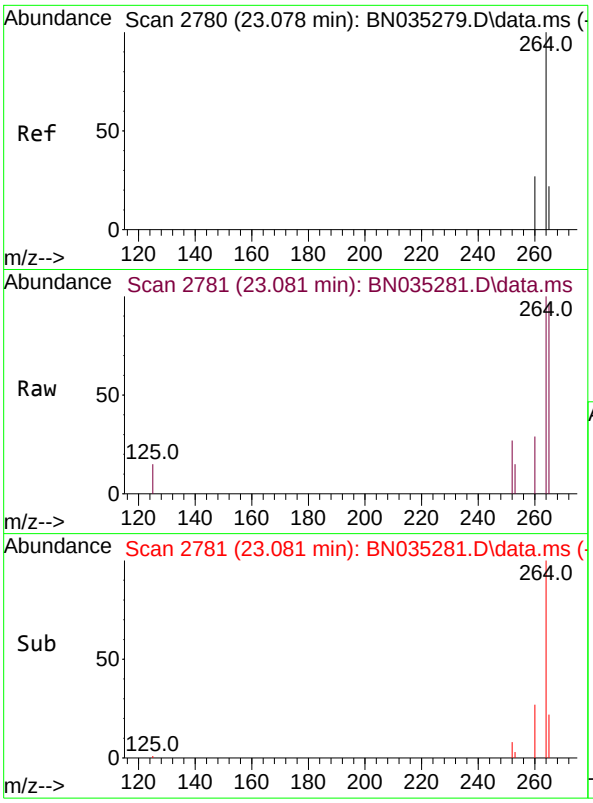


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.955 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:149 Resp: 946

Ion	Ratio	Lower	Upper
149	100		
167	20.1	0.0	0.0#
279	0.0	13.0	19.6#



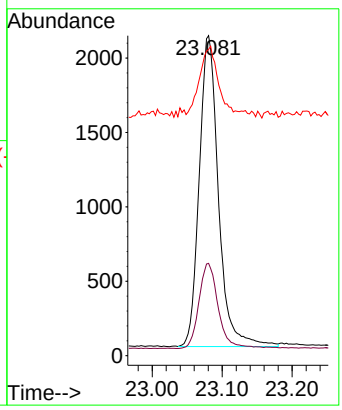


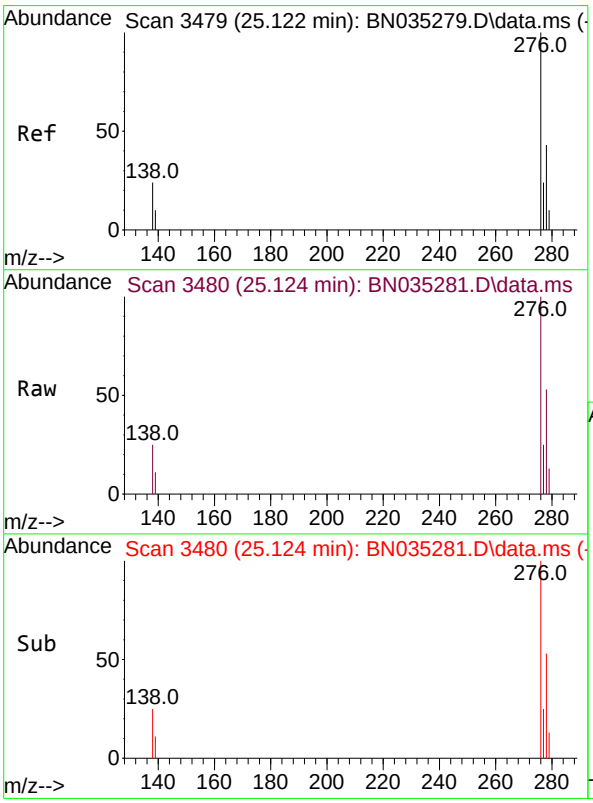
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 3989

Ion	Ratio	Lower	Upper
264	100		
260	28.8	22.3	33.5
265	95.7	68.6	103.0

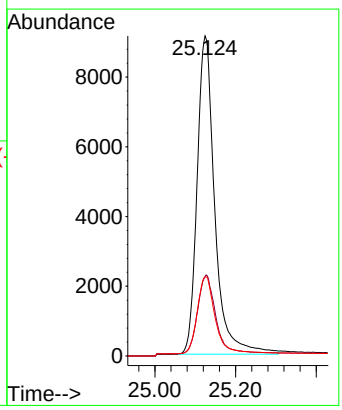


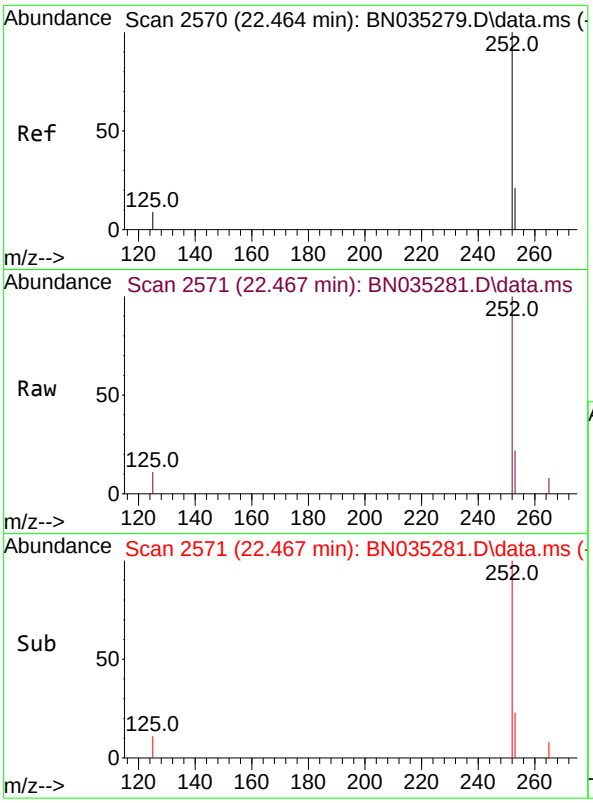


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.749 ng
RT: 25.124 min Scan# 3480
Delta R.T. 0.003 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:276 Resp: 27825

Ion	Ratio	Lower	Upper
276	100		
138	24.8	18.8	28.2
277	24.3	18.2	27.4



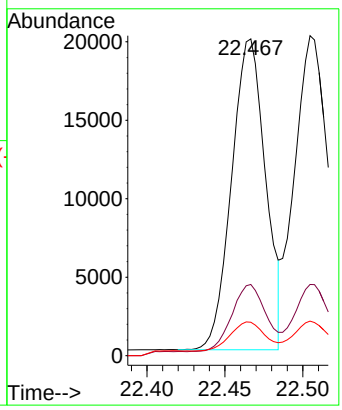


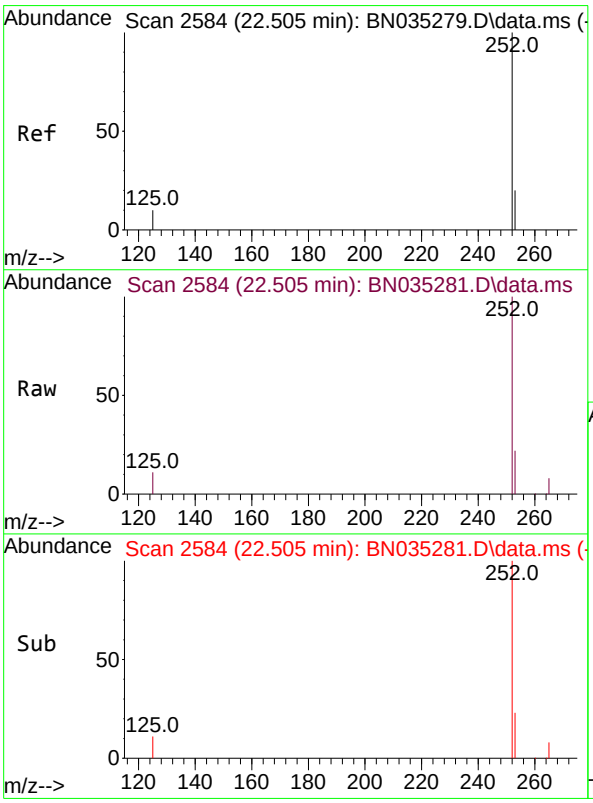
#37
Benzo(b)fluoranthene
Concen: 2.232 ng
RT: 22.467 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 29950

Ion	Ratio	Lower	Upper
252	100		
253	22.5	20.2	30.2
125	10.6	12.0	18.0#

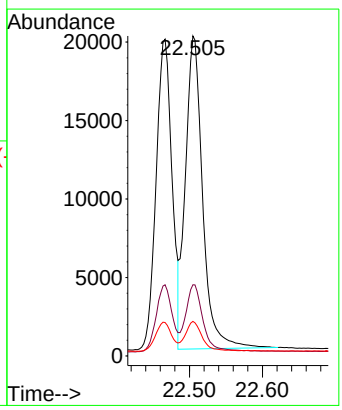


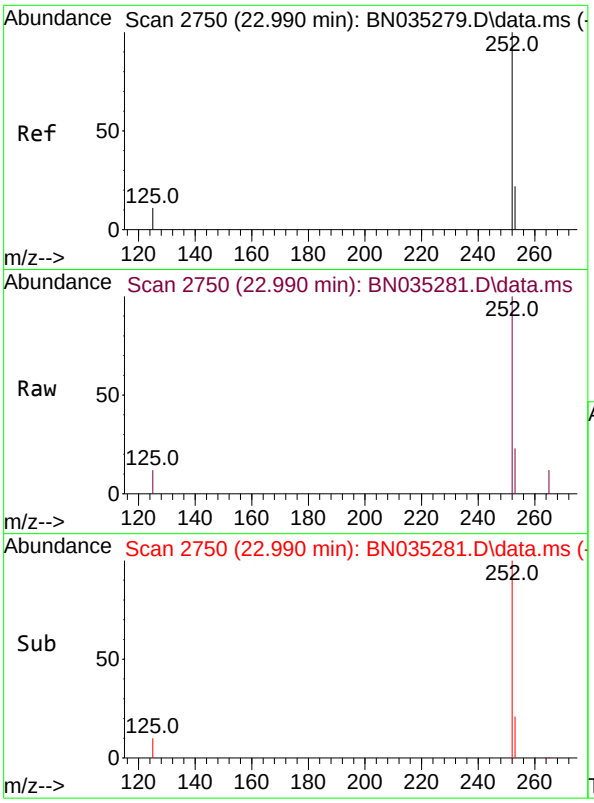


#38
Benzo(k)fluoranthene
Concen: 2.434 ng
RT: 22.505 min Scan# 2584
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:252 Resp: 32689

Ion	Ratio	Lower	Upper
252	100		
253	22.2	20.1	30.1
125	10.8	12.7	19.1#



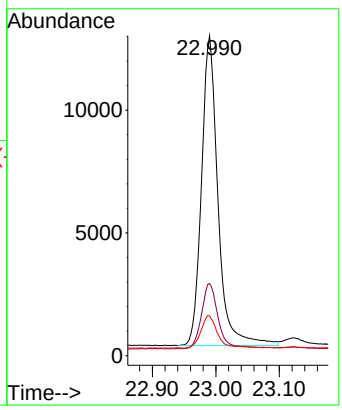


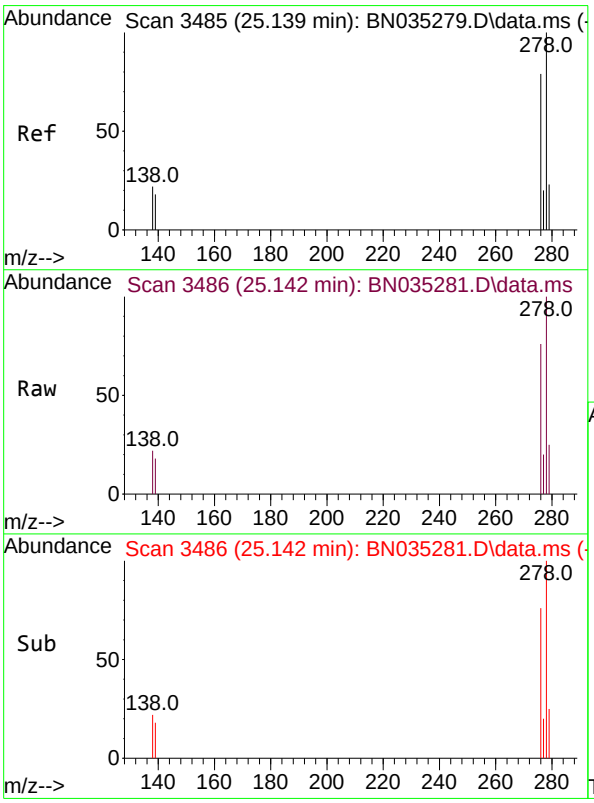
#39
Benzo(a)pyrene
Concen: 1.929 ng
RT: 22.990 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 22785

Ion	Ratio	Lower	Upper
252	100		
253	22.5	22.3	33.5
125	12.5	15.3	22.9#

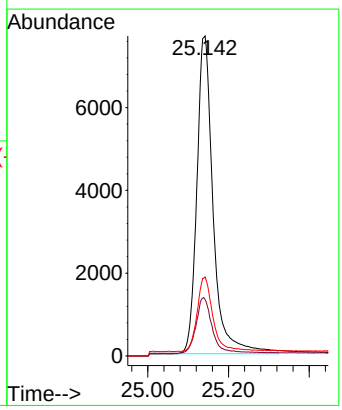


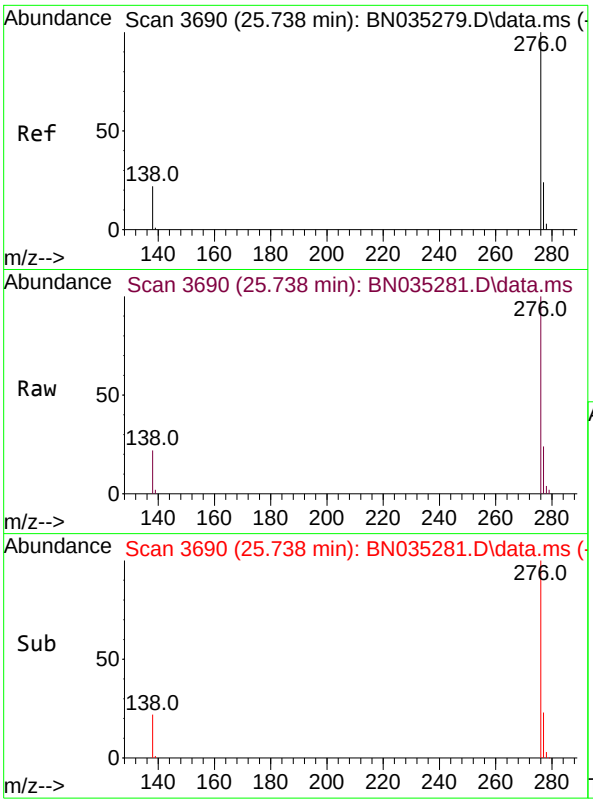


#40
Dibenzo(a,h)anthracene
Concen: 1.712 ng
RT: 25.142 min Scan# 3486
Delta R.T. 0.003 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:278 Resp: 21588

Ion	Ratio	Lower	Upper
278	100		
139	17.6	17.0	25.6
279	24.7	23.0	34.4



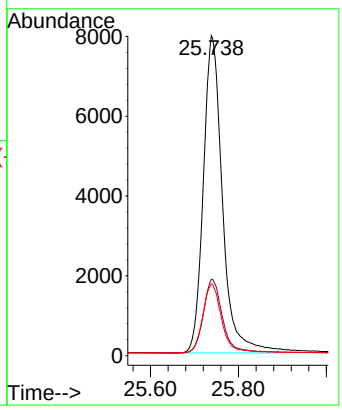


#41
Benzo(g,h,i)perylene
Concen: 1.794 ng
RT: 25.738 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 24058

Ion	Ratio	Lower	Upper
276	100		
277	23.8	21.1	31.7
138	22.4	19.8	29.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035282.D
Acq On : 25 Nov 2024 13:16
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 25 14:21:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration

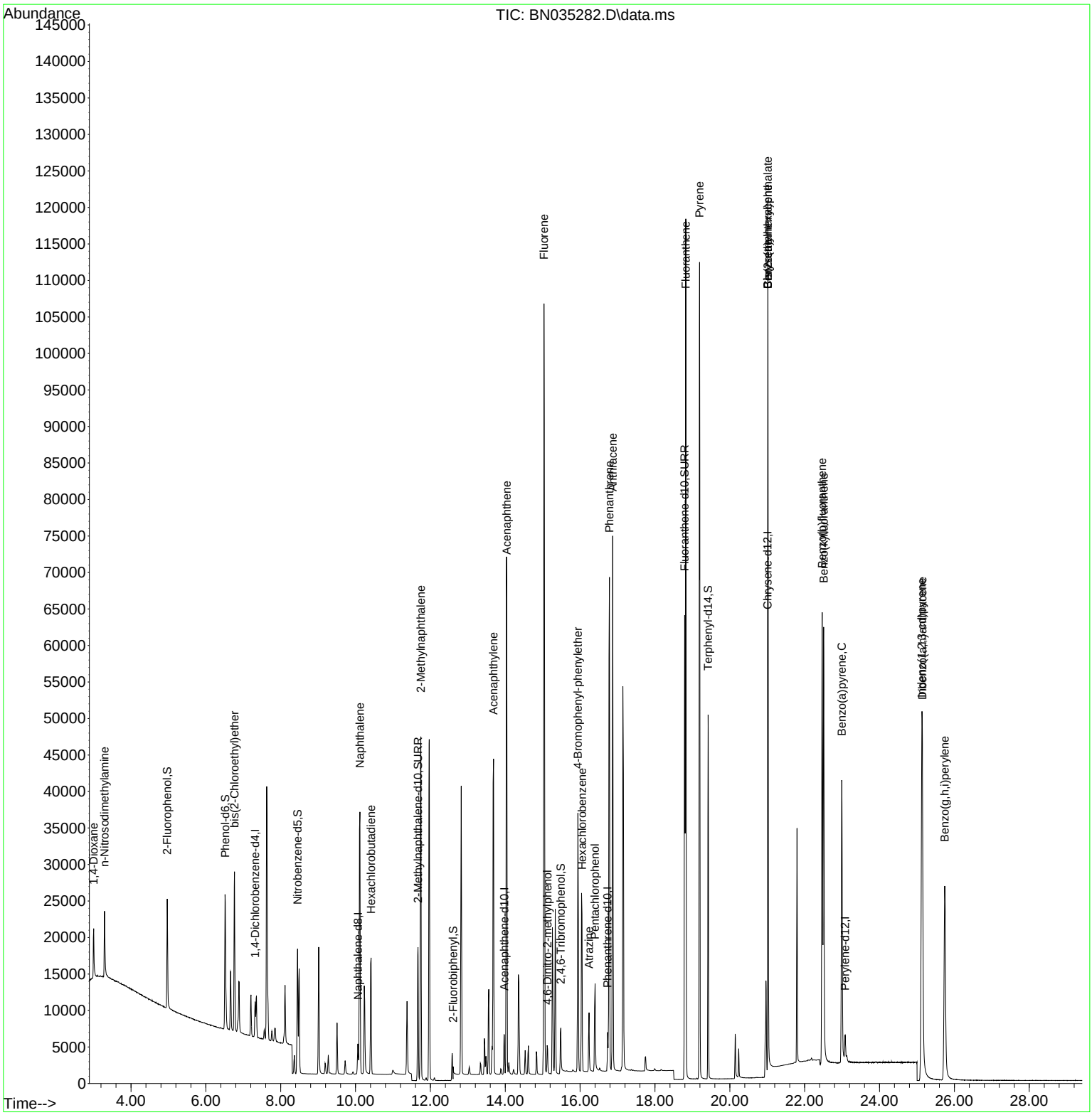
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.315	152	2270	0.400	ng		0.00
7) Naphthalene-d8	10.063	136	5138	0.400	ng		0.00
13) Acenaphthene-d10	13.976	164	2927	0.400	ng		0.00
19) Phenanthrene-d10	16.734	188	6761	0.400	ng		0.00
29) Chrysene-d12	21.008	240	721	0.400	ng		0.00
35) Perylene-d12	23.081	264	4343	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	12319	2.138	ng		0.00
5) Phenol-d6	6.520	99	17485	2.420	ng		0.00
8) Nitrobenzene-d5	8.450	82	14309	3.199	ng		0.00
11) 2-Methylnaphthalene-d10	11.667	152	23828	2.602	ng		0.00
14) 2,4,6-Tribromophenol	15.484	330	5391	2.553	ng		0.00
15) 2-Fluorobiphenyl	12.608	172	1139	0.096	ng		0.00
27) Fluoranthene-d10	18.792	212	66182	3.195	ng		0.00
31) Terphenyl-d14	19.419	244	44092	29.144	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	4753	2.305	ng	#	77
3) n-Nitrosodimethylamine	3.292	42	5433	2.827	ng	#	85
6) bis(2-Chloroethyl)ether	6.766	93	15869	2.926	ng		100
9) Naphthalene	10.116	128	46866	3.494	ng		98
10) Hexachlorobutadiene	10.415	225	13571	3.452	ng	#	99
12) 2-Methylnaphthalene	11.742	142	32151	3.249	ng		98
16) Acenaphthylene	13.688	152	50280	4.019	ng		99
17) Acenaphthene	14.040	154	32466	3.960	ng		96
18) Fluorene	15.035	166	46490	3.855	ng		99
20) 4,6-Dinitro-2-methylph...	15.131	198	3008	2.137	ng	#	48
21) 4-Bromophenyl-phenylether	15.939	248	14640	3.399	ng		99
22) Hexachlorobenzene	16.051	284	20624	4.614	ng		100
23) Atrazine	16.237	200	6312	1.633	ng	#	92
24) Pentachlorophenol	16.399	266	6031	2.888	ng		97
25) Phenanthrene	16.784	178	73801	4.148	ng		99
26) Anthracene	16.870	178	67705	4.143	ng		100
28) Fluoranthene	18.825	202	102229	4.178	ng		100
30) Pyrene	19.192	202	93180	38.808	ng		99
32) Benzo(a)anthracene	21.017	228	82975	33.051	ng		99
33) Chrysene	21.017	228	82975	33.364	ng		99
34) Bis(2-ethylhexyl)phtha...	21.017	149	1320	1.002	ng	#	84
36) Indeno(1,2,3-cd)pyrene	25.127	276	62075	3.583	ng		97
37) Benzo(b)fluoranthene	22.467	252	69657	4.767	ng	#	91
38) Benzo(k)fluoranthene	22.508	252	72243	4.941	ng	#	91
39) Benzo(a)pyrene	22.990	252	51266	3.987	ng	#	87
40) Dibenzo(a,h)anthracene	25.145	278	48696	3.547	ng		91
41) Benzo(g,h,i)perylene	25.744	276	52706	3.610	ng		94

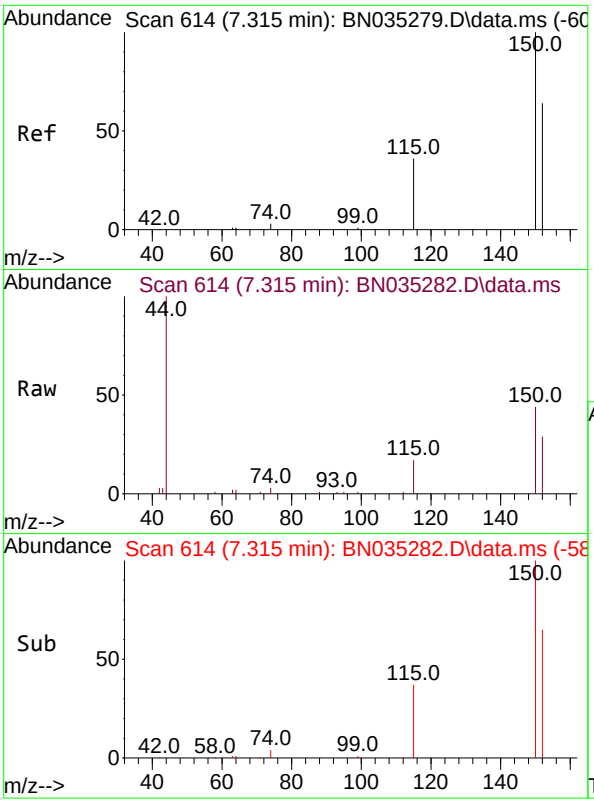
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035282.D
Acq On : 25 Nov 2024 13:16
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 25 14:21:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration



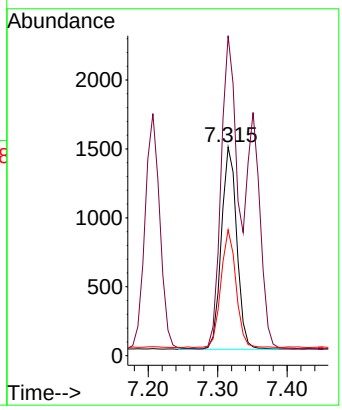


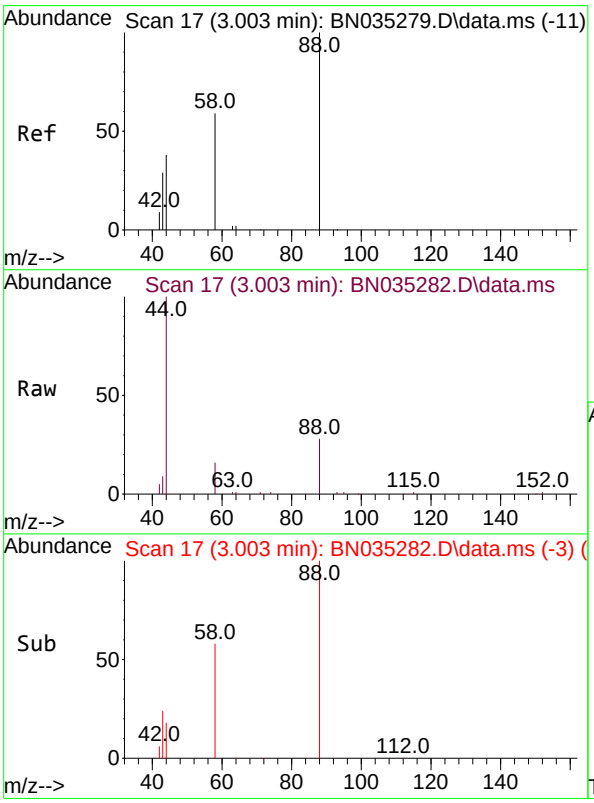
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2270

Ion	Ratio	Lower	Upper
152	100		
150	153.4	124.5	186.7
115	60.4	47.8	71.8

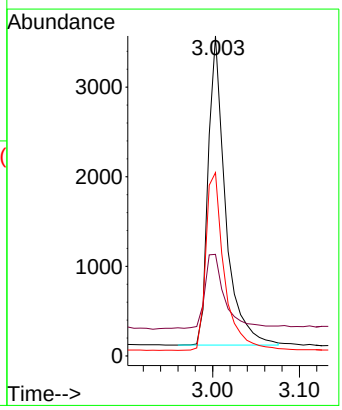


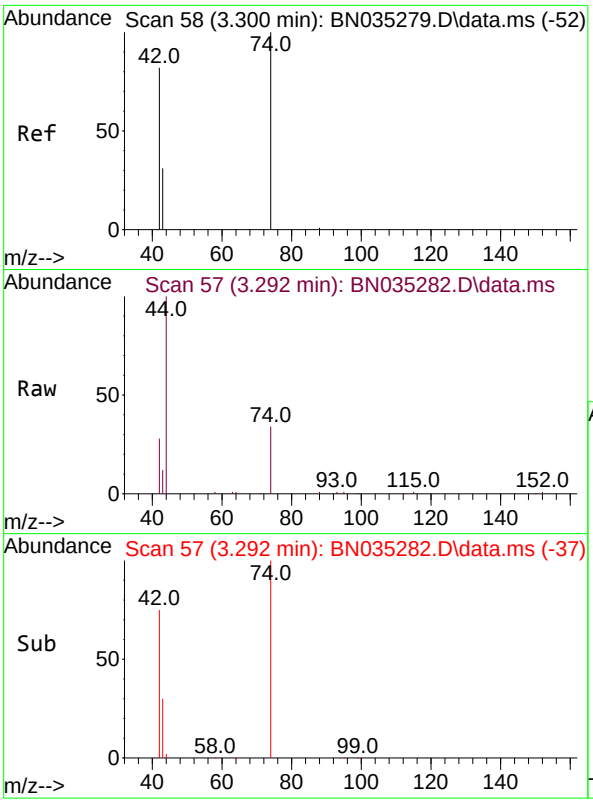


#2
1,4-Dioxane
Concen: 2.305 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion: 88 Resp: 4753

Ion	Ratio	Lower	Upper
88	100		
43	29.5	48.1	72.1#
58	61.9	46.9	70.3



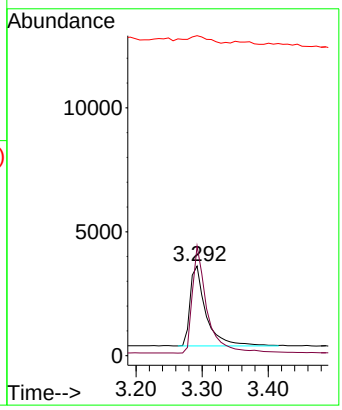


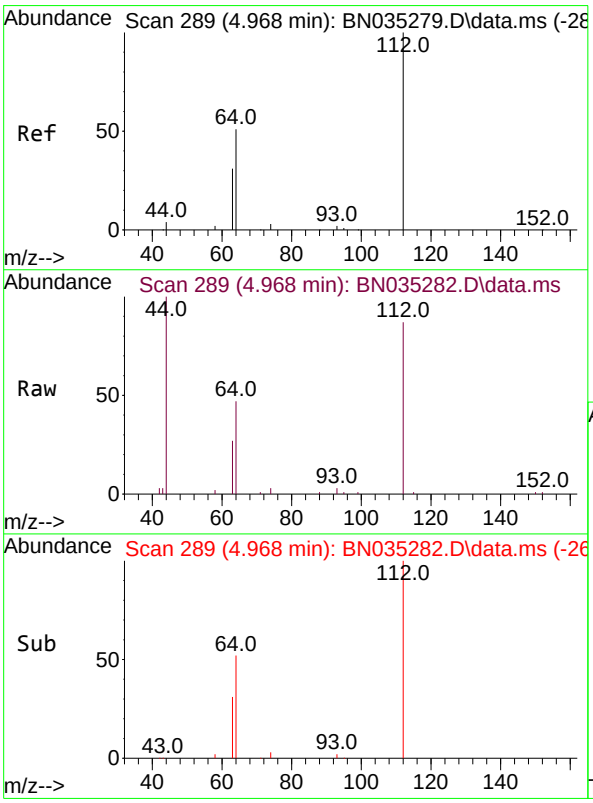
#3
n-Nitrosodimethylamine
Concen: 2.827 ng
RT: 3.292 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 5433

Ion	Ratio	Lower	Upper
42	100		
74	124.6	102.7	154.1
44	9.3	34.1	51.1#

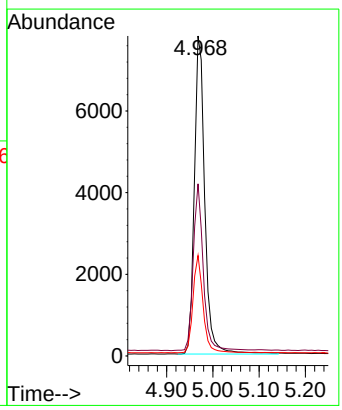


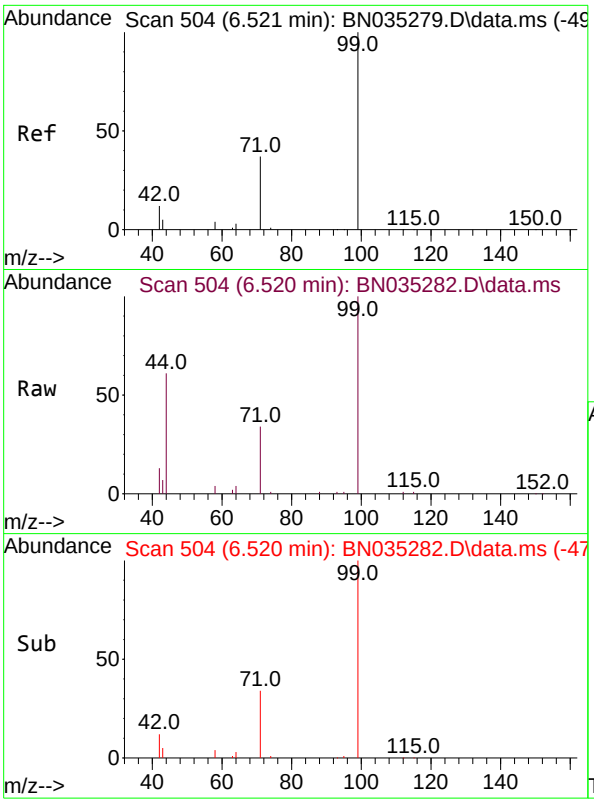


#4
2-Fluorophenol
Concen: 2.138 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:112 Resp: 12319

Ion	Ratio	Lower	Upper
112	100		
64	50.4	40.4	60.6
63	29.7	23.8	35.8



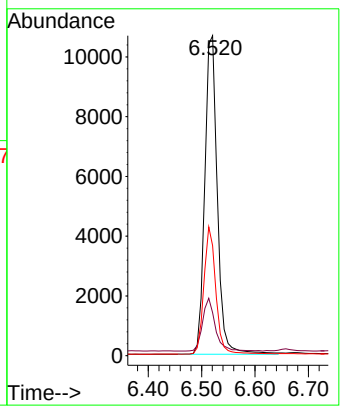


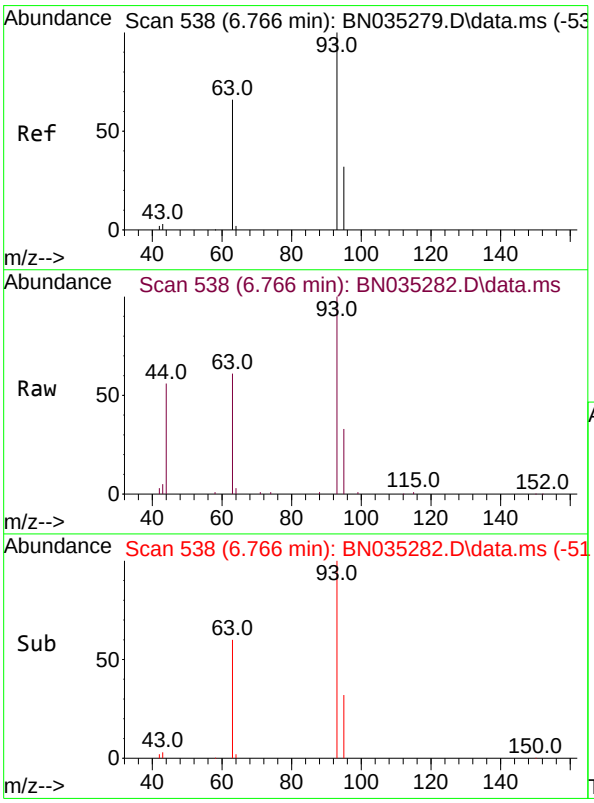
#5
Phenol-d6
Concen: 2.420 ng
RT: 6.520 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 17485

Ion	Ratio	Lower	Upper
99	100		
42	16.7	12.8	19.2
71	38.2	31.4	47.2

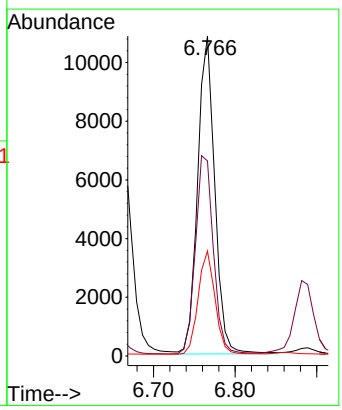


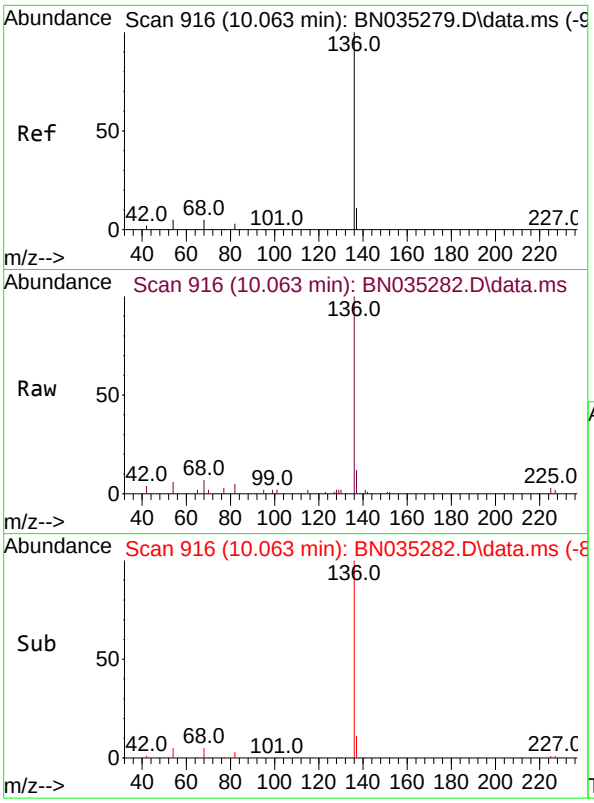


#6
bis(2-Chloroethyl)ether
Concen: 2.926 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion: 93 Resp: 15869

Ion	Ratio	Lower	Upper
93	100		
63	65.4	52.3	78.5
95	32.0	25.5	38.3



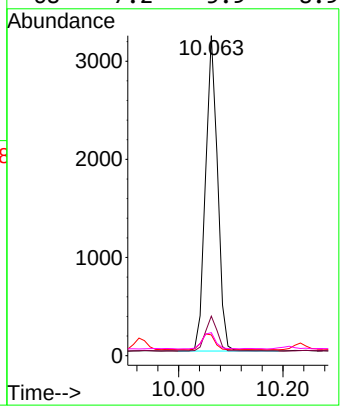


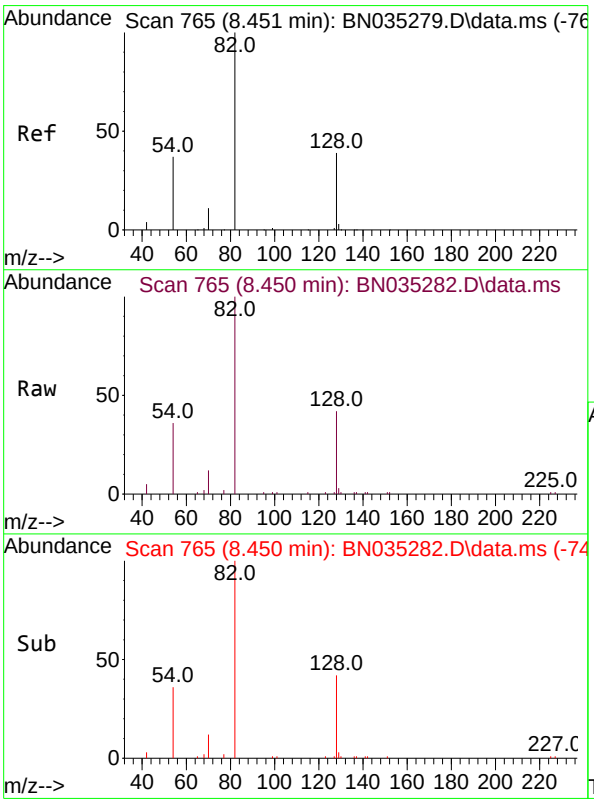
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 5138

Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.7	14.5
54	6.5	5.3	7.9
68	7.2	5.9	8.9

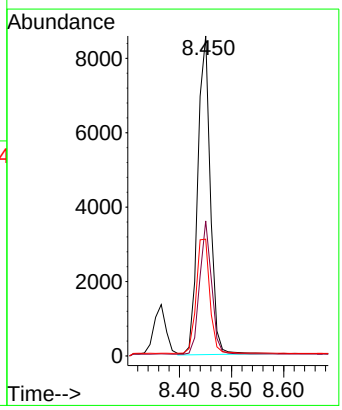


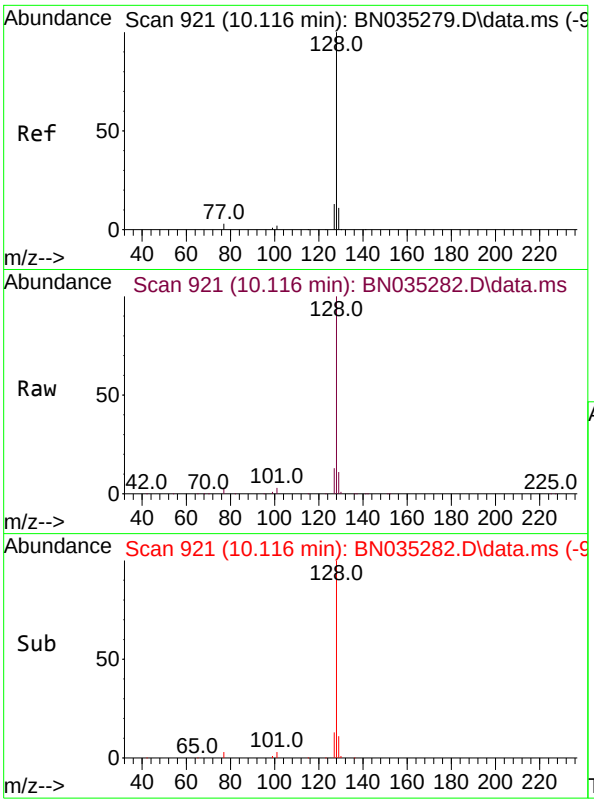


#8
Nitrobenzene-d5
Concen: 3.199 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion: 82 Resp: 14309

Ion	Ratio	Lower	Upper
82	100		
128	42.2	33.0	49.4
54	36.5	33.3	49.9



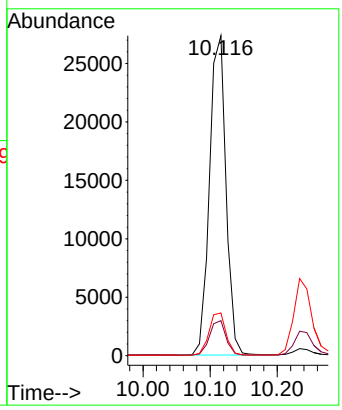


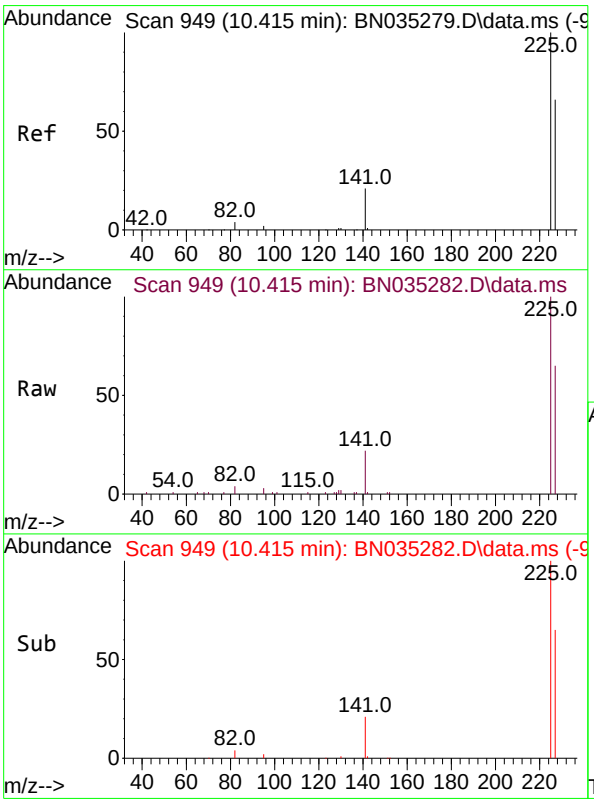
#9
Naphthalene
Concen: 3.494 ng
RT: 10.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 46866

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.6	14.4
127	13.4	11.3	16.9

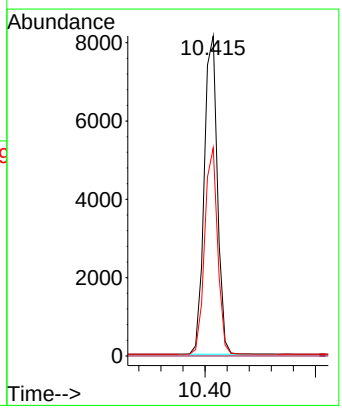


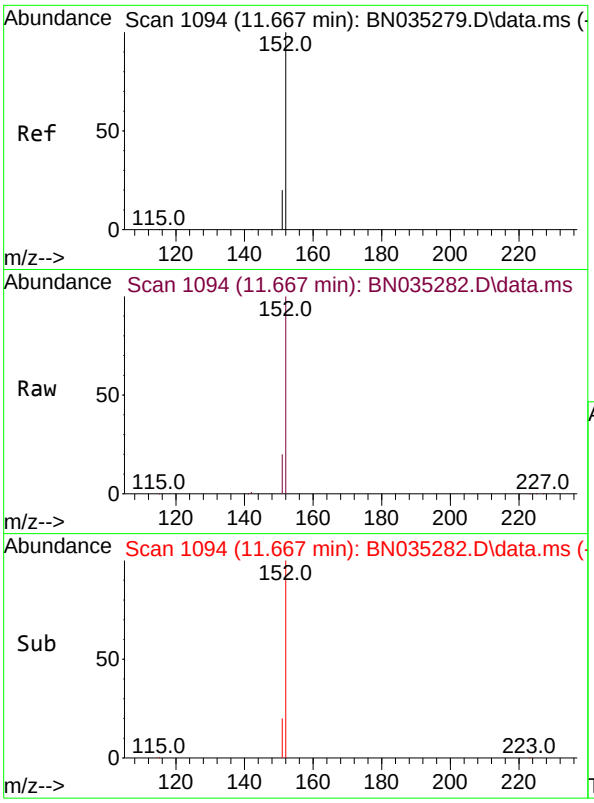


#10
Hexachlorobutadiene
Concen: 3.452 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:225 Resp: 13571

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.3	76.9



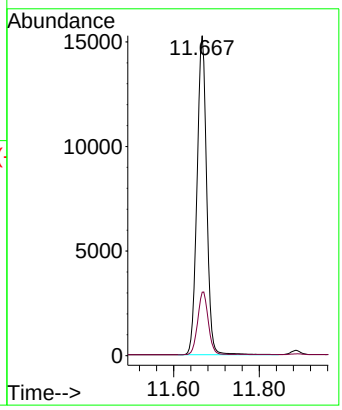


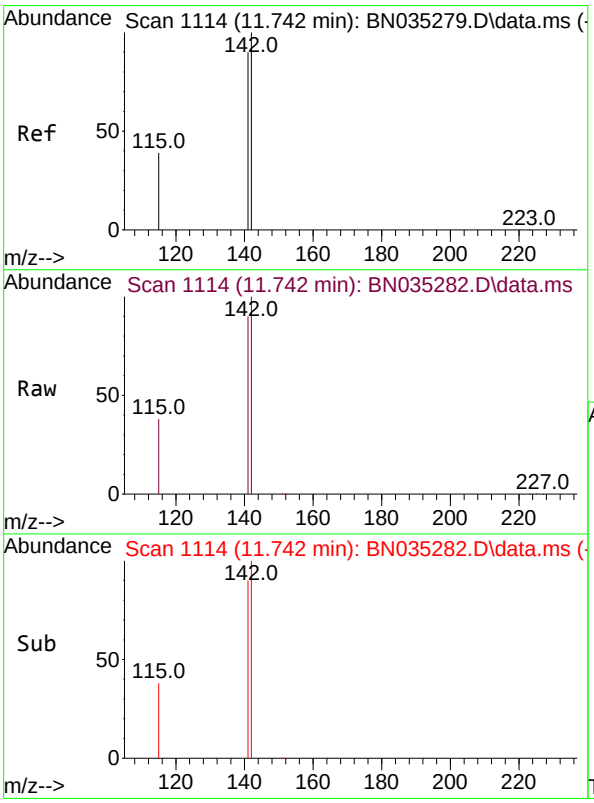
#11
2-Methylnaphthalene-d10
Concen: 2.602 ng
RT: 11.667 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 23828

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.2	25.8

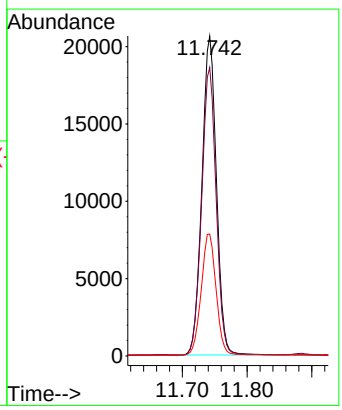


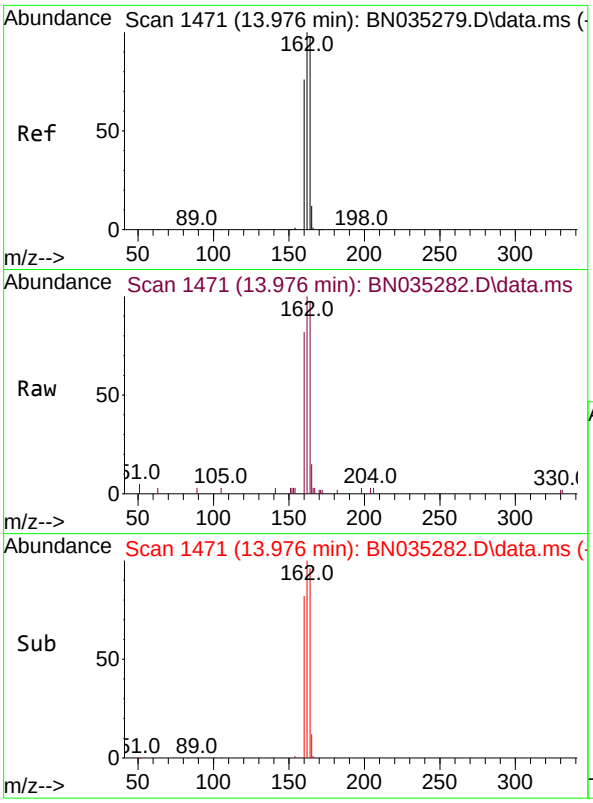


#12
2-Methylnaphthalene
Concen: 3.249 ng
RT: 11.742 min Scan# 1114
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:142 Resp: 32151

Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.8	107.8
115	38.1	32.6	49.0



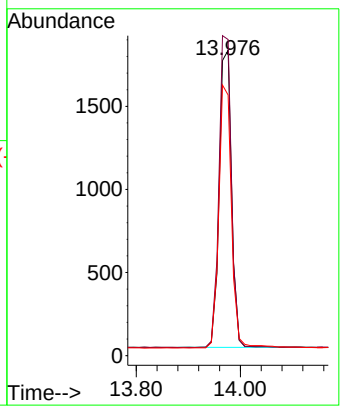


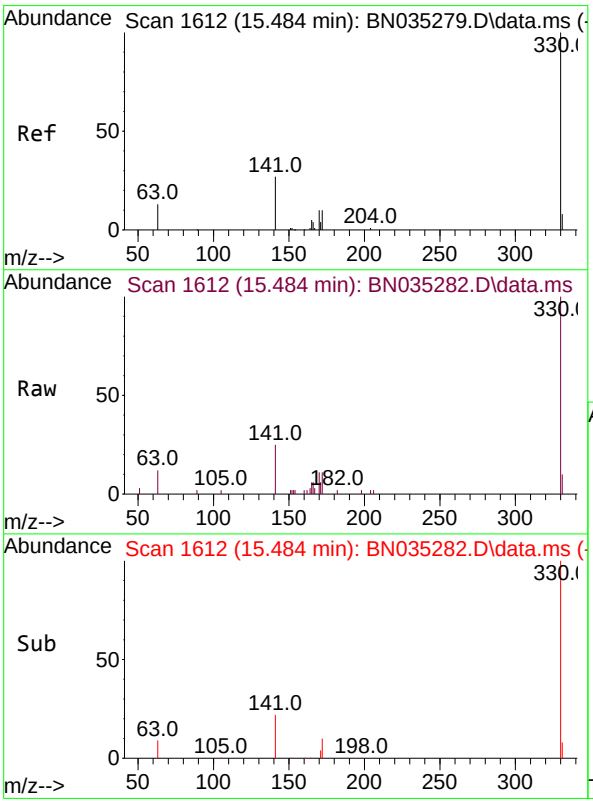
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 2927

Ion	Ratio	Lower	Upper
164	100		
162	103.5	82.0	123.0
160	85.4	63.0	94.4

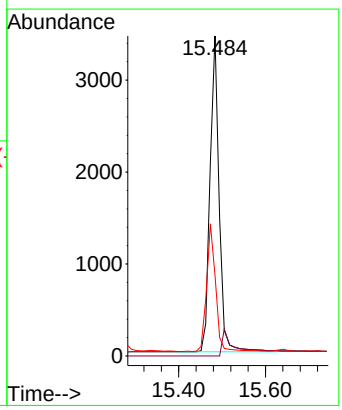


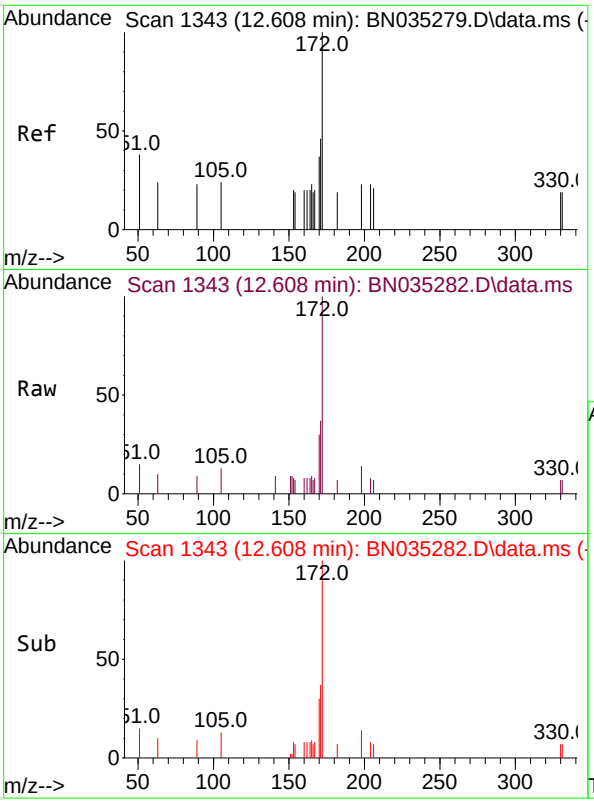


#14
2,4,6-Tribromophenol
Concen: 2.553 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:330 Resp: 5391

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	39.7	32.4	48.6



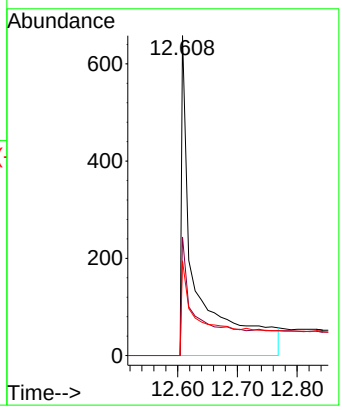


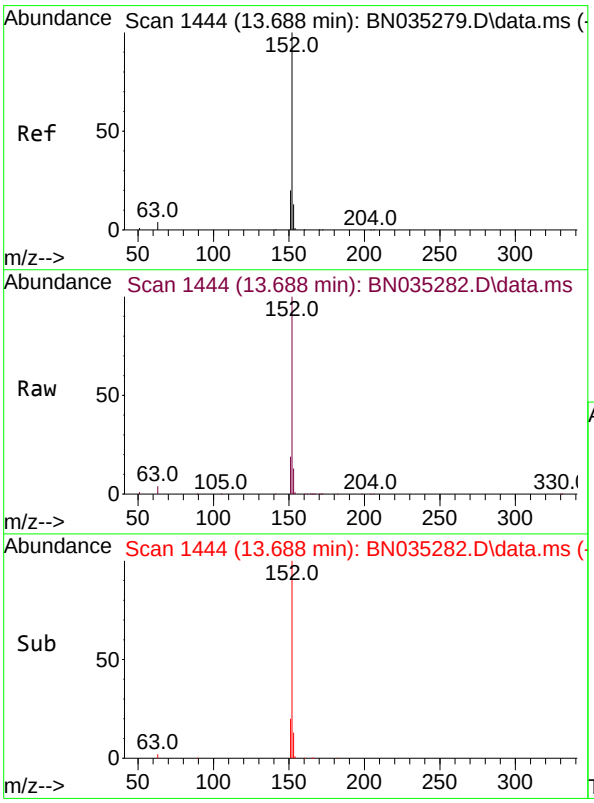
#15
2-Fluorobiphenyl
Concen: 0.096 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 1139

Ion	Ratio	Lower	Upper
172	100		
171	37.1	36.6	55.0
170	29.6	29.7	44.5#

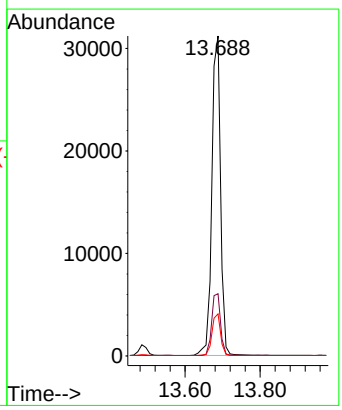


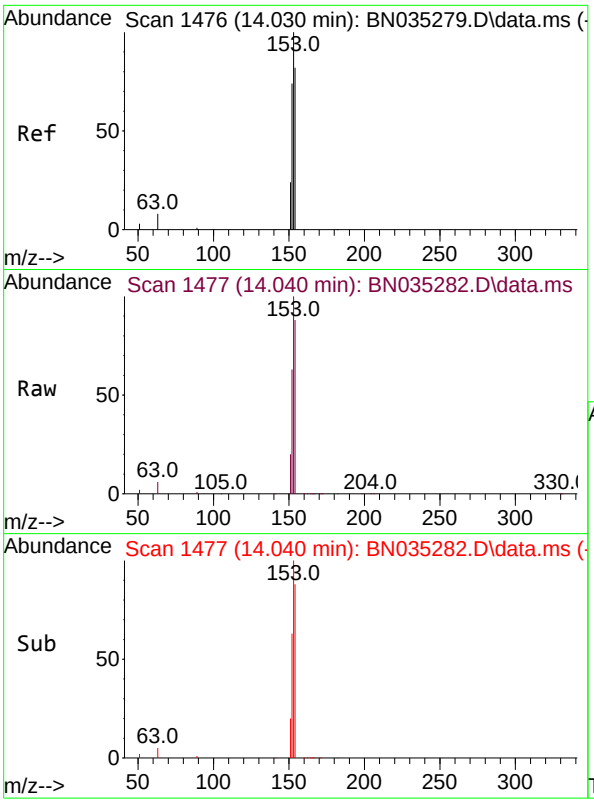


#16
Acenaphthylene
Concen: 4.019 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:152 Resp: 50280

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.9	23.9
153	12.9	10.2	15.4



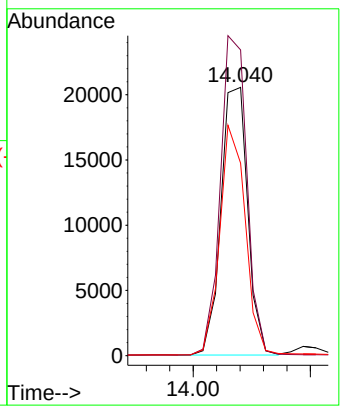


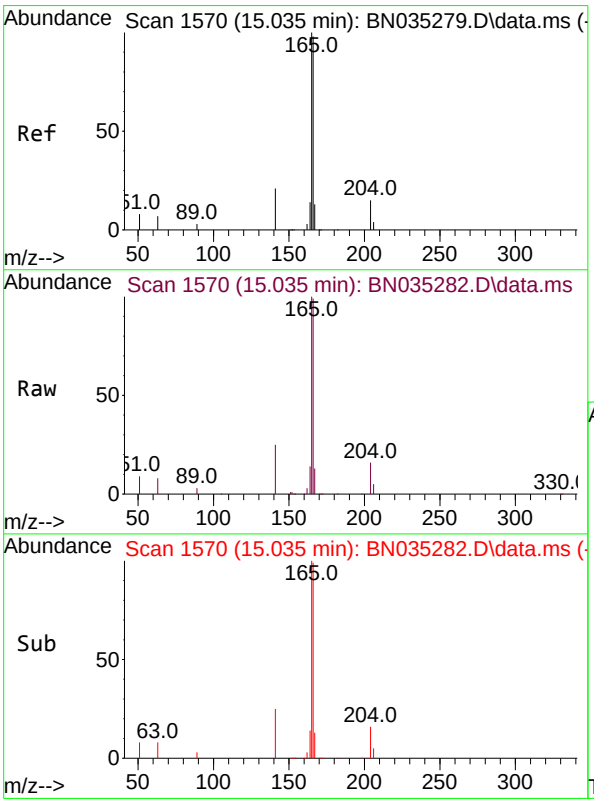
#17
Acenaphthene
Concen: 3.960 ng
RT: 14.040 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 32466

Ion	Ratio	Lower	Upper
154	100		
153	118.6	96.1	144.1
152	82.9	72.2	108.2

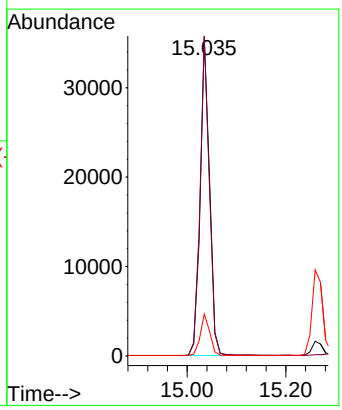


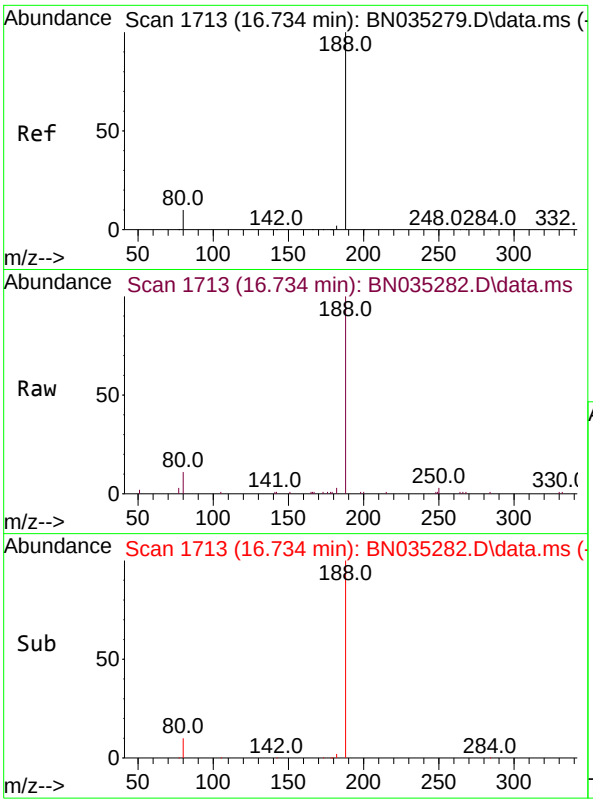


#18
Fluorene
Concen: 3.855 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:166 Resp: 46490

Ion	Ratio	Lower	Upper
166	100		
165	100.0	81.2	121.8
167	13.3	10.5	15.7



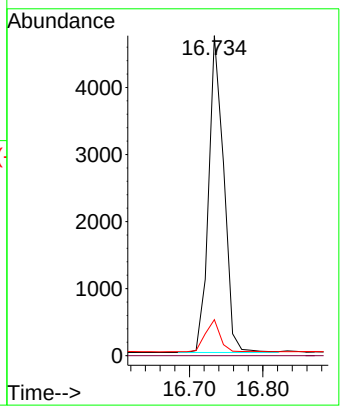


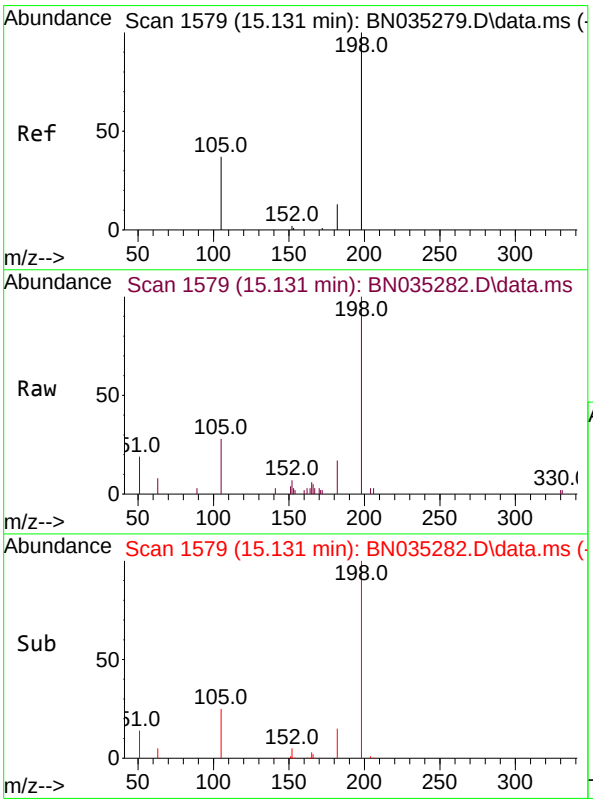
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 6761

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	8.9	13.3

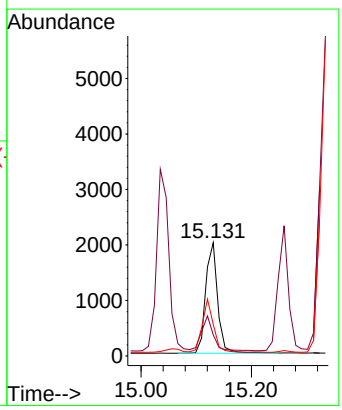


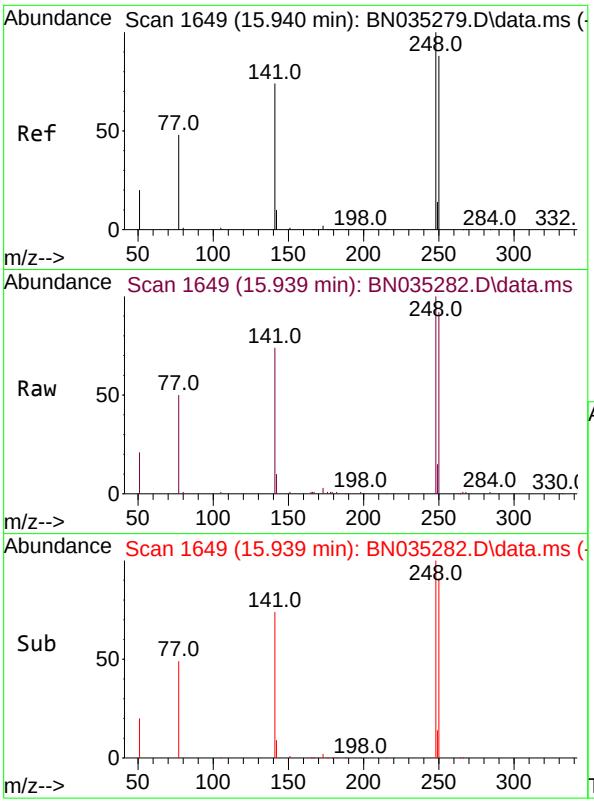


#20
4,6-Dinitro-2-methylphenol
Concen: 2.137 ng
RT: 15.131 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:198 Resp: 3008

Ion	Ratio	Lower	Upper
198	100		
51	18.6	53.6	80.4#
105	28.0	47.4	71.2#



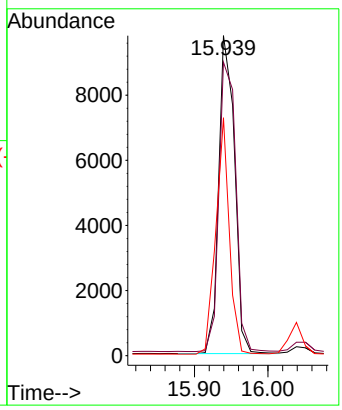


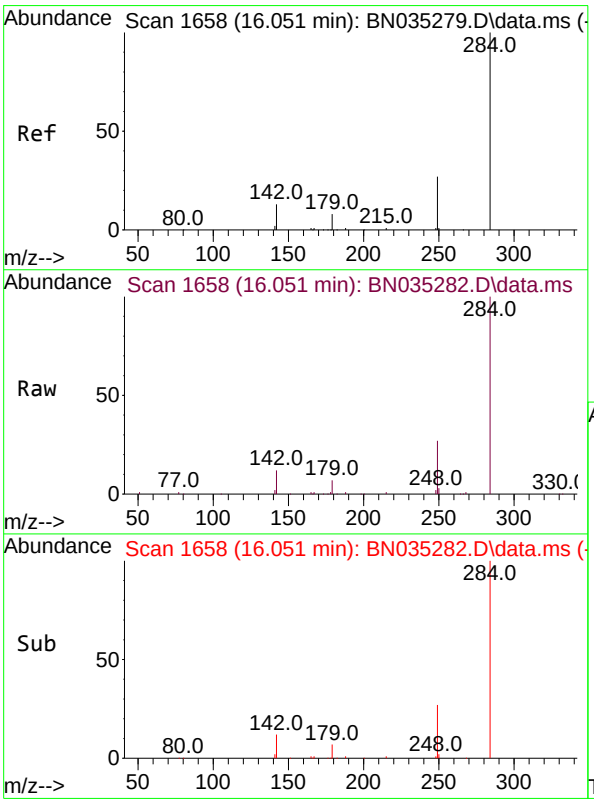
#21
4-Bromophenyl-phenylether
Concen: 3.399 ng
RT: 15.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 14640

Ion	Ratio	Lower	Upper
248	100		
250	91.7	74.8	112.2
141	74.4	59.0	88.4

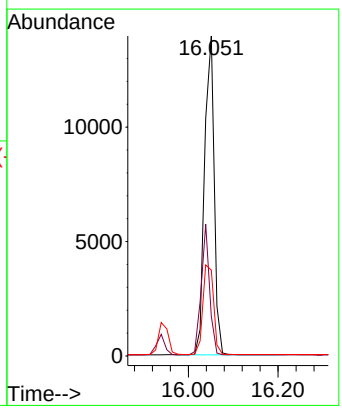


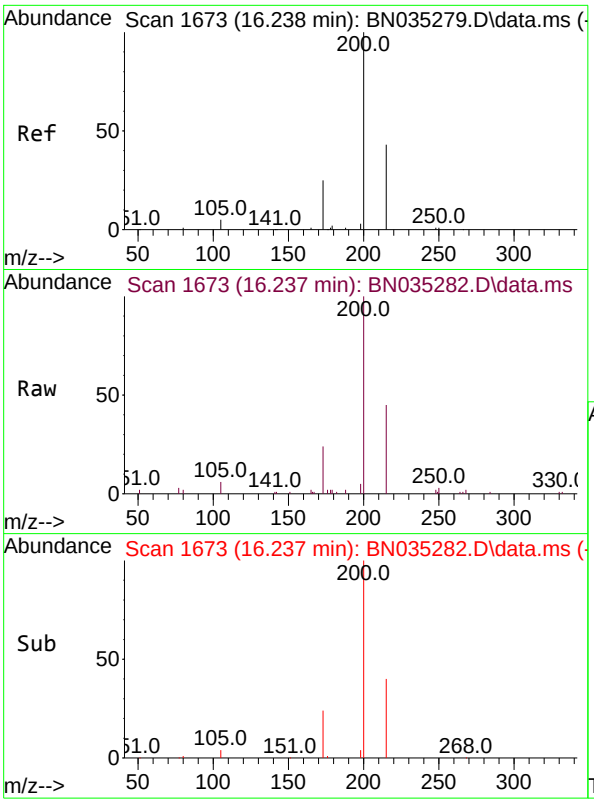


#22
Hexachlorobenzene
Concen: 4.614 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:284 Resp: 20624

Ion	Ratio	Lower	Upper
284	100		
142	36.0	28.7	43.1
249	31.4	25.4	38.0



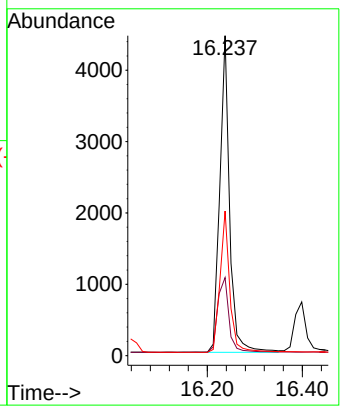


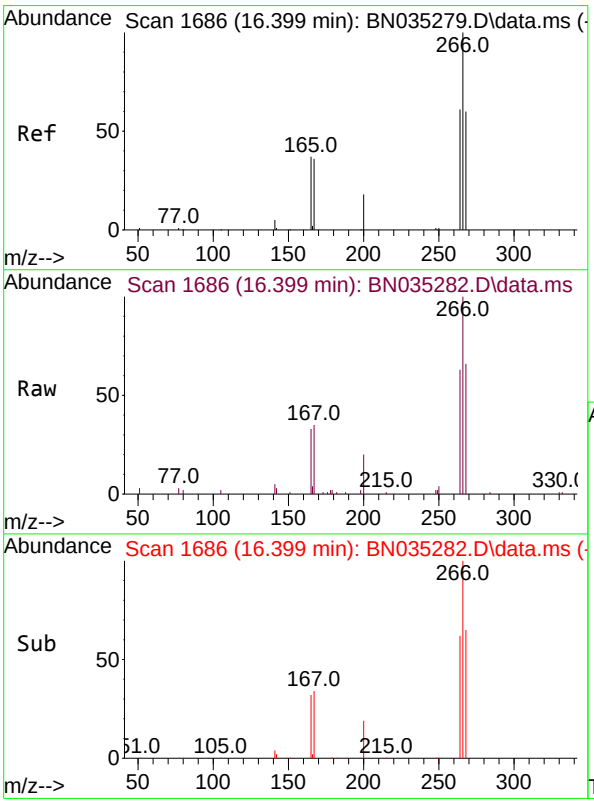
#23
Atrazine
Concen: 1.633 ng
RT: 16.237 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 6312

Ion	Ratio	Lower	Upper
200	100		
173	24.4	25.8	38.8#
215	45.2	38.6	58.0

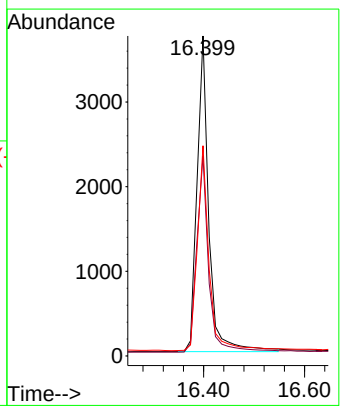


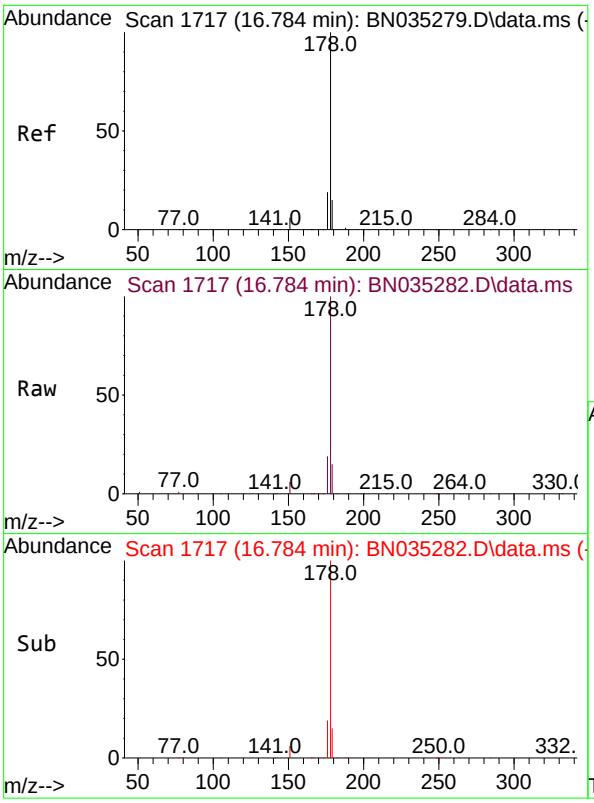


#24
Pentachlorophenol
Concen: 2.888 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:266 Resp: 6031

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.3	73.9
268	64.9	48.6	73.0



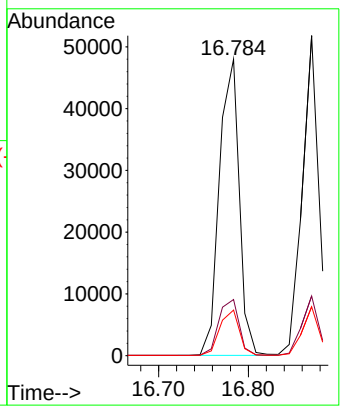


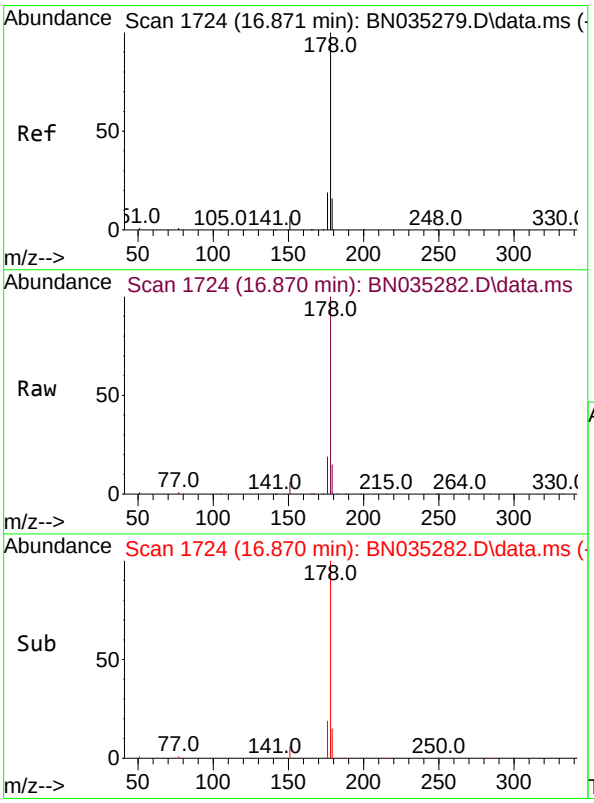
#25
Phenanthrene
Concen: 4.148 ng
RT: 16.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 73801

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.1	12.6	18.8

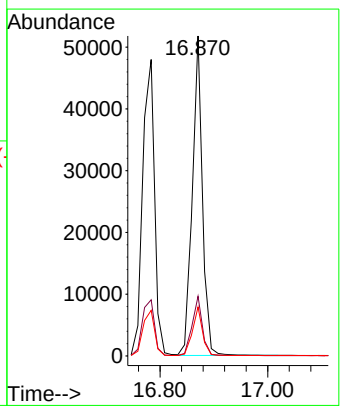


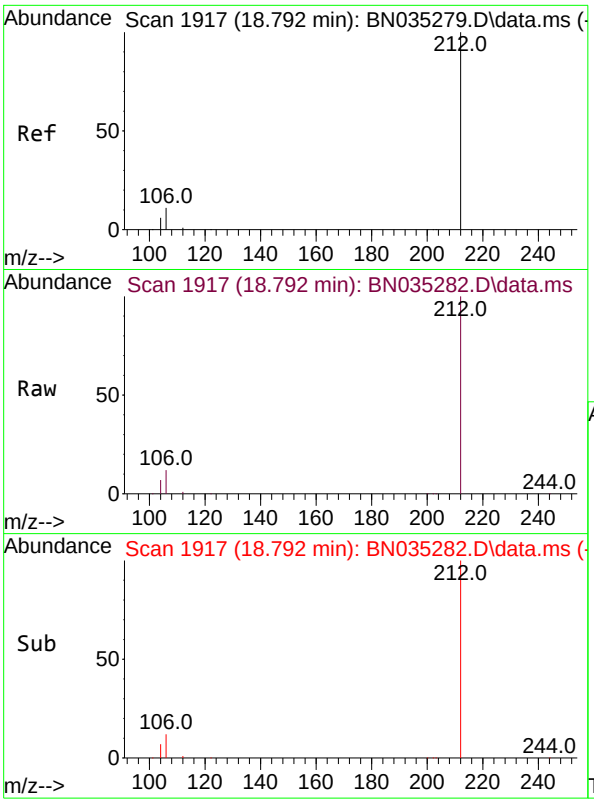


#26
Anthracene
Concen: 4.143 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:178 Resp: 67705

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.2	12.4	18.6



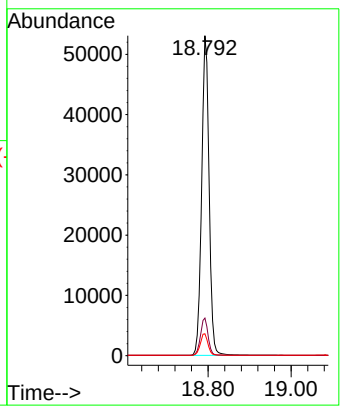


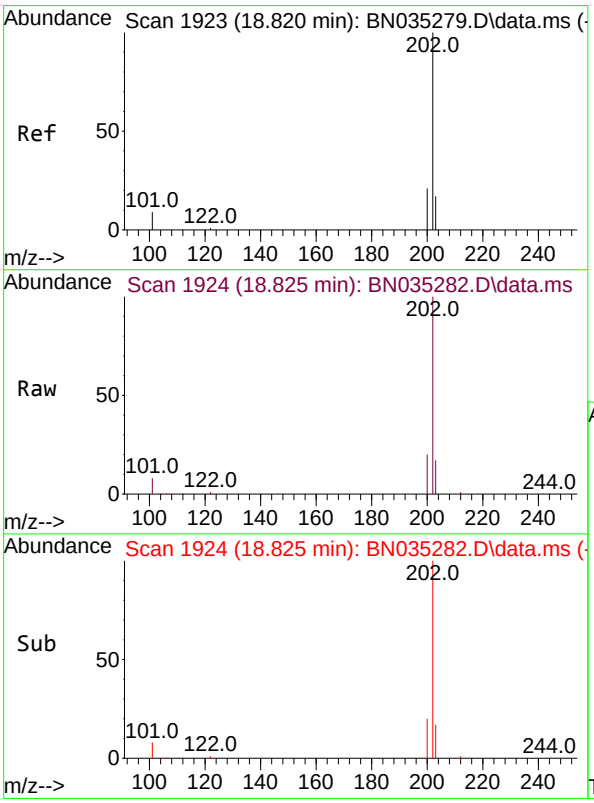
#27
Fluoranthene-d10
Concen: 3.195 ng
RT: 18.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 66182

Ion	Ratio	Lower	Upper
212	100		
106	11.9	9.8	14.8
104	7.0	5.6	8.4

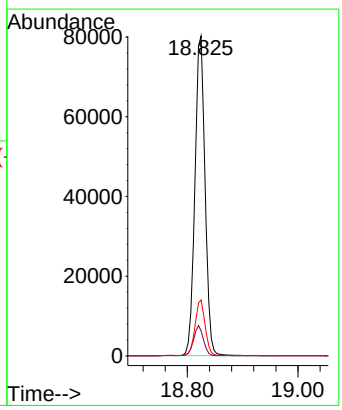


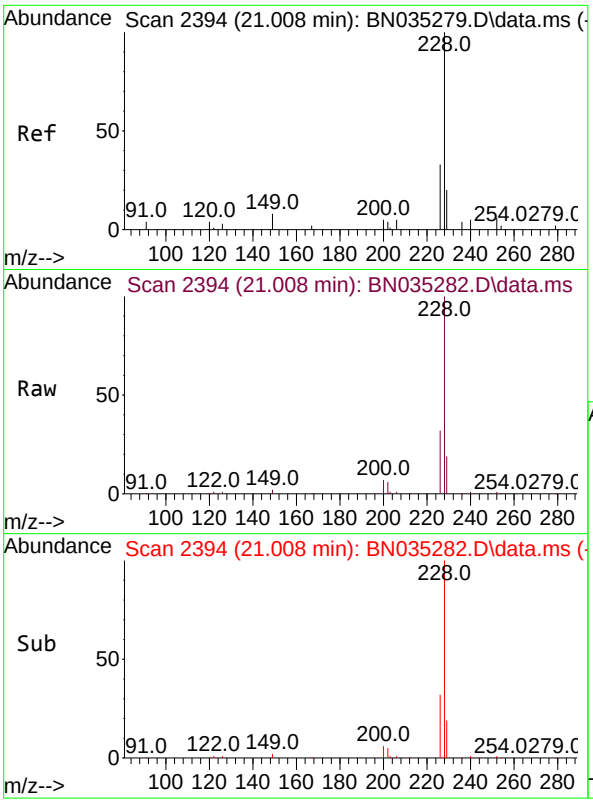


#28
Fluoranthene
Concen: 4.178 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.005 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:202 Resp: 102229

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.6	11.4
203	17.3	13.8	20.8



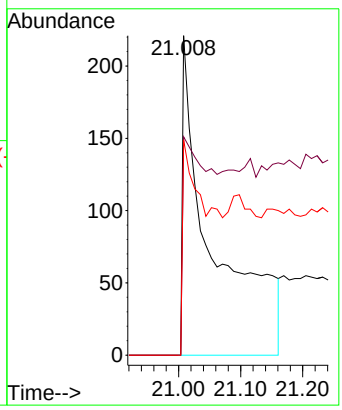


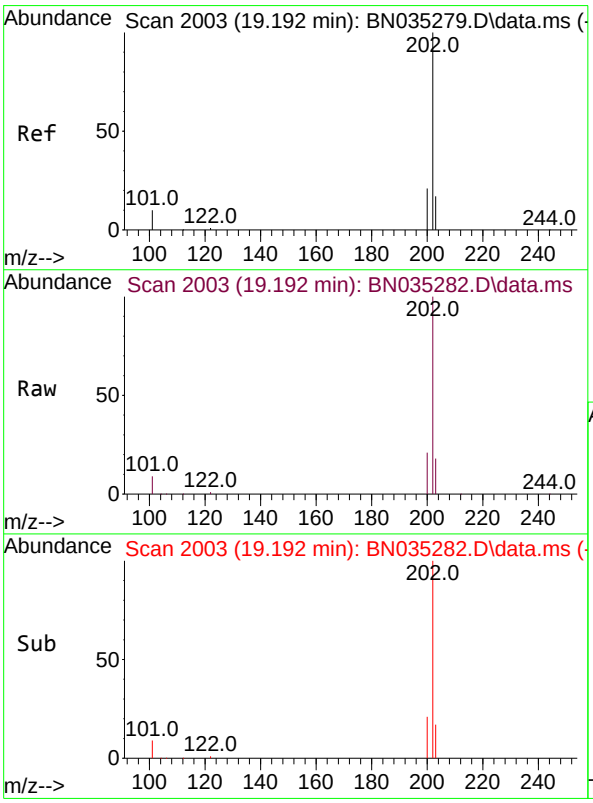
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 721

Ion	Ratio	Lower	Upper
240	100		
120	68.3	54.9	82.3
236	67.4	54.0	81.0

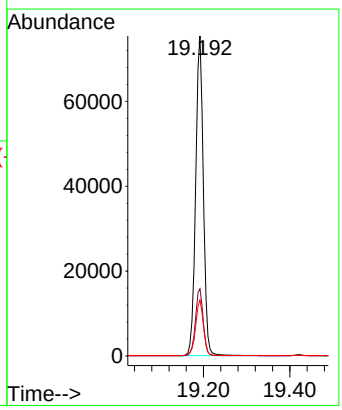


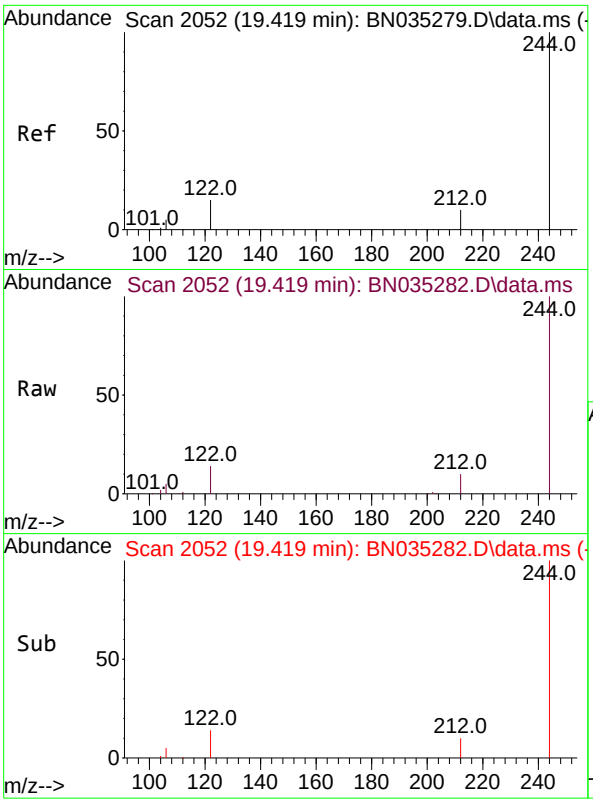


#30
Pyrene
Concen: 38.808 ng
RT: 19.192 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:202 Resp: 93180

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.7	14.4	21.6



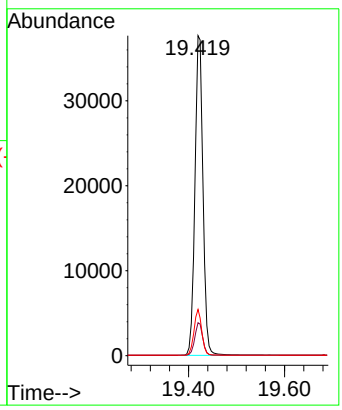


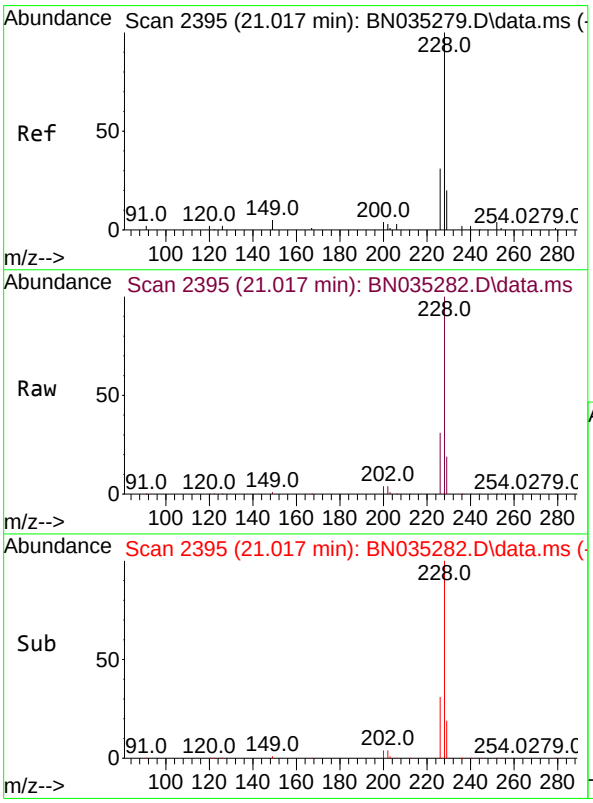
#31
Terphenyl-d14
Concen: 29.144 ng
RT: 19.419 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 44092

Ion	Ratio	Lower	Upper
244	100		
212	10.3	9.4	14.0
122	14.5	13.0	19.4

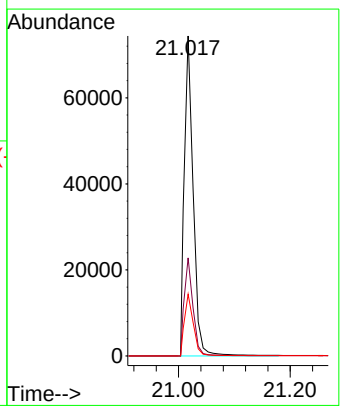


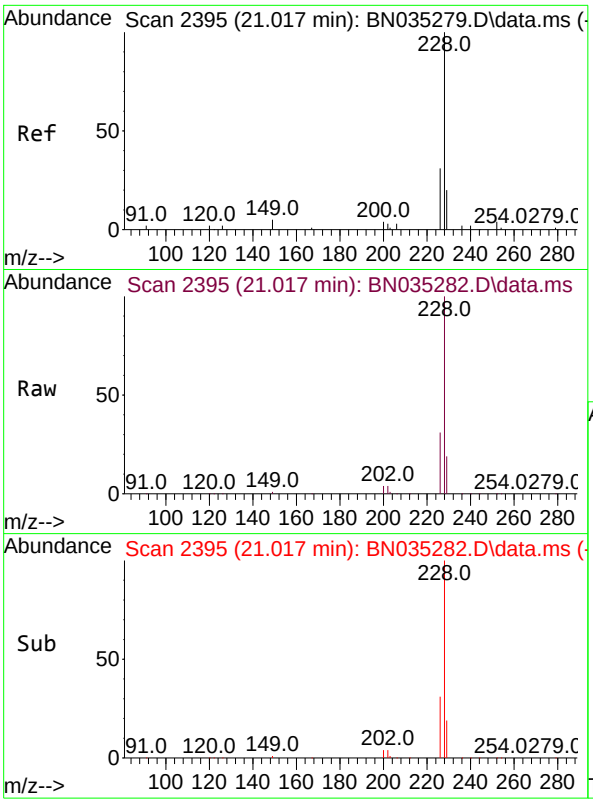


#32
Benzo(a)anthracene
Concen: 33.051 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:228 Resp: 82975

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	19.3	16.2	24.2



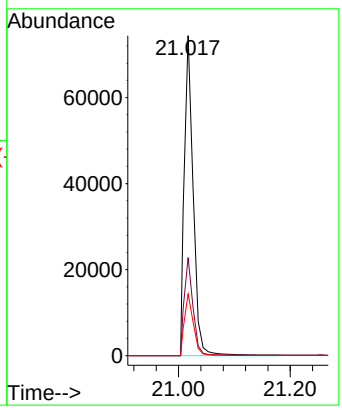


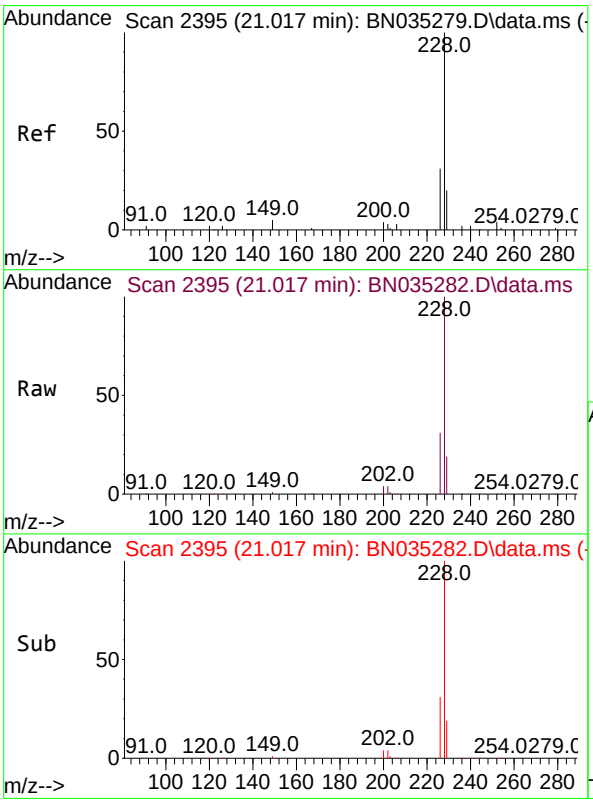
#33
Chrysene
Concen: 33.364 ng
RT: 21.017 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 82975

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	19.3	16.2	24.2

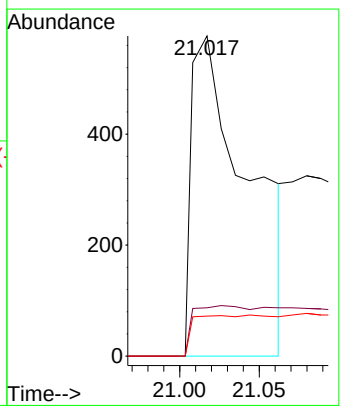


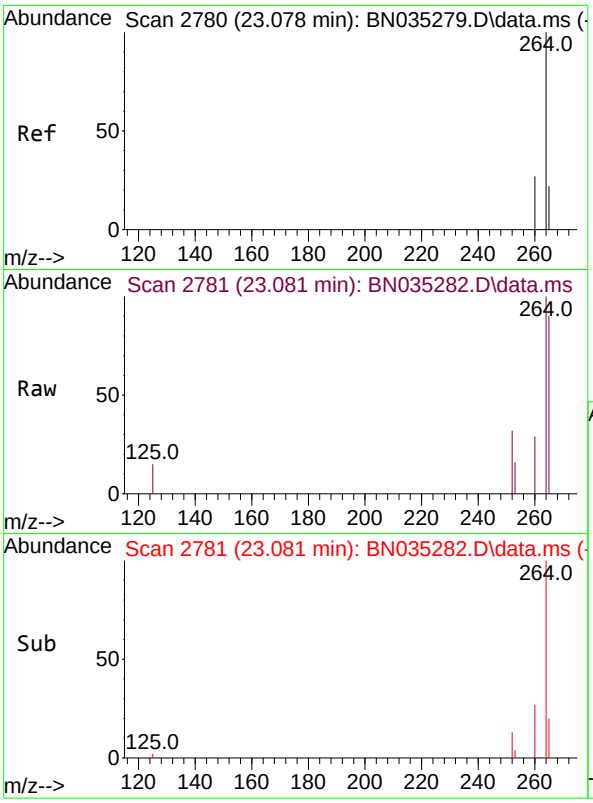


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.002 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:149 Resp: 1320

Ion	Ratio	Lower	Upper
149	100		
167	14.9	0.0	0.0#
279	9.5	13.0	19.6#



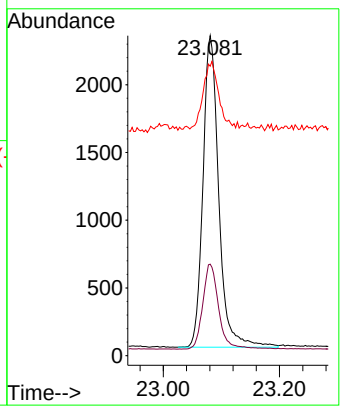


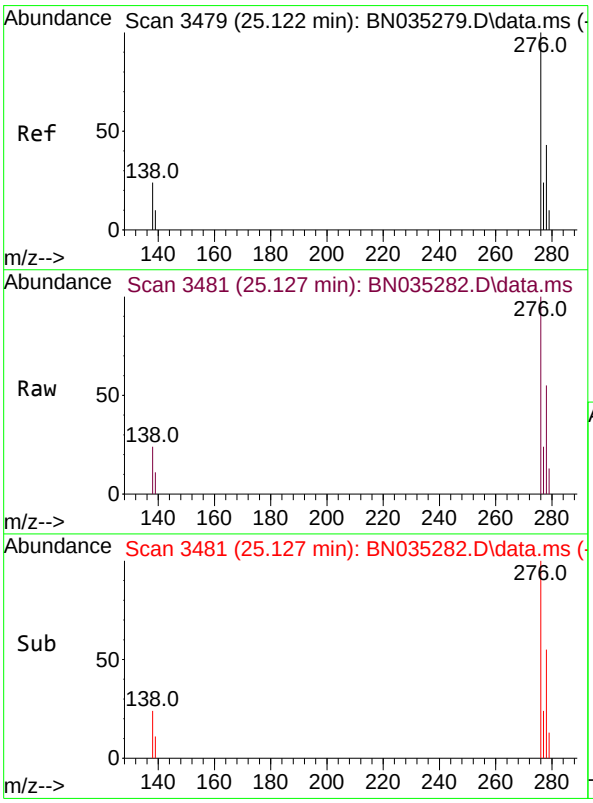
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 4343

Ion	Ratio	Lower	Upper
264	100		
260	28.6	22.3	33.5
265	90.4	68.6	103.0

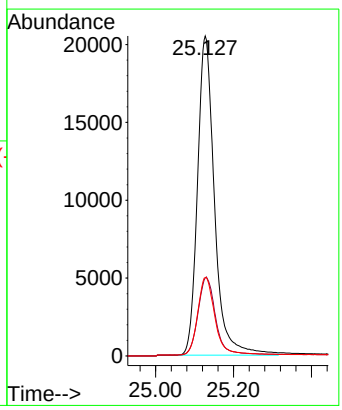


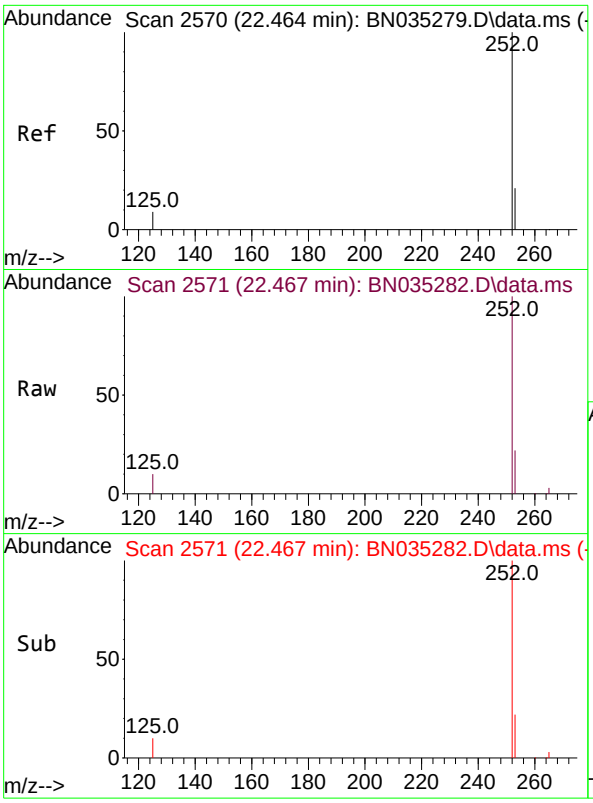


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.583 ng
RT: 25.127 min Scan# 3481
Delta R.T. 0.006 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:276 Resp: 62075

Ion	Ratio	Lower	Upper
276	100		
138	24.8	18.8	28.2
277	24.5	18.2	27.4



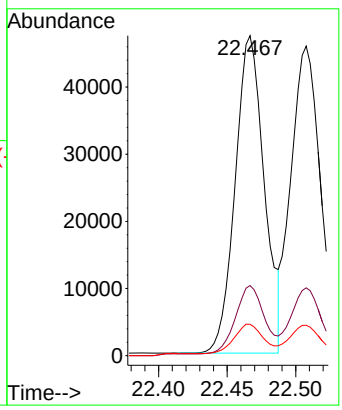


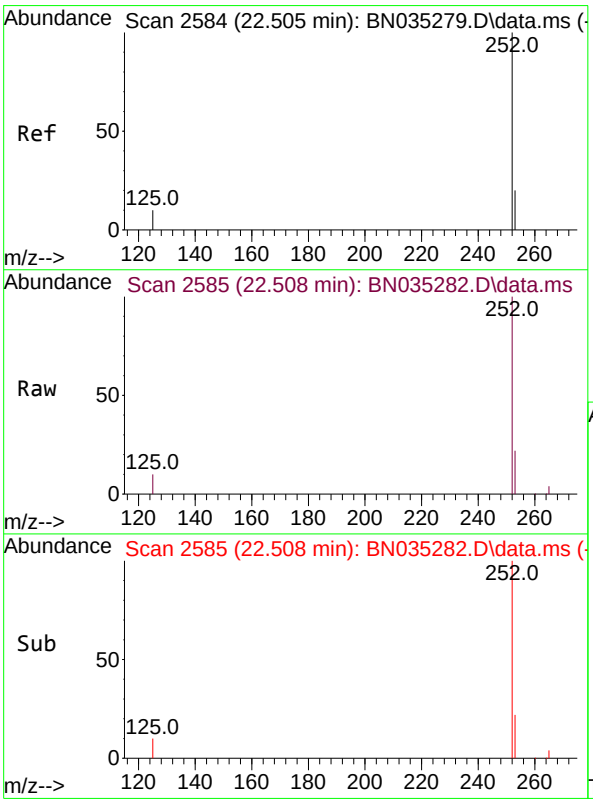
#37
Benzo(b)fluoranthene
Concen: 4.767 ng
RT: 22.467 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 69657

Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.2	30.2
125	9.8	12.0	18.0#

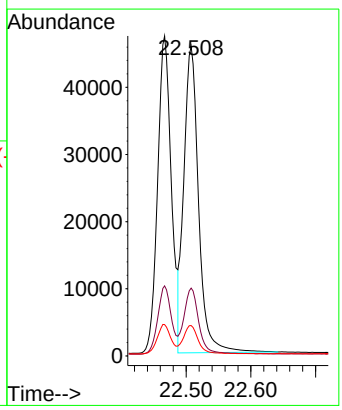


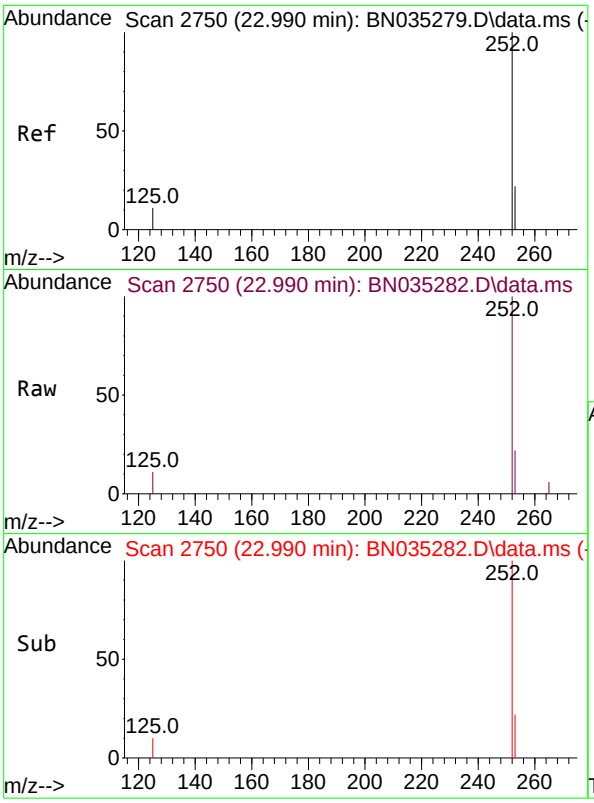


#38
Benzo(k)fluoranthene
Concen: 4.941 ng
RT: 22.508 min Scan# 2585
Delta R.T. 0.003 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:252 Resp: 72243

Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.1	30.1
125	9.8	12.7	19.1#



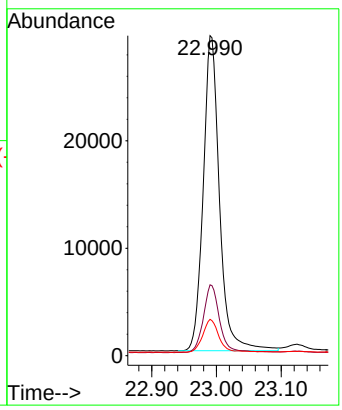


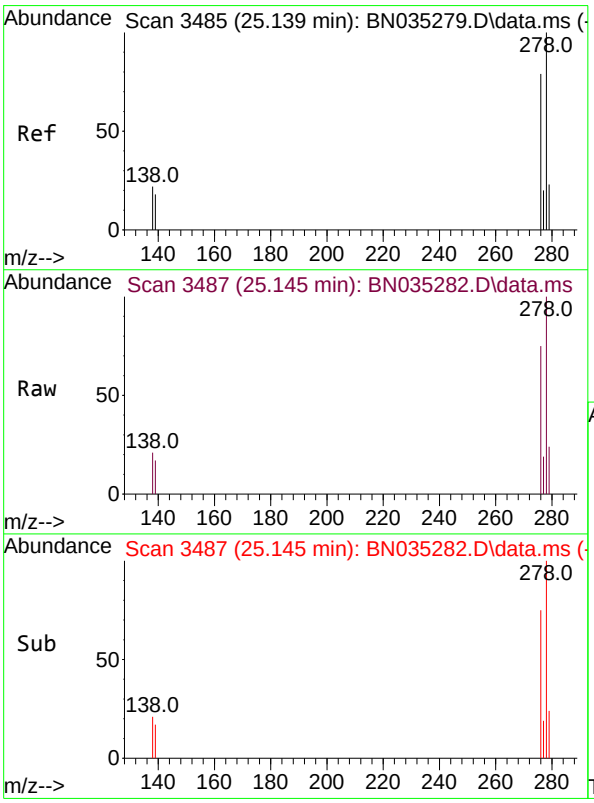
#39
Benzo(a)pyrene
Concen: 3.987 ng
RT: 22.990 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 51266

Ion	Ratio	Lower	Upper
252	100		
253	22.1	22.3	33.5#
125	11.3	15.3	22.9#

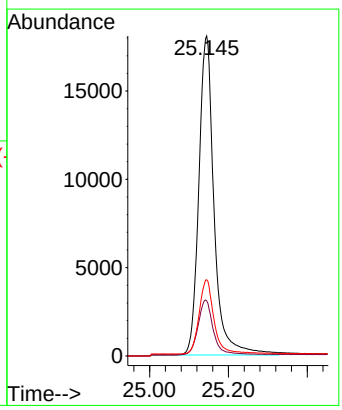


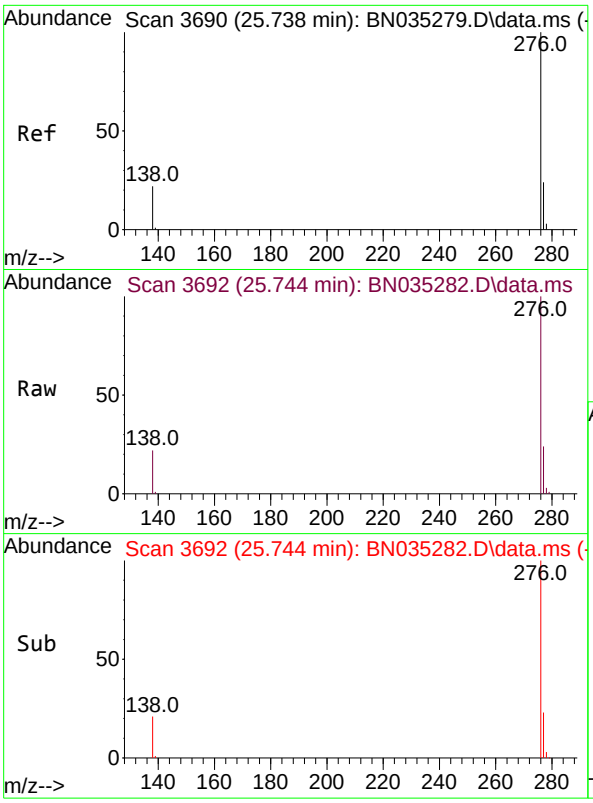


#40
Dibenzo(a,h)anthracene
Concen: 3.547 ng
RT: 25.145 min Scan# 3487
Delta R.T. 0.006 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:278 Resp: 48696

Ion	Ratio	Lower	Upper
278	100		
139	17.2	17.0	25.6
279	23.8	23.0	34.4



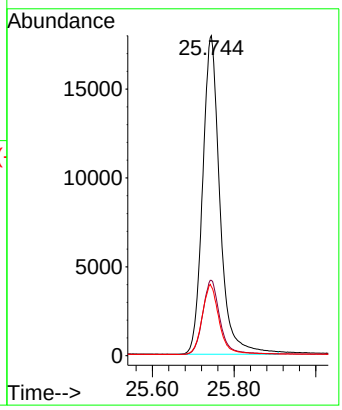


#41
Benzo(g,h,i)perylene
Concen: 3.610 ng
RT: 25.744 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 52706

Ion	Ratio	Lower	Upper
276	100		
277	23.6	21.1	31.7
138	21.6	19.8	29.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035283.D
Acq On : 25 Nov 2024 13:52
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 25 14:21:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration

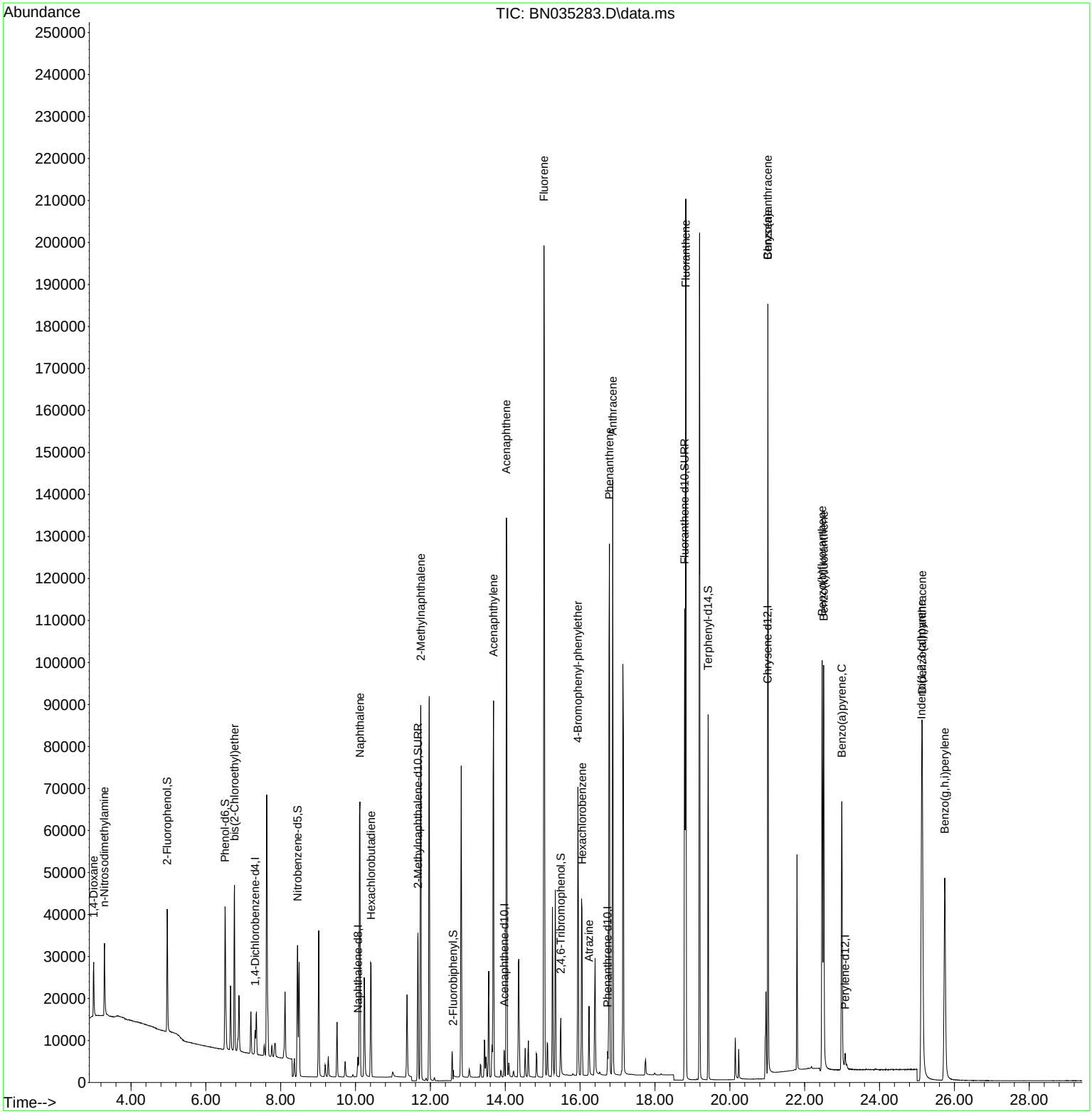
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.315	152	2617	0.400	ng		0.00
7) Naphthalene-d8	10.063	136	5861	0.400	ng		0.00
13) Acenaphthene-d10	13.976	164	3371	0.400	ng		0.00
19) Phenanthrene-d10	16.734	188	7456	0.400	ng		0.00
29) Chrysene-d12	21.008	240	600	0.400	ng		0.00
35) Perylene-d12	23.081	264	4243	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	23473	3.533	ng		0.00
5) Phenol-d6	6.513	99	31227	3.749	ng		0.00
8) Nitrobenzene-d5	8.450	82	25967	5.090	ng		0.00
11) 2-Methylnaphthalene-d10	11.667	152	45135	4.321	ng		0.00
14) 2,4,6-Tribromophenol	15.484	330	11465	4.715	ng		0.00
15) 2-Fluorobiphenyl	12.608	172	1400	0.102	ng		0.00
27) Fluoranthene-d10	18.792	212	118272	5.178	ng		0.00
31) Terphenyl-d14	19.419	244	77655	61.679	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	8723	3.670	ng	#	76
3) n-Nitrosodimethylamine	3.285	42	10016	4.521	ng	#	85
6) bis(2-Chloroethyl)ether	6.766	93	28430	4.547	ng		100
9) Naphthalene	10.116	128	86023	5.622	ng		98
10) Hexachlorobutadiene	10.415	225	23614	5.265	ng	#	100
12) 2-Methylnaphthalene	11.742	142	60715	5.378	ng		98
16) Acenaphthylene	13.688	152	96646	6.708	ng		100
17) Acenaphthene	14.030	154	62066	6.574	ng		92
18) Fluorene	15.035	166	87161	6.276	ng		99
21) 4-Bromophenyl-phenylether	15.939	248	27951	5.884	ng		91
22) Hexachlorobenzene	16.051	284	36728	7.450	ng		99
23) Atrazine	16.237	200	12358	2.900	ng	#	92
25) Phenanthrene	16.784	178	134973	6.879	ng		99
26) Anthracene	16.870	178	127410	7.069	ng		100
28) Fluoranthene	18.825	202	177741	6.587	ng		100
32) Benzo(a)anthracene	21.017	228	128544	61.527	ng		99
33) Chrysene	21.017	228	128544	62.111	ng		99
36) Indeno(1,2,3-cd)pyrene	25.124	276	108670	6.420	ng		96
37) Benzo(b)fluoranthene	22.467	252	109463	7.668	ng	#	91
38) Benzo(k)fluoranthene	22.508	252	114816	8.038	ng	#	90
39) Benzo(a)pyrene	22.993	252	84108	6.696	ng	#	86
40) Dibenzo(a,h)anthracene	25.142	278	85497	6.375	ng		91
41) Benzo(g,h,i)perylene	25.741	276	92138	6.459	ng		95

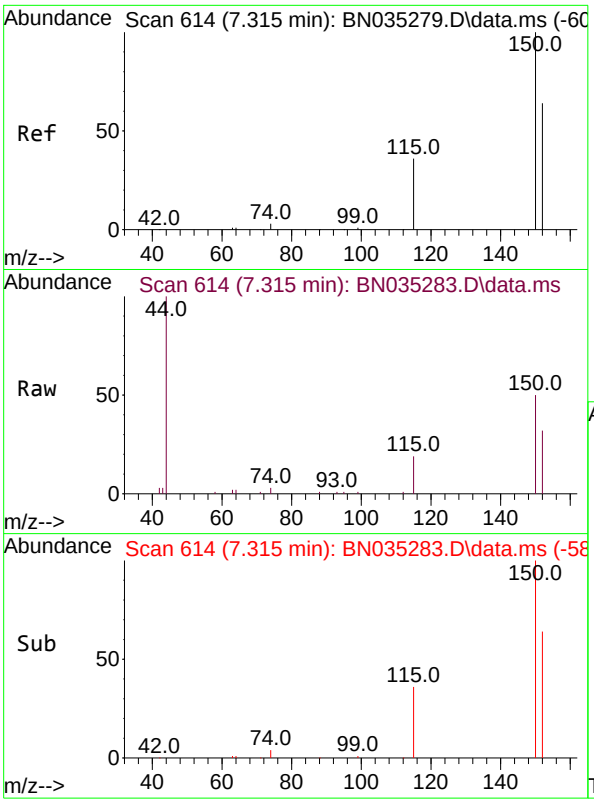
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035283.D
Acq On : 25 Nov 2024 13:52
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 25 14:21:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration



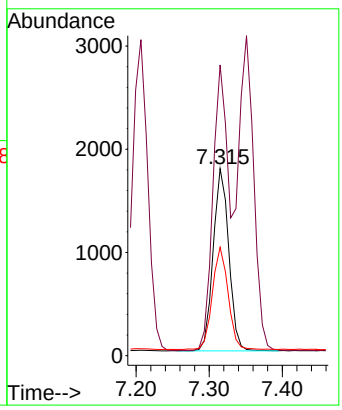


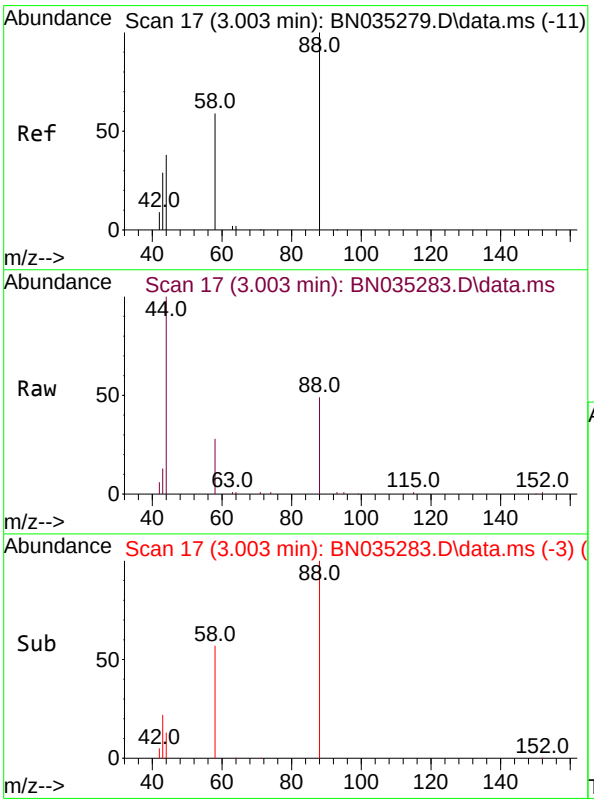
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 2617

Ion	Ratio	Lower	Upper
152	100		
150	155.4	124.5	186.7
115	57.9	47.8	71.8

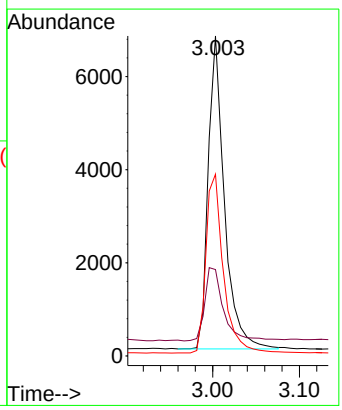


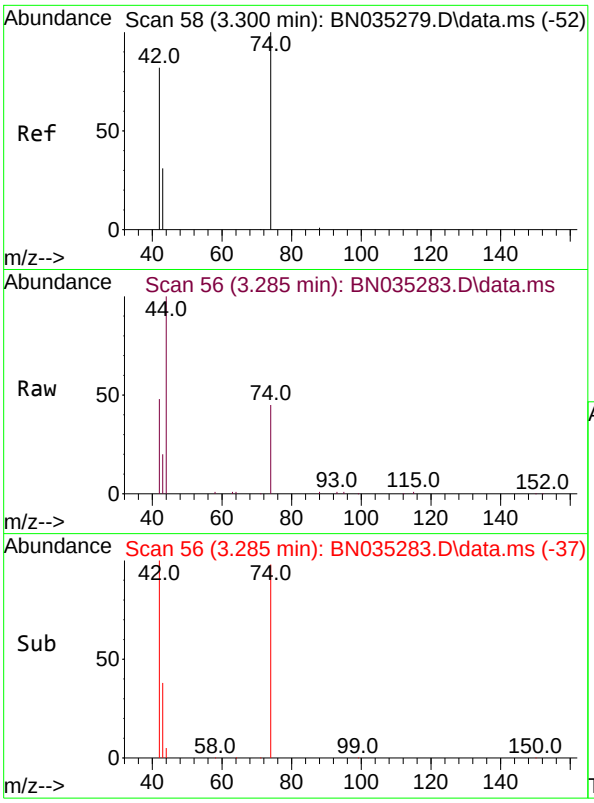


#2
1,4-Dioxane
Concen: 3.670 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion: 88 Resp: 8723

Ion	Ratio	Lower	Upper
88	100		
43	27.1	48.1	72.1#
58	61.7	46.9	70.3



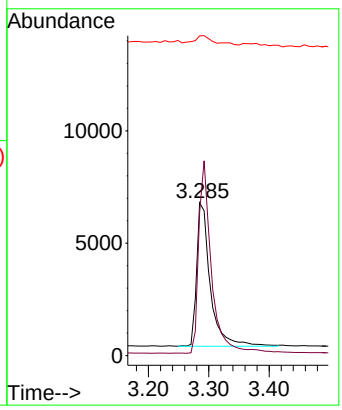


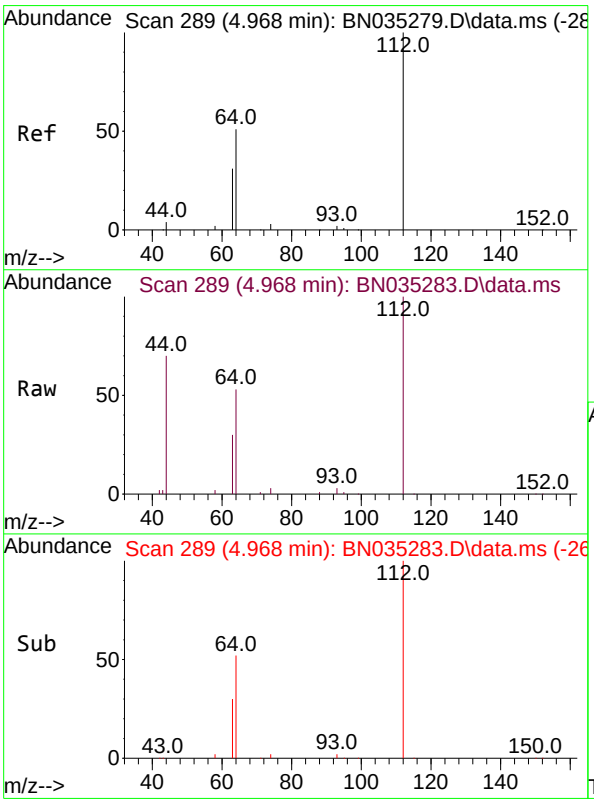
#3
n-Nitrosodimethylamine
Concen: 4.521 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.015 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 10016

Ion	Ratio	Lower	Upper
42	100		
74	126.0	102.7	154.1
44	8.4	34.1	51.1#

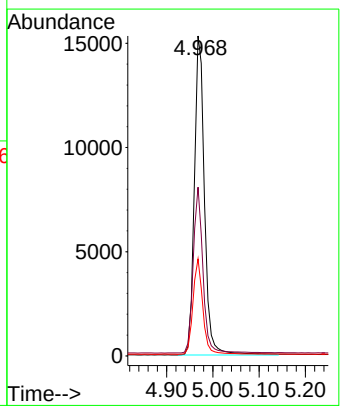


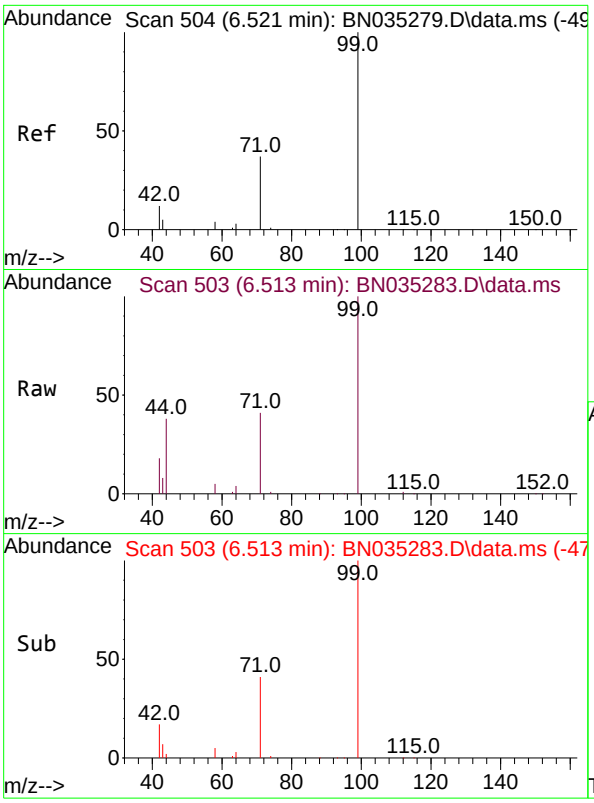


#4
2-Fluorophenol
Concen: 3.533 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:112 Resp: 23473

Ion	Ratio	Lower	Upper
112	100		
64	50.0	40.4	60.6
63	29.1	23.8	35.8



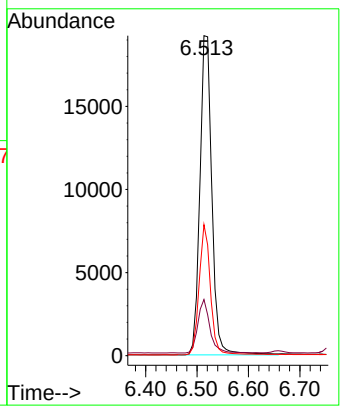


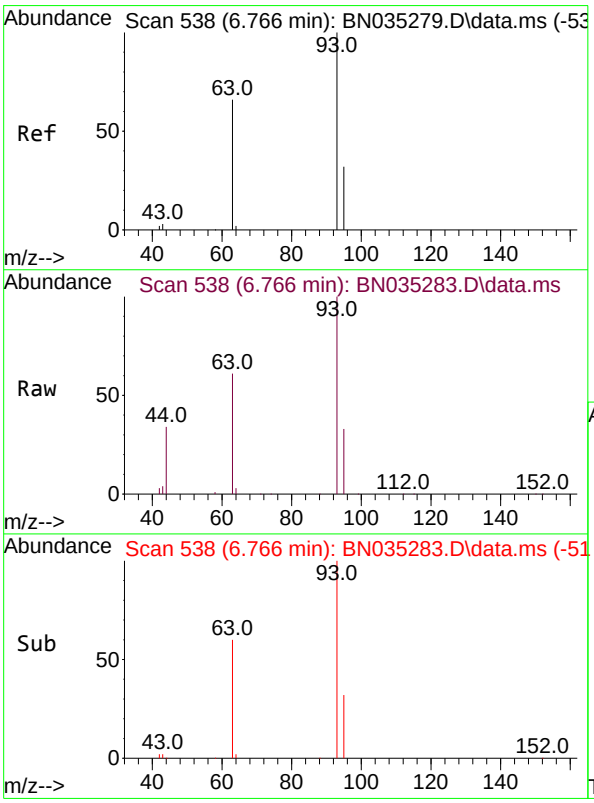
#5
Phenol-d6
Concen: 3.749 ng
RT: 6.513 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 31227

Ion	Ratio	Lower	Upper
99	100		
42	16.8	12.8	19.2
71	38.6	31.4	47.2

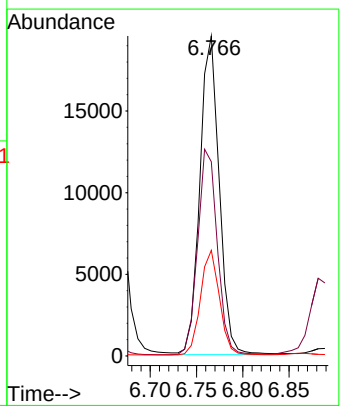


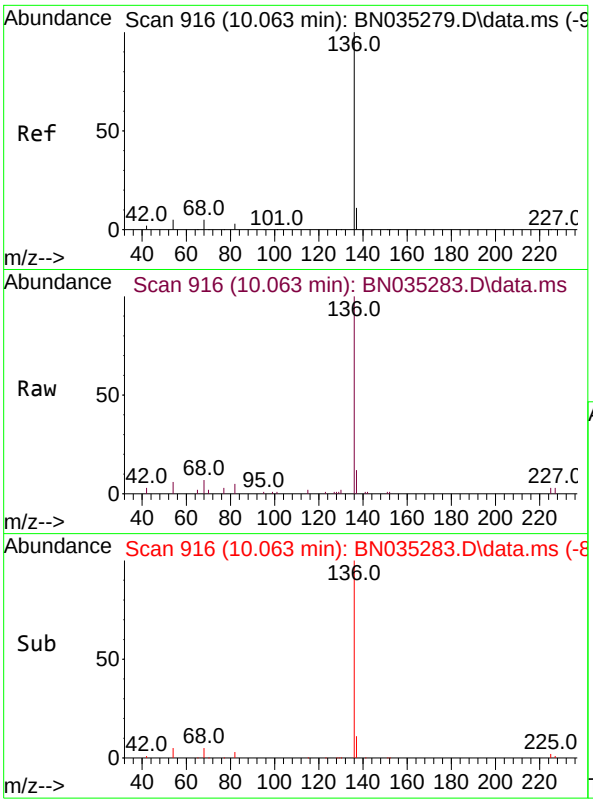


#6
bis(2-Chloroethyl)ether
Concen: 4.547 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion: 93 Resp: 28430

Ion	Ratio	Lower	Upper
93	100		
63	65.4	52.3	78.5
95	32.2	25.5	38.3



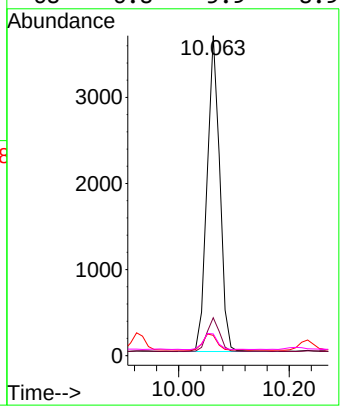


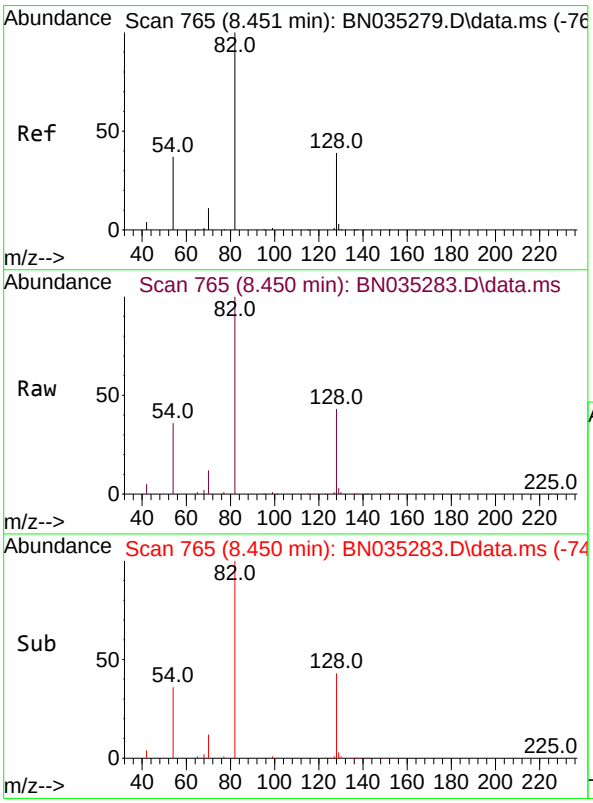
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 5861

Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.7	14.5
54	6.3	5.3	7.9
68	6.8	5.9	8.9

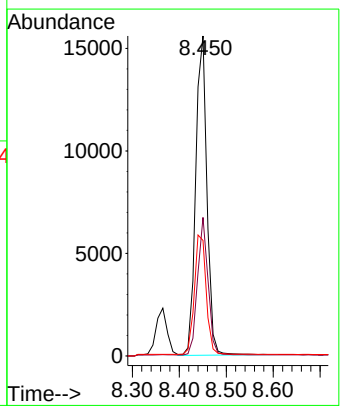


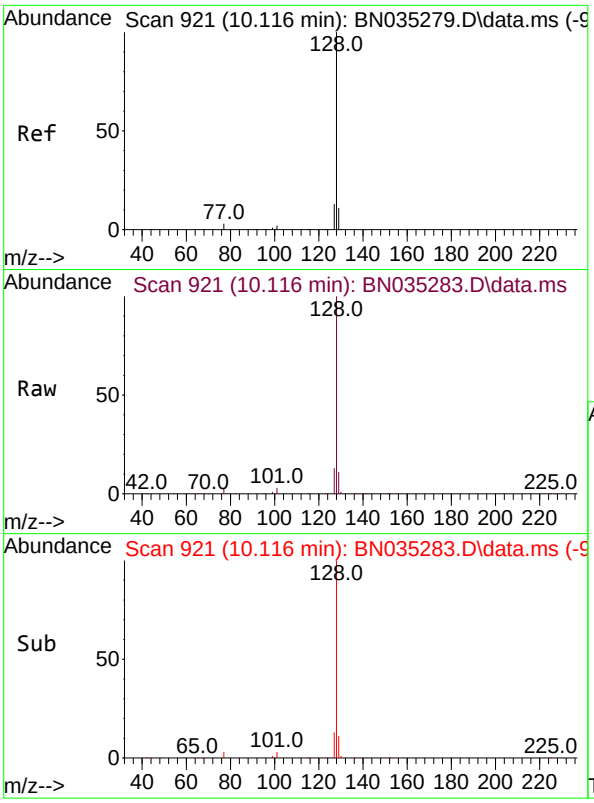


#8
Nitrobenzene-d5
Concen: 5.090 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion: 82 Resp: 25967

Ion	Ratio	Lower	Upper
82	100		
128	43.3	33.0	49.4
54	36.1	33.3	49.9



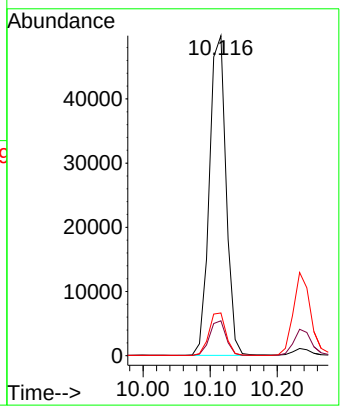


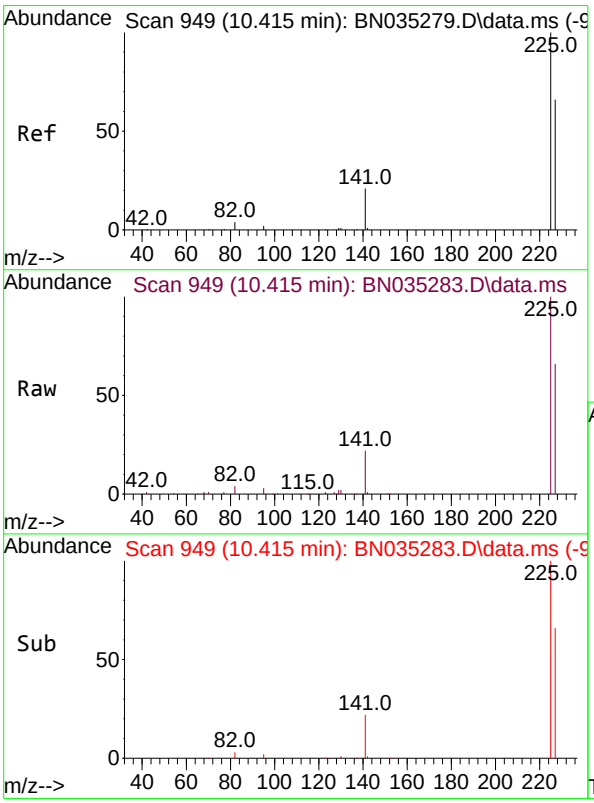
#9
Naphthalene
Concen: 5.622 ng
RT: 10.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 86023

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.6	14.4
127	13.4	11.3	16.9

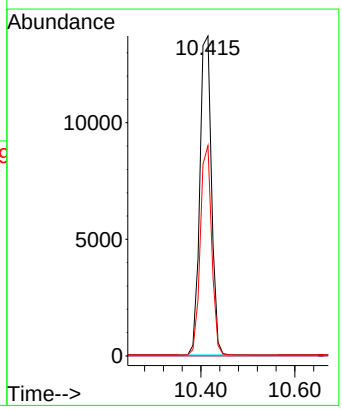


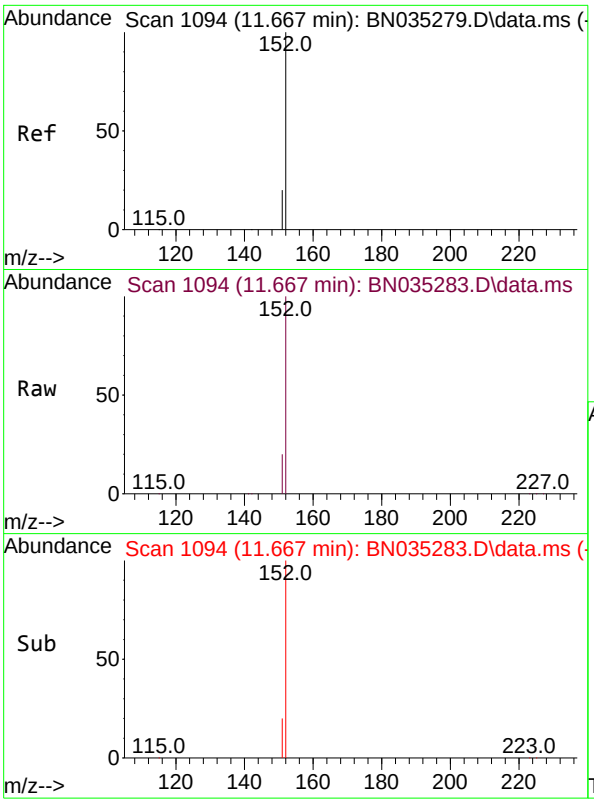


#10
Hexachlorobutadiene
Concen: 5.265 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:225 Resp: 23614

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.3	76.9



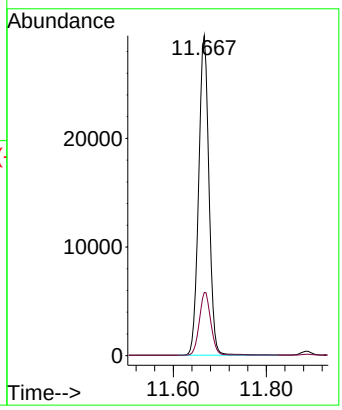


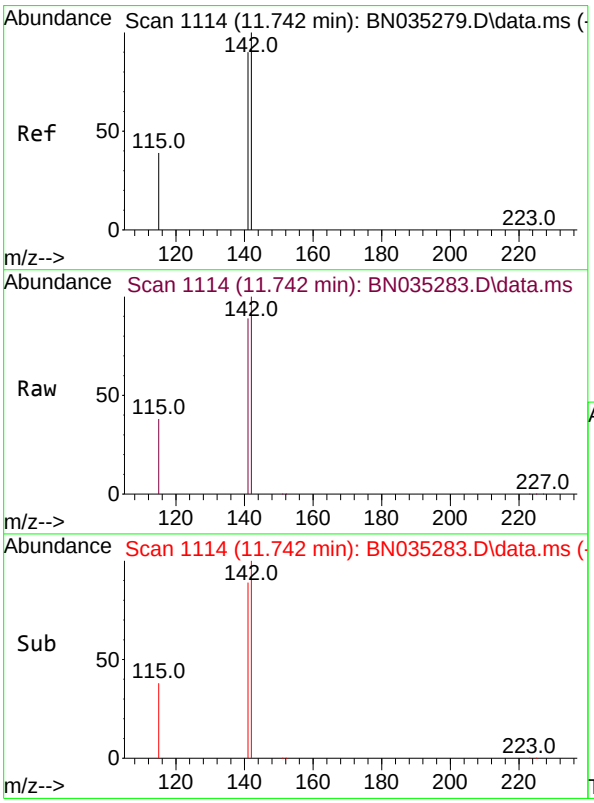
#11
2-Methylnaphthalene-d10
Concen: 4.321 ng
RT: 11.667 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 45135

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.2	25.8

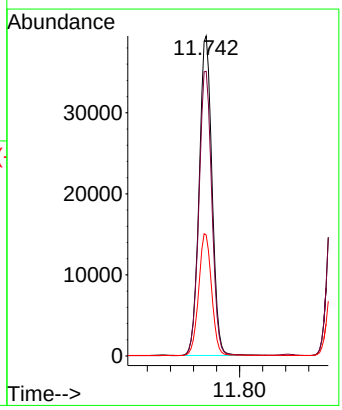


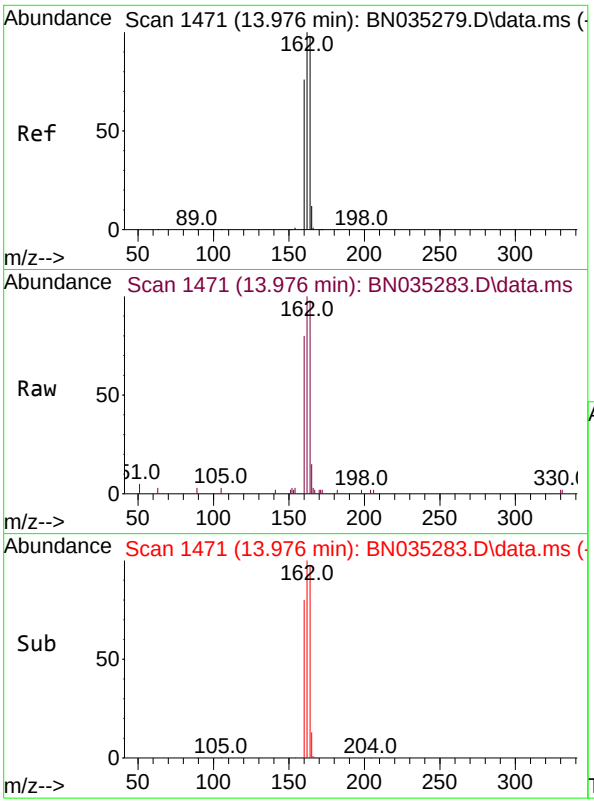


#12
2-Methylnaphthalene
Concen: 5.378 ng
RT: 11.742 min Scan# 1114
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:142 Resp: 60715

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.8	107.8
115	37.8	32.6	49.0



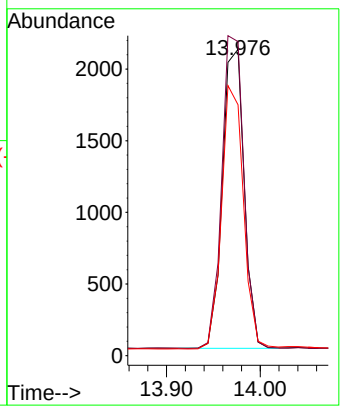


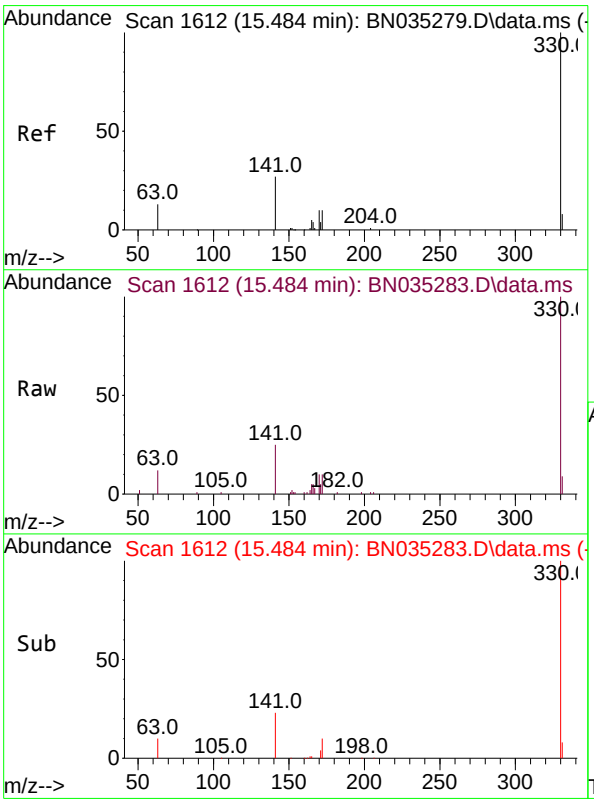
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 3371

Ion	Ratio	Lower	Upper
164	100		
162	102.5	82.0	123.0
160	81.9	63.0	94.4

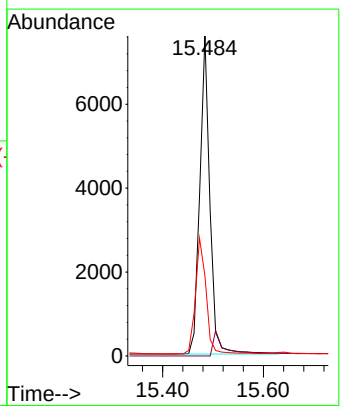


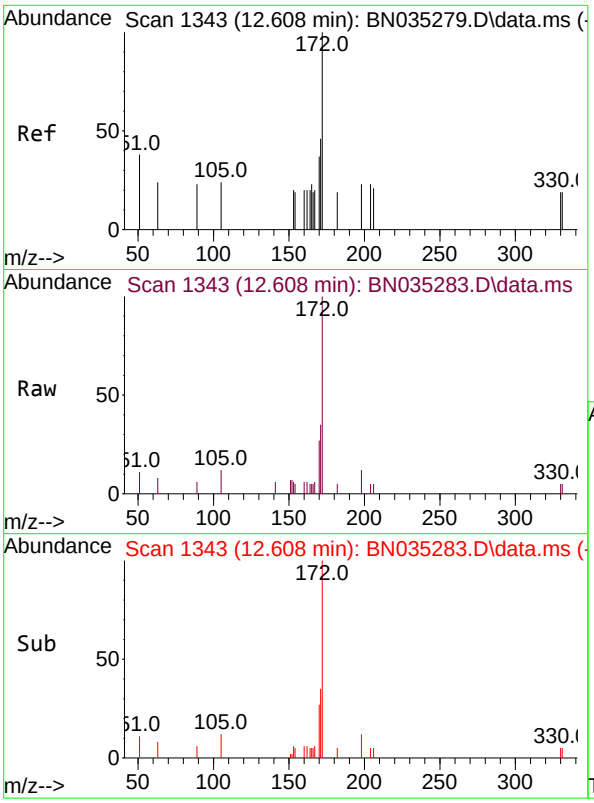


#14
2,4,6-Tribromophenol
Concen: 4.715 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:330 Resp: 11465

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.3	32.4	48.6



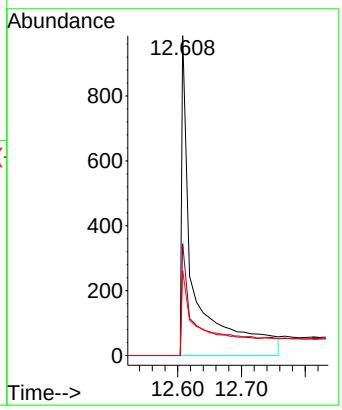


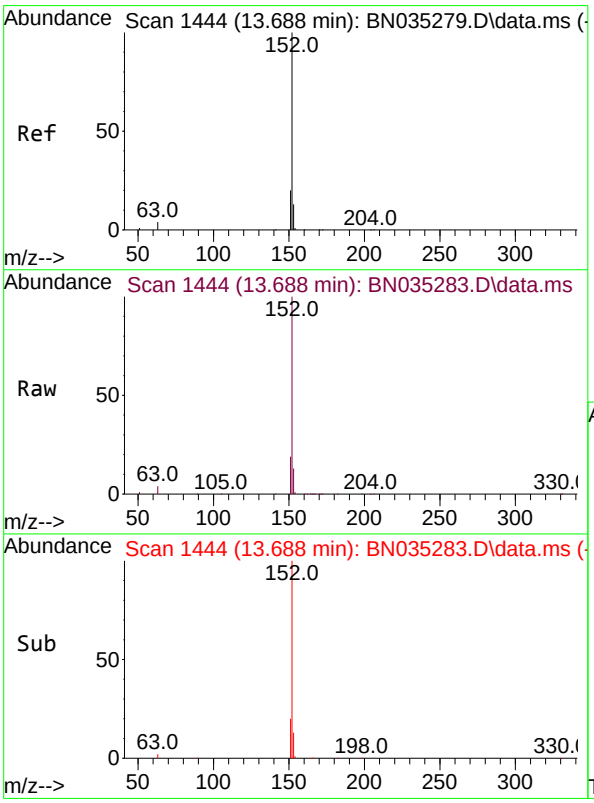
#15
2-Fluorobiphenyl
Concen: 0.102 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 1400

Ion	Ratio	Lower	Upper
172	100		
171	35.0	36.6	55.0#
170	26.6	29.7	44.5#

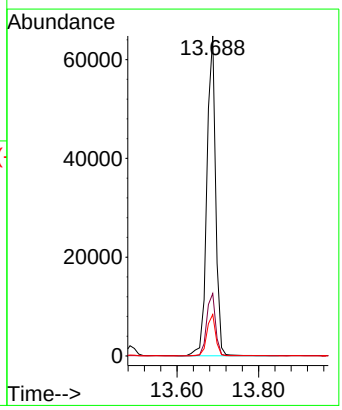


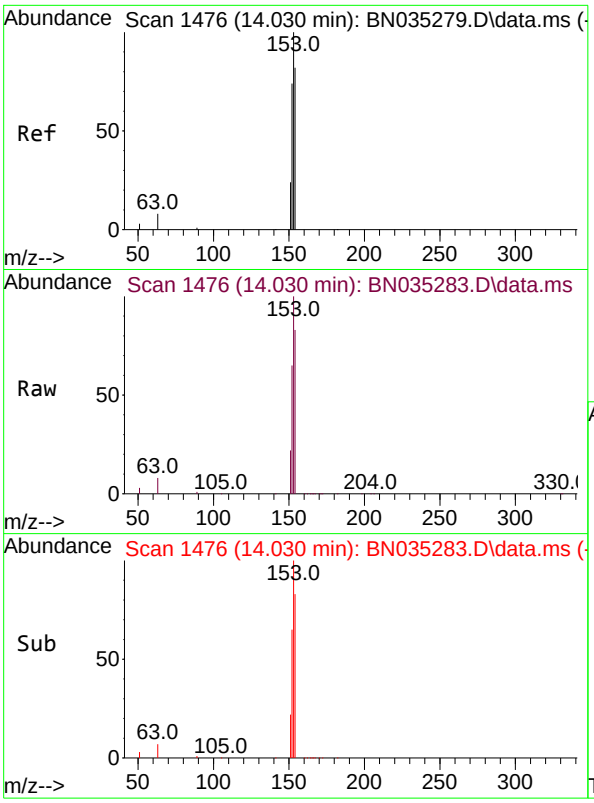


#16
Acenaphthylene
Concen: 6.708 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:152 Resp: 96646

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.9	23.9
153	12.9	10.2	15.4



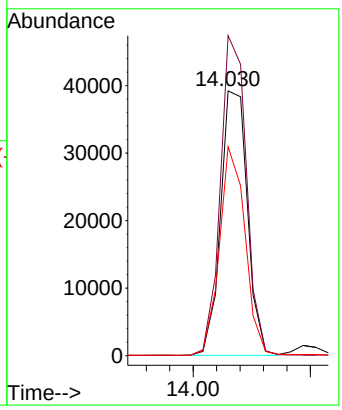


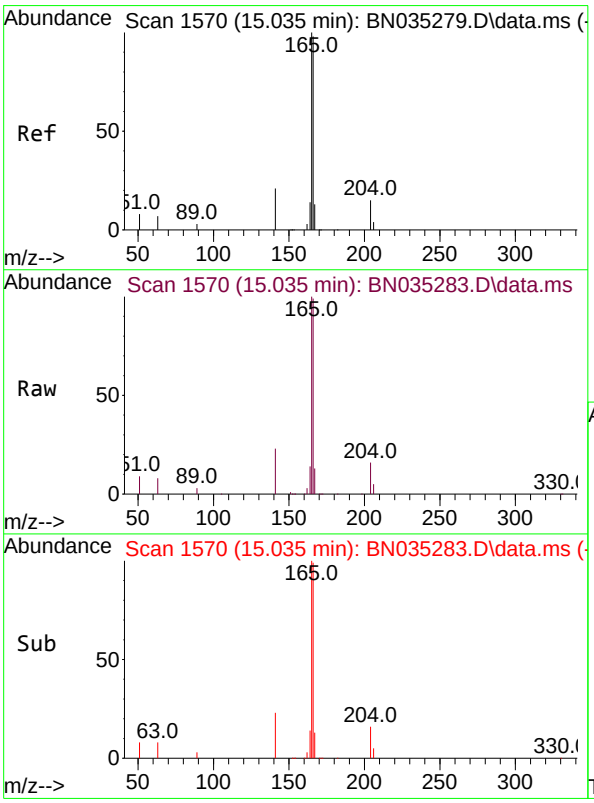
#17
Acenaphthene
Concen: 6.574 ng
RT: 14.030 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 62066

Ion	Ratio	Lower	Upper
154	100		
153	117.7	96.1	144.1
152	76.1	72.2	108.2

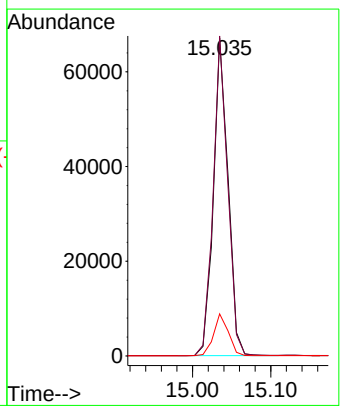


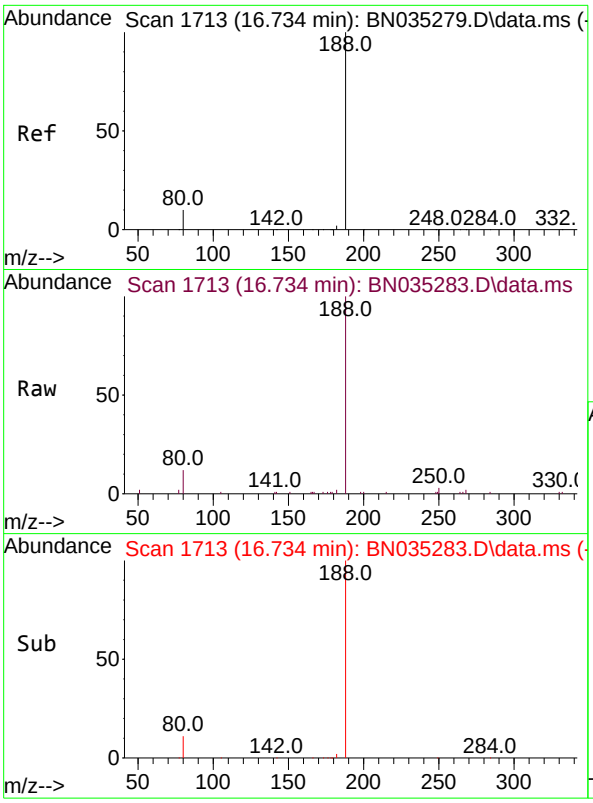


#18
Fluorene
Concen: 6.276 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:166 Resp: 87161

Ion	Ratio	Lower	Upper
166	100		
165	100.1	81.2	121.8
167	13.3	10.5	15.7



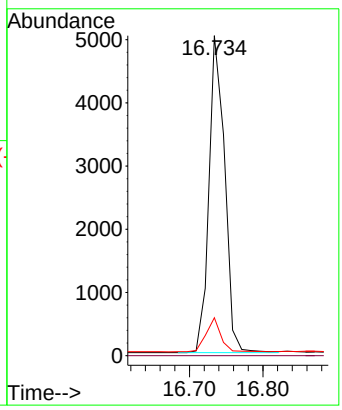


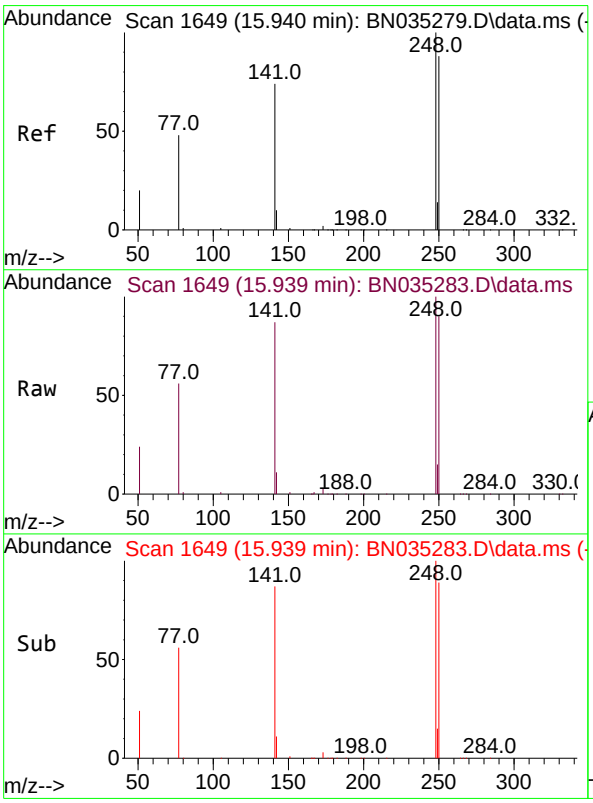
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 7456

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.9	13.3

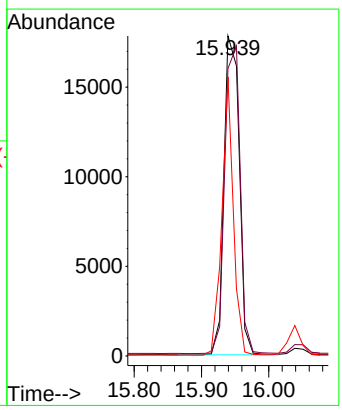


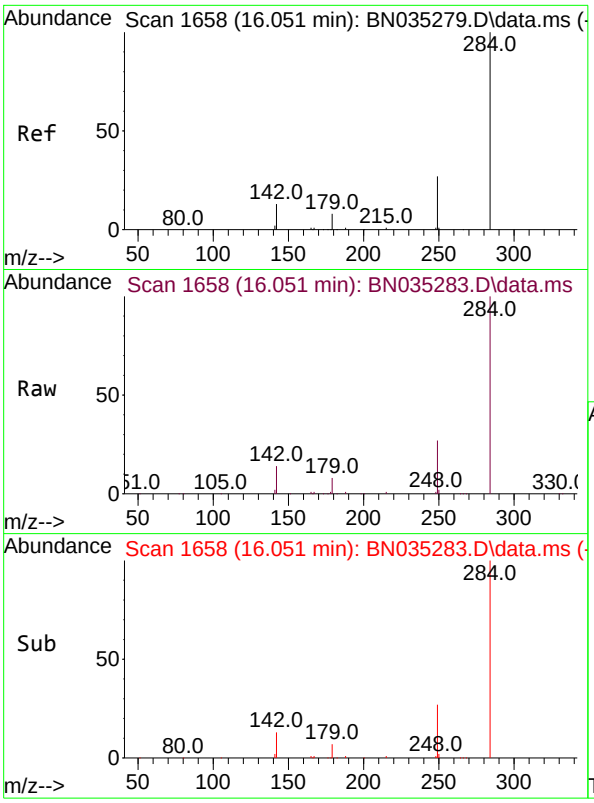


#21
4-Bromophenyl-phenylether
Concen: 5.884 ng
RT: 15.939 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:248 Resp: 27951

Ion	Ratio	Lower	Upper
248	100		
250	89.8	74.8	112.2
141	87.2	59.0	88.4



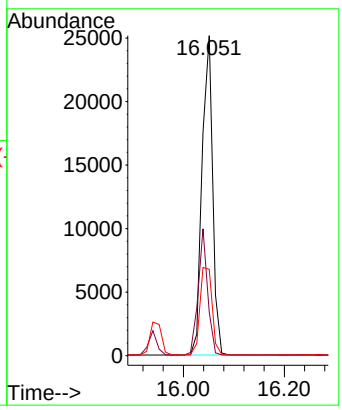


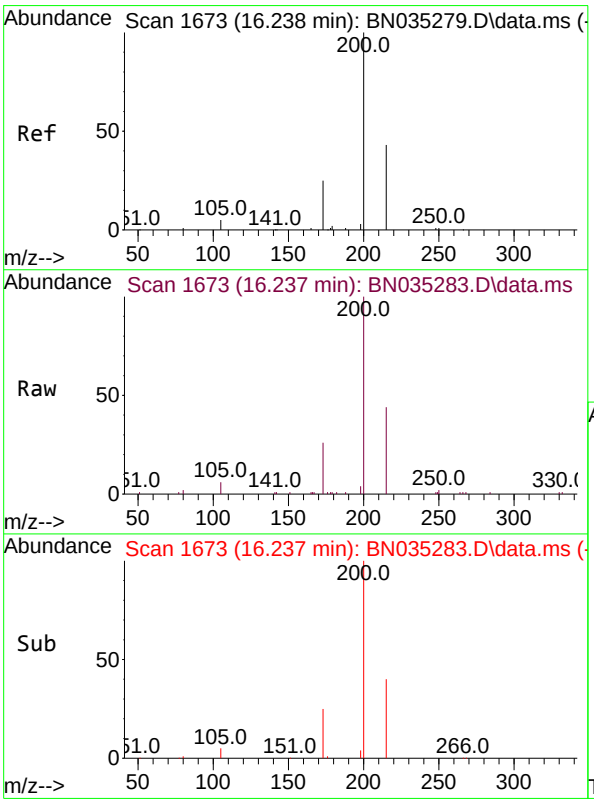
#22
Hexachlorobenzene
Concen: 7.450 ng
RT: 16.051 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:284 Resp: 36728

Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.7	43.1
249	31.4	25.4	38.0

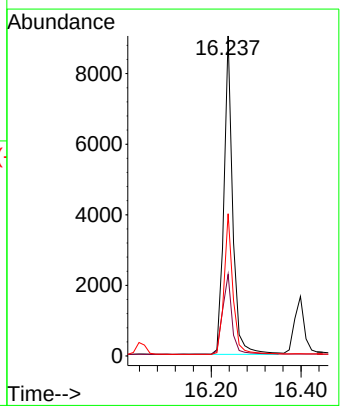


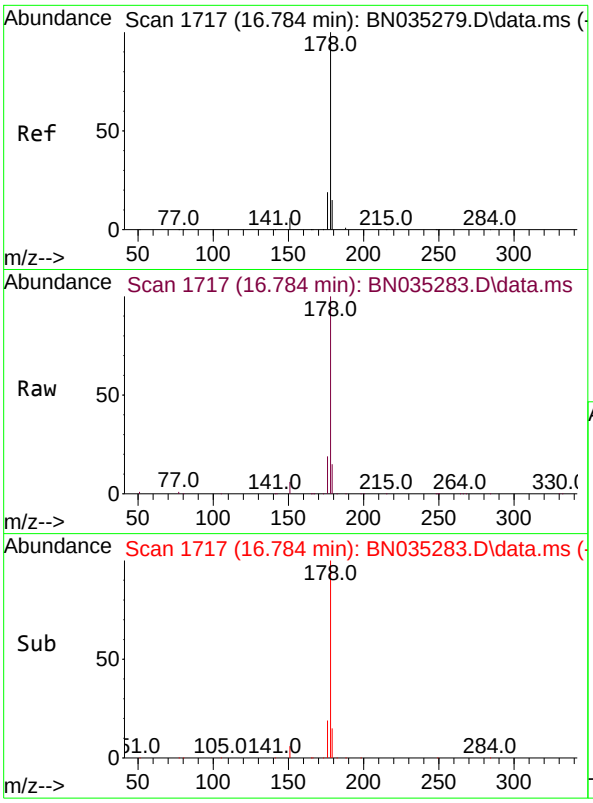


#23
Atrazine
Concen: 2.900 ng
RT: 16.237 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:200 Resp: 12358

Ion	Ratio	Lower	Upper
200	100		
173	25.5	25.8	38.8#
215	44.4	38.6	58.0



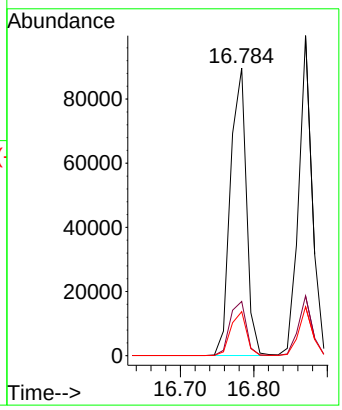


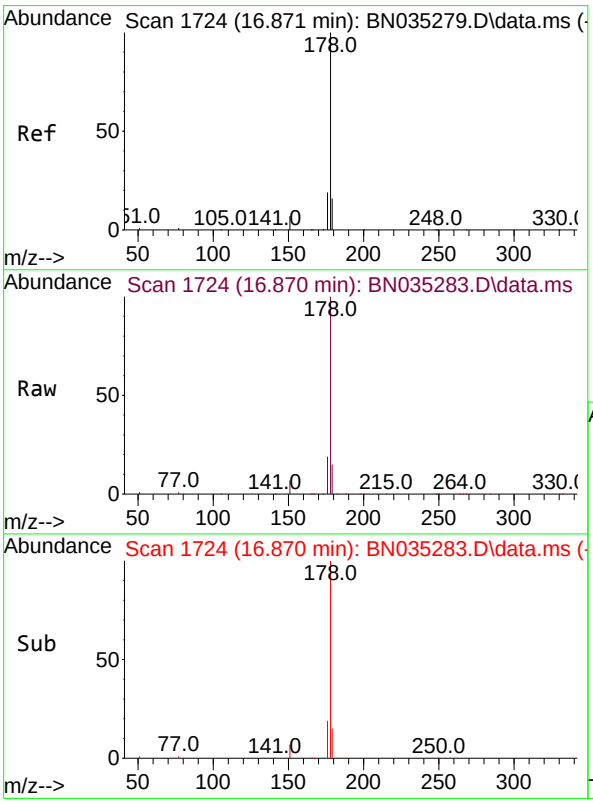
#25
Phenanthrene
Concen: 6.879 ng
RT: 16.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 134973

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.0
179	15.1	12.6	18.8

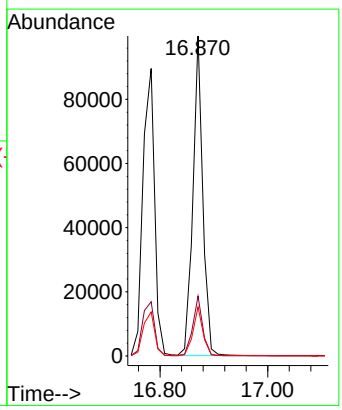


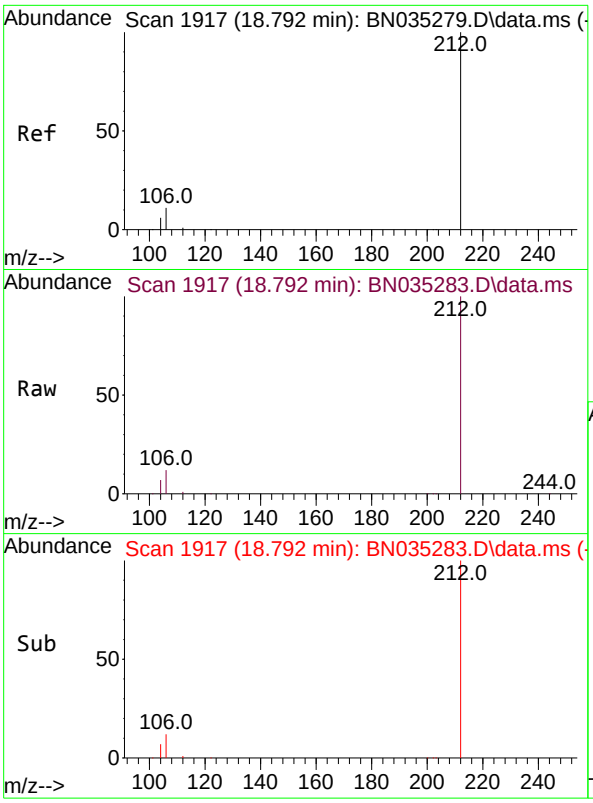


#26
Anthracene
Concen: 7.069 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:178 Resp: 127410

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.3	12.4	18.6



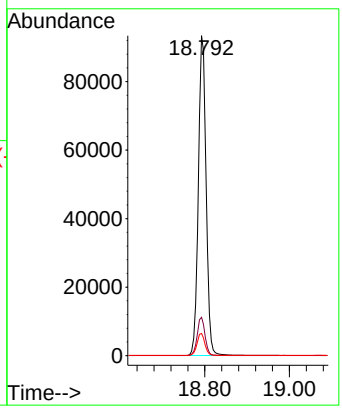


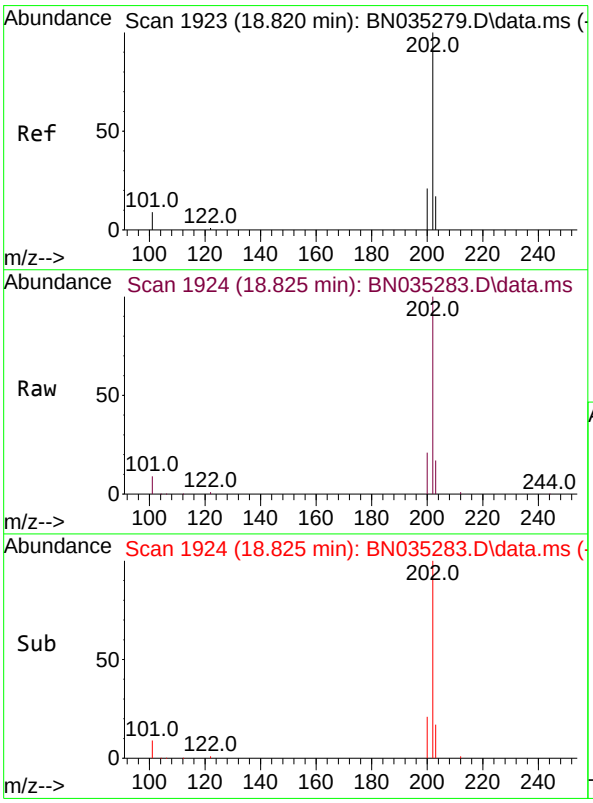
#27
Fluoranthene-d10
Concen: 5.178 ng
RT: 18.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 118272

Ion	Ratio	Lower	Upper
212	100		
106	12.0	9.8	14.8
104	7.0	5.6	8.4

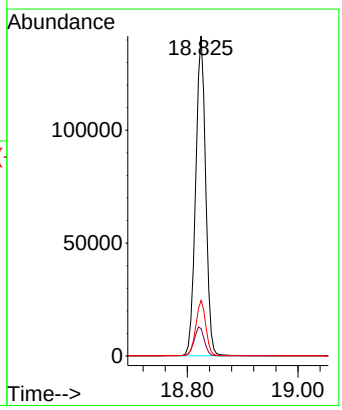


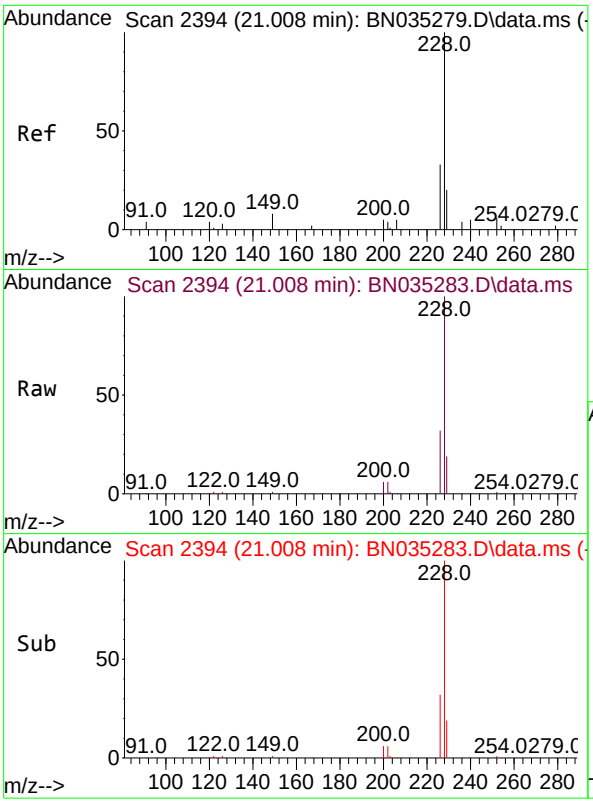


#28
Fluoranthene
Concen: 6.587 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.005 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:202 Resp: 177741

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.6	11.4
203	17.3	13.8	20.8



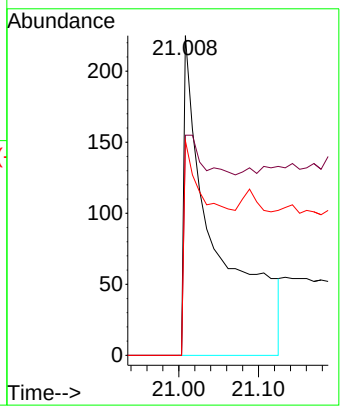


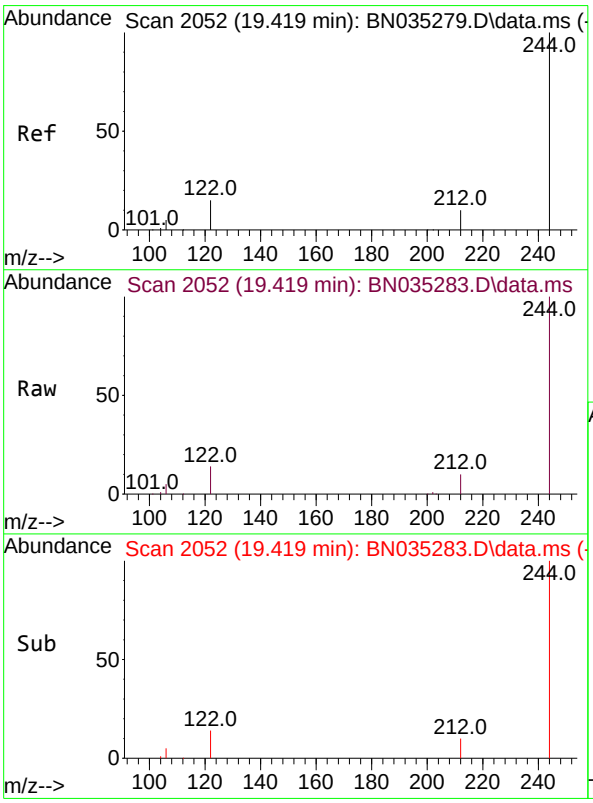
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 600

Ion	Ratio	Lower	Upper
240	100		
120	68.9	54.9	82.3
236	67.1	54.0	81.0

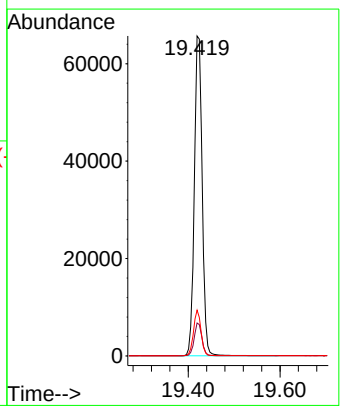


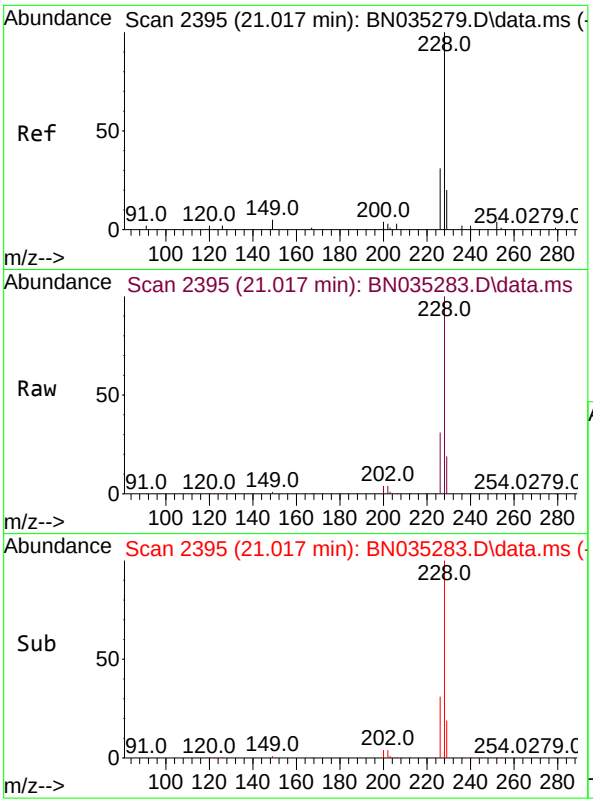


#31
Terphenyl-d14
Concen: 61.679 ng
RT: 19.419 min Scan# 2052
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:244 Resp: 77655

Ion	Ratio	Lower	Upper
244	100		
212	10.3	9.4	14.0
122	14.3	13.0	19.4



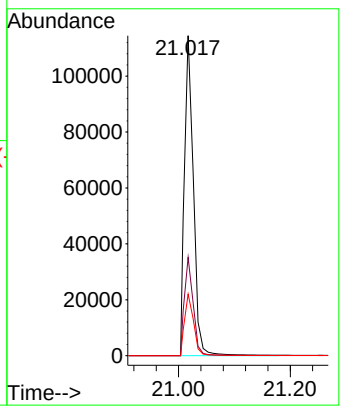


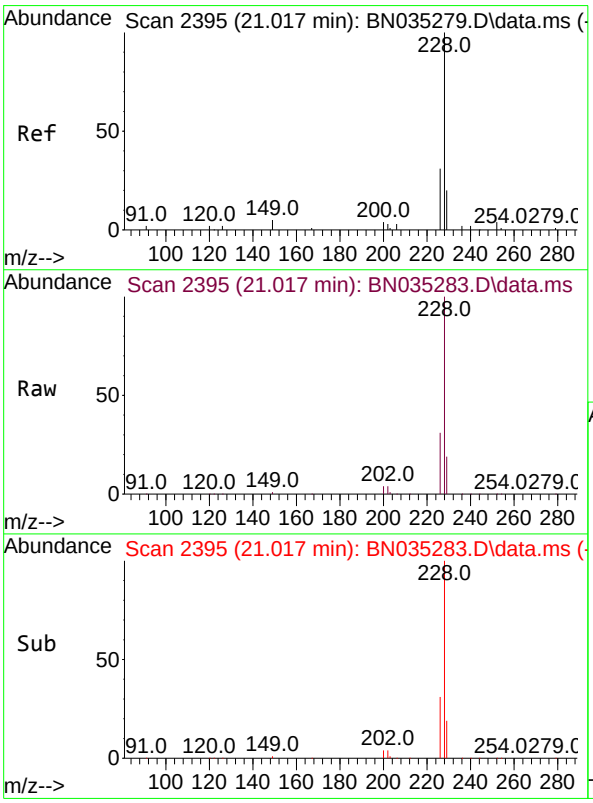
#32
Benzo(a)anthracene
Concen: 61.527 ng
RT: 21.017 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 128544

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	19.2	16.2	24.2

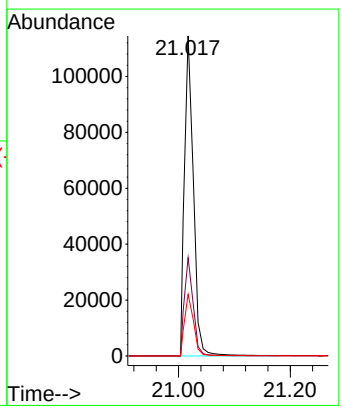


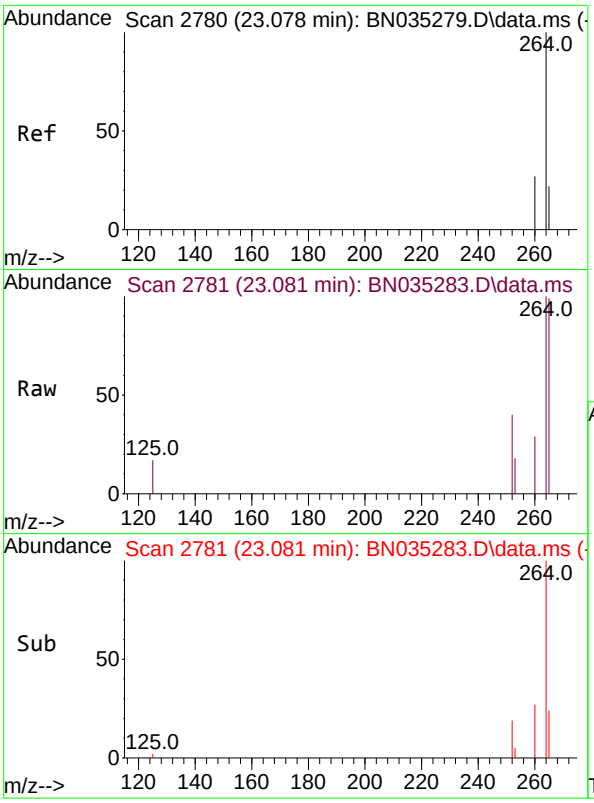


#33
Chrysene
Concen: 62.111 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:228 Resp: 128544

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	19.2	16.2	24.2



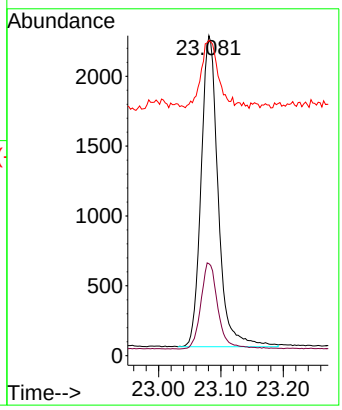


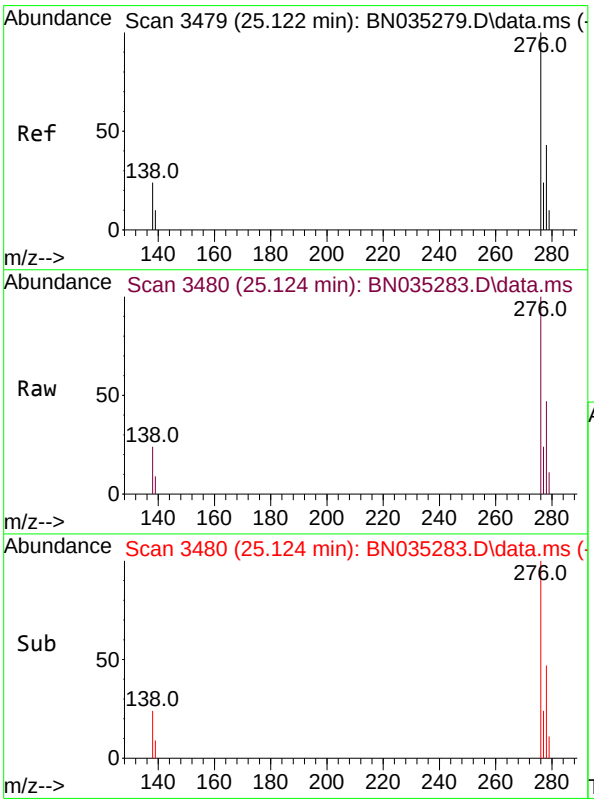
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 4243

Ion	Ratio	Lower	Upper
264	100		
260	28.8	22.3	33.5
265	98.6	68.6	103.0

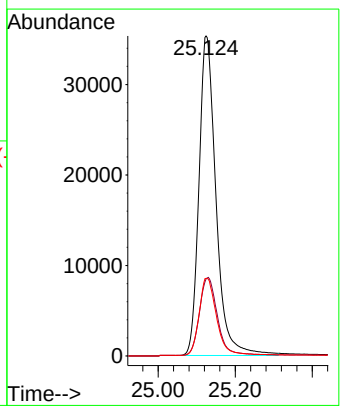


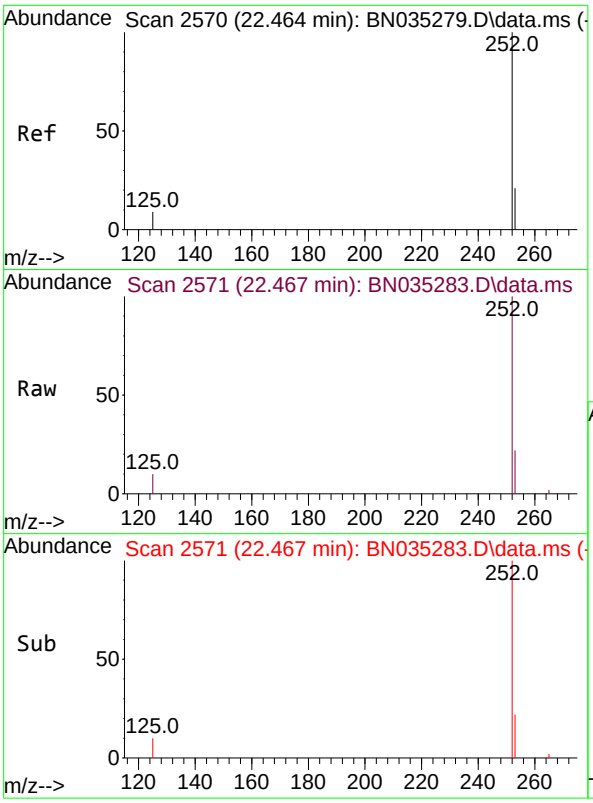


#36
Indeno(1,2,3-cd)pyrene
Concen: 6.420 ng
RT: 25.124 min Scan# 3480
Delta R.T. 0.003 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:276 Resp: 108670

Ion	Ratio	Lower	Upper
276	100		
138	25.5	18.8	28.2
277	24.8	18.2	27.4



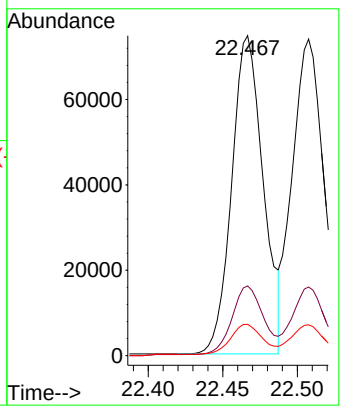


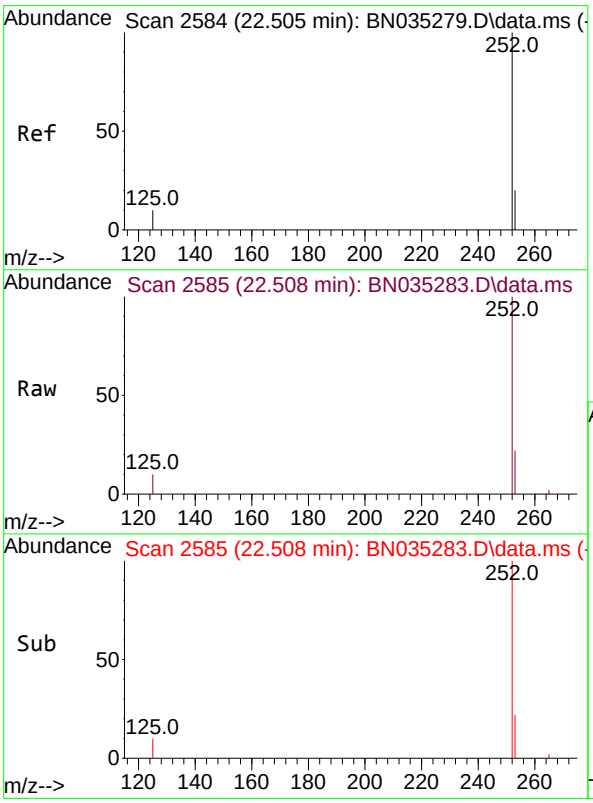
#37
Benzo(b)fluoranthene
Concen: 7.668 ng
RT: 22.467 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 109463

Ion	Ratio	Lower	Upper
252	100		
253	21.8	20.2	30.2
125	9.8	12.0	18.0#

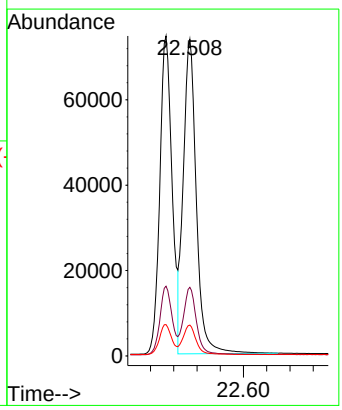


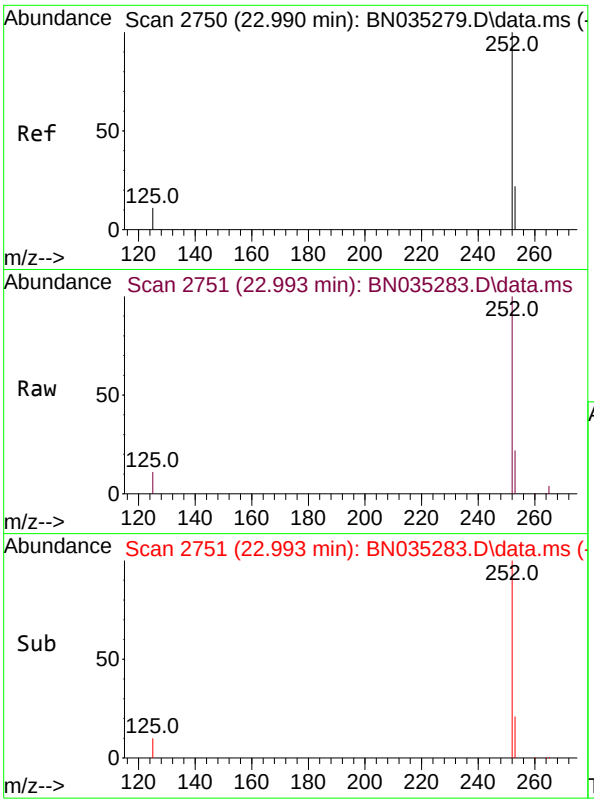


#38
Benzo(k)fluoranthene
Concen: 8.038 ng
RT: 22.508 min Scan# 2585
Delta R.T. 0.003 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:252 Resp: 114816

Ion	Ratio	Lower	Upper
252	100		
253	21.7	20.1	30.1
125	9.8	12.7	19.1#



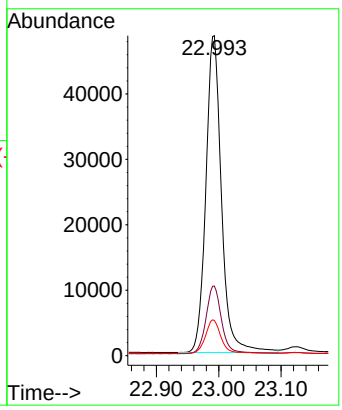


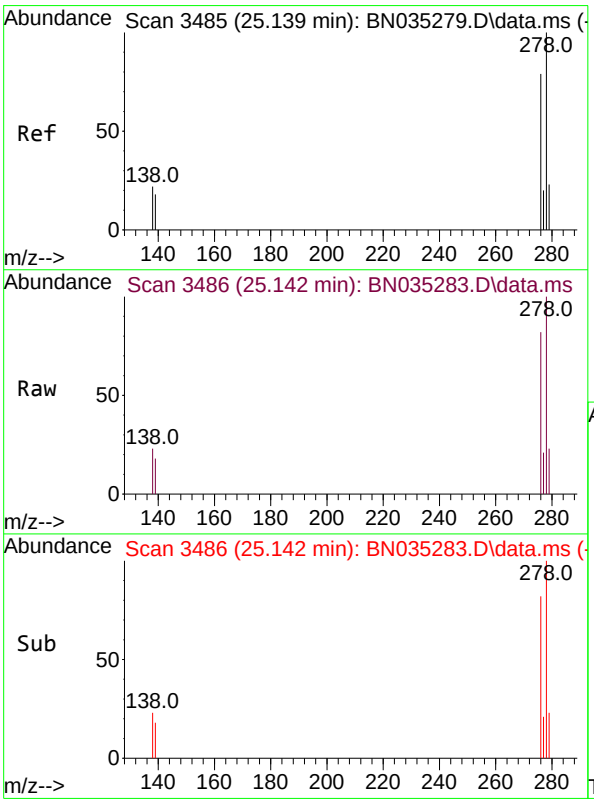
#39
Benzo(a)pyrene
Concen: 6.696 ng
RT: 22.993 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 84108

Ion	Ratio	Lower	Upper
252	100		
253	21.7	22.3	33.5#
125	11.0	15.3	22.9#

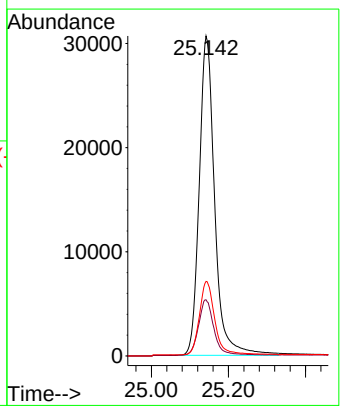


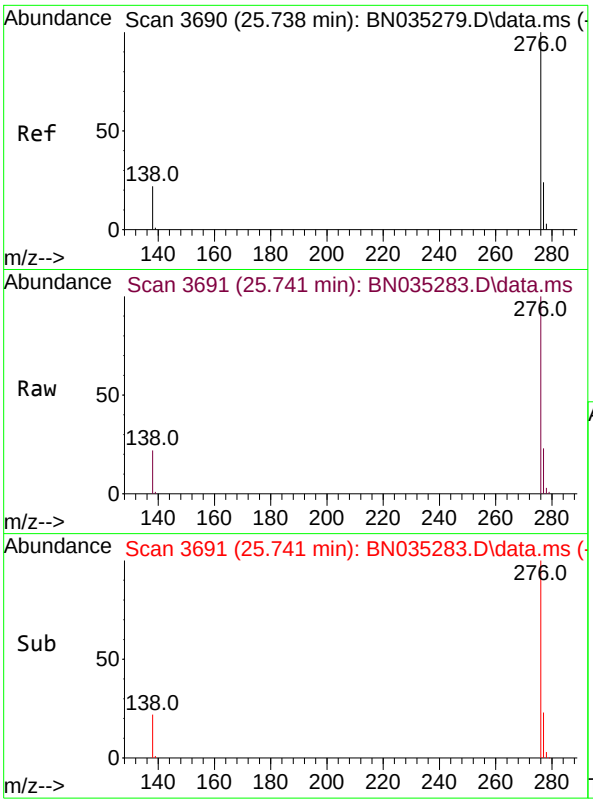


#40
Dibenzo(a,h)anthracene
Concen: 6.375 ng
RT: 25.142 min Scan# 3486
Delta R.T. 0.003 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:278 Resp: 85497

Ion	Ratio	Lower	Upper
278	100		
139	17.6	17.0	25.6
279	23.3	23.0	34.4



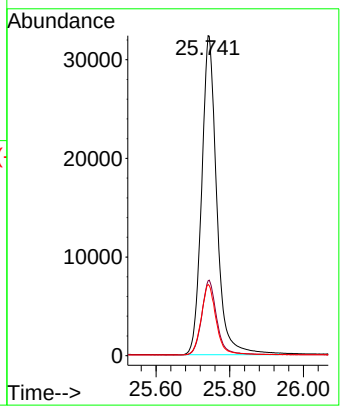


#41
Benzo(g,h,i)perylene
Concen: 6.459 ng
RT: 25.741 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 92138

Ion	Ratio	Lower	Upper
276	100		
277	23.4	21.1	31.7
138	22.3	19.8	29.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035284.D
Acq On : 25 Nov 2024 14:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 25 22:35:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2519	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5593	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	2659	0.400	ng	# 0.00
19) Phenanthrene-d10	16.734	188	5748	0.400	ng	0.00
29) Chrysene-d12	21.008	240	611	0.400	ng	0.00
35) Perylene-d12	23.081	264	3470	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1712	0.360	ng	0.00
5) Phenol-d6	6.521	99	2314	0.348	ng	0.00
8) Nitrobenzene-d5	8.450	82	2129	0.469	ng	0.00
11) 2-Methylnaphthalene-d10	11.667	152	2635	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	546	0.402	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	683	0.465	ng	0.00
27) Fluoranthene-d10	18.792	212	5270m	0.343	ng	0.00
31) Terphenyl-d14	19.419	244	3187	0.282	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	689	0.381	ng	# 83
3) n-Nitrosodimethylamine	3.299	42	809	0.431	ng	# 76
6) bis(2-Chloroethyl)ether	6.766	93	2132	0.381	ng	99
9) Naphthalene	10.116	128	5975	0.385	ng	99
10) Hexachlorobutadiene	10.415	225	1929	0.442	ng	# 100
12) 2-Methylnaphthalene	11.742	142	3297	0.325	ng	98
16) Acenaphthylene	13.688	152	5175	0.387	ng	99
17) Acenaphthene	14.030	154	3227	0.383	ng	# 90
18) Fluorene	15.035	166	4194	0.355	ng	97
20) 4,6-Dinitro-2-methylph...	15.131	198	239	0.477	ng	98
21) 4-Bromophenyl-phenylether	15.940	248	1328	0.364	ng	92
22) Hexachlorobenzene	16.051	284	2564	0.491	ng	98
23) Atrazine	16.237	200	643	0.419	ng	98
24) Pentachlorophenol	16.399	266	510	0.407	ng	95
25) Phenanthrene	16.784	178	6385	0.362	ng	100
26) Anthracene	16.870	178	4852	0.320	ng	99
28) Fluoranthene	18.825	202	6686	0.300	ng	99
30) Pyrene	19.192	202	6525	0.294	ng	100
32) Benzo(a)anthracene	21.017	228	5799	0.273	ng	100
33) Chrysene	21.017	228	5799	0.273	ng	100
34) Bis(2-ethylhexyl)phtha...	21.017	149	520	0.041	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.121	276	5652	0.398	ng	99
37) Benzo(b)fluoranthene	22.464	252	5358	0.355	ng	97
38) Benzo(k)fluoranthene	22.508	252	5559	0.348	ng	97
39) Benzo(a)pyrene	22.990	252	4167	0.361	ng	97
40) Dibenzo(a,h)anthracene	25.145	278	4182	0.389	ng	98
41) Benzo(g,h,i)perylene	25.738	276	5121	0.412	ng	99

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

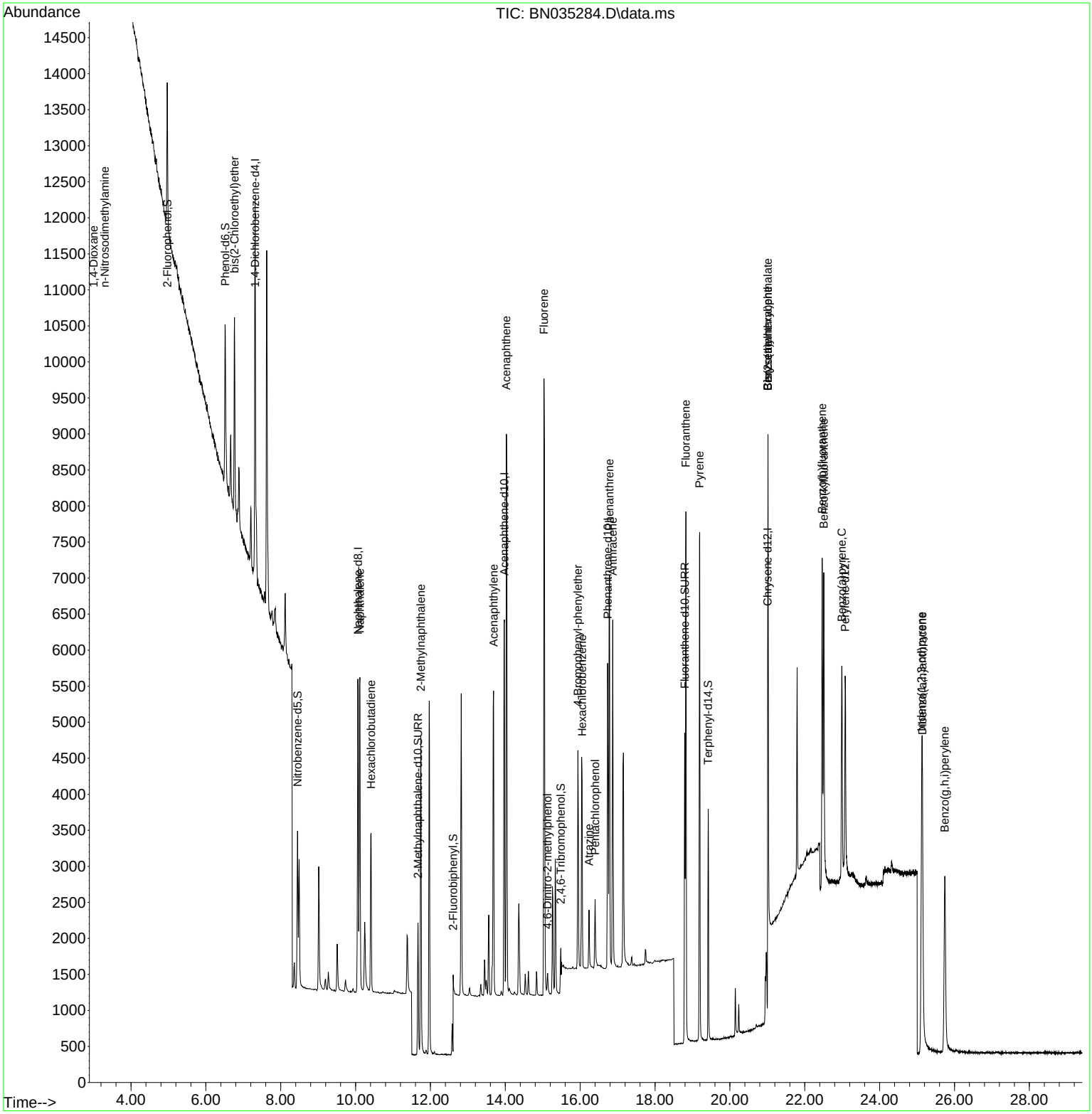
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035284.D
Acq On : 25 Nov 2024 14:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 59 Sample Multiplier: 1

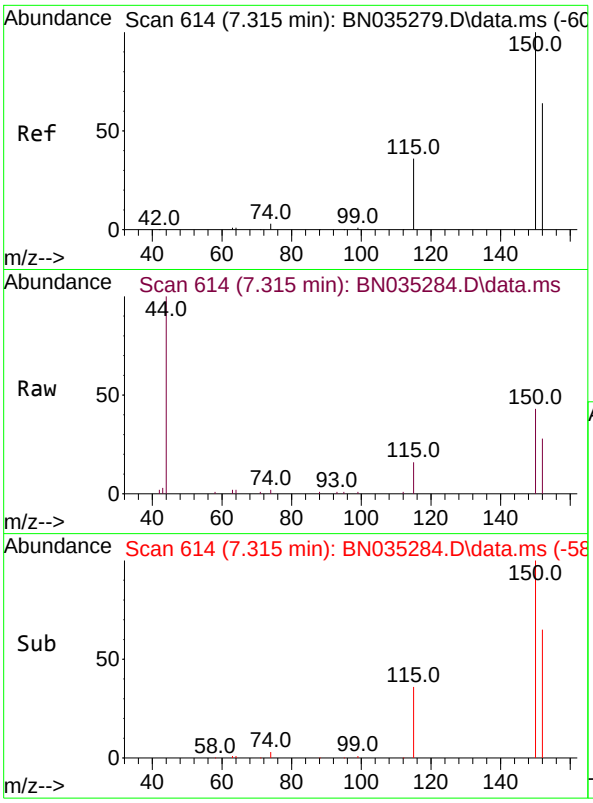
Quant Time: Nov 25 22:35:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

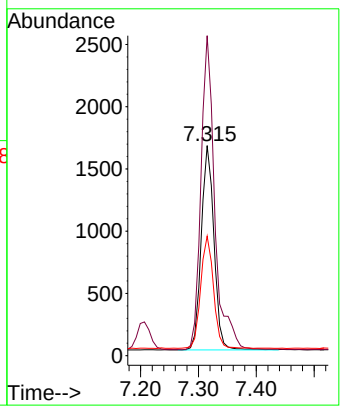




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:152 Resp: 251

Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.5	186.7
115	56.9	47.8	71.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations
APPROVED

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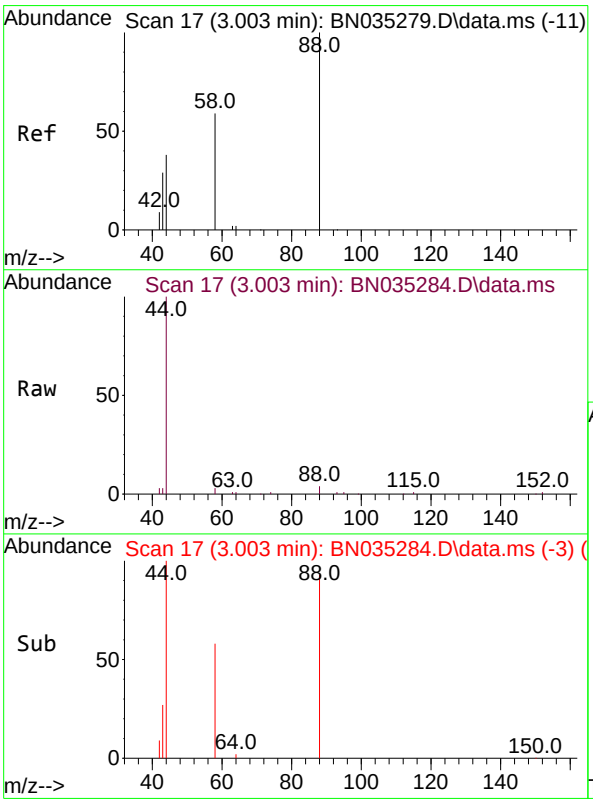
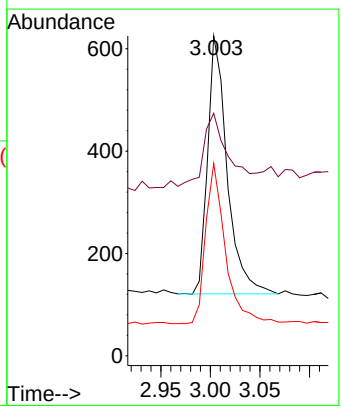
Supervised By :mohammad ahmed 11/27/2024

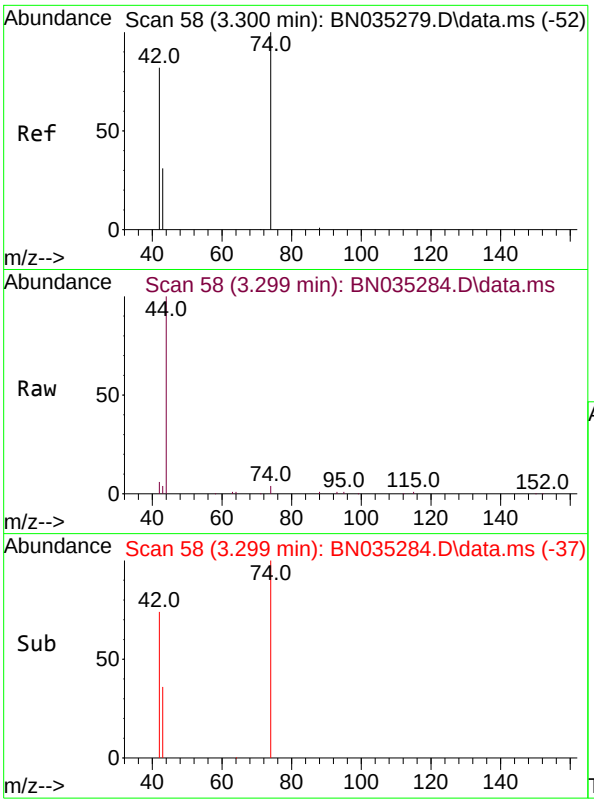


#2
1,4-Dioxane
Concen: 0.381 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion: 88 Resp: 689

Ion	Ratio	Lower	Upper
88	100		
43	38.3	48.1	72.1#
58	62.8	46.9	70.3

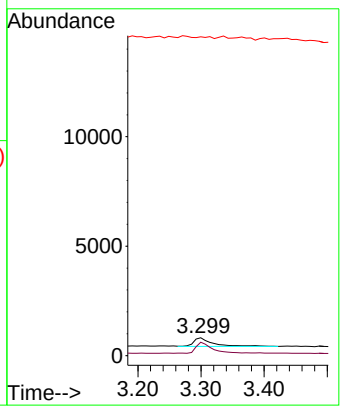




#3
n-Nitrosodimethylamine
Concen: 0.431 ng
RT: 3.299 min Scan# 5
Delta R.T. -0.001 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion: 42 Resp: 80

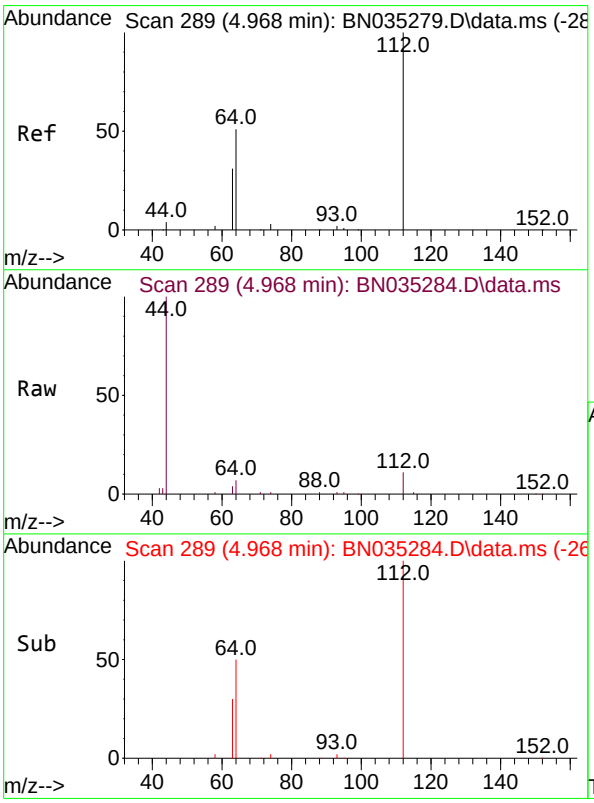
Ion	Ratio	Lower	Upper
42	100		
74	116.4	102.7	154.1
44	0.0	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations
APPROVED

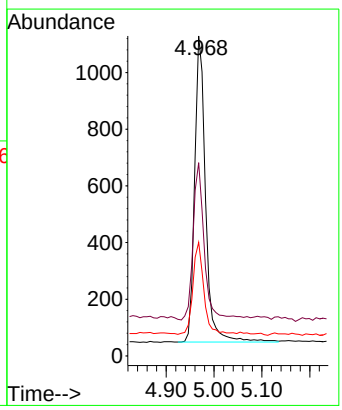
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

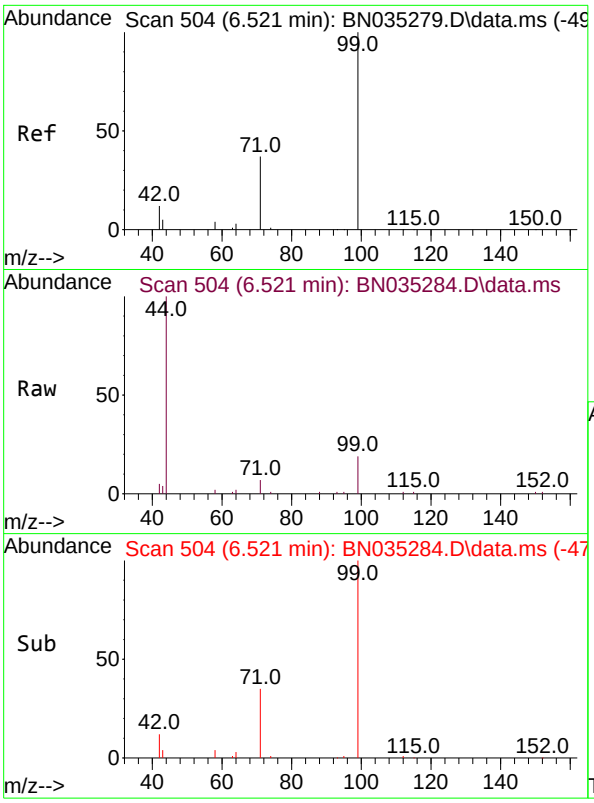


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:112 Resp: 1712

Ion	Ratio	Lower	Upper
112	100		
64	53.3	40.4	60.6
63	29.8	23.8	35.8

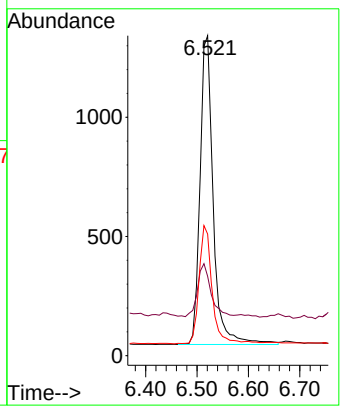




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.521 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion: 99 Resp: 231

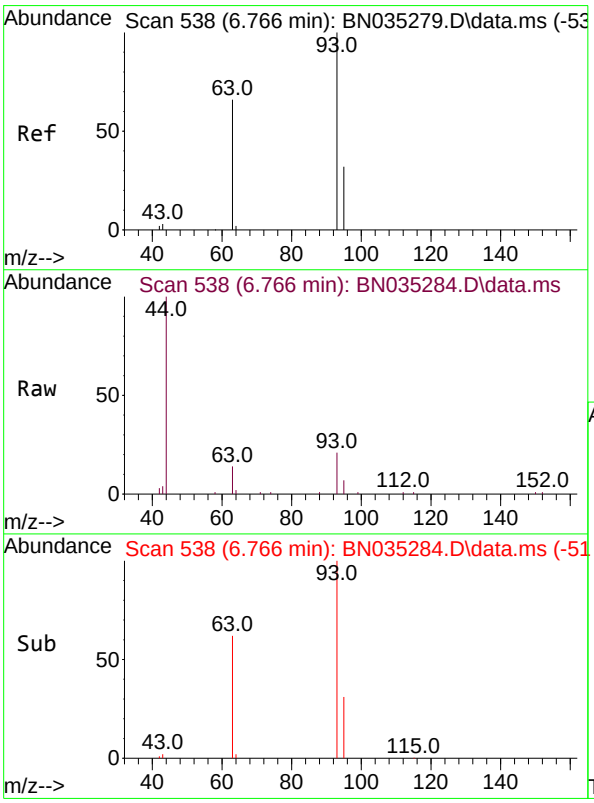
Ion	Ratio	Lower	Upper
99	100		
42	17.3	12.8	19.2
71	38.1	31.4	47.2



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations
APPROVED

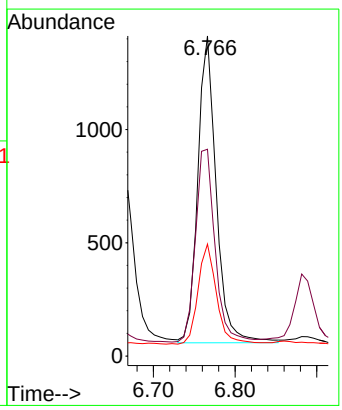
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

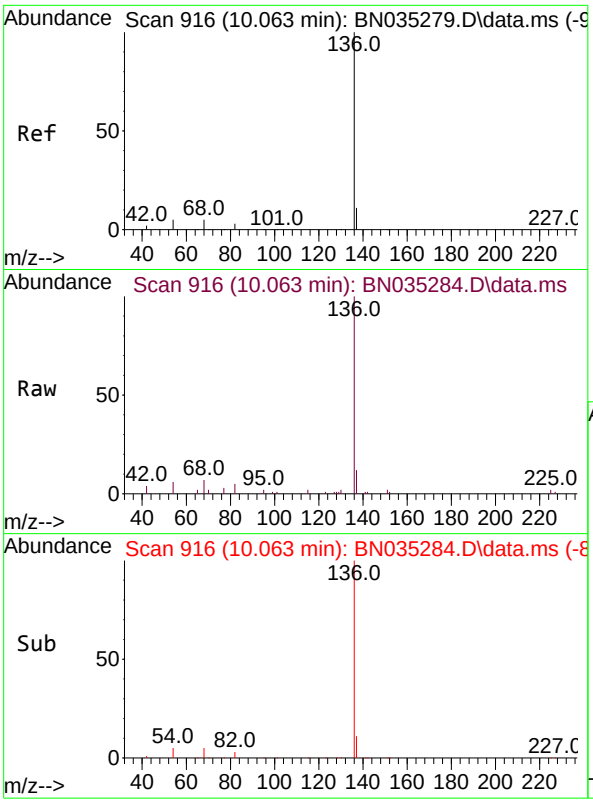


#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion: 93 Resp: 2132

Ion	Ratio	Lower	Upper
93	100		
63	66.4	52.3	78.5
95	32.6	25.5	38.3

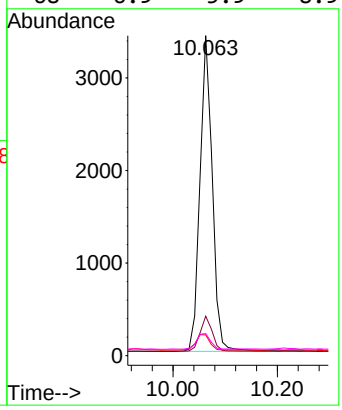




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:136 Resp: 559

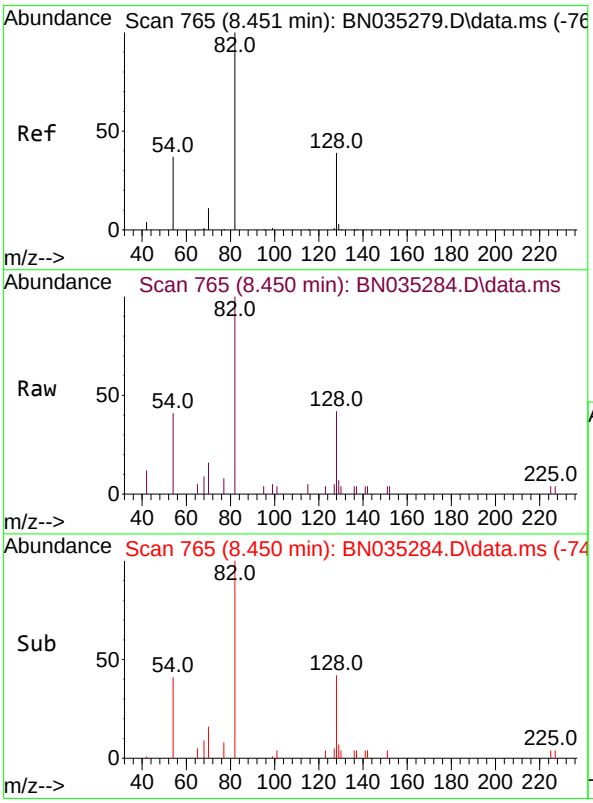
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.7	14.5
54	6.5	5.3	7.9
68	6.9	5.9	8.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations
APPROVED

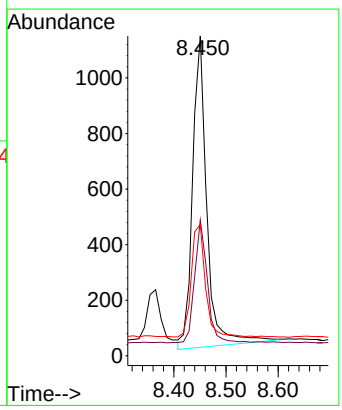
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

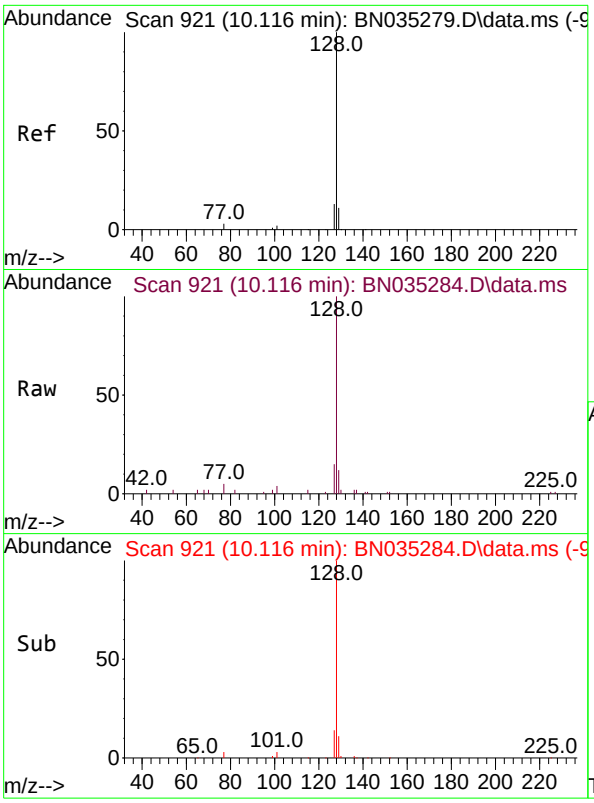


#8
Nitrobenzene-d5
Concen: 0.469 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion: 82 Resp: 2129

Ion	Ratio	Lower	Upper
82	100		
128	42.5	33.0	49.4
54	41.1	33.3	49.9





#9
Naphthalene
Concen: 0.385 ng
RT: 10.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

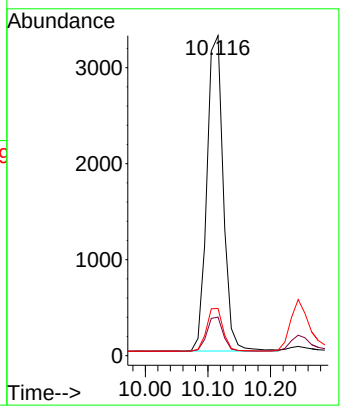
Tgt Ion:128 Resp: 597

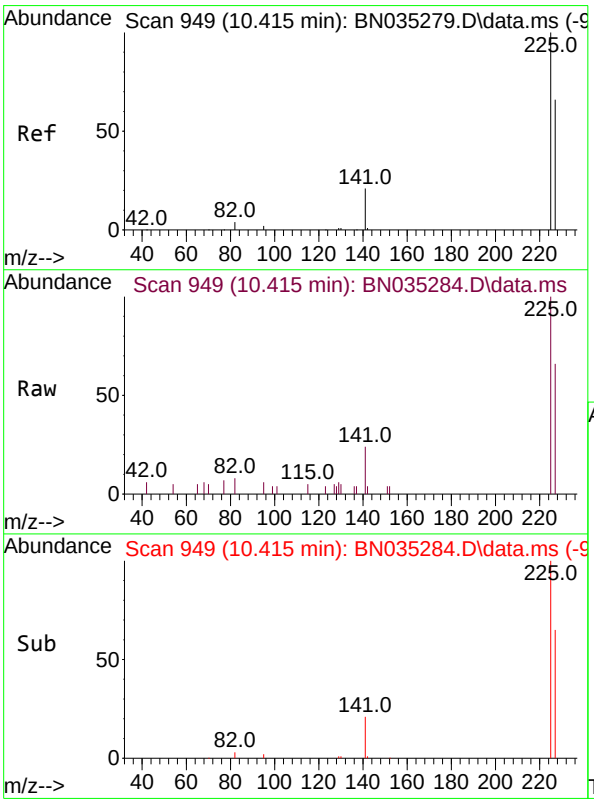
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.6	14.4
127	14.8	11.3	16.9

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

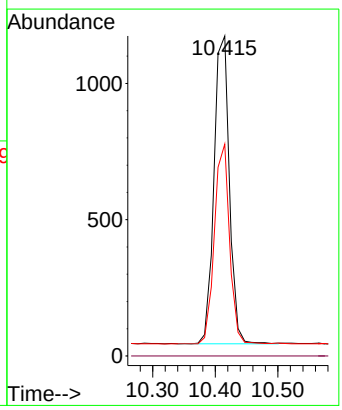


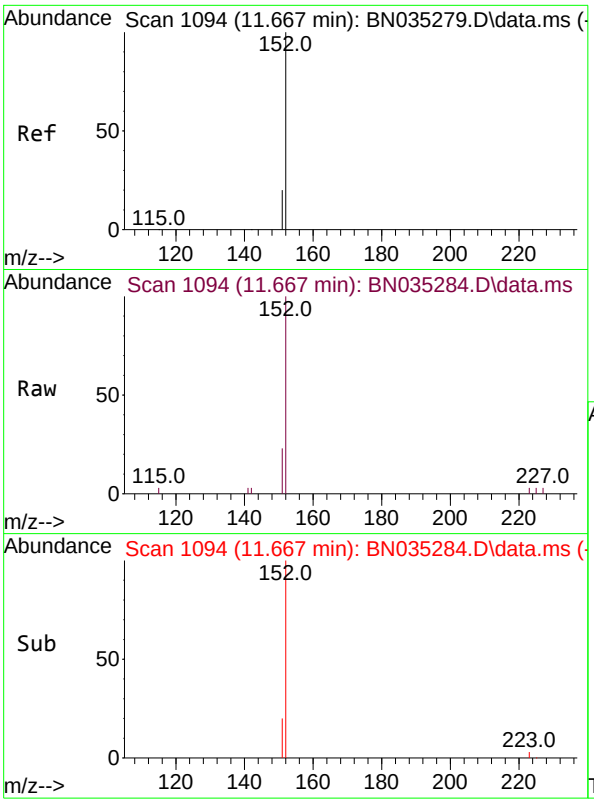


#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:225 Resp: 1929

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.3	76.9

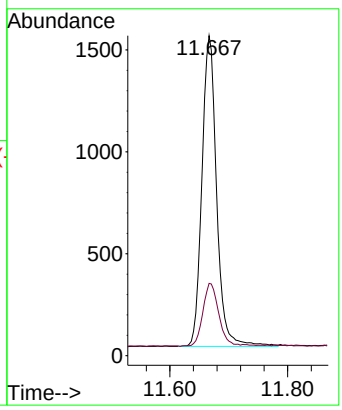




#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.667 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:152 Resp: 263

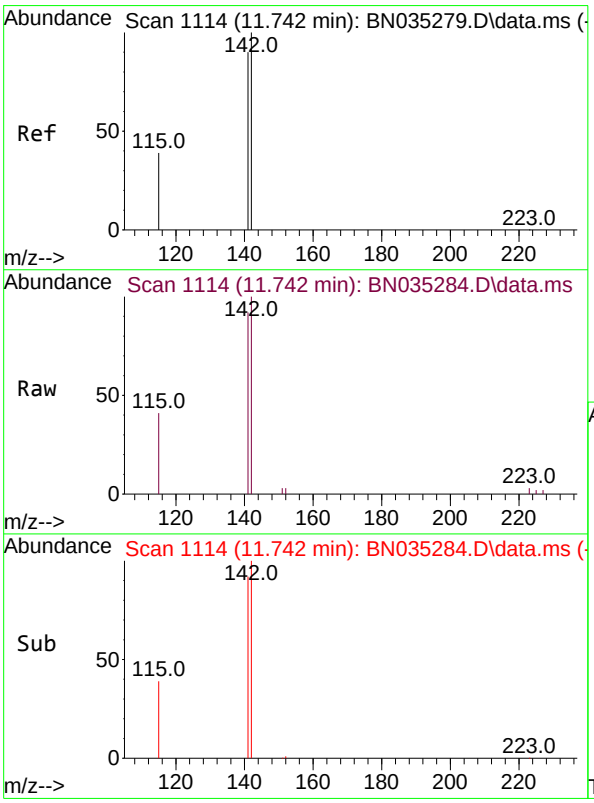
Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.2	25.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations
APPROVED

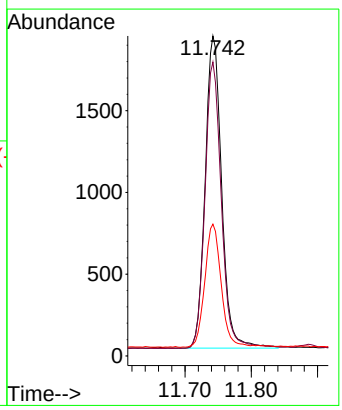
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

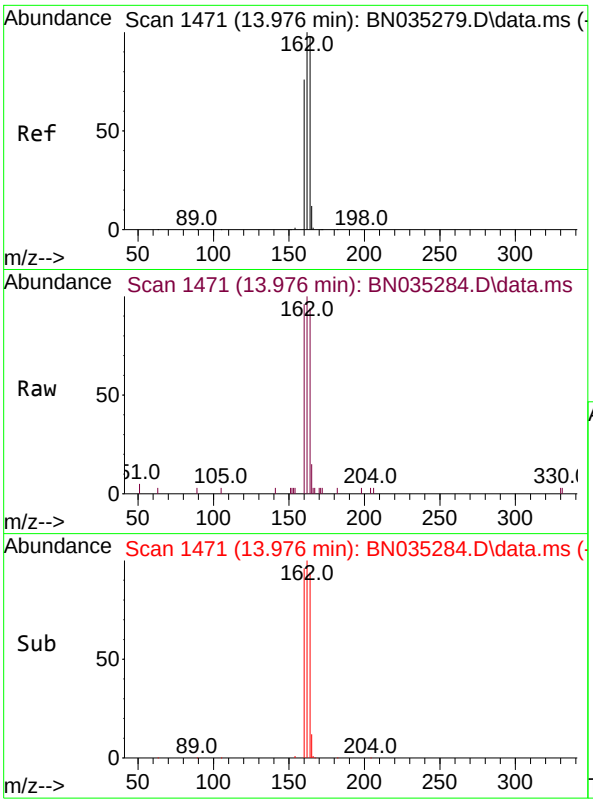


#12
2-Methylnaphthalene
Concen: 0.325 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:142 Resp: 3297

Ion	Ratio	Lower	Upper
142	100		
141	91.9	71.8	107.8
115	41.2	32.6	49.0

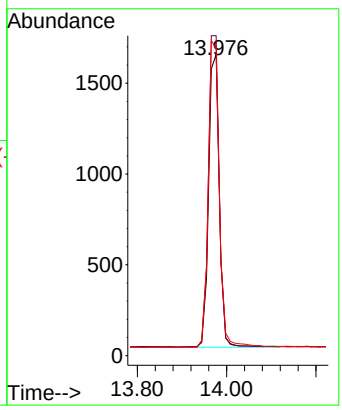




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:164 Resp: 265

Ion	Ratio	Lower	Upper
164	100		
162	106.3	82.0	123.0
160	101.9	63.0	94.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
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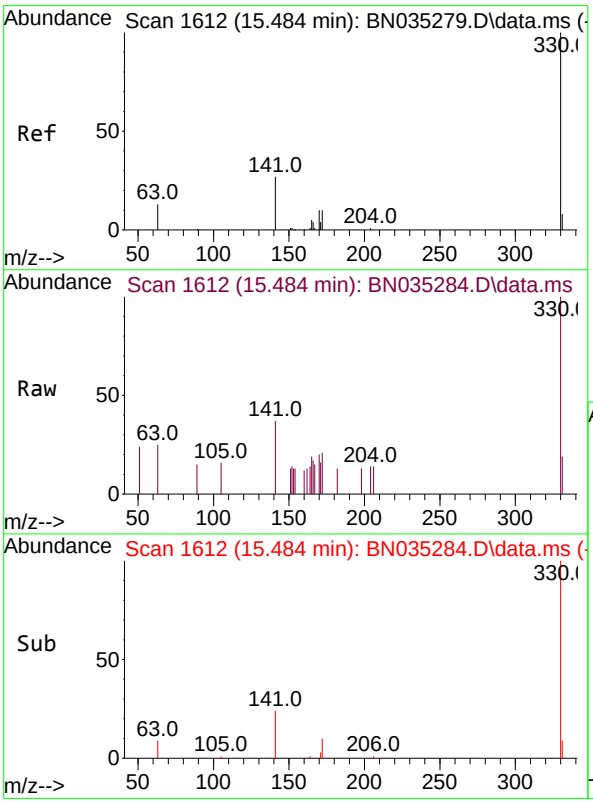
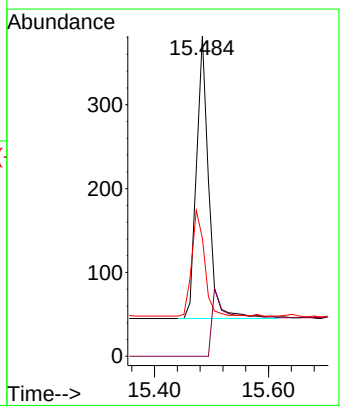
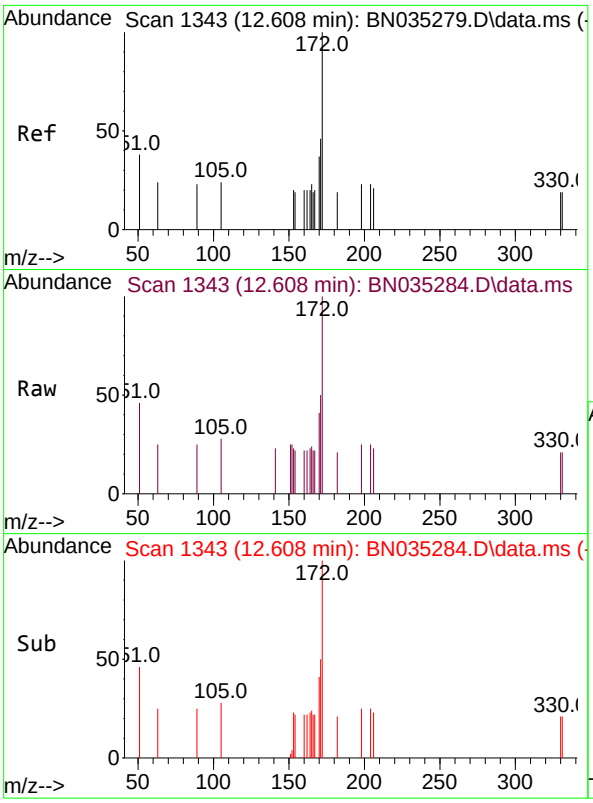


#14
2,4,6-Tribromophenol
Concen: 0.402 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:330 Resp: 546

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.7	32.4	48.6

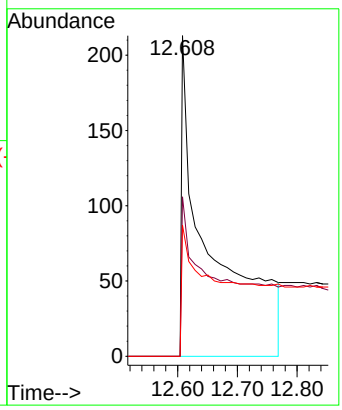




#15
2-Fluorobiphenyl
Concen: 0.465 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:172 Resp: 68

Ion	Ratio	Lower	Upper
172	100		
171	49.8	36.6	55.0
170	40.8	29.7	44.5



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

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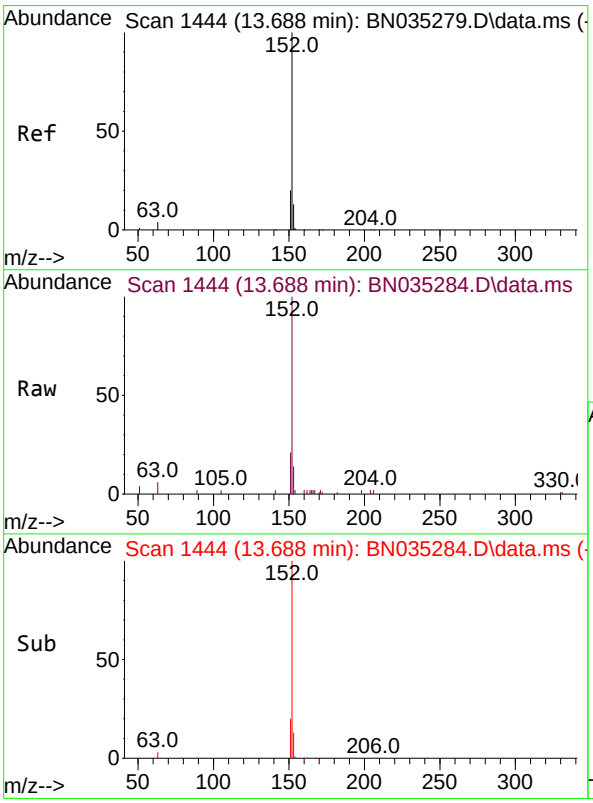
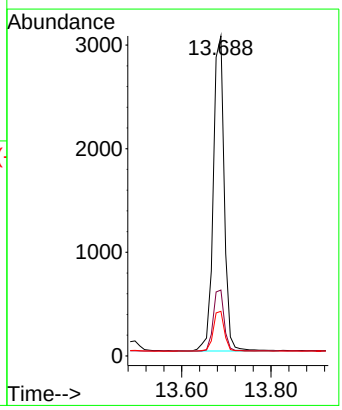
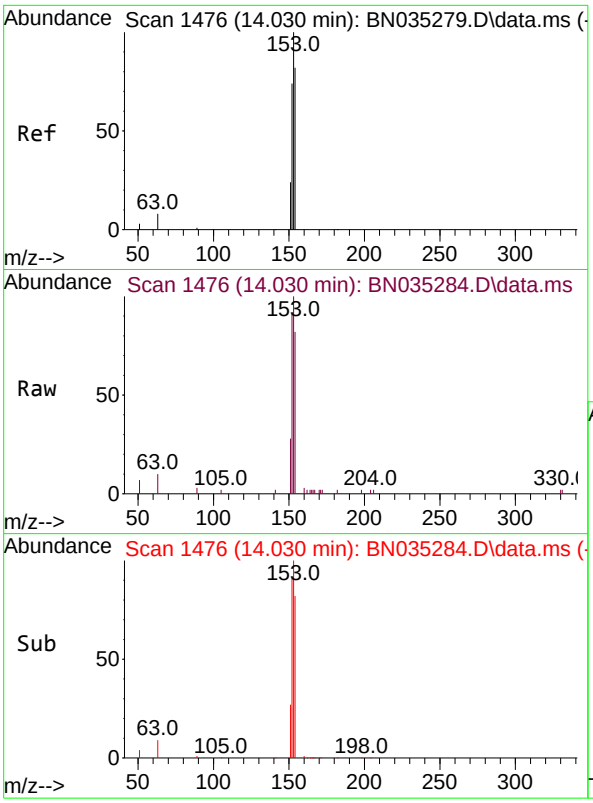


#16
Acenaphthylene
Concen: 0.387 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:152 Resp: 5175

Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.9	23.9
153	12.9	10.2	15.4

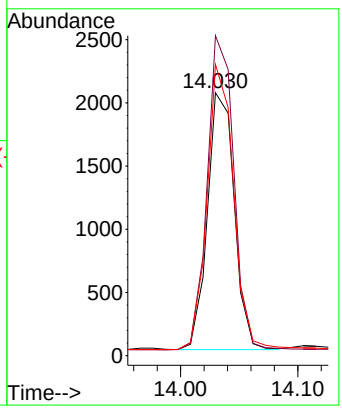




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.030 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:154 Resp: 322

Ion	Ratio	Lower	Upper
154	100		
153	121.8	96.1	144.1
152	111.1	72.2	108.2#



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

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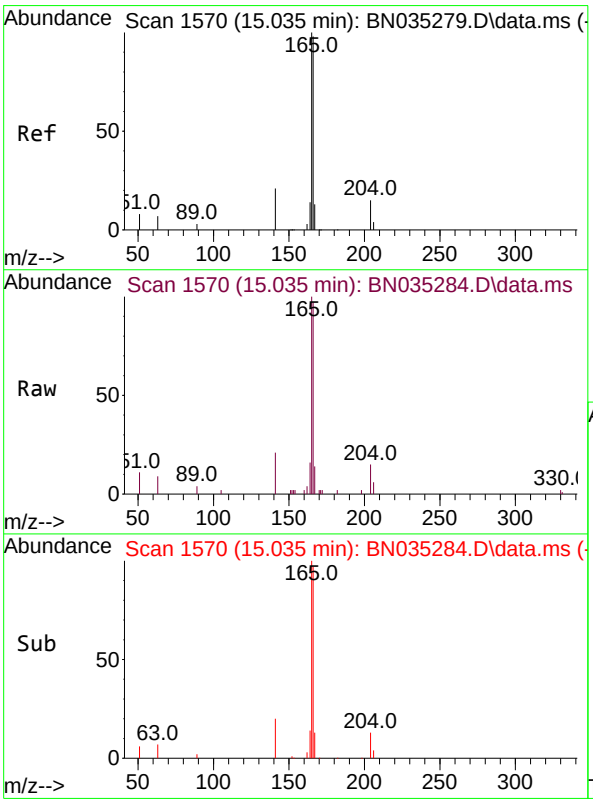
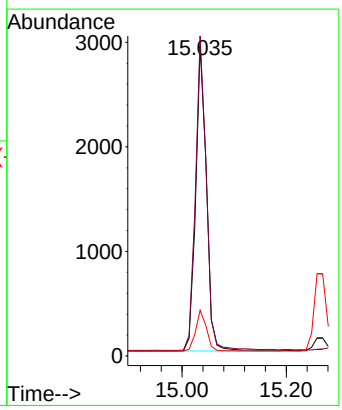
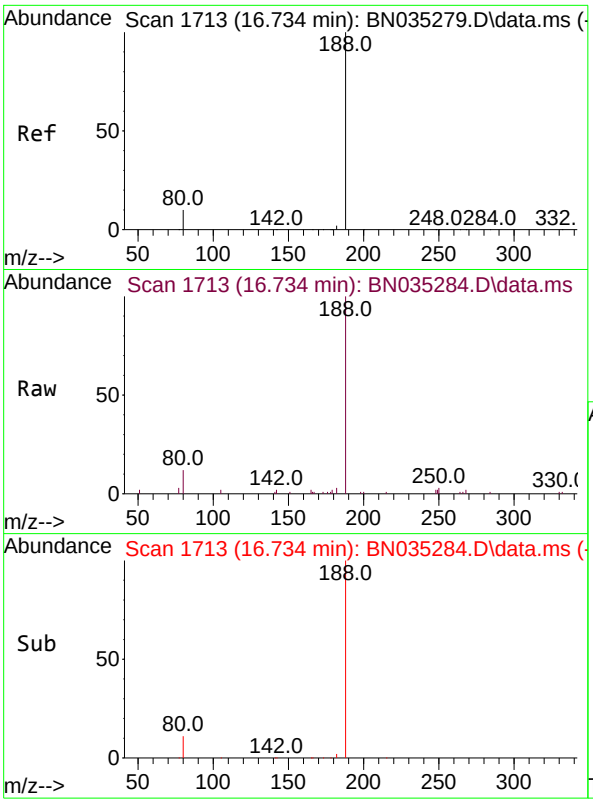


#18
Fluorene
Concen: 0.355 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:166 Resp: 4194

Ion	Ratio	Lower	Upper
166	100		
165	104.2	81.2	121.8
167	13.7	10.5	15.7

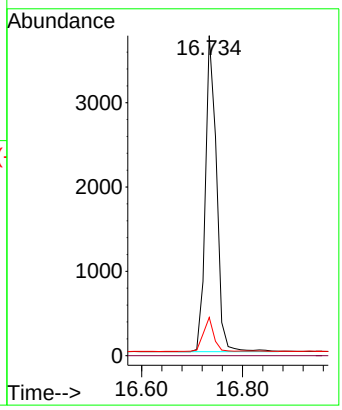




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:188 Resp: 574

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.9	13.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

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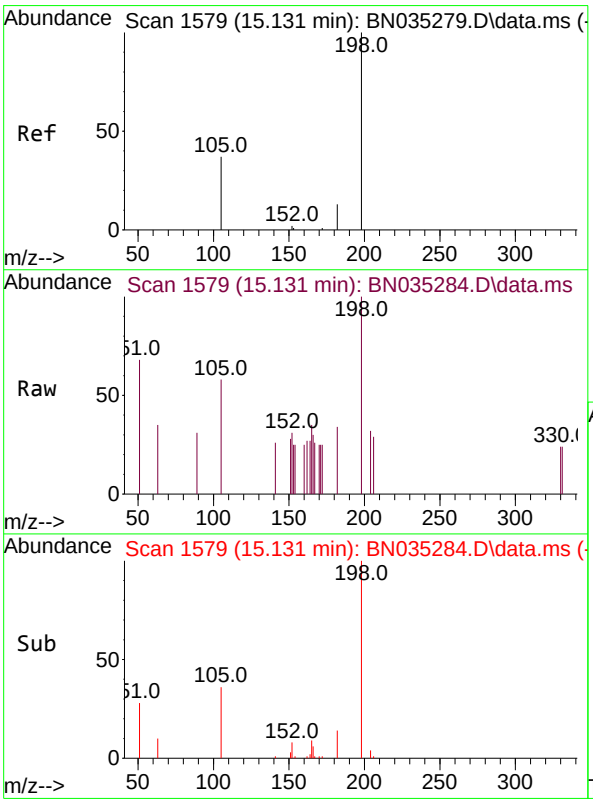
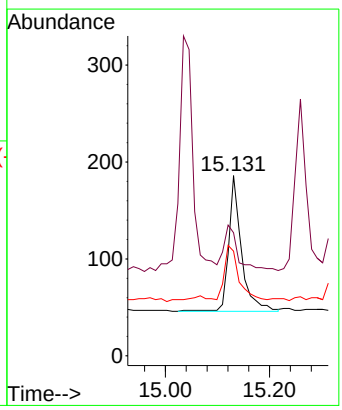
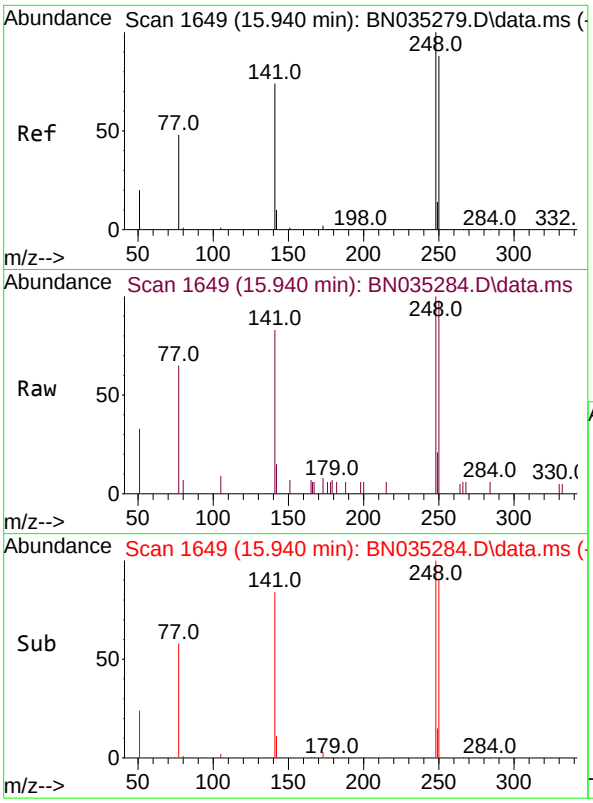


#20
4,6-Dinitro-2-methylphenol
Concen: 0.477 ng
RT: 15.131 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:198 Resp: 239

Ion	Ratio	Lower	Upper
198	100		
51	68.3	53.6	80.4
105	58.1	47.4	71.2

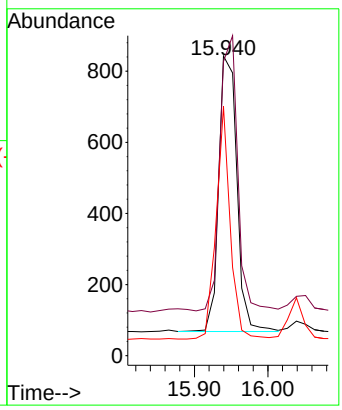




#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 15.940 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:248 Resp: 132

Ion	Ratio	Lower	Upper
248	100		
250	98.1	74.8	112.2
141	83.2	59.0	88.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

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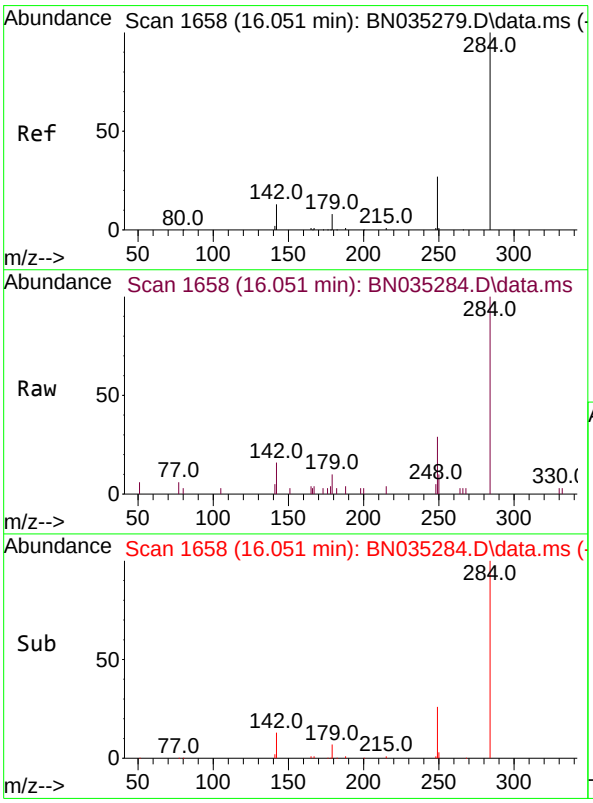
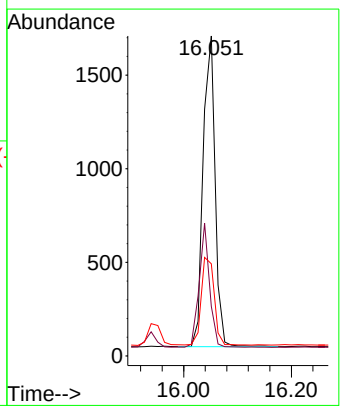
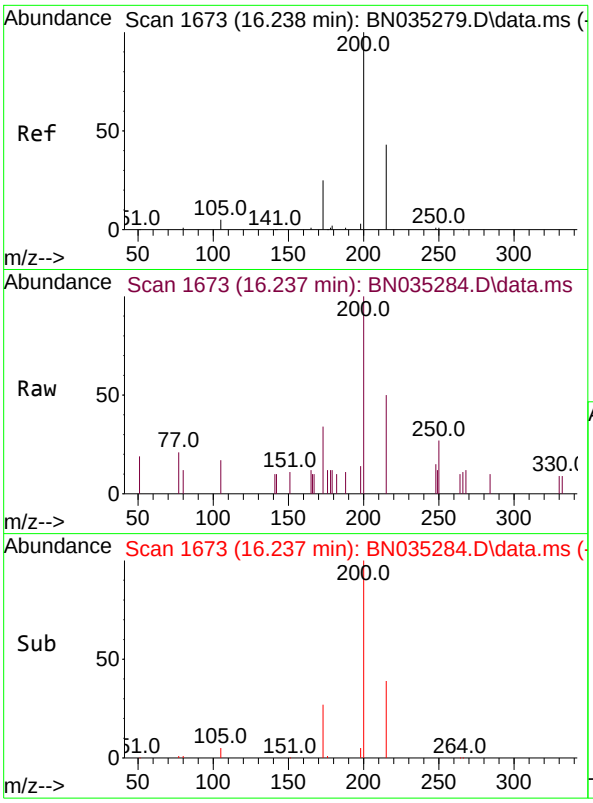


#22
Hexachlorobenzene
Concen: 0.491 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:284 Resp: 2564

Ion	Ratio	Lower	Upper
284	100		
142	35.1	28.7	43.1
249	30.5	25.4	38.0

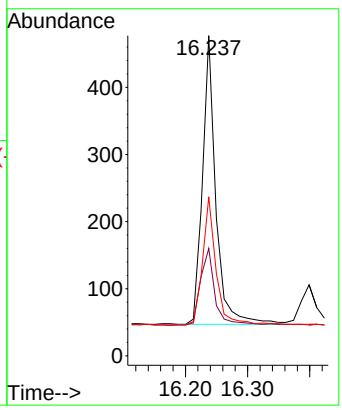




#23
Atrazine
Concen: 0.419 ng
RT: 16.237 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:200 Resp: 64

Ion	Ratio	Lower	Upper
200	100		
173	33.5	25.8	38.8
215	49.7	38.6	58.0



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

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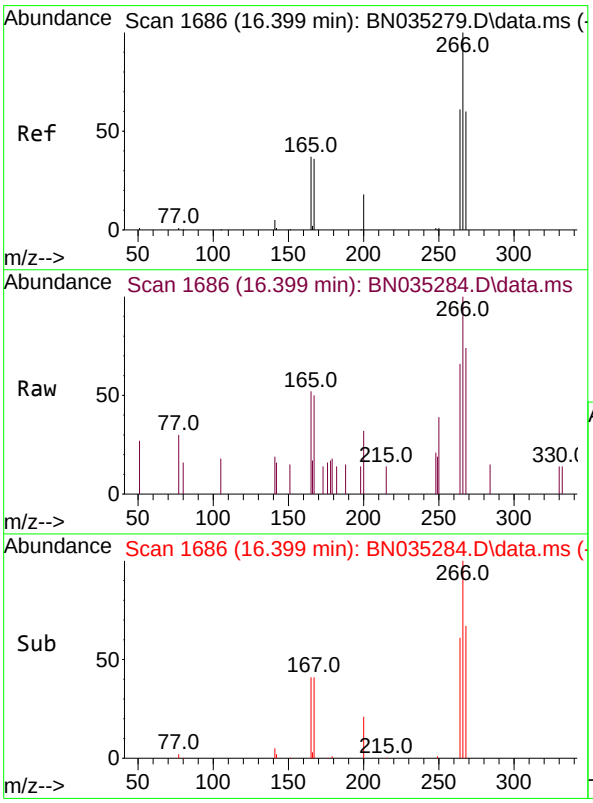
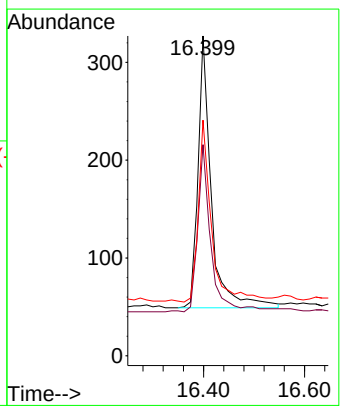
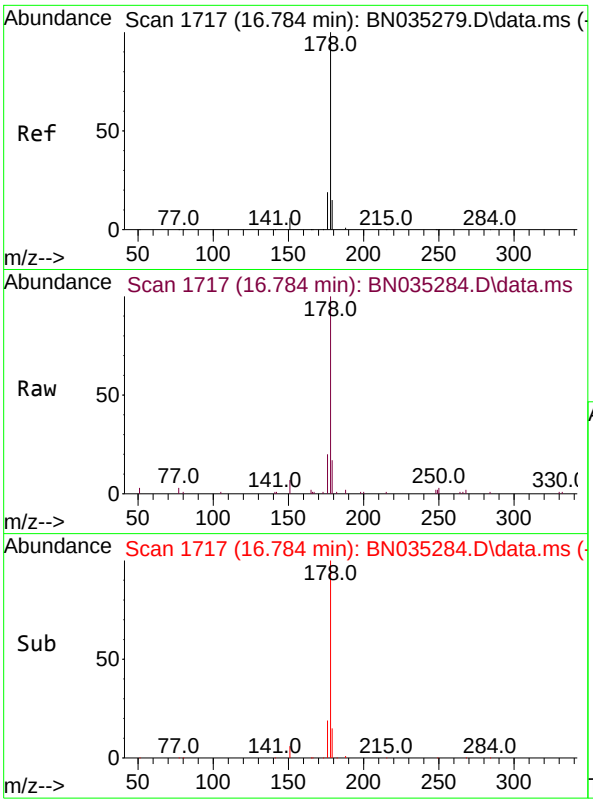


#24
Pentachlorophenol
Concen: 0.407 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:266 Resp: 510

Ion	Ratio	Lower	Upper
266	100		
264	59.8	49.3	73.9
268	66.9	48.6	73.0

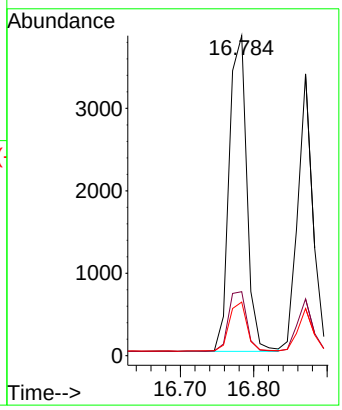




#25
Phenanthrene
Concen: 0.362 ng
RT: 16.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:178 Resp: 638

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.0
179	15.8	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

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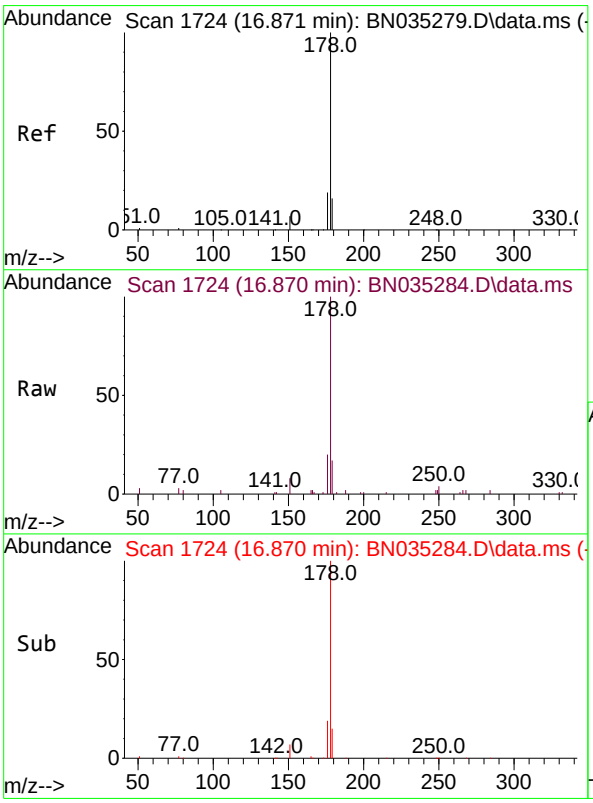
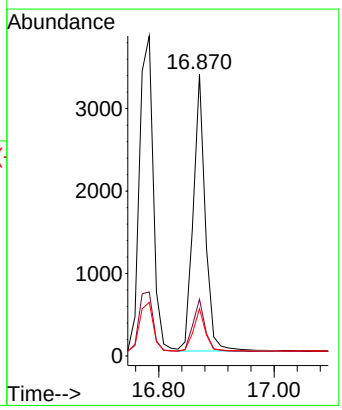
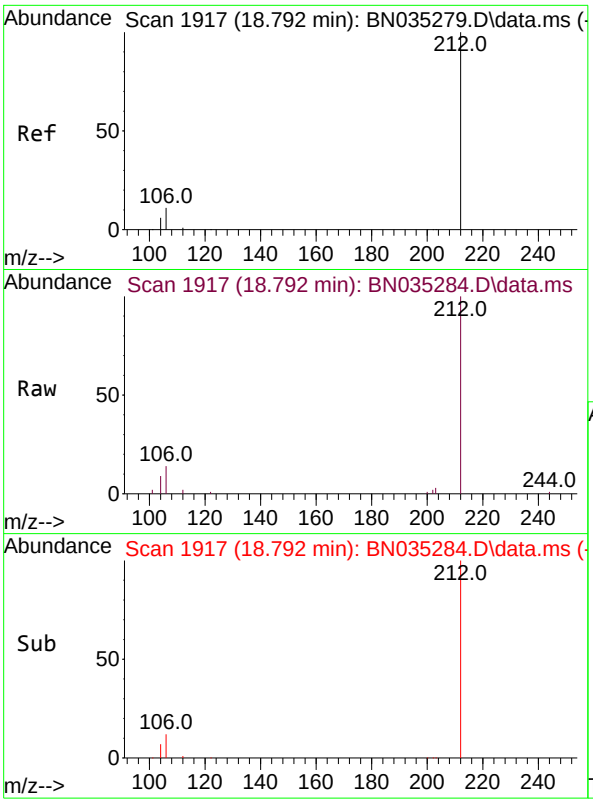


#26
Anthracene
Concen: 0.320 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:178 Resp: 4852

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.4
179	15.5	12.4	18.6

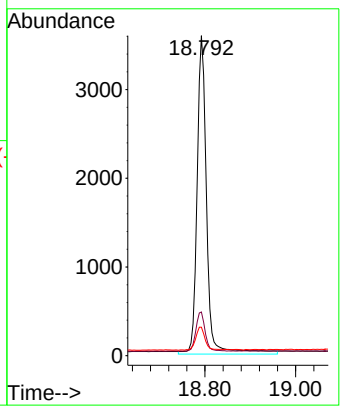




#27
Fluoranthene-d10
Concen: 0.343 ng m
RT: 18.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:212 Resp: 527

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.8	14.8
104	7.3	5.6	8.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

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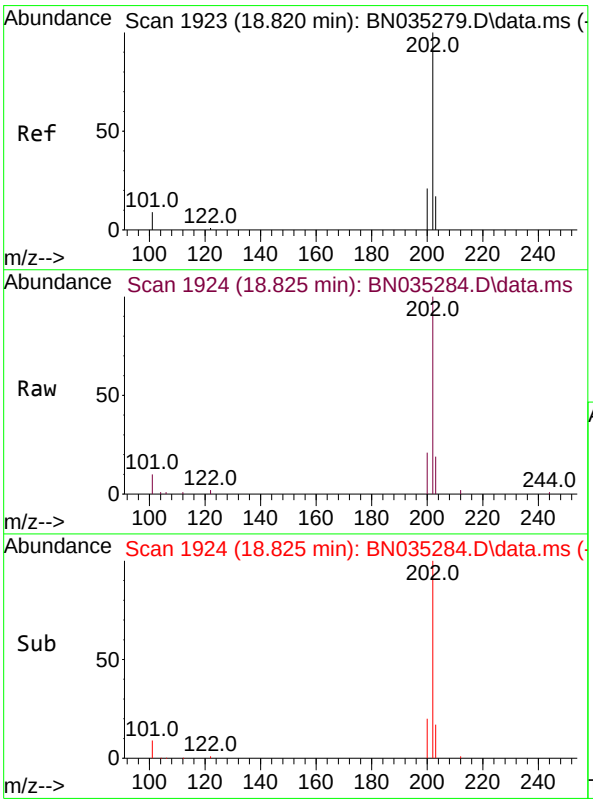
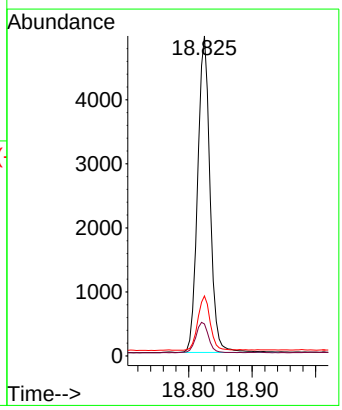
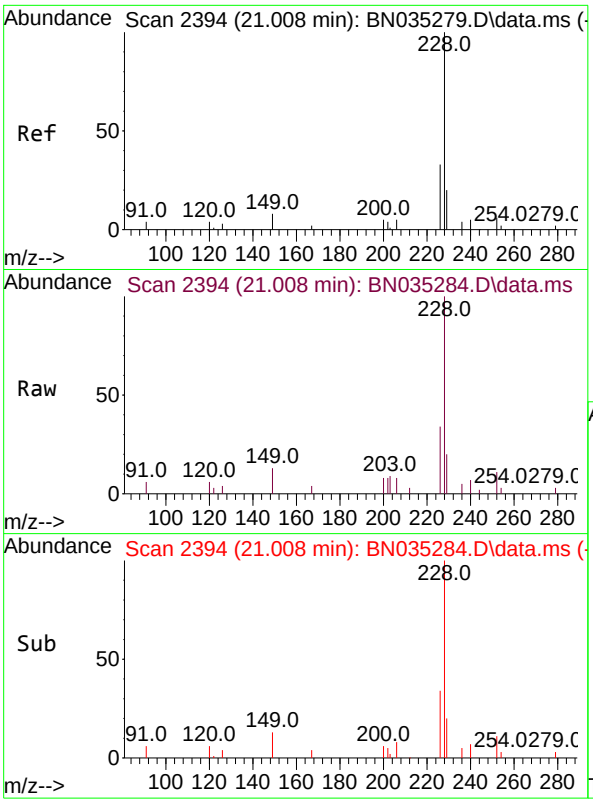


#28
Fluoranthene
Concen: 0.300 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.005 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:202 Resp: 6686

Ion	Ratio	Lower	Upper
202	100		
101	9.8	7.6	11.4
203	17.1	13.8	20.8

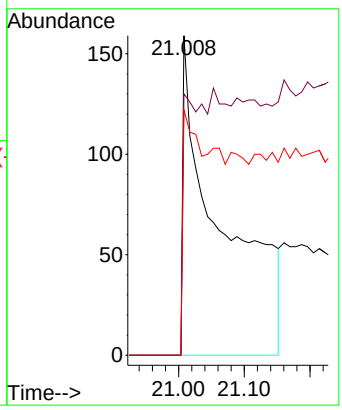




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:240 Resp: 61

Ion	Ratio	Lower	Upper
240	100		
120	81.8	54.9	82.3
236	76.7	54.0	81.0



Instrument :
BNA_N
ClientSampleId :
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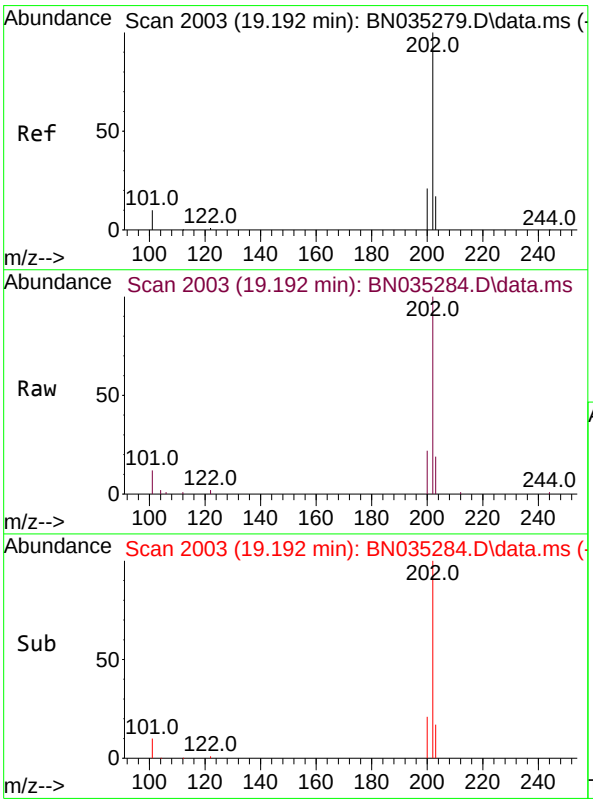
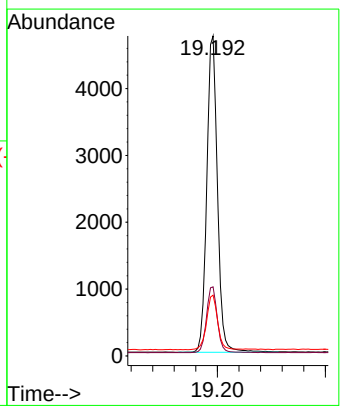
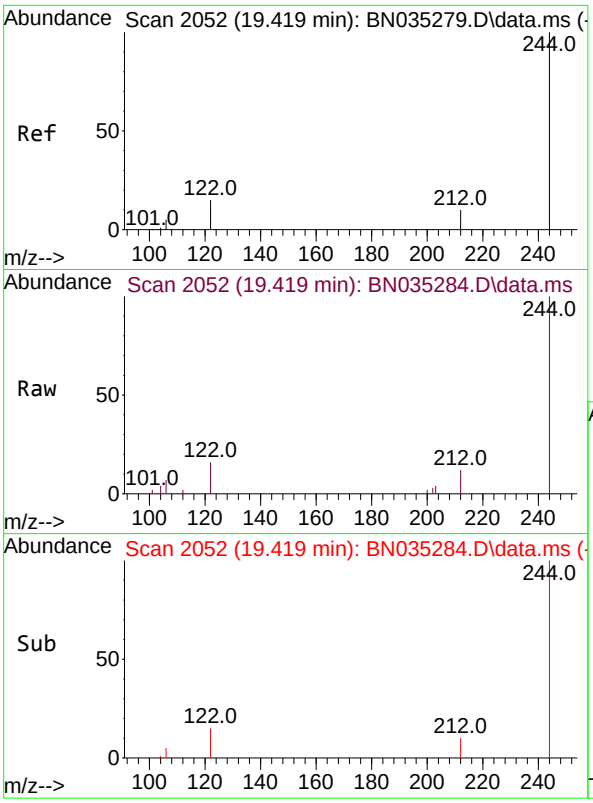


#30
Pyrene
Concen: 0.294 ng
RT: 19.192 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:202 Resp: 6525

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.9	14.4	21.6

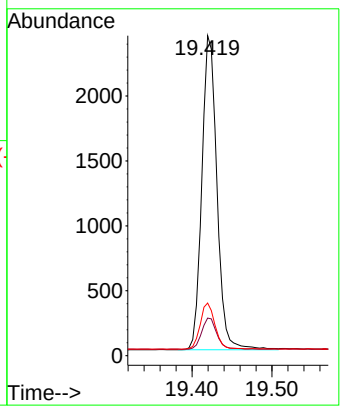




#31
Terphenyl-d14
Concen: 0.282 ng
RT: 19.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:244 Resp: 318

Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.4	14.0
122	16.4	13.0	19.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

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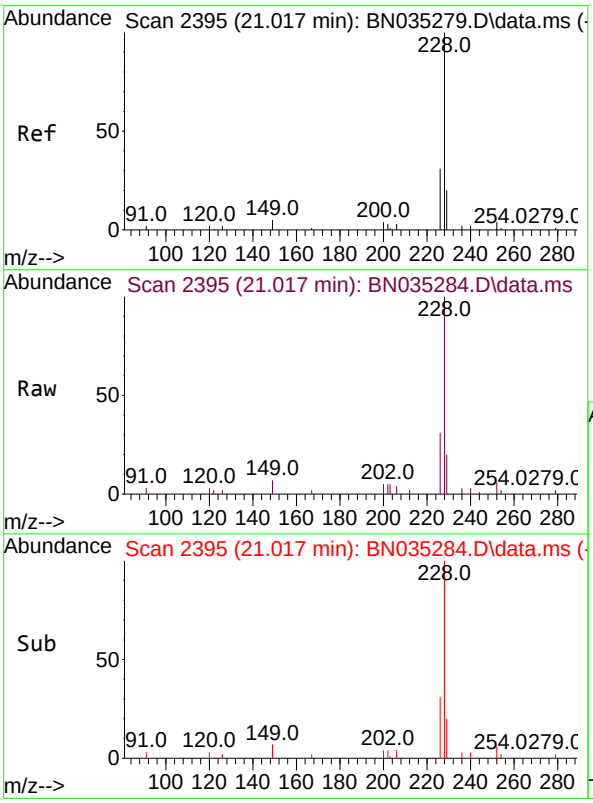
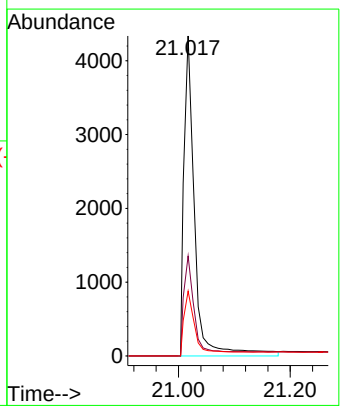
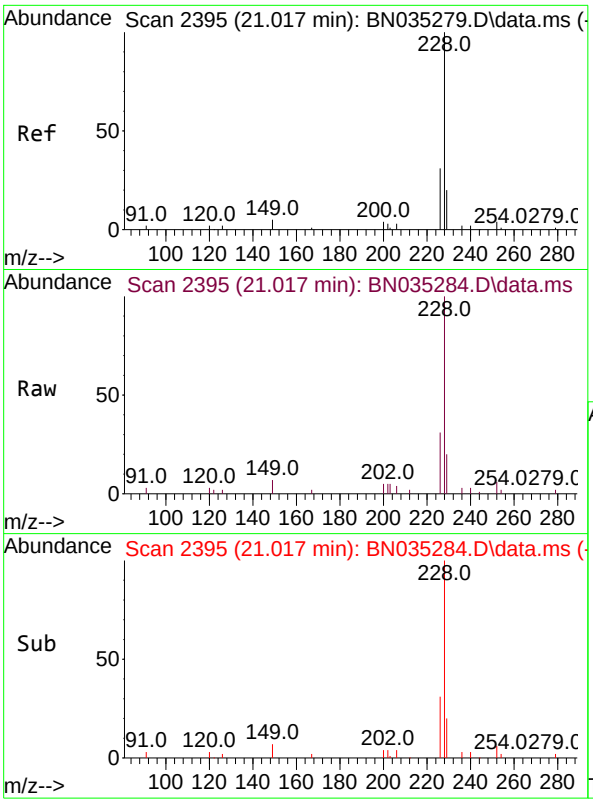


#32
Benzo(a)anthracene
Concen: 0.273 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:228 Resp: 5799

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.7	37.1
229	20.3	16.2	24.2

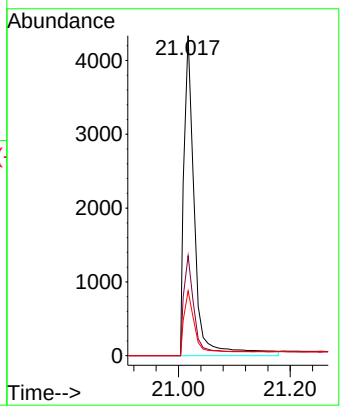




#33
Chrysene
Concen: 0.273 ng
RT: 21.017 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:228 Resp: 579

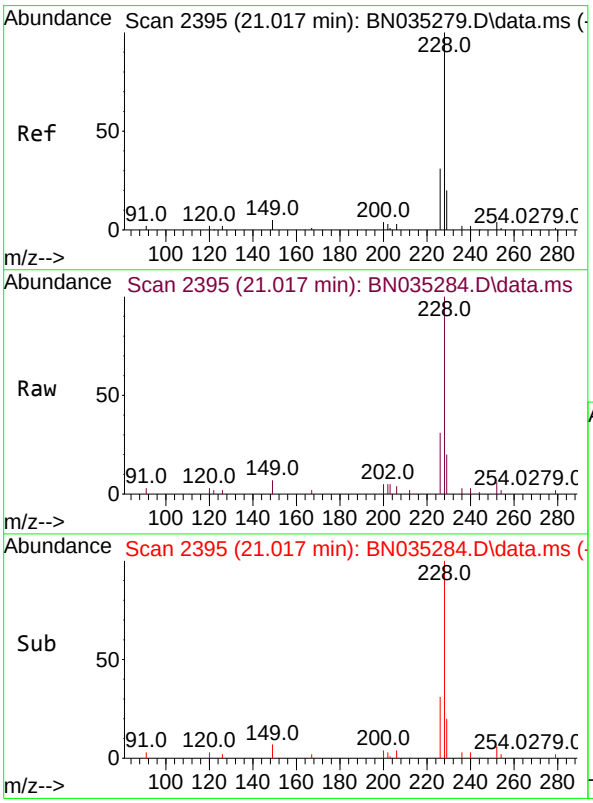
Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.7	37.1
229	20.3	16.2	24.2



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations APPROVED

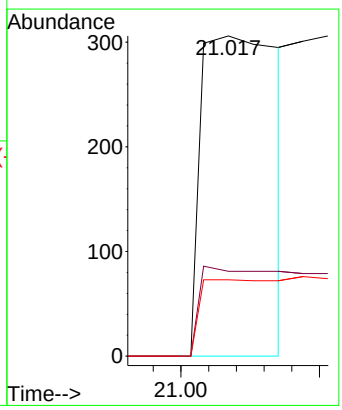
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

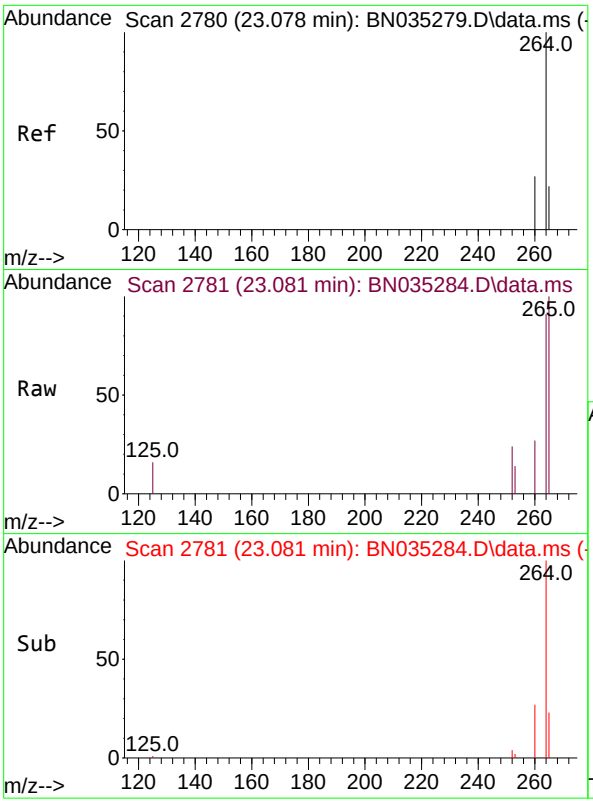


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.041 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:149 Resp: 520

Ion	Ratio	Lower	Upper
149	100		
167	35.4	0.0	0.0#
279	17.1	13.0	19.6

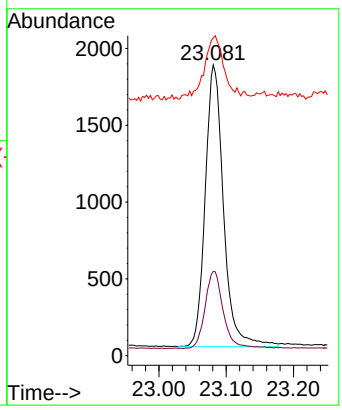




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:264 Resp: 347

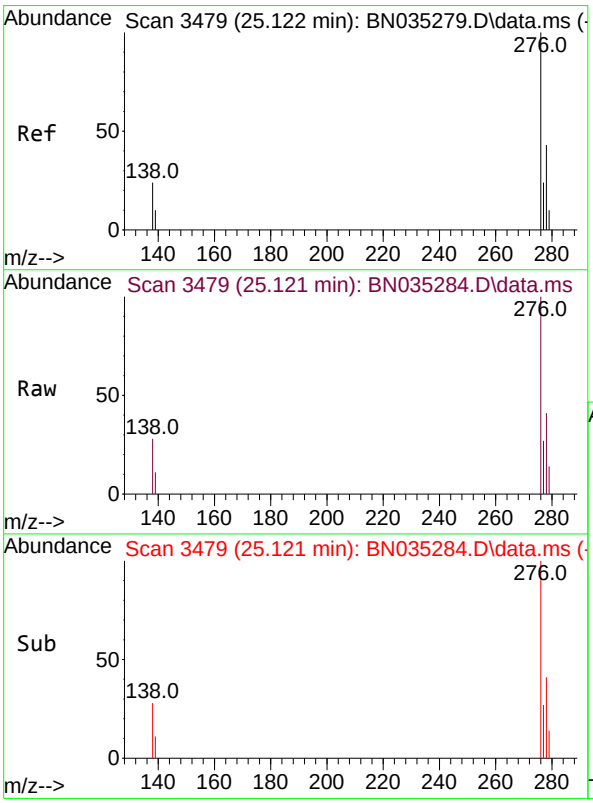
Ion	Ratio	Lower	Upper
264	100		
260	29.0	22.3	33.5
265	109.3	68.6	103.0



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations
APPROVED

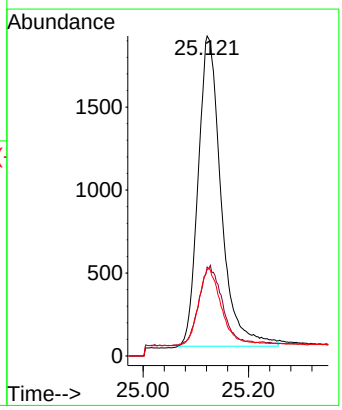
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

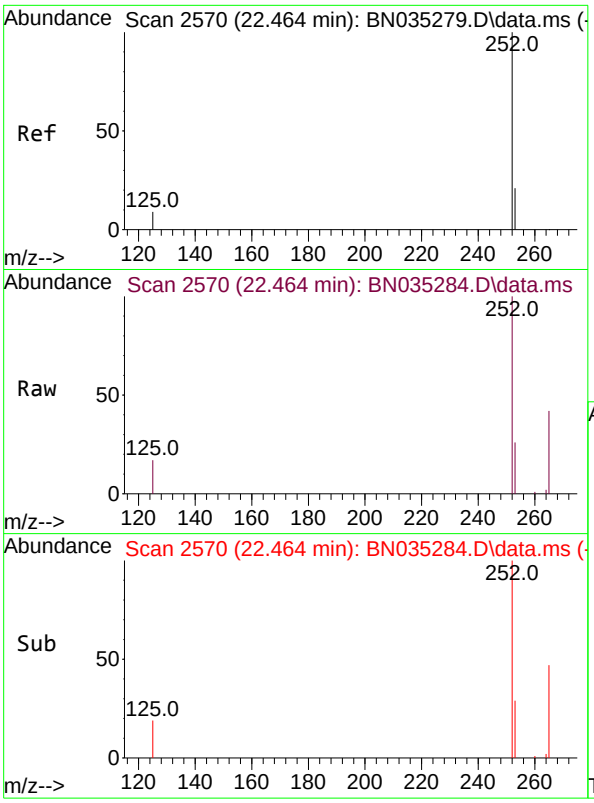


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.398 ng
RT: 25.121 min Scan# 3479
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:276 Resp: 5652

Ion	Ratio	Lower	Upper
276	100		
138	23.1	18.8	28.2
277	23.0	18.2	27.4

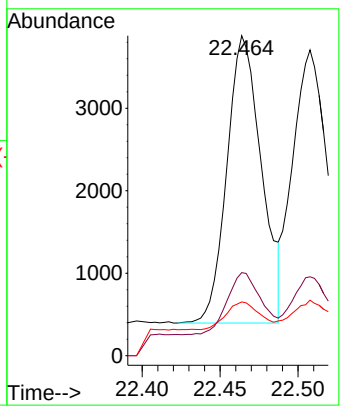




#37
Benzo(b)fluoranthene
Concen: 0.355 ng
RT: 22.464 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:252 Resp: 535

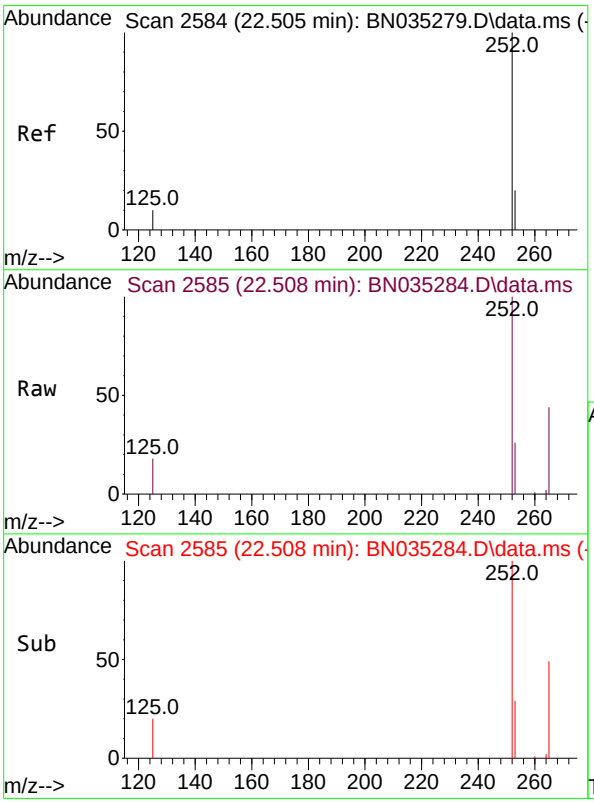
Ion	Ratio	Lower	Upper
252	100		
253	26.0	20.2	30.2
125	16.8	12.0	18.0



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations APPROVED

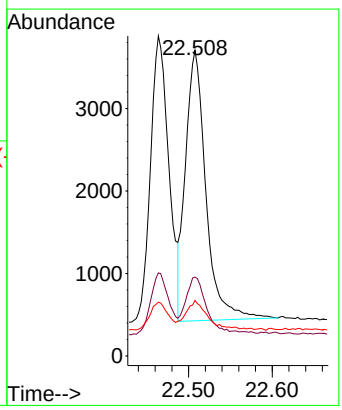
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

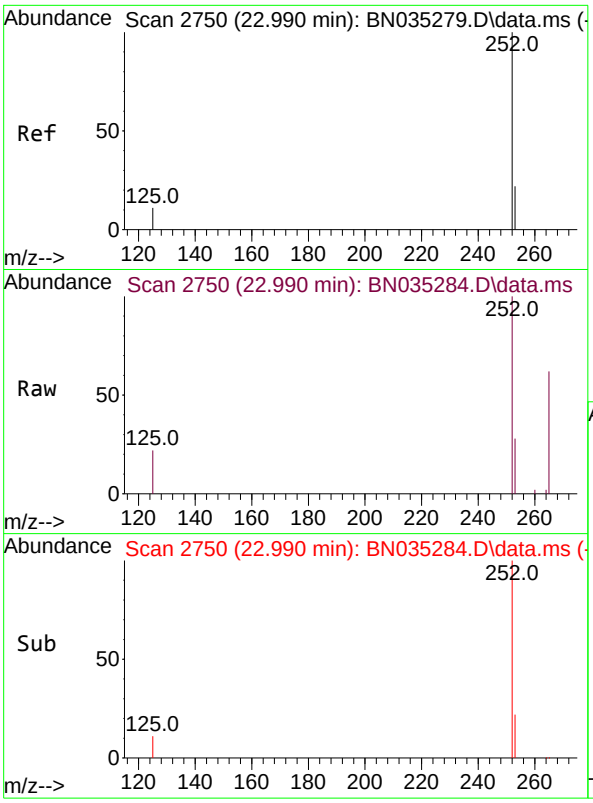


#38
Benzo(k)fluoranthene
Concen: 0.348 ng
RT: 22.508 min Scan# 2585
Delta R.T. 0.003 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:252 Resp: 5559

Ion	Ratio	Lower	Upper
252	100		
253	25.8	20.1	30.1
125	18.1	12.7	19.1

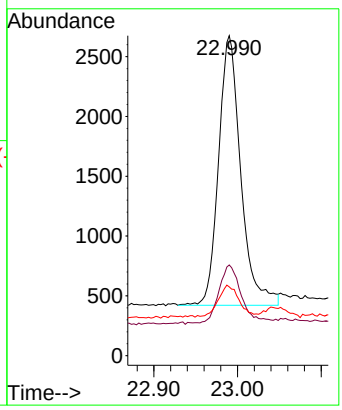




#39
Benzo(a)pyrene
Concen: 0.361 ng
RT: 22.990 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:252 Resp: 416

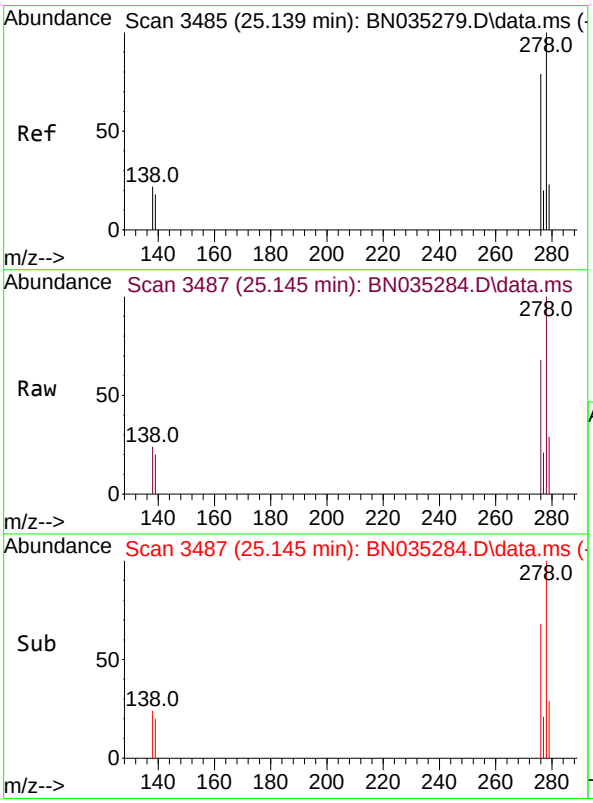
Ion	Ratio	Lower	Upper
252	100		
253	28.3	22.3	33.5
125	21.5	15.3	22.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations
APPROVED

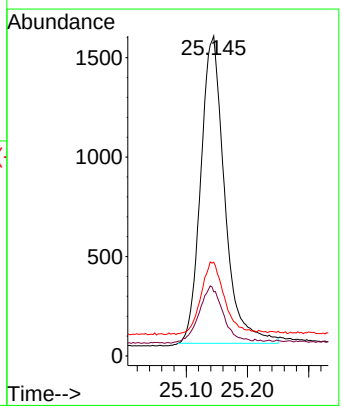
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

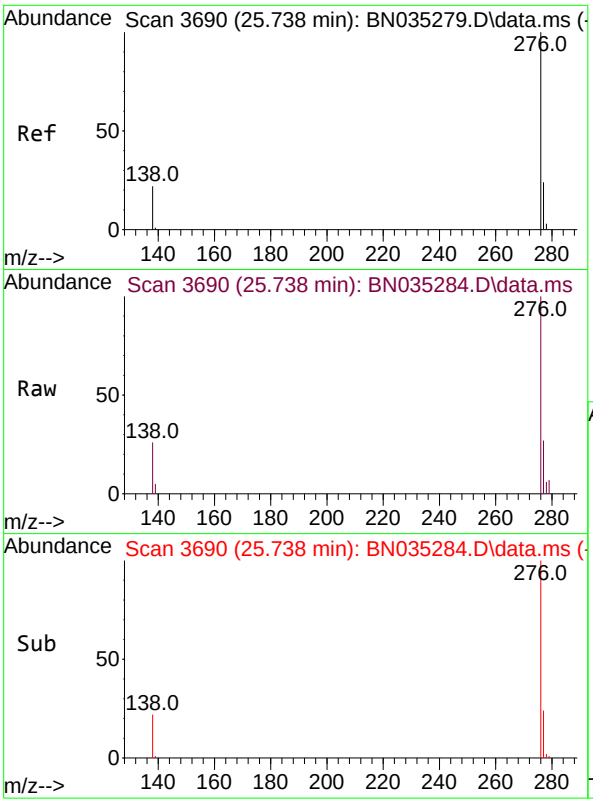


#40
Dibenzo(a,h)anthracene
Concen: 0.389 ng
RT: 25.145 min Scan# 3487
Delta R.T. 0.006 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:278 Resp: 4182

Ion	Ratio	Lower	Upper
278	100		
139	20.1	17.0	25.6
279	29.3	23.0	34.4

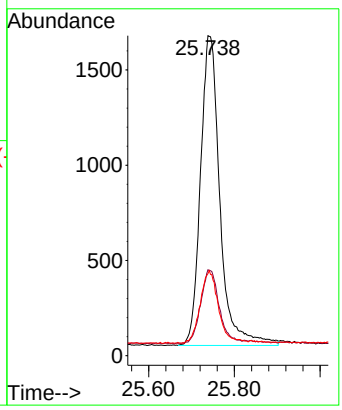




#41
Benzo(g,h,i)perylene
Concen: 0.412 ng
RT: 25.738 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:276 Resp: 512

Ion	Ratio	Lower	Upper
276	100		
277	26.8	21.1	31.7
138	25.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035284.D
Acq On : 25 Nov 2024 14:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Quant Time: Nov 25 22:35:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 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	115	0.00
2		1,4-Dioxane	0.288	0.274	4.9	109	0.00
3		n-Nitrosodimethylamine	0.298	0.321	-7.7	130	0.00
4	S	2-Fluorophenol	0.756	0.680	10.1	99	0.00
5	S	Phenol-d6	1.056	0.919	13.0	95	0.00
6		bis(2-Chloroethyl)ether	0.889	0.846	4.8	108	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	105	0.00
8	S	Nitrobenzene-d5	0.324	0.381	-17.6	115	0.00
9		Naphthalene	1.110	1.068	3.8	103	0.00
10		Hexachlorobutadiene	0.312	0.345	-10.6	116	0.00
11	SURR	2-Methylnaphthalene-d10	0.560	0.471	15.9	92	0.00
12		2-Methylnaphthalene	0.726	0.589	18.9	91	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	90	0.00
14	S	2,4,6-Tribromophenol	0.204	0.205	-0.5	103	0.00
15	S	2-Fluorobiphenyl	0.221	0.257	-16.3	95	0.00
16		Acenaphthylene	2.013	1.946	3.3	93	0.00
17		Acenaphthene	1.267	1.214	4.2	93	0.00
18		Fluorene	1.777	1.577	11.3	87	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00
20		4,6-Dinitro-2-methylphenol	0.041	0.042	-2.4	103	0.00
21		4-Bromophenyl-phenylether	0.254	0.231	9.1	82	0.00
22		Hexachlorobenzene	0.363	0.446	-22.9	106	0.00
23		Atrazine	0.107	0.112	-4.7	93	0.00
24		Pentachlorophenol	0.087	0.089	-2.3	94	0.00
25		Phenanthrene	1.229	1.111	9.6	82	0.00
26		Anthracene	1.055	0.844	20.0	77	0.00
27	SURR	Fluoranthene-d10	1.070	0.917	14.3	79	0.00
28		Fluoranthene	1.550	1.163	25.0	72	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	104	0.00
30		Pyrene	14.551	10.679	26.6#	73	0.00
31	S	Terphenyl-d14	7.392	5.216	29.4#	75	0.00
32		Benzo(a)anthracene	13.920	9.491	31.8#	72	0.00
33		Chrysene	13.920	9.491	31.8#	72	0.00
34		Bis(2-ethylhexyl)phthalate	0.765	0.851	-11.2	98	0.00
35	I	Perylene-d12	1.000	1.000	0.0	74	0.00
36		Indeno(1,2,3-cd)pyrene	1.638	1.629	0.5	79	0.00
37		Benzo(b)fluoranthene	1.738	1.544	11.2	79	0.00
38		Benzo(k)fluoranthene	1.839	1.602	12.9	73	0.00
39	C	Benzo(a)pyrene	1.329	1.201	9.6	78	0.00
40		Dibenzo(a,h)anthracene	1.238	1.205	2.7	81	0.00
41		Benzo(g,h,i)perylene	1.432	1.476	-3.1	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035284.D
Acq On : 25 Nov 2024 14:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Quant Time: Nov 25 22:35:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 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	115	0.00
2		1,4-Dioxane	0.400	0.381	4.8	109	0.00
3		n-Nitrosodimethylamine	0.400	0.431	-7.7	130	0.00
4	S	2-Fluorophenol	0.400	0.360	10.0	99	0.00
5	S	Phenol-d6	0.400	0.348	13.0	95	0.00
6		bis(2-Chloroethyl)ether	0.400	0.381	4.8	108	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	105	0.00
8	S	Nitrobenzene-d5	0.400	0.469	-17.2	115	0.00
9		Naphthalene	0.400	0.385	3.8	103	0.00
10		Hexachlorobutadiene	0.400	0.442	-10.5	116	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.337	15.8	92	0.00
12		2-Methylnaphthalene	0.400	0.325	18.8	91	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	90	0.00
14	S	2,4,6-Tribromophenol	0.400	0.402	-0.5	103	0.00
15	S	2-Fluorobiphenyl	0.400	0.465	-16.3	95	0.00
16		Acenaphthylene	0.400	0.387	3.3	93	0.00
17		Acenaphthene	0.400	0.383	4.3	93	0.00
18		Fluorene	0.400	0.355	11.3	87	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	83	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.477	-19.2	103	0.00
21		4-Bromophenyl-phenylether	0.400	0.364	9.0	82	0.00
22		Hexachlorobenzene	0.400	0.491	-22.7	106	0.00
23		Atrazine	0.400	0.419	-4.7	93	0.00
24		Pentachlorophenol	0.400	0.407	-1.7	94	0.00
25		Phenanthrene	0.400	0.362	9.5	82	0.00
26		Anthracene	0.400	0.320	20.0	77	0.00
27	SURR	Fluoranthene-d10	0.400	0.343	14.2	79	0.00
28		Fluoranthene	0.400	0.300	25.0#	72	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	104	0.00
30		Pyrene	0.400	0.294	26.5#	73	0.00
31	S	Terphenyl-d14	0.400	0.282	29.5#	75	0.00
32		Benzo(a)anthracene	0.400	0.273	31.8#	72	0.00
33		Chrysene	0.400	0.273	31.8#	72	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.041	89.8#	98	0.00
35	I	Perylene-d12	0.400	0.400	0.0	74	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.398	0.5	79	0.00
37		Benzo(b)fluoranthene	0.400	0.355	11.3	79	0.00
38		Benzo(k)fluoranthene	0.400	0.348	13.0	73	0.00
39	C	Benzo(a)pyrene	0.400	0.361	9.8	78	0.00
40		Dibenzo(a,h)anthracene	0.400	0.389	2.8	81	0.00
41		Benzo(g,h,i)perylene	0.400	0.412	-3.0	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN035350.D 0.2 =BN035351.D 0.4 =BN035352.D 0.8 =BN035353.D 1.6 =BN035354.D 3.2 =BN035355.D 5.0 =BN035356.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	0.406	0.417	0.376	0.380	0.392	0.357	0.348	0.382	6.52
3)		n-Nitrosodimet...	0.334	0.302	0.326	0.315	0.332	0.310	0.309	0.319	3.92
4)	S	2-Fluorophenol	1.025	1.112	1.018	0.958	0.998	0.954	0.942	1.001	5.88
5)	S	Phenol-d6	1.227	1.186	1.193	1.143	1.235	1.215	1.229	1.204	2.69
6)		bis(2-Chloroet...	1.035	1.021	0.992	0.993	1.051	0.997	0.991	1.012	2.39
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.227	0.232	0.235	0.248	0.257	0.251	0.261	0.244	5.31
9)		Naphthalene	1.062	1.029	1.047	1.032	1.096	1.049	1.070	1.055	2.22
10)		Hexachlorobuta...	0.245	0.242	0.247	0.241	0.255	0.236	0.238	0.243	2.60
11)	SURR	2-Methylnaphth...	0.591	0.603	0.619	0.615	0.659	0.639	0.656	0.626	4.16
12)		2-Methylnaphth...	0.724	0.716	0.740	0.747	0.795	0.771	0.795	0.755	4.25
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.273	0.258	0.257	0.268	0.293	0.311	0.328	0.284	9.67
15)	S	2-Fluorobiphenyl	1.489	1.491	1.510	1.508	1.566	1.511	1.511	1.512	1.68
16)		Acenaphthylene	1.643	1.600	1.595	1.638	1.737	1.763	1.781	1.680	4.68
17)		Acenaphthene	1.121	1.084	1.086	1.108	1.145	1.122	1.140	1.115	2.17
18)		Fluorene	1.589	1.549	1.543	1.600	1.652	1.614	1.625	1.596	2.47
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.038	0.031	0.036	0.041	0.051			0.039	19.30
21)		4-Bromophenyl-...	0.226	0.218	0.226	0.233	0.249	0.242	0.244	0.234	4.85
22)		Hexachlorobenzene	0.265	0.266	0.273	0.276	0.288	0.278	0.277	0.275	2.82
23)		Atrazine	0.155	0.155	0.154	0.156	0.175	0.179	0.191	0.167	8.98
24)		Pentachlorophenol	0.140	0.090	0.095	0.103	0.121	0.136	0.150	0.120	19.86
25)		Phenanthrene	1.092	1.046	1.067	1.092	1.148	1.121	1.125	1.099	3.20
26)		Anthracene	0.964	0.923	0.940	0.973	1.050	1.042	1.064	0.994	5.76
27)	SURR	Fluoranthene-d10	1.203	1.086	1.077	1.105	1.165	1.138	1.164	1.134	4.10
28)		Fluoranthene	1.538	1.396	1.416	1.456	1.539	1.497	1.526	1.481	3.99
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.583	1.445	1.475	1.443	1.519	1.440	1.431	1.477	3.79
31)	S	Terphenyl-d14	0.832	0.777	0.791	0.771	0.812	0.772	0.769	0.789	3.08
32)		Benzo(a)anthra...	1.431	1.343	1.355	1.375	1.451	1.411	1.429	1.399	2.98
33)		Chrysene	1.463	1.452	1.441	1.415	1.487	1.422	1.420	1.443	1.84
34)		Bis(2-ethylhex...	0.710	0.558	0.516	0.505	0.520	0.516	0.544	0.553	12.96
35)	I	Perylene-d12	----------ISTD----------								

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M

36)		Indeno(1,2,3-c...	1.411	1.489	1.532	1.554	1.660	1.615	1.685	1.564	6.22
37)		Benzo(b)fluora...	1.305	1.348	1.313	1.378	1.827	1.463	1.608	1.463	13.12
38)		Benzo(k)fluora...	1.444	1.376	1.402	1.419	1.527	1.447	1.468	1.440	3.39
39)	C	Benzo(a)pyrene	1.204	1.156	1.146	1.171	1.256	1.232	1.271	1.205	4.11
40)		Dibenzo(a,h)an...	1.104	1.187	1.194	1.226	1.315	1.280	1.332	1.234	6.55
41)		Benzo(g,h,i)pe...	1.188	1.238	1.248	1.269	1.360	1.330	1.394	1.289	5.71

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

11/29/2024
Supervised By :mohammad ahmed

11/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng		0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng		0.00
35) Perylene-d12	23.067	264	13004	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	573	0.101	ng		0.00
5) Phenol-d6	6.513	99	686	0.096	ng		0.00
8) Nitrobenzene-d5	8.450	82	327m	0.065	ng		0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng		0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng		0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng		0.00
Target Compounds						Qvalue	
2) 1,4-Dioxane	3.003	88	227	0.112	ng	#	87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	#	90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng		98
9) Naphthalene	10.105	128	1527	0.102	ng	#	91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	#	97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng		96
16) Acenaphthylene	13.679	152	1675	0.096	ng		100
17) Acenaphthene	14.031	154	1143	0.100	ng		99
18) Fluorene	15.026	166	1620	0.096	ng		98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	#	29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	#	94
22) Hexachlorobenzene	16.041	284	720	0.100	ng		97
23) Atrazine	16.227	200	421	0.068	ng	#	86
24) Pentachlorophenol	16.401	266	381	0.114	ng		90
25) Phenanthrene	16.773	178	2963	0.104	ng		99
26) Anthracene	16.860	178	2617	0.100	ng		98
28) Fluoranthene	18.817	202	4173	0.106	ng		99
30) Pyrene	19.184	202	4461	0.119	ng		100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng		99
33) Chrysene	21.010	228	4123	0.106	ng		97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng		99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng		97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	#	82
38) Benzo(k)fluoranthene	22.494	252	4695m	0.107	ng		
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	#	69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	#	86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	#	93

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

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

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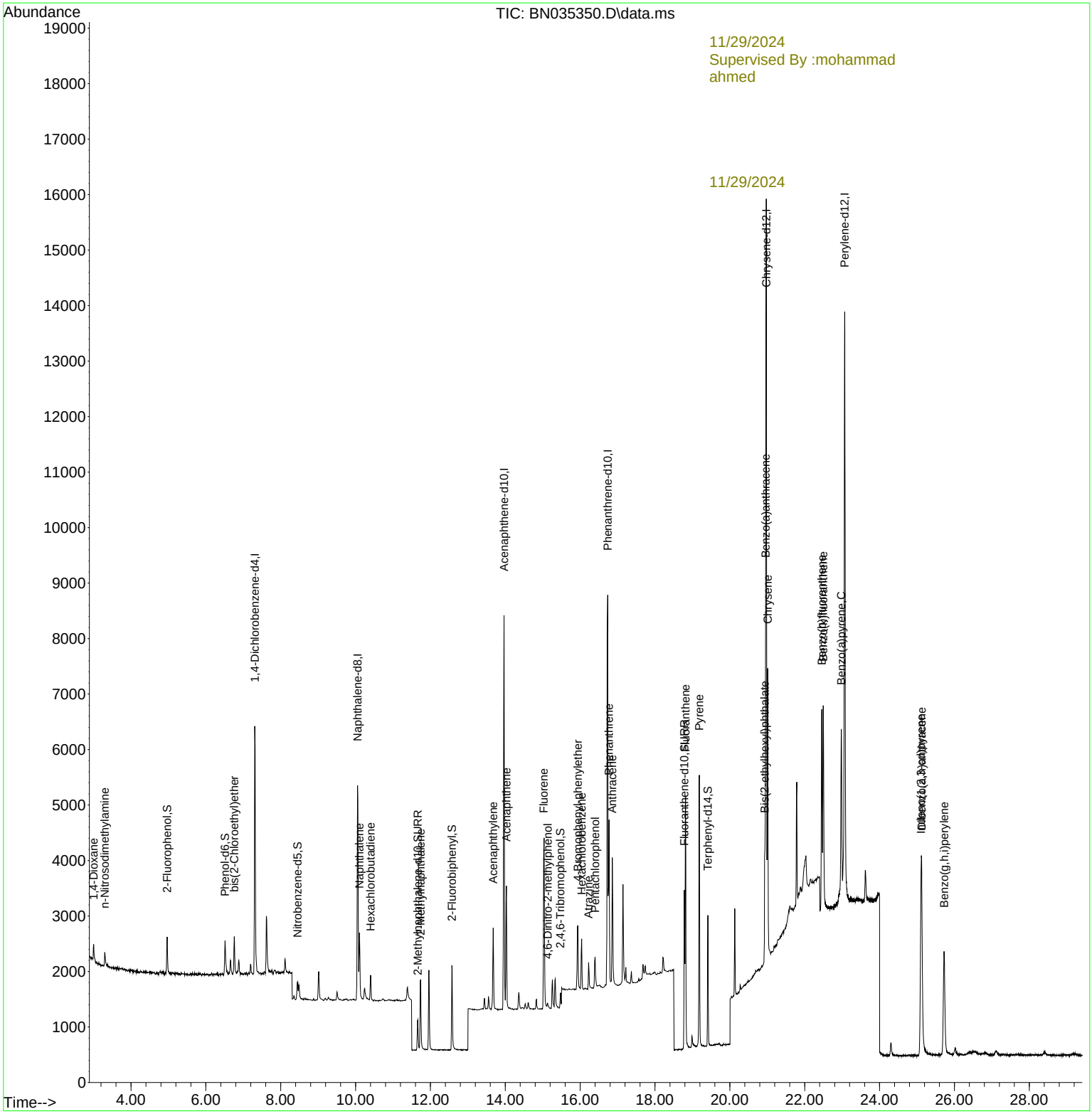
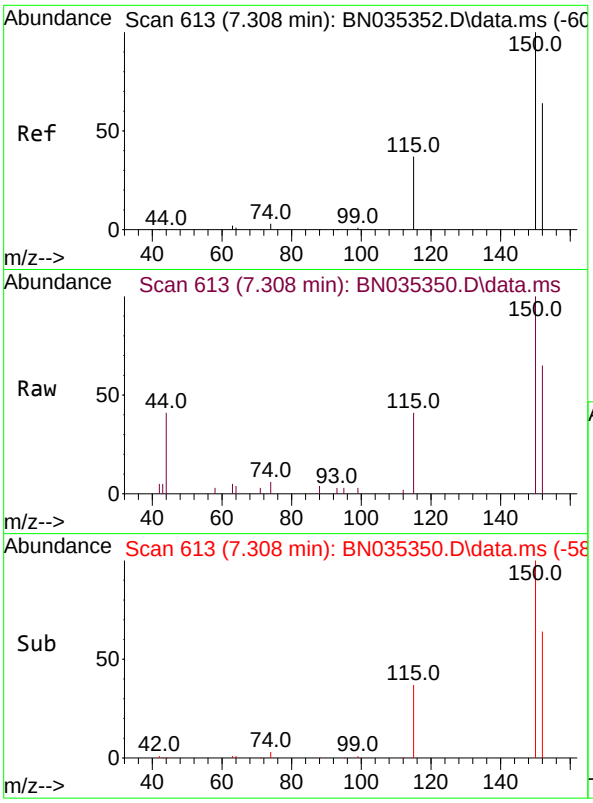
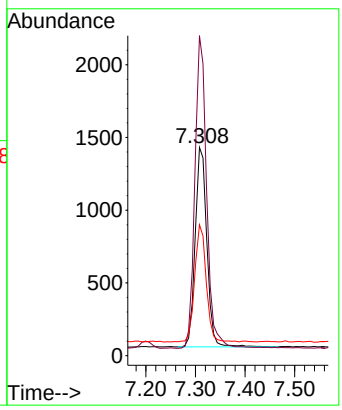




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 223

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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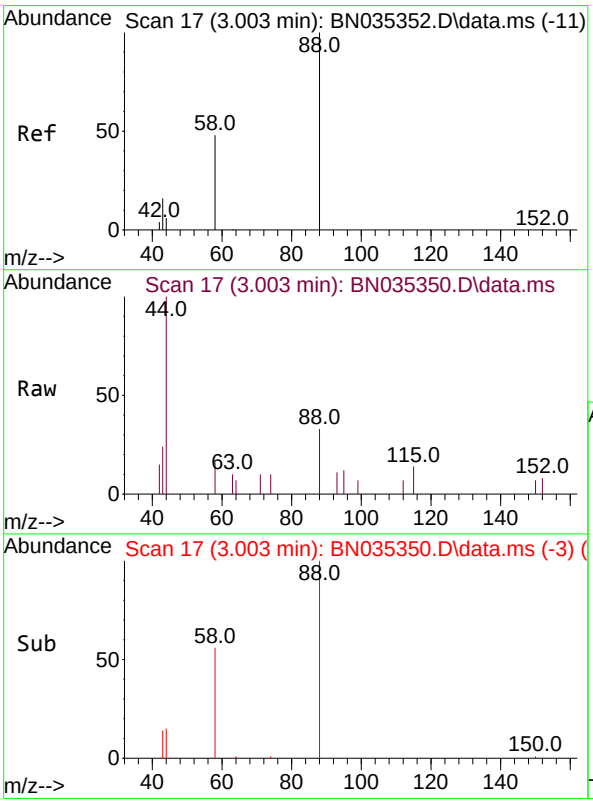
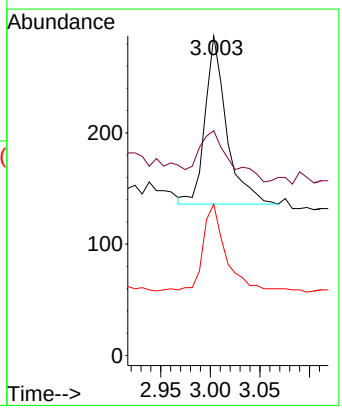
11/29/2024

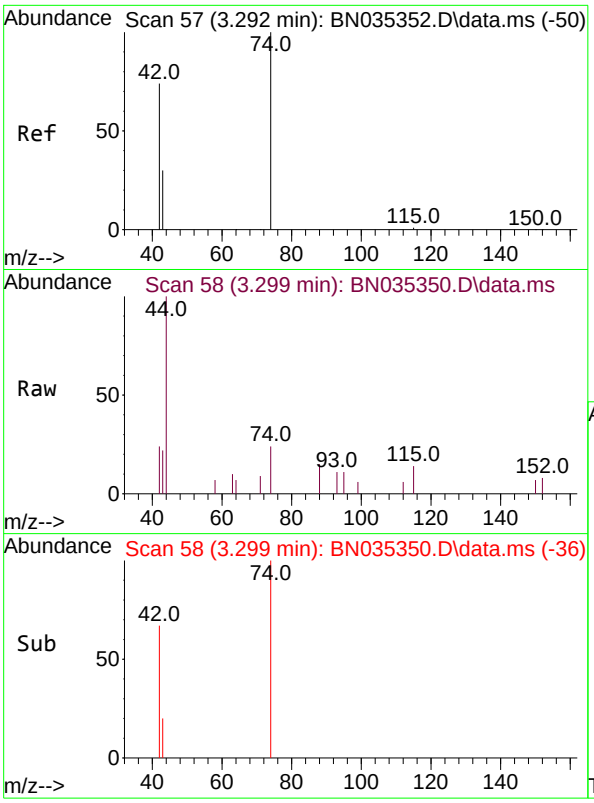


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227

Ion	Ratio	Lower	Upper
88	100		
43	41.4	17.2	25.8#
58	54.6	44.5	66.7

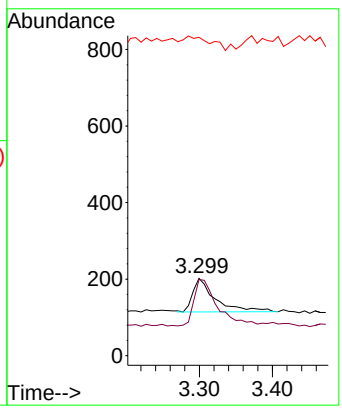




#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 42 Resp: 18

Ion	Ratio	Lower	Upper
42	100		
74	146.5	124.9	187.3
44	51.9	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

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Supervised By :mohammad ahmed 11/29/2024

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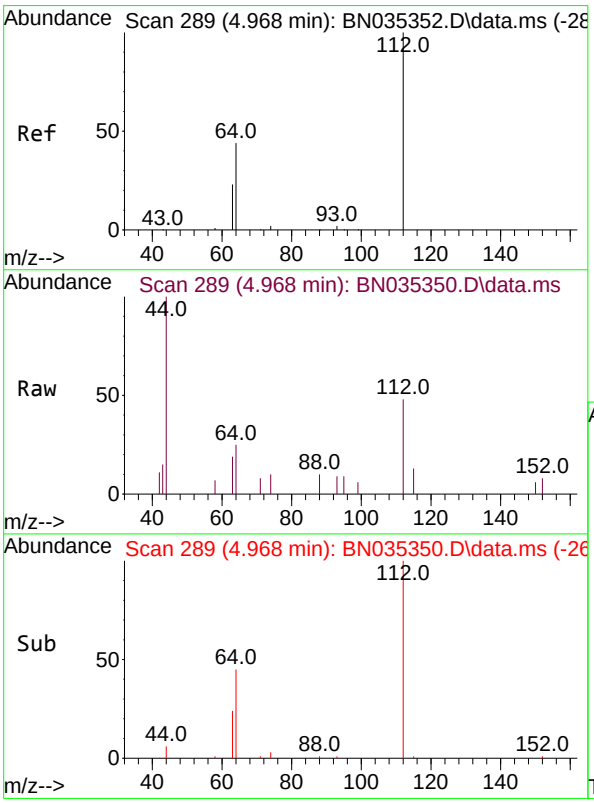
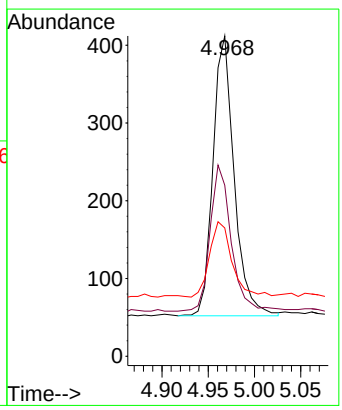
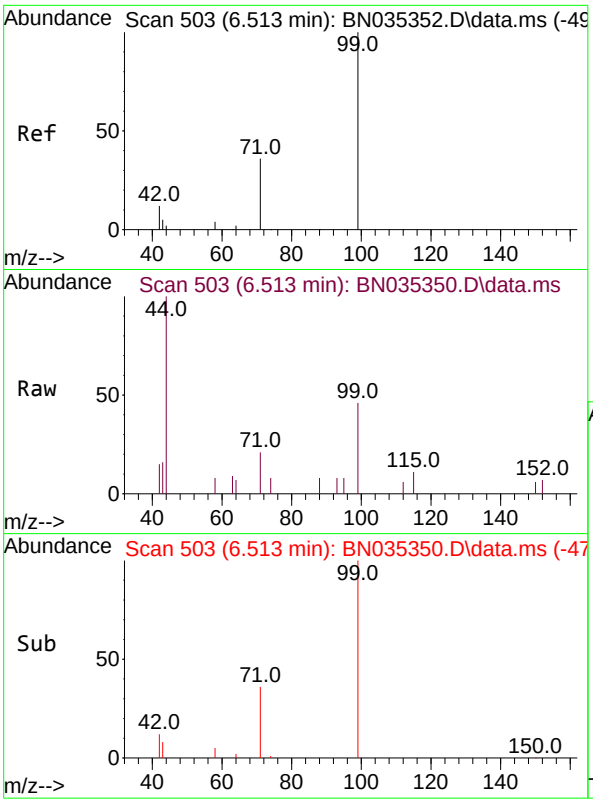


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.8	21.0	31.6

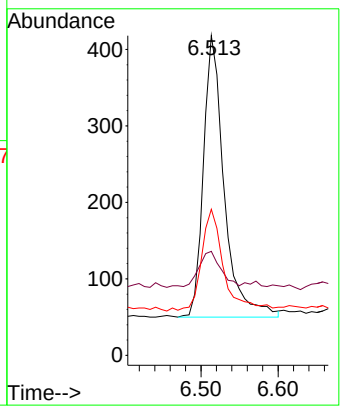




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 99 Resp: 68(

Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.9	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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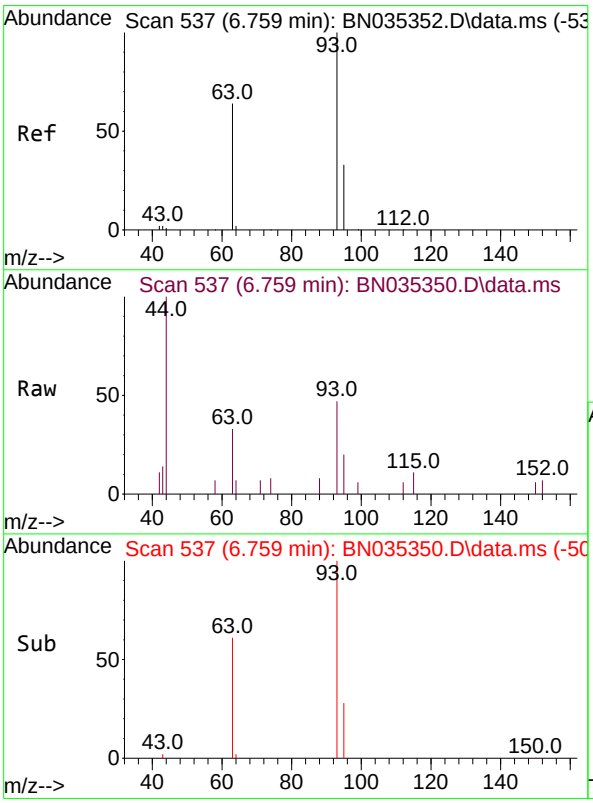
Supervised By :mohammad ahmed

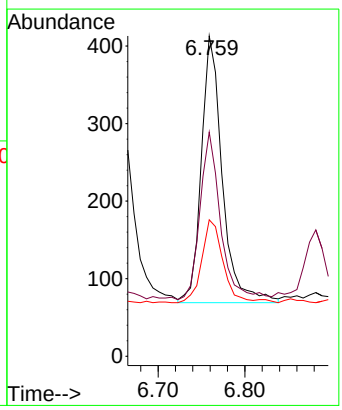
11/29/2024

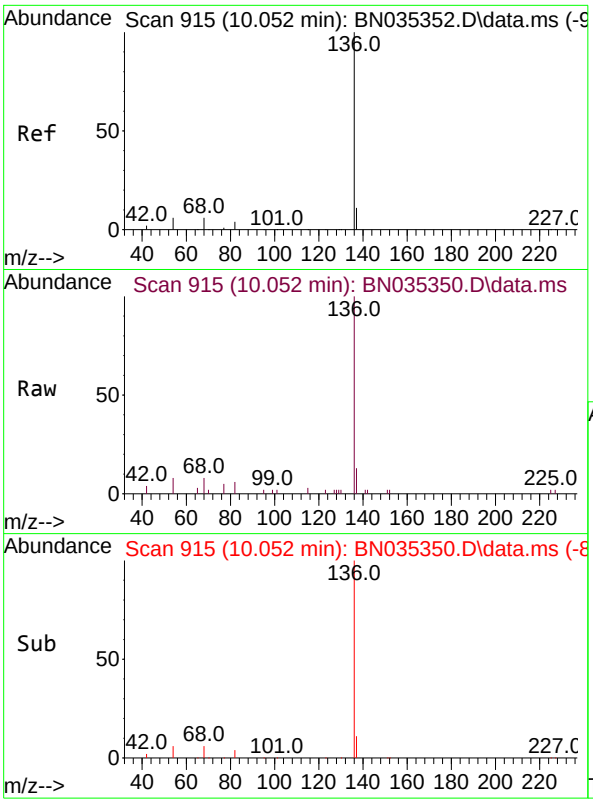


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

Ion	Ratio	Lower	Upper
93	100		
63	61.7	50.4	75.6
95	31.3	25.7	38.5

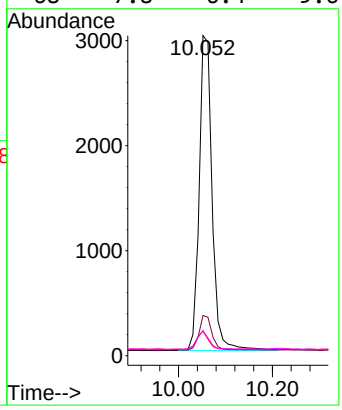




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:136 Resp: 575

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

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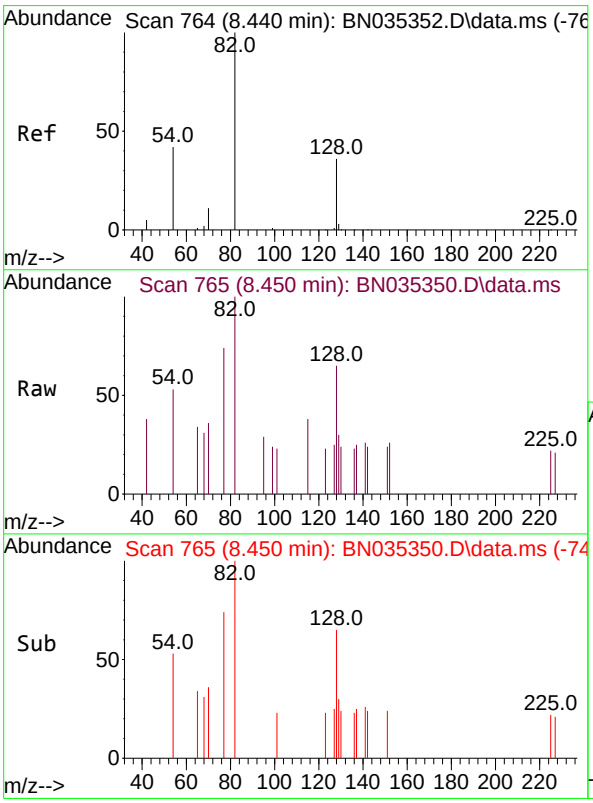
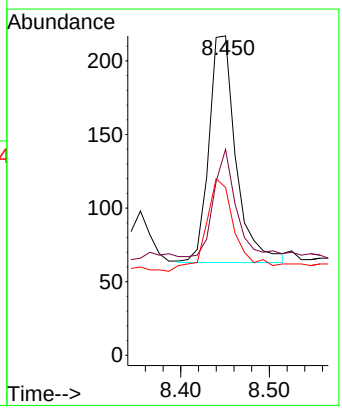
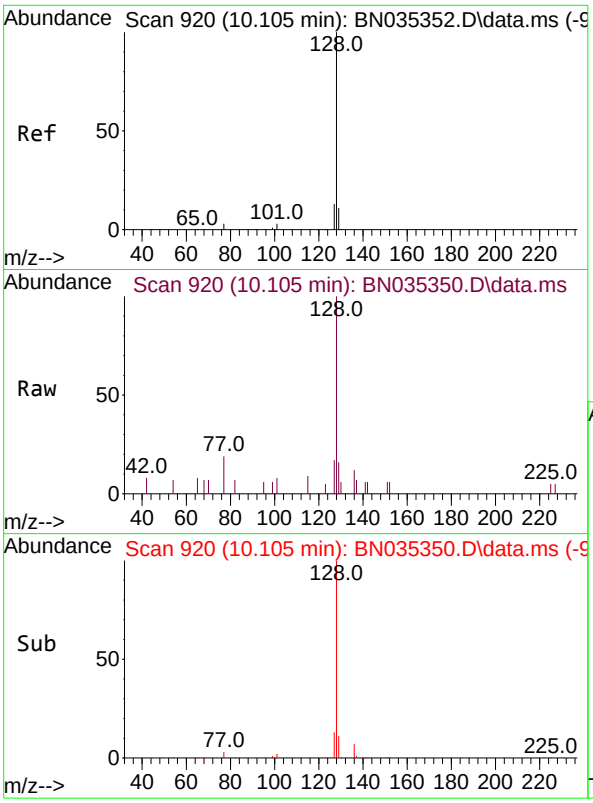


#8
Nitrobenzene-d5
Concen: 0.065 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 327

Ion	Ratio	Lower	Upper
82	100		
128	64.5	33.4	50.0#
54	52.5	36.7	55.1

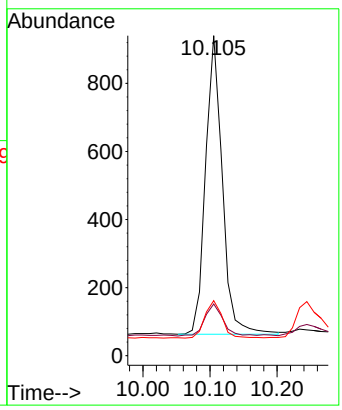




#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:128 Resp: 152

Ion	Ratio	Lower	Upper
128	100		
129	16.2	9.8	14.6#
127	17.2	11.4	17.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

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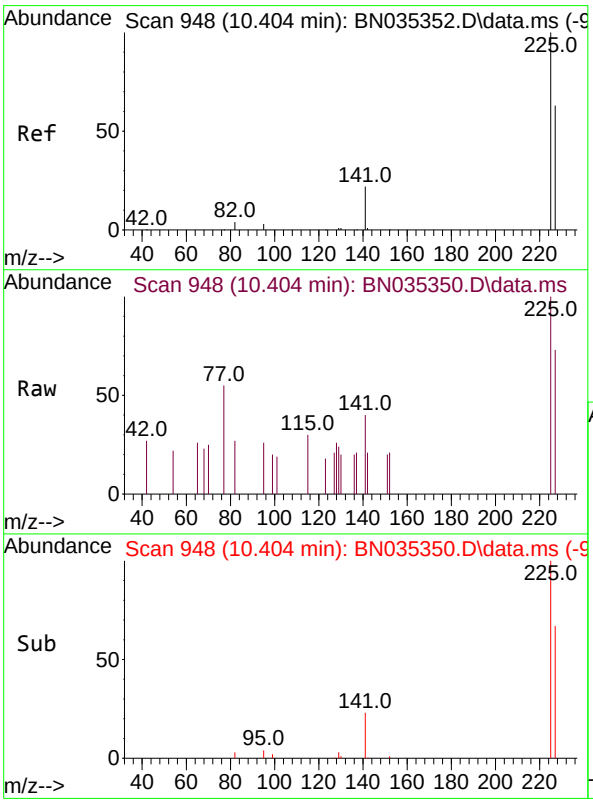
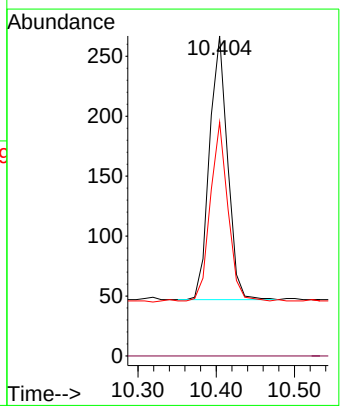
11/29/2024

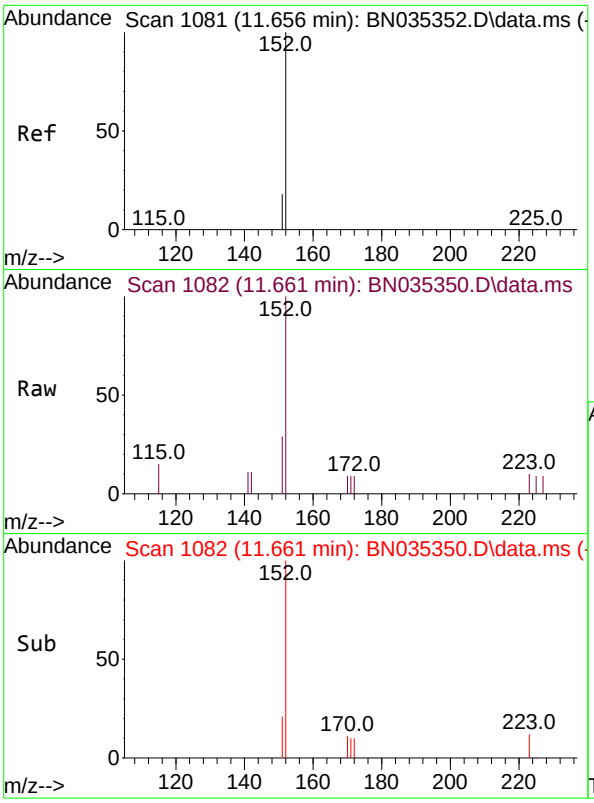


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	66.2	51.3	76.9

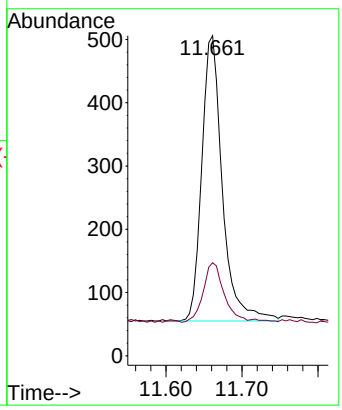




#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1(
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 85(

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

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Supervised By :mohammad ahmed

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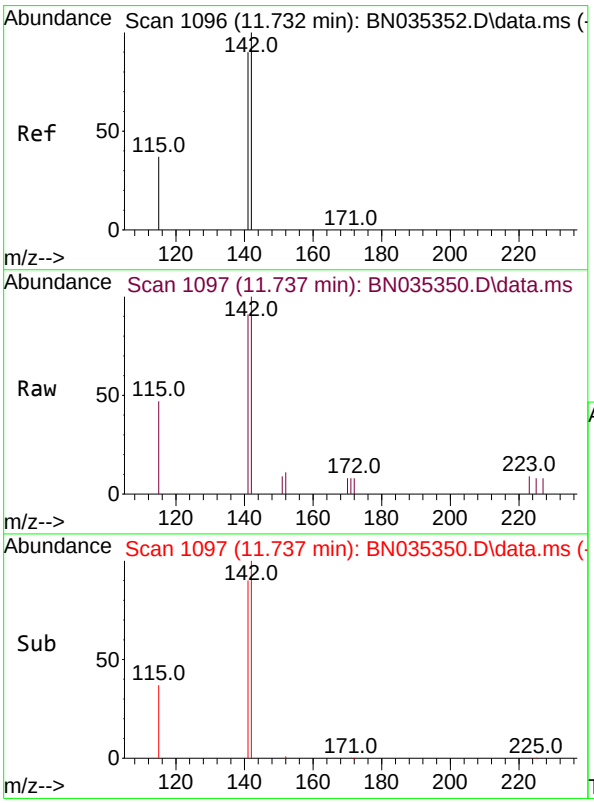
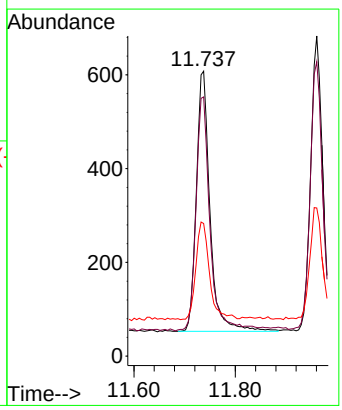
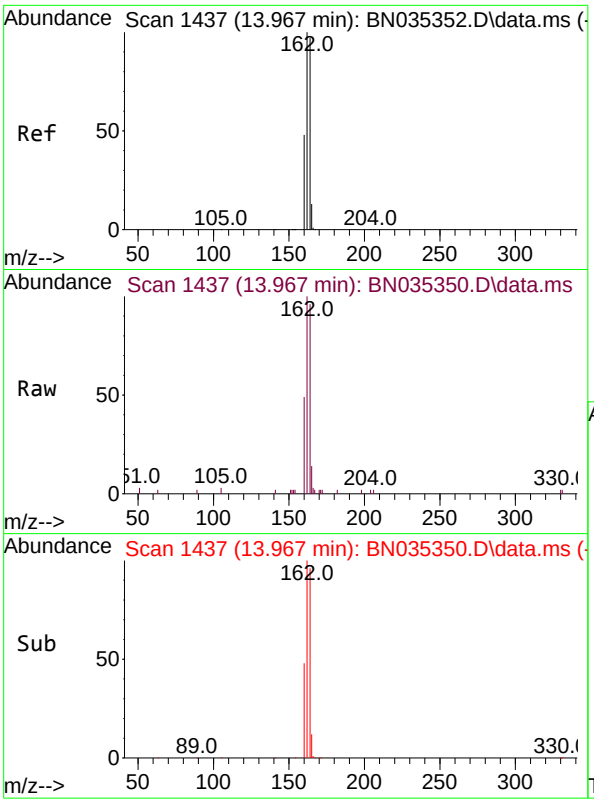


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	46.5	31.4	47.0

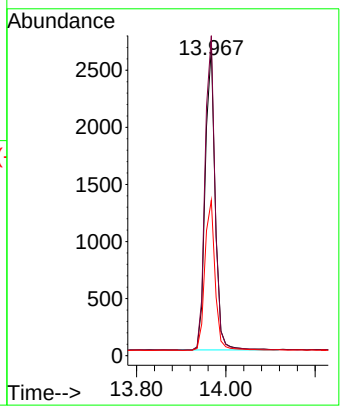




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:164 Resp: 407

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.4	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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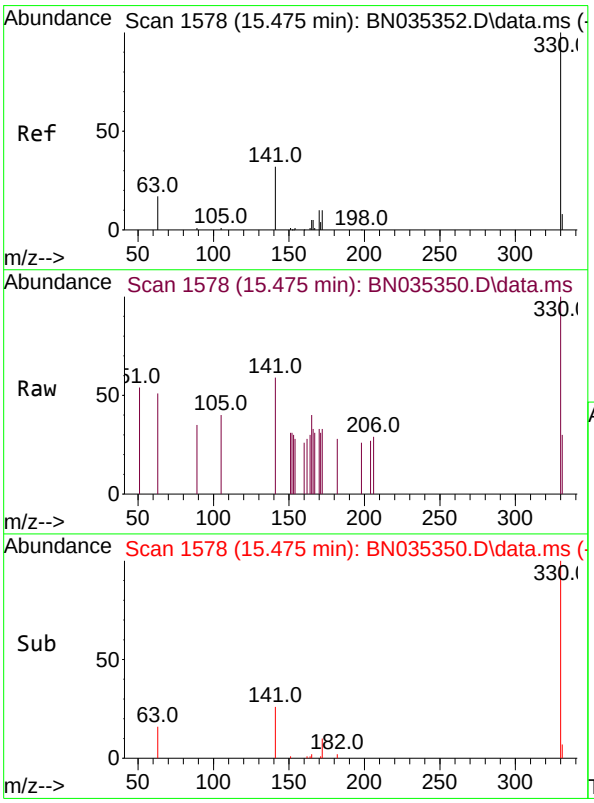
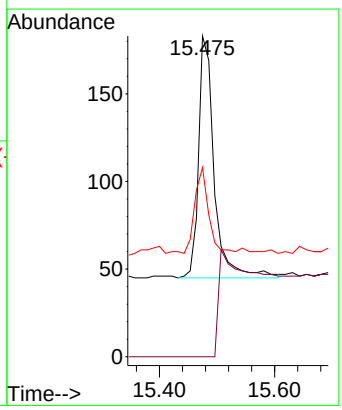
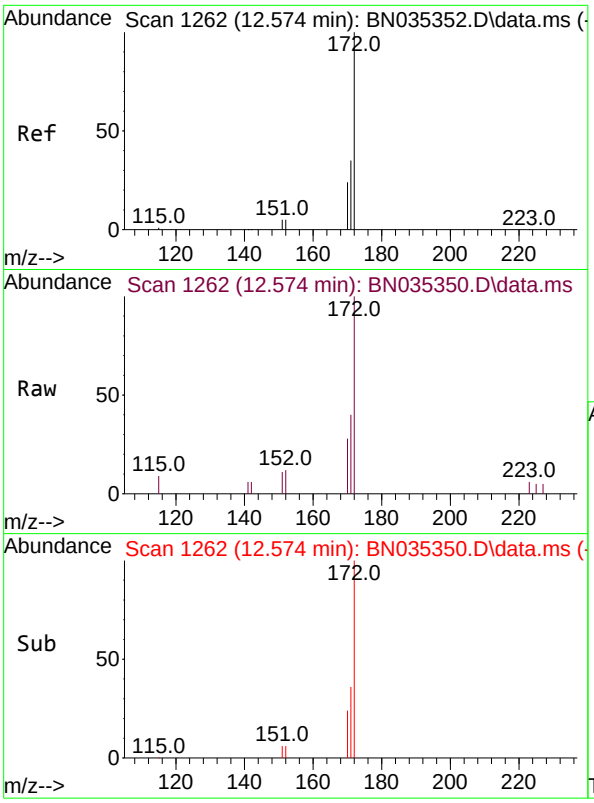


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0

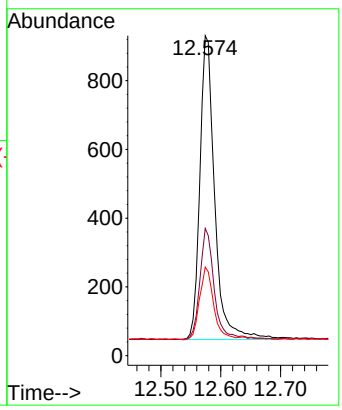




#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:172 Resp: 151

Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8



Instrument :
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ClientSampleId :
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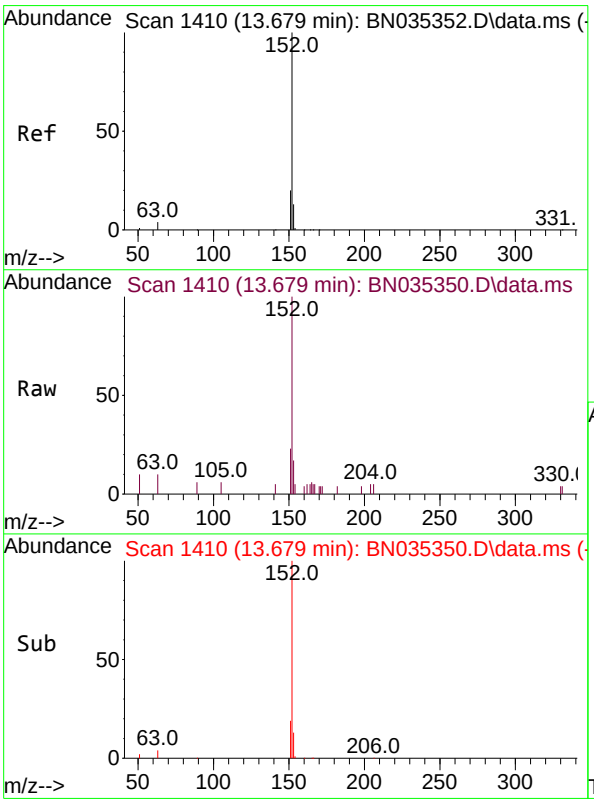
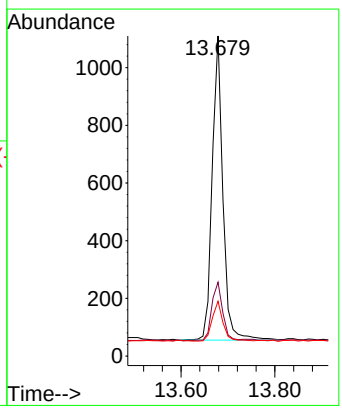
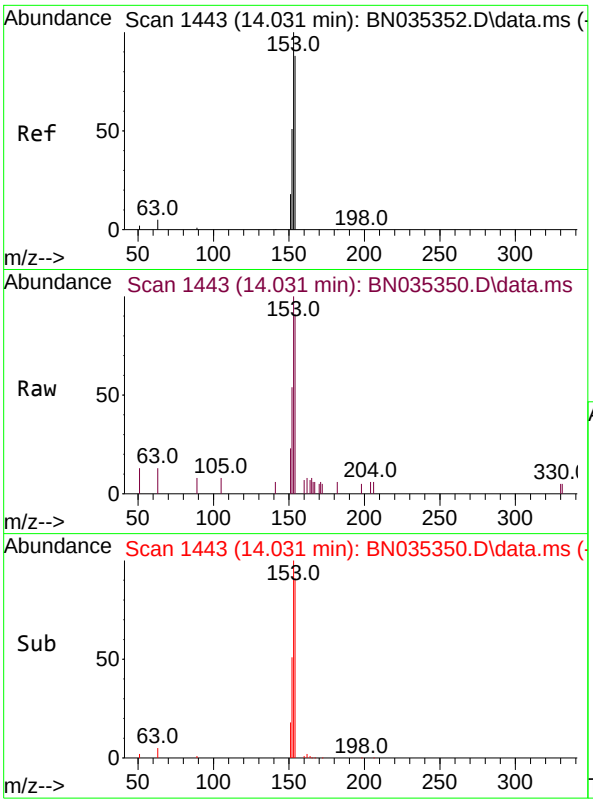


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.1	10.4	15.6

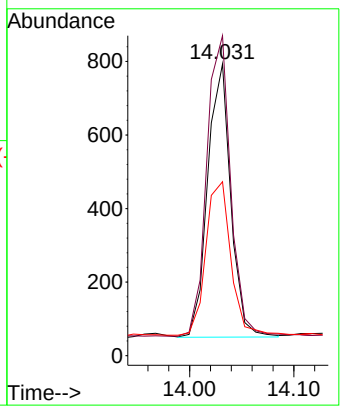




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:154 Resp: 114

Ion	Ratio	Lower	Upper
154	100		
153	115.0	92.6	139.0
152	60.9	49.0	73.6



Instrument :
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ClientSampleId :
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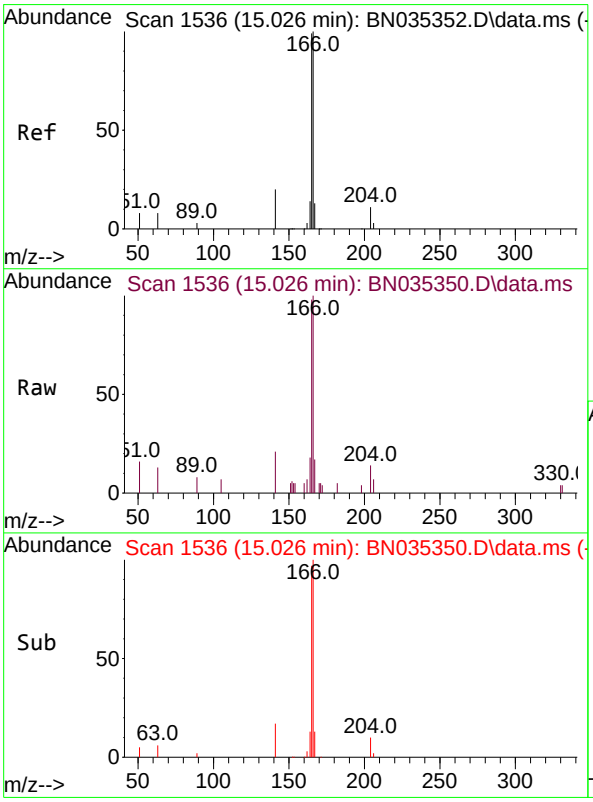
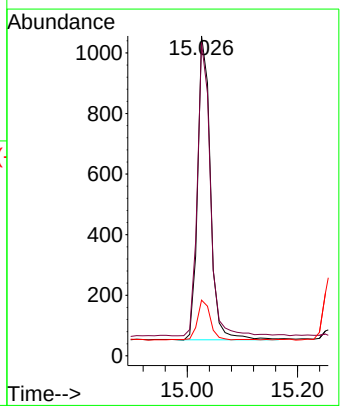
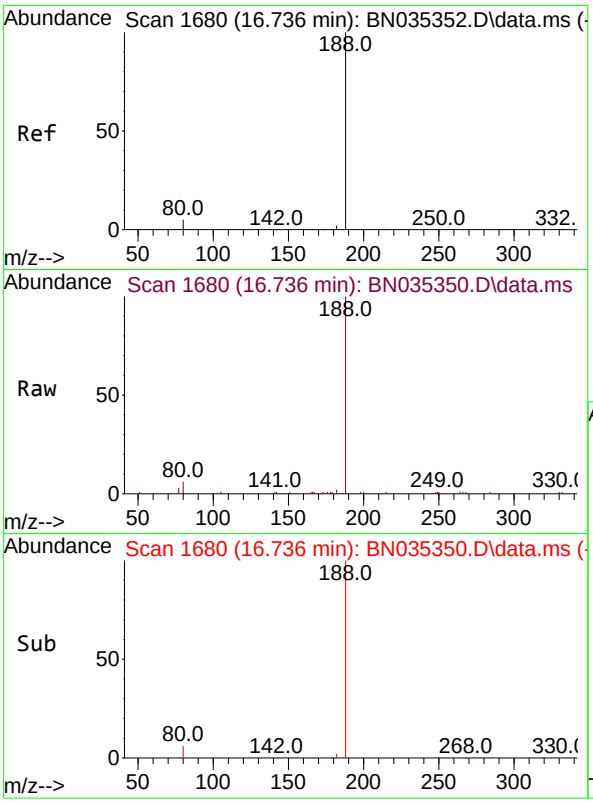


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

Ion	Ratio	Lower	Upper
166	100		
165	97.7	79.7	119.5
167	13.1	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:188 Resp: 1085

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.4	4.6	6.8

Instrument :
BNA_N
ClientSampleId :
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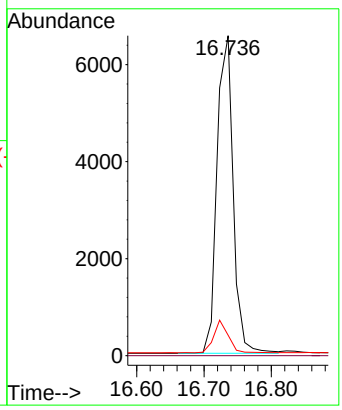

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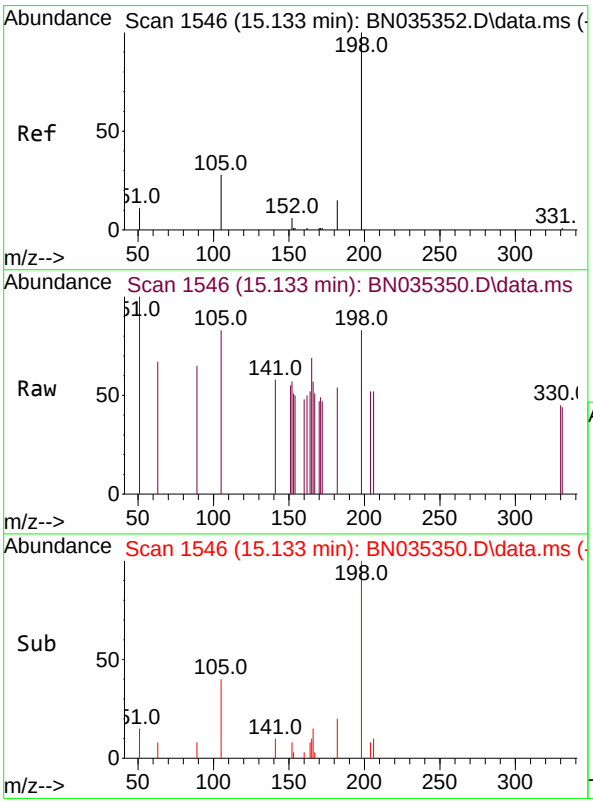
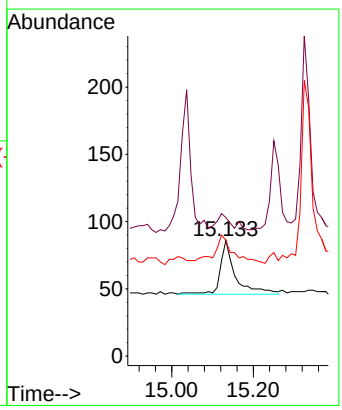
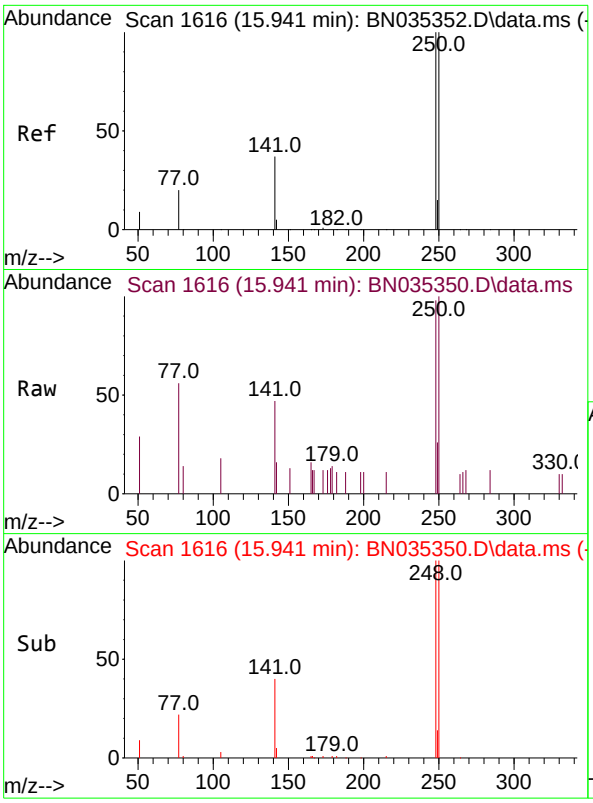


#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

Ion	Ratio	Lower	Upper
198	100		
51	119.8	46.5	69.7#
105	100.0	45.3	67.9#

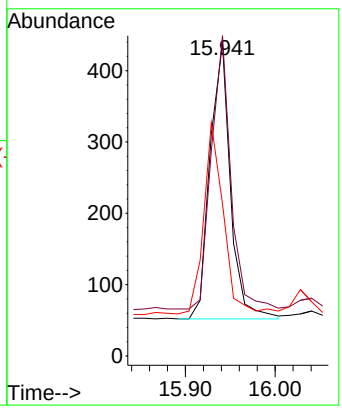




#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:248 Resp: 61

Ion	Ratio	Lower	Upper
248	100		
250	102.5	80.6	120.8
141	48.6	31.5	47.3



Instrument :
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ClientSampleId :
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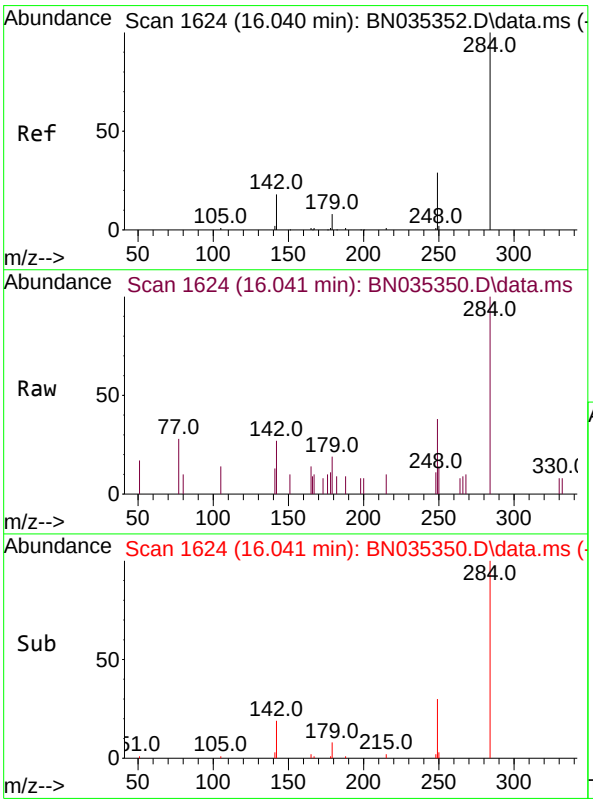
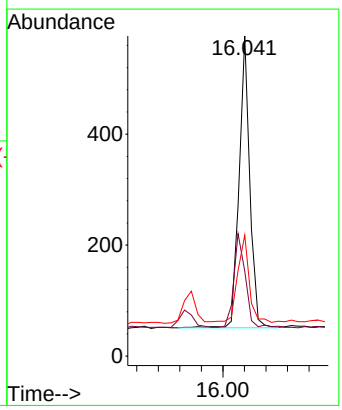
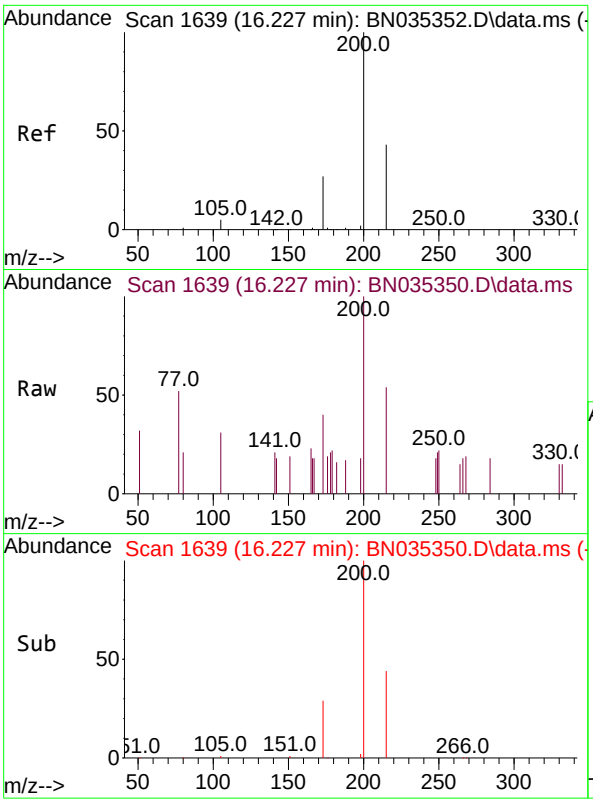


#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	32.2	24.6	36.8

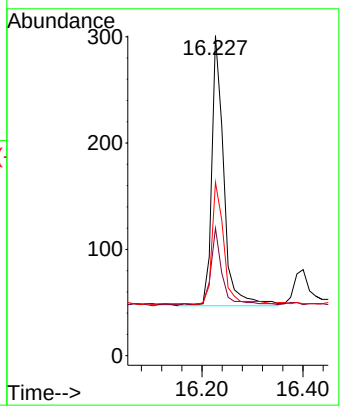




#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:200 Resp: 42

Ion	Ratio	Lower	Upper
200	100		
173	39.9	24.1	36.1
215	54.2	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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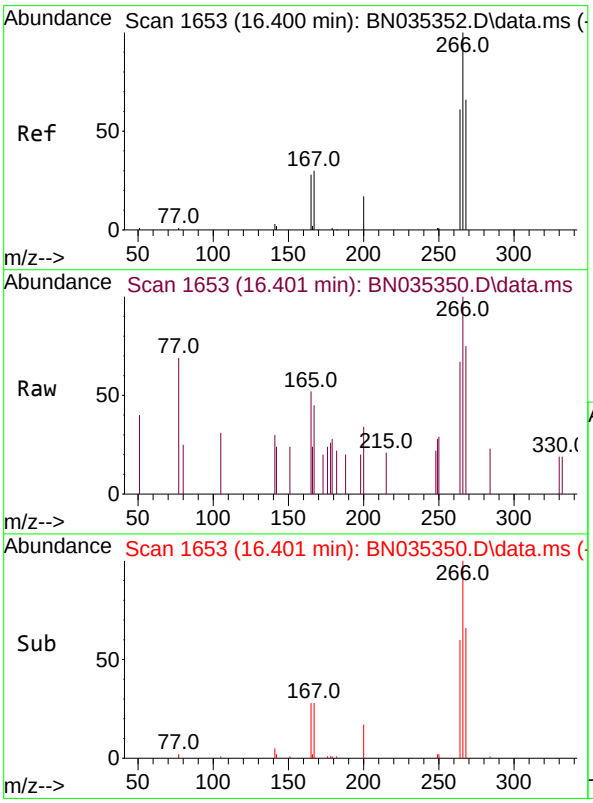
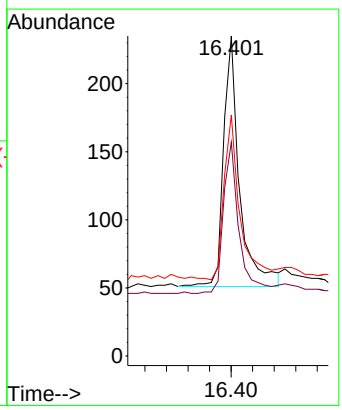
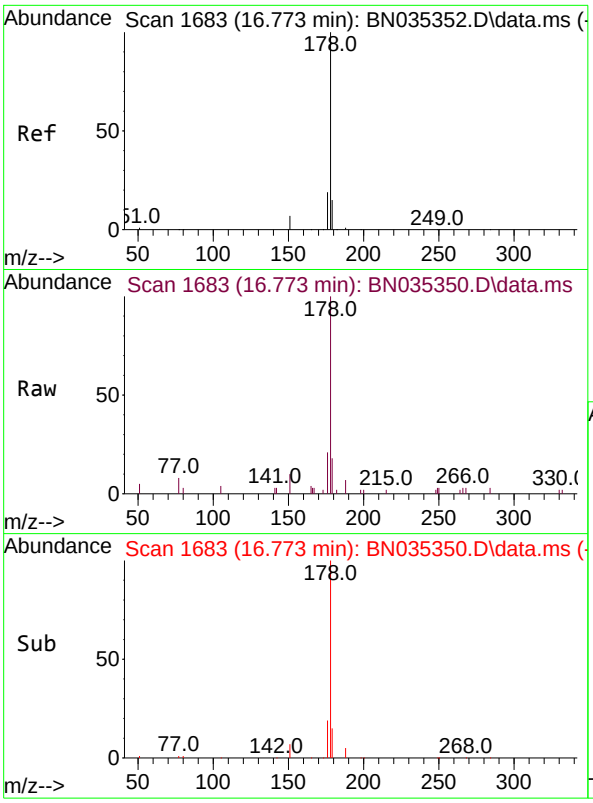


#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

Ion	Ratio	Lower	Upper
266	100		
264	58.3	42.3	63.5
268	63.3	43.3	64.9

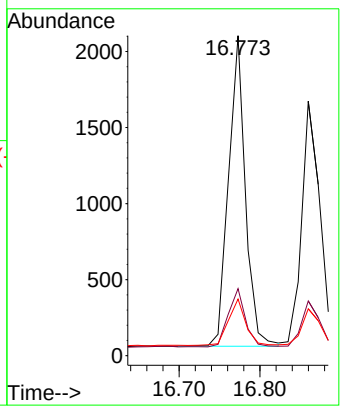




#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 296

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.6	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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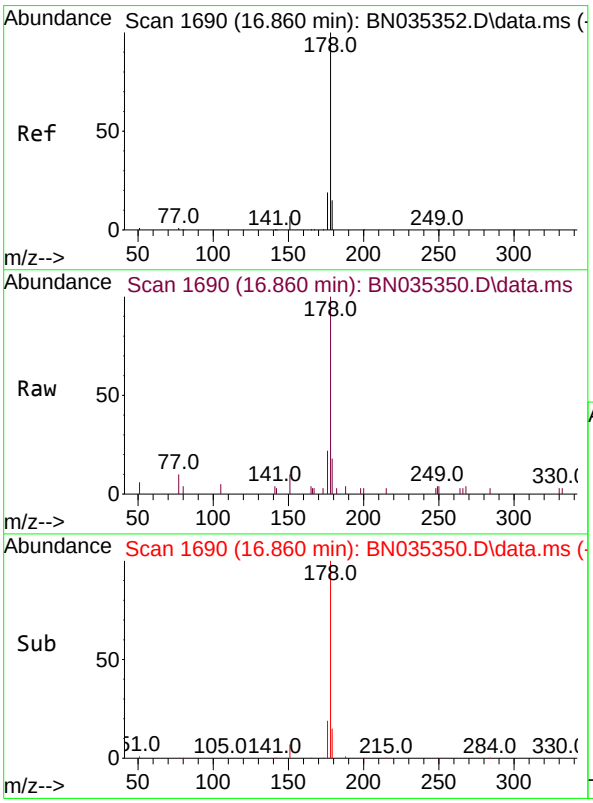
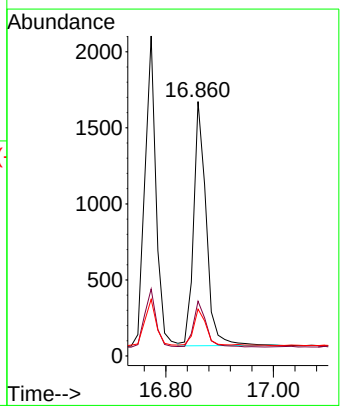
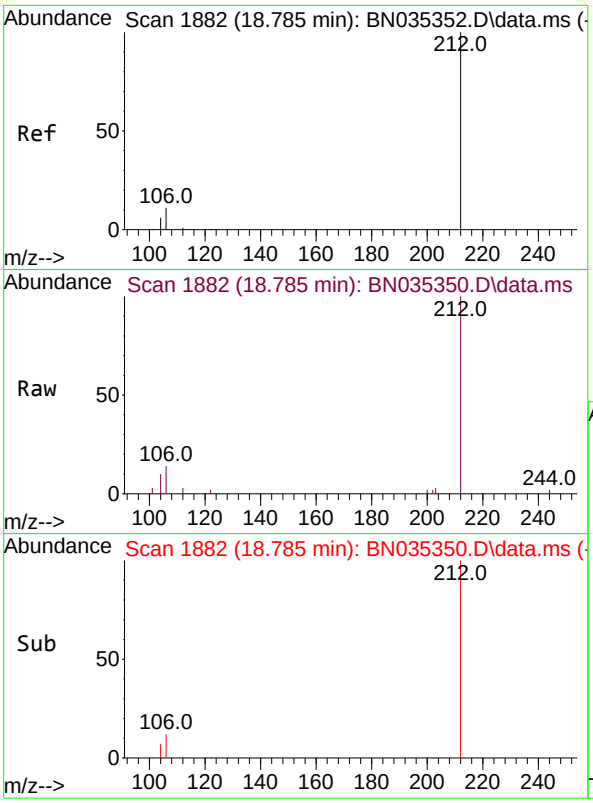


#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	14.3	12.6	18.8

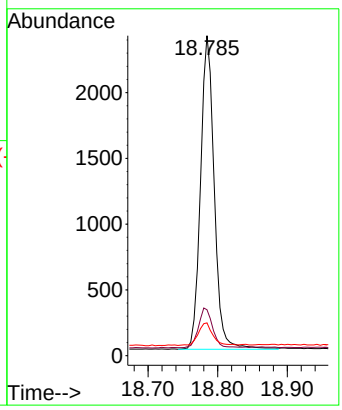




#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:212 Resp: 326

Ion	Ratio	Lower	Upper
212	100		
106	12.8	9.2	13.8
104	7.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
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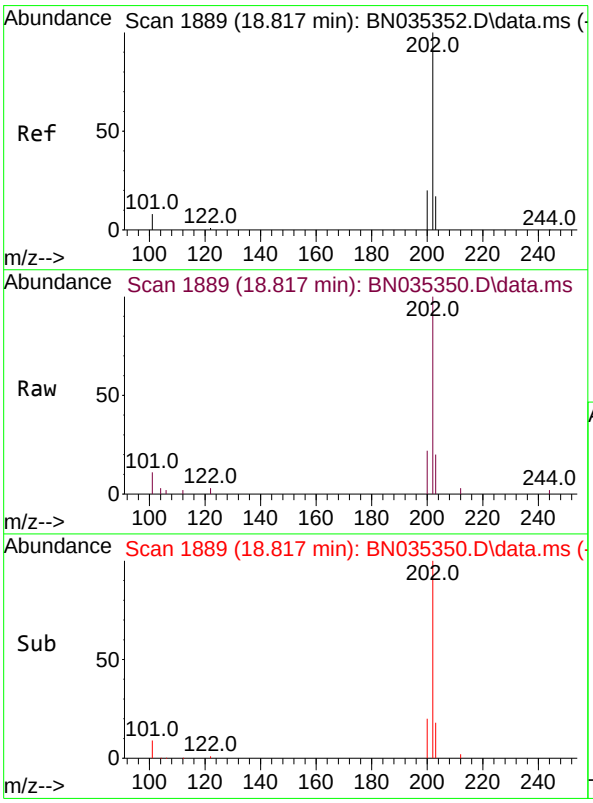
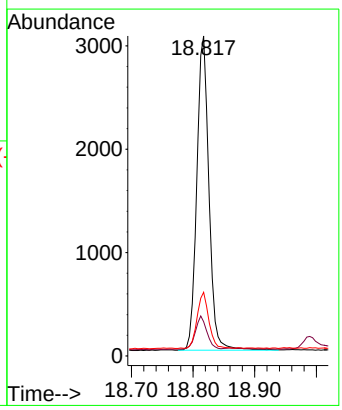
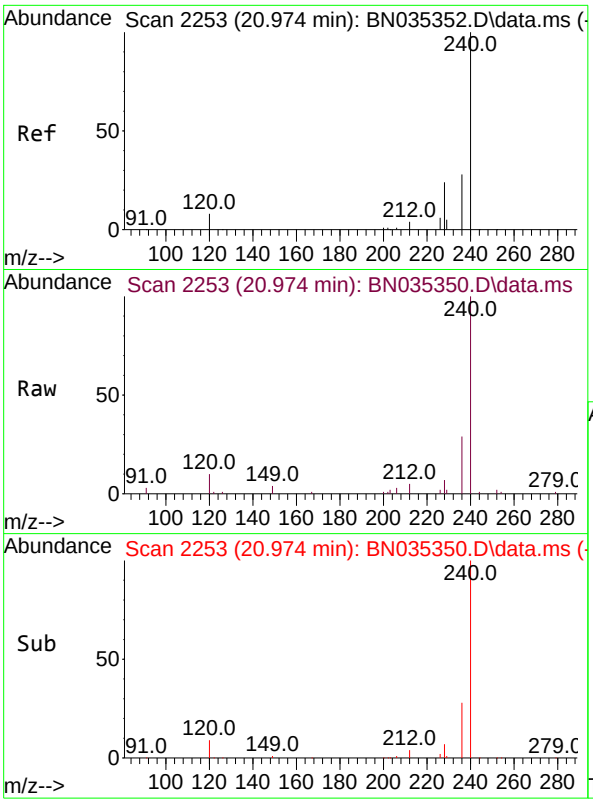


#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

Ion	Ratio	Lower	Upper
202	100		
101	10.2	7.4	11.0
203	17.3	13.7	20.5

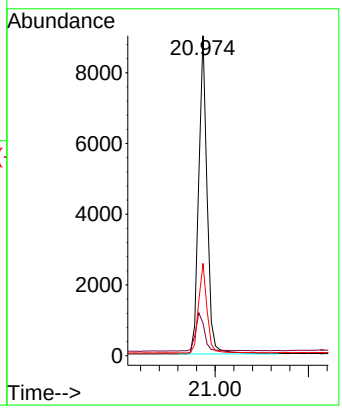




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:240 Resp: 1126

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.9	11.9
236	28.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
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Supervised By :mohammad ahmed

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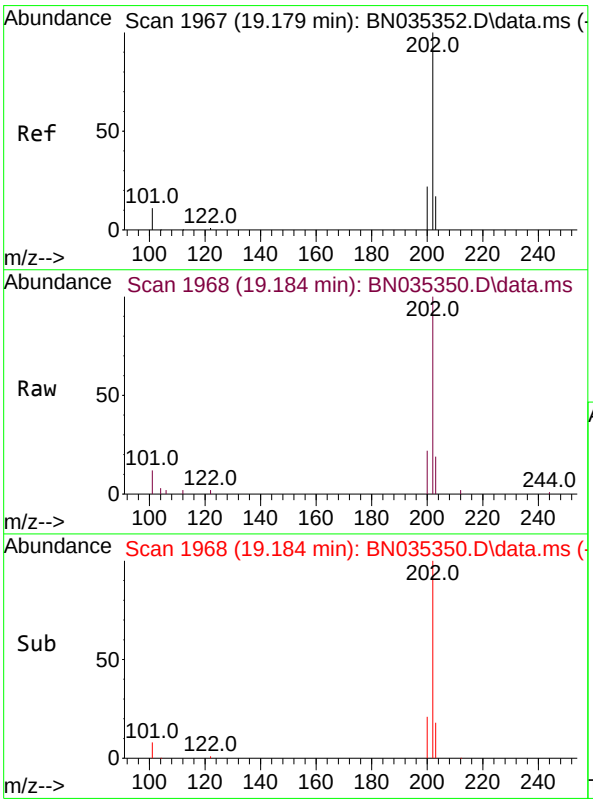
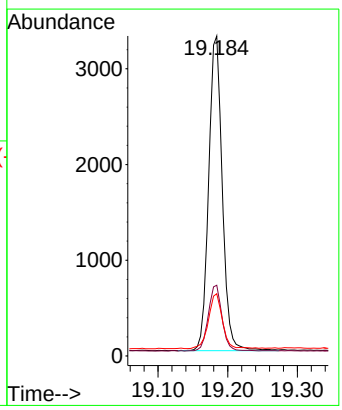
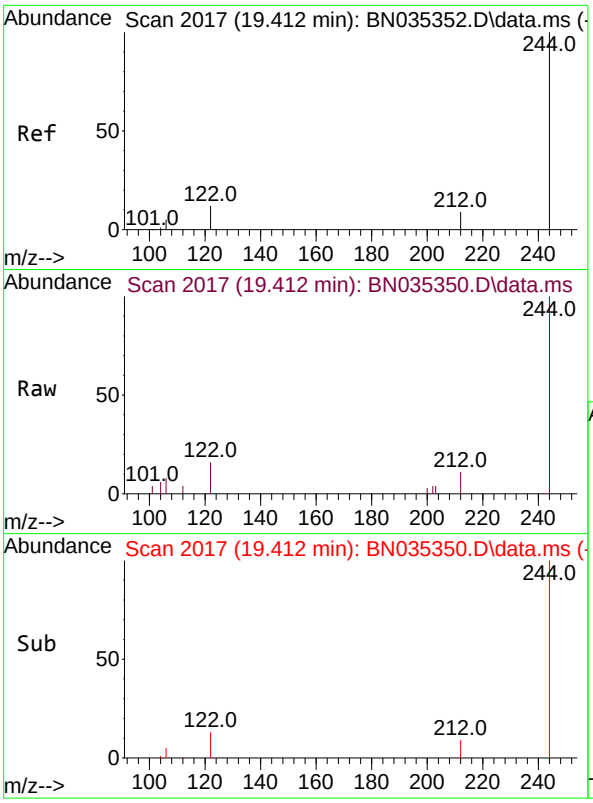


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5

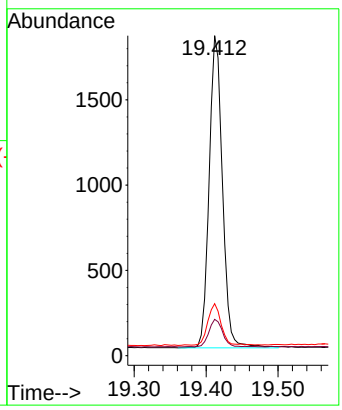




#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:244 Resp: 234

Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.1	12.1
122	16.3	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

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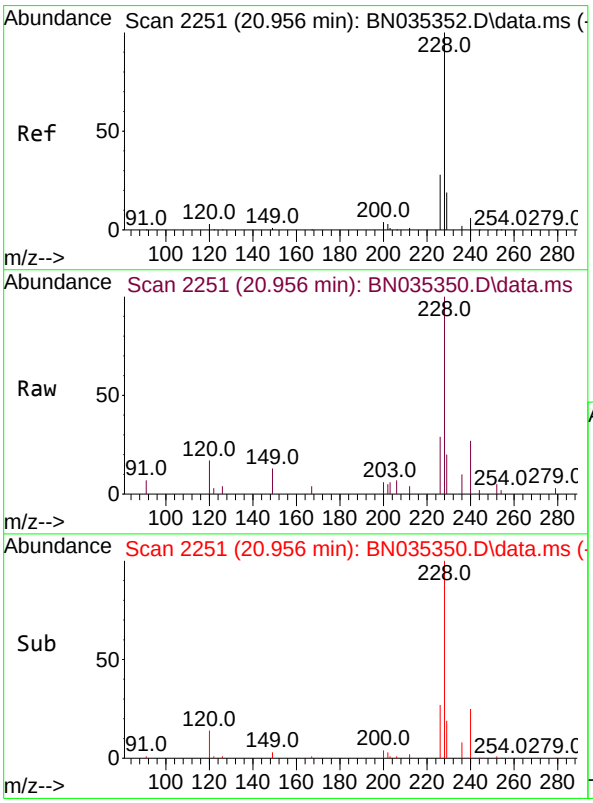
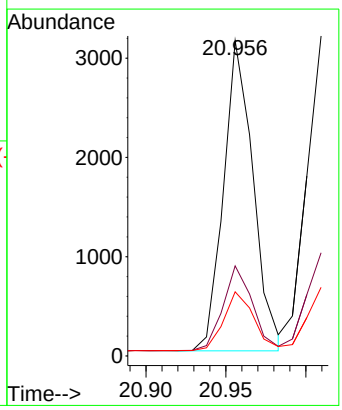
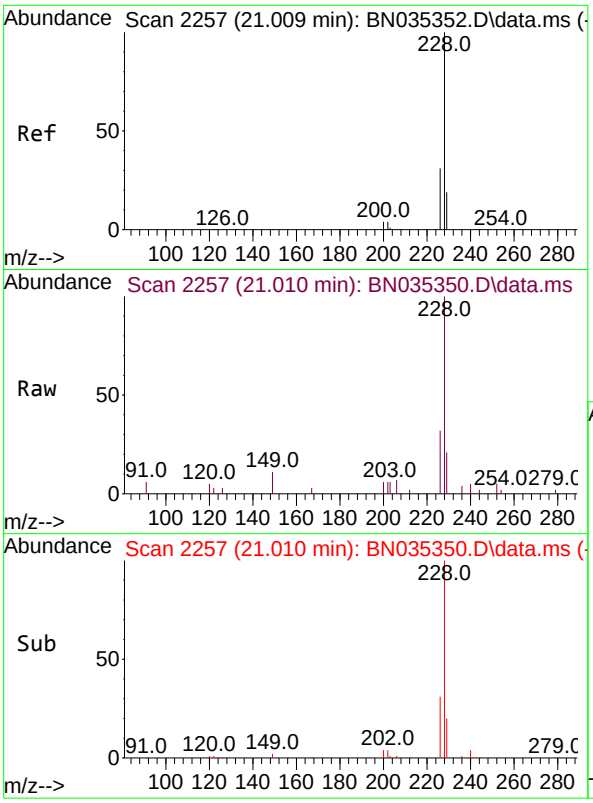


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.4	15.8	23.8

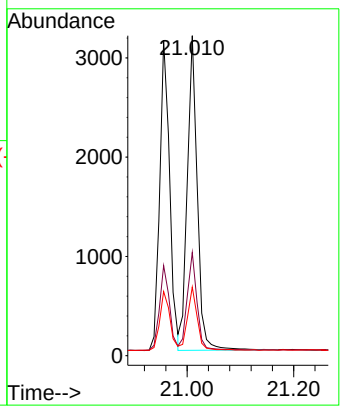




#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 412

Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.6	37.0
229	21.5	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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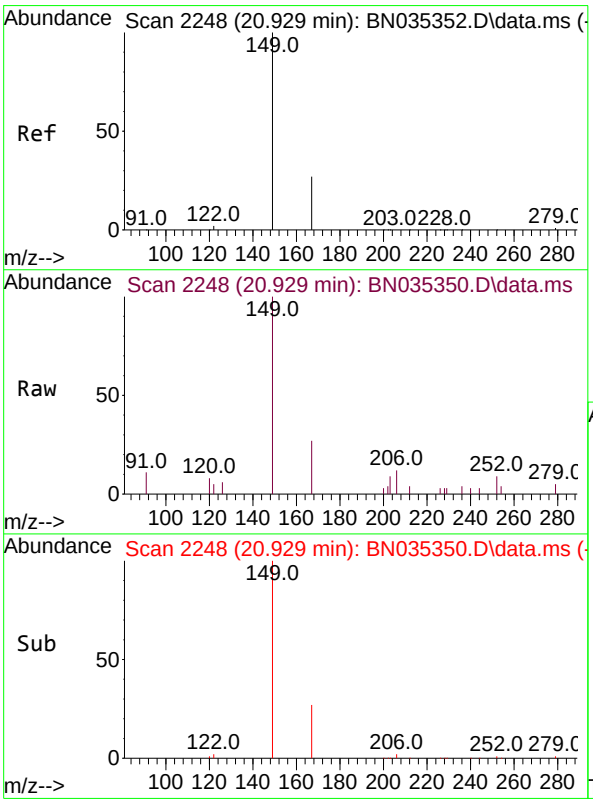
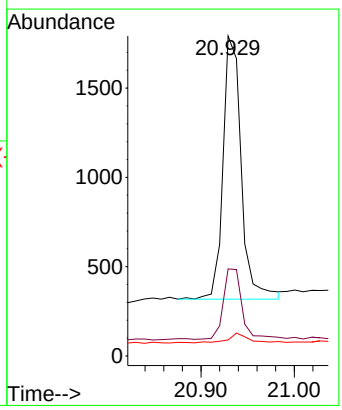
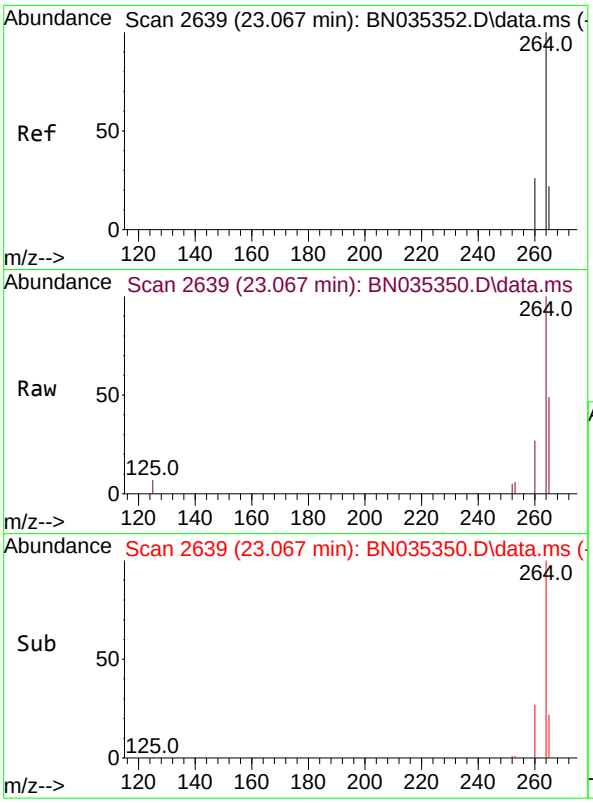


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.6	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:264 Resp: 1300

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	48.7	40.2	60.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
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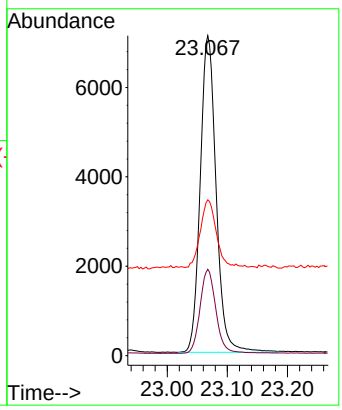

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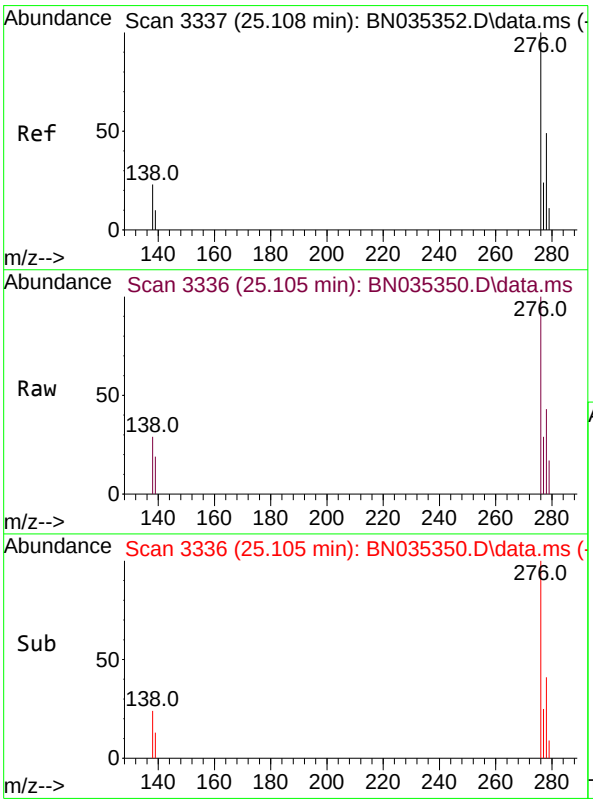
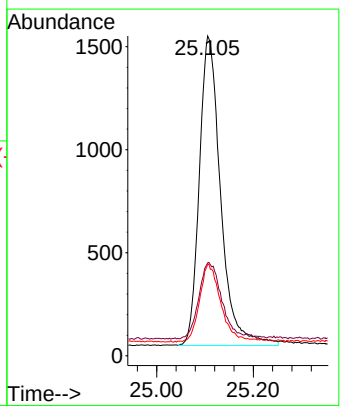
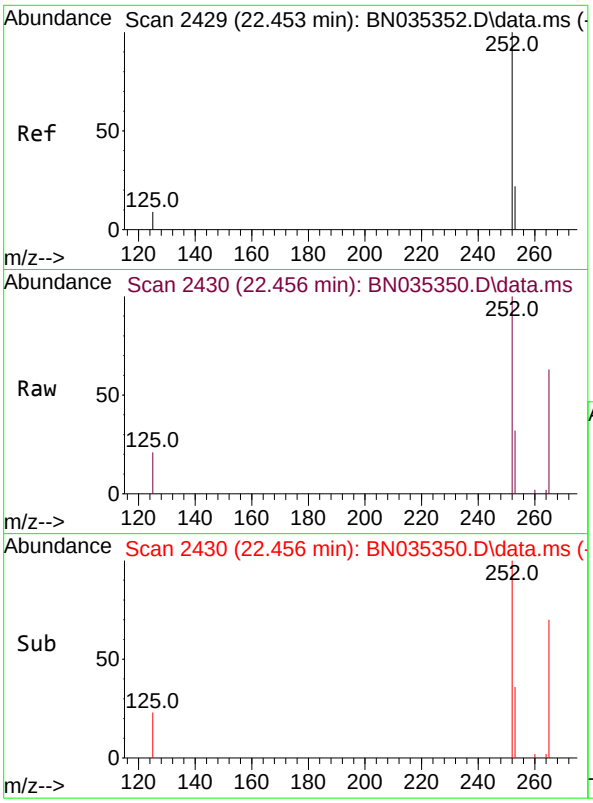


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

Ion	Ratio	Lower	Upper
276	100		
138	26.2	19.4	29.0
277	25.6	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 424

Ion	Ratio	Lower	Upper
252	100		
253	32.1	19.6	29.4#
125	21.0	9.6	14.4#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

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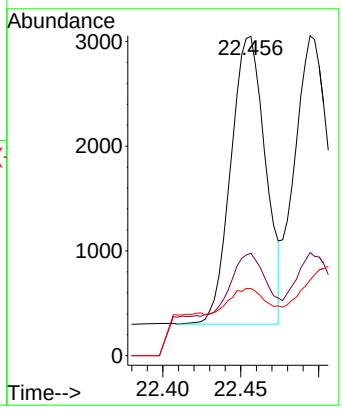

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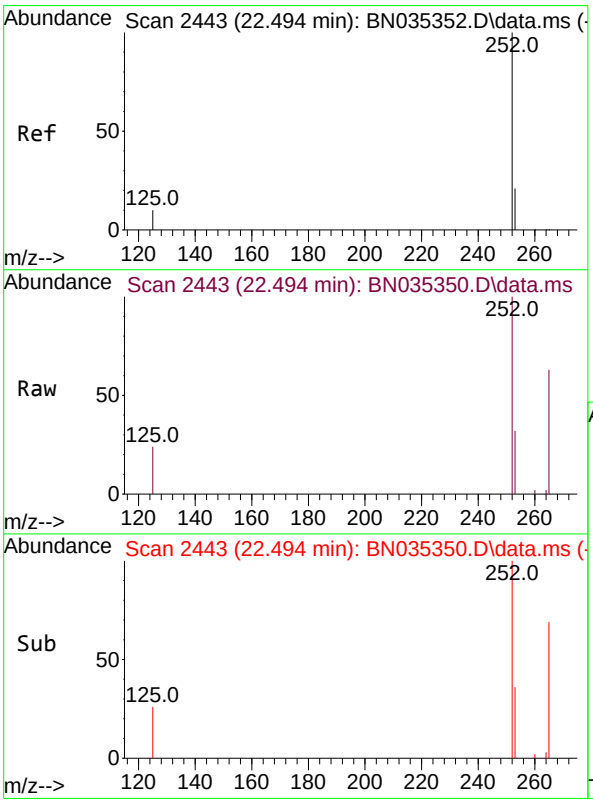
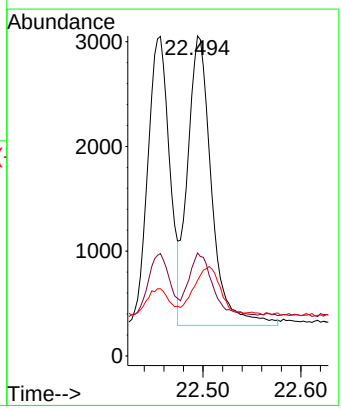
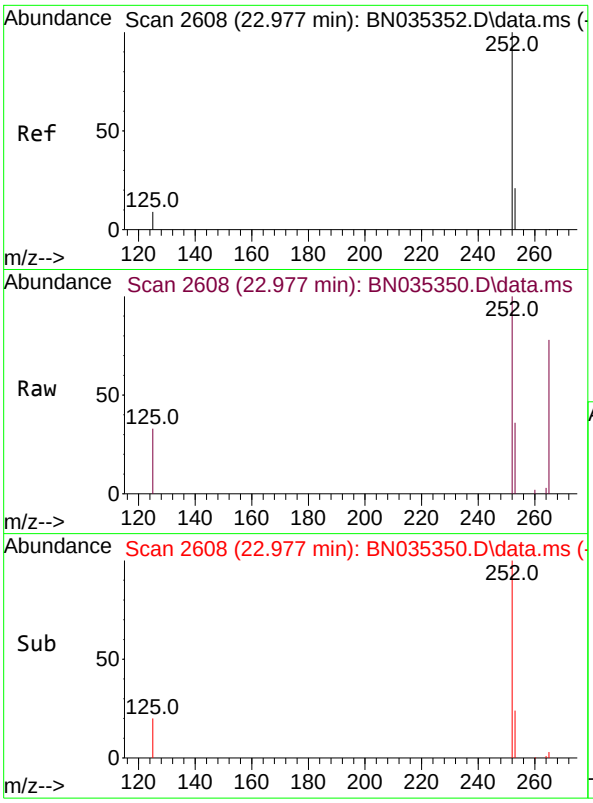


#38
Benzo(k)fluoranthene
Concen: 0.107 ng m
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4695

Ion	Ratio	Lower	Upper
252	100		
253	32.2	19.5	29.3#
125	23.7	10.2	15.4#

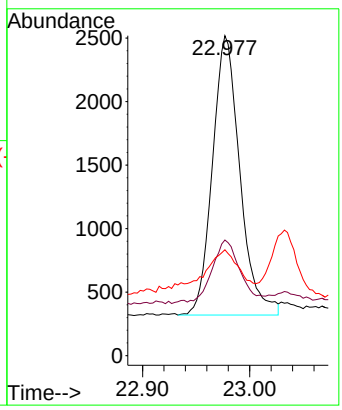




#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 391

Ion	Ratio	Lower	Upper
252	100		
253	36.1	20.2	30.4#
125	33.1	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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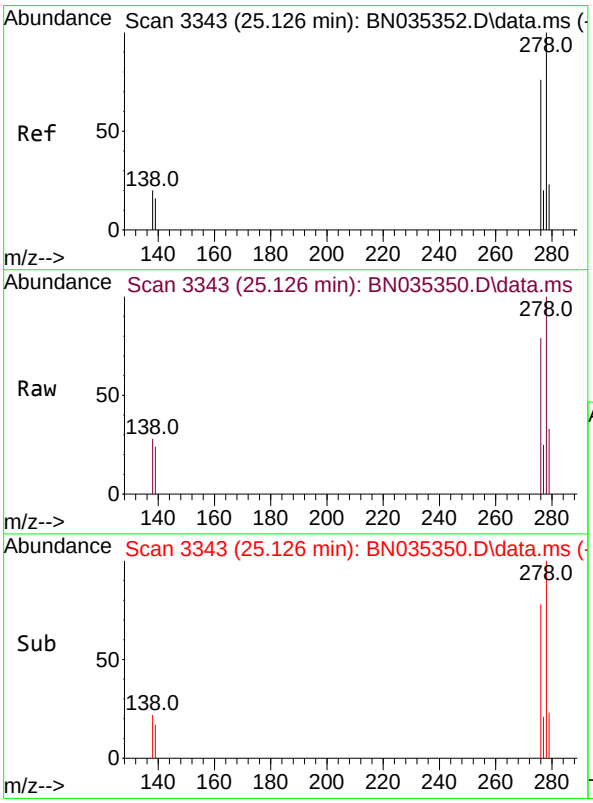
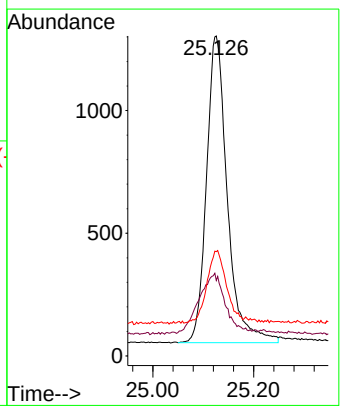
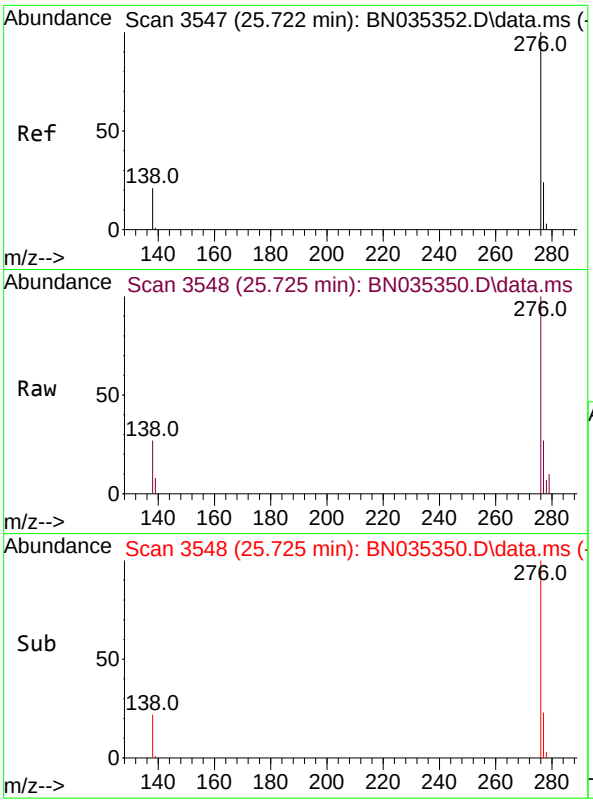


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

Ion	Ratio	Lower	Upper
278	100		
139	23.6	14.2	21.4#
279	32.6	20.5	30.7#

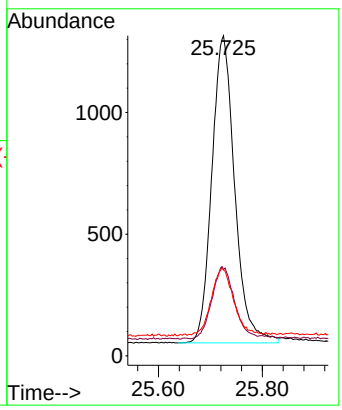




#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 386

Ion	Ratio	Lower	Upper
276	100		
277	26.9	19.9	29.9
138	26.8	17.8	26.8#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

11/29/2024
Supervised By :mohammad ahmed

11/29/2024

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	618m	0.133	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	435	0.230	ng	# 95
3) n-Nitrosodimethylamine	3.299	42	315	0.179	ng	# 87
6) bis(2-Chloroethyl)ether	6.759	93	1064	0.214	ng	99
9) Naphthalene	10.105	128	2744	0.197	ng	96
10) Hexachlorobutadiene	10.404	225	646	0.158	ng	# 99
12) 2-Methylnaphthalene	11.737	142	1910	0.186	ng	98
16) Acenaphthylene	13.678	152	3047	0.187	ng	99
17) Acenaphthene	14.031	154	2064	0.194	ng	99
18) Fluorene	15.026	166	2949	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	153	0.074	ng	# 53
21) 4-Bromophenyl-phenylether	15.941	248	1081	0.171	ng	96
22) Hexachlorobenzene	16.040	284	1318	0.201	ng	98
23) Atrazine	16.227	200	770	0.136	ng	93
24) Pentachlorophenol	16.400	266	445	0.145	ng	# 84
25) Phenanthrene	16.773	178	5182	0.199	ng	99
26) Anthracene	16.860	178	4571	0.191	ng	100
28) Fluoranthene	18.817	202	6914	0.193	ng	100
30) Pyrene	19.184	202	7198	0.217	ng	100
32) Benzo(a)anthracene	20.956	228	6691	0.193	ng	99
33) Chrysene	21.009	228	7234	0.211	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	2779	0.153	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.108	276	8305	0.187	ng	100
37) Benzo(b)fluoranthene	22.456	252	7522	0.200	ng	# 94
38) Benzo(k)fluoranthene	22.497	252	7675m	0.204	ng	
39) Benzo(a)pyrene	22.980	252	6450	0.195	ng	# 90
40) Dibenzo(a,h)anthracene	25.128	278	6620	0.188	ng	96
41) Benzo(g,h,i)perylene	25.725	276	6908	0.184	ng	99

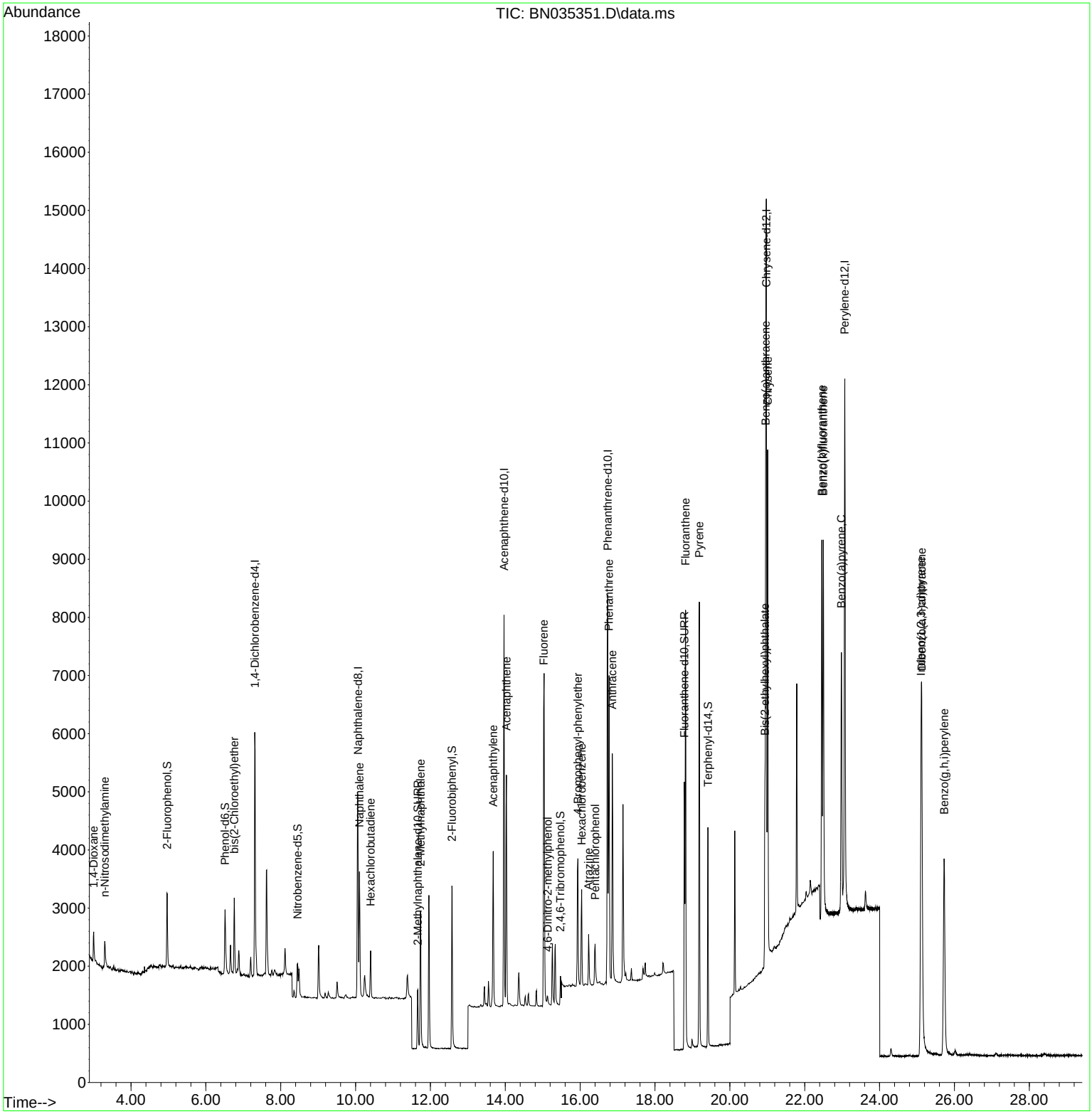
(#) = qualifier out of range (m) = manual integration (+) = signals summed

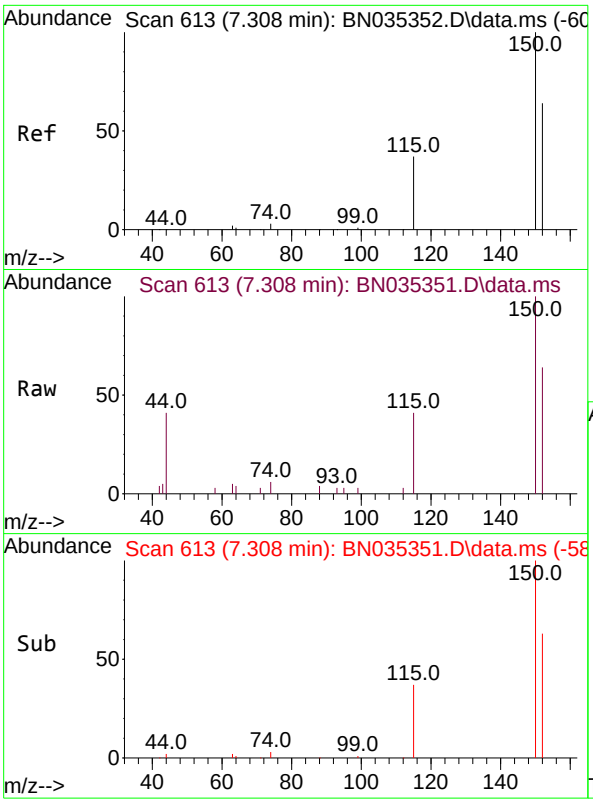
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

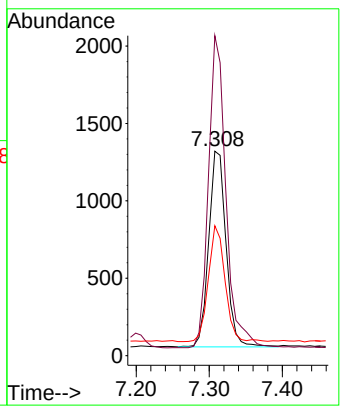




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 208

Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
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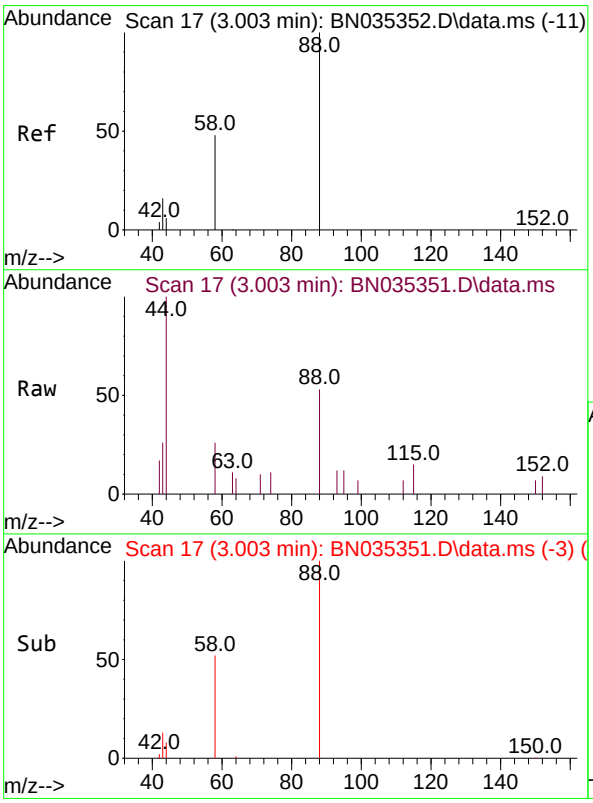
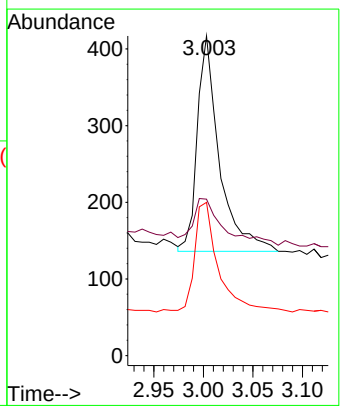
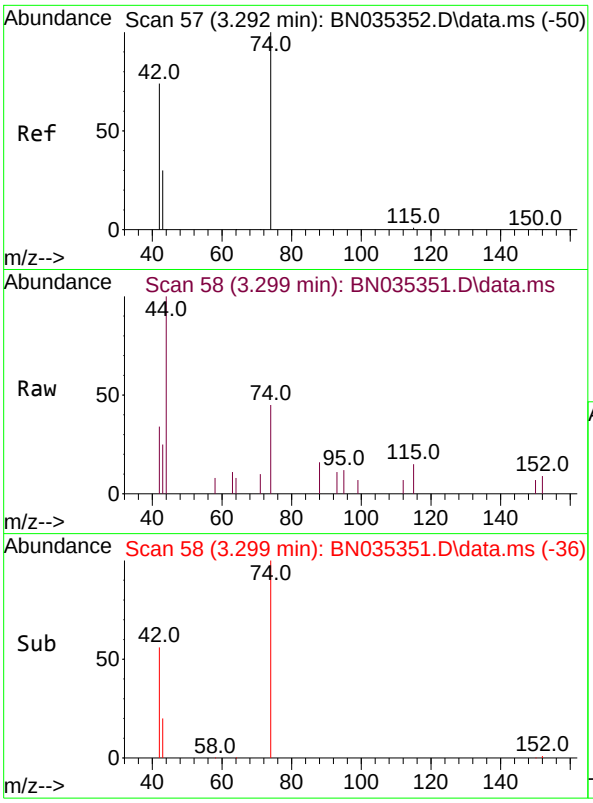


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

Ion	Ratio	Lower	Upper
88	100		
43	29.9	17.2	25.8#
58	55.2	44.5	66.7

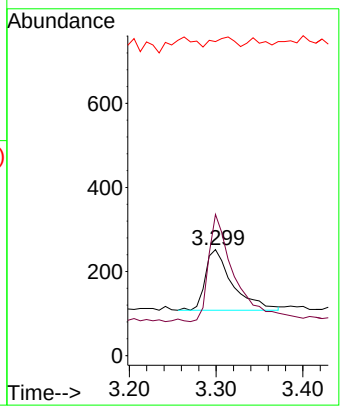




#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 42 Resp: 31

Ion	Ratio	Lower	Upper
42	100		
74	172.4	124.9	187.3
44	16.2	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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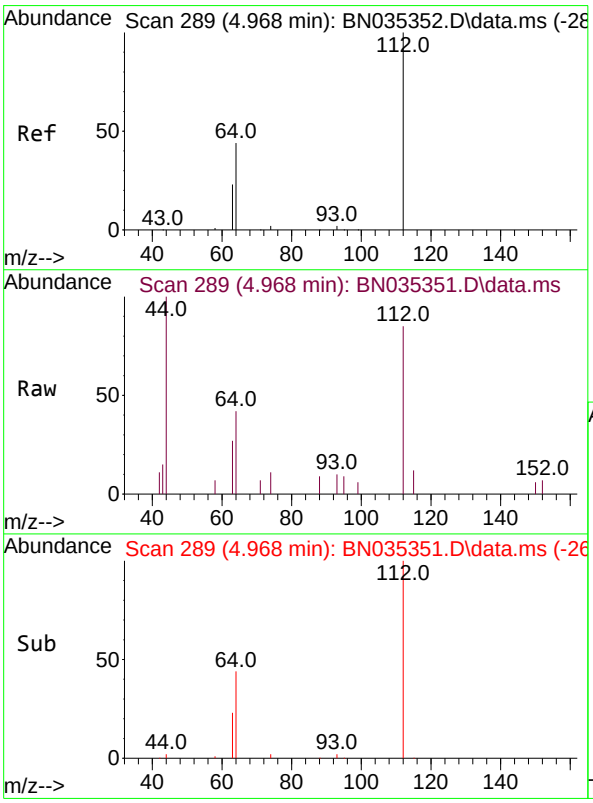
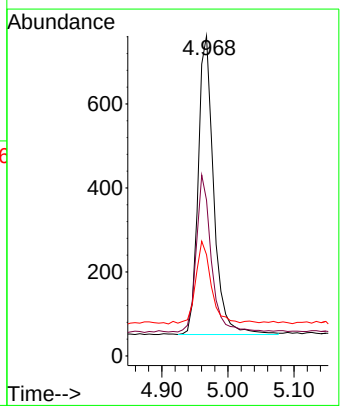
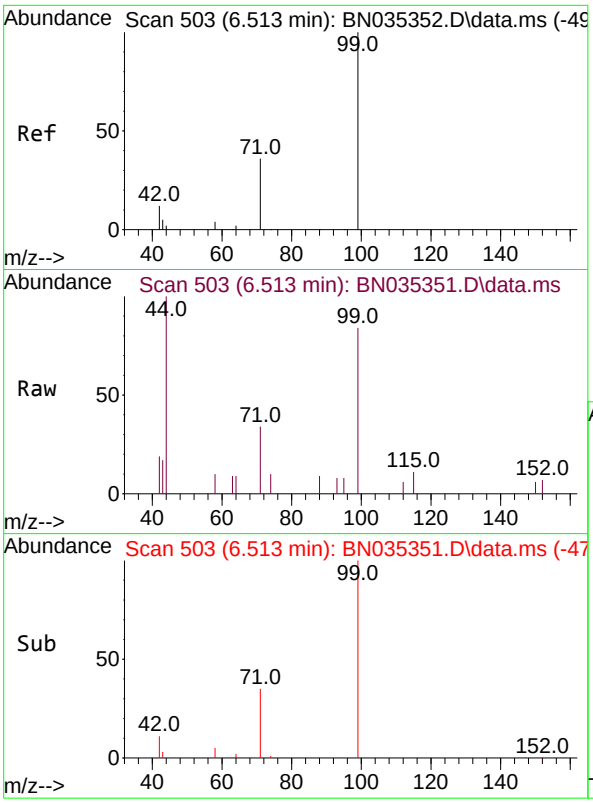


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6

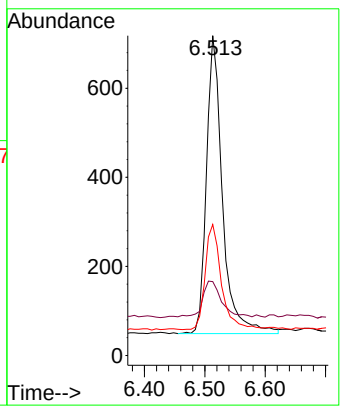




#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 99 Resp: 123(

Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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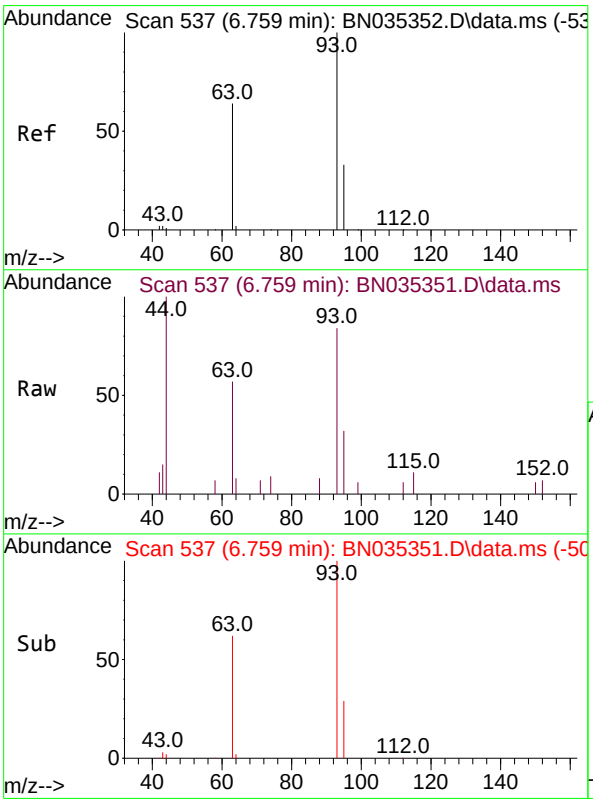
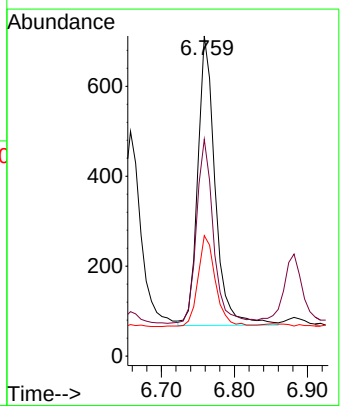
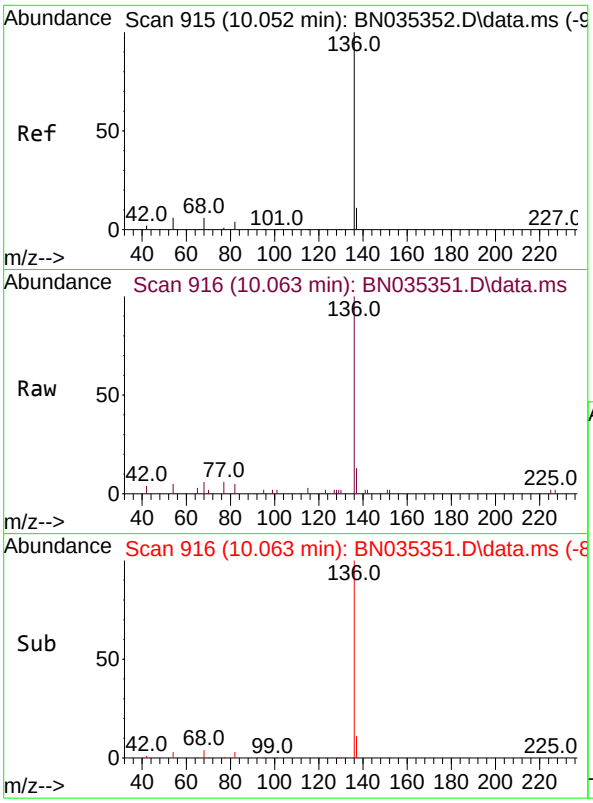


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.6	25.7	38.5

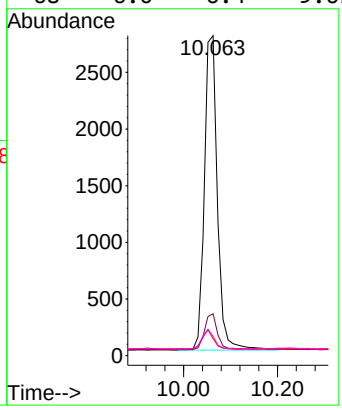




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:136 Resp: 533

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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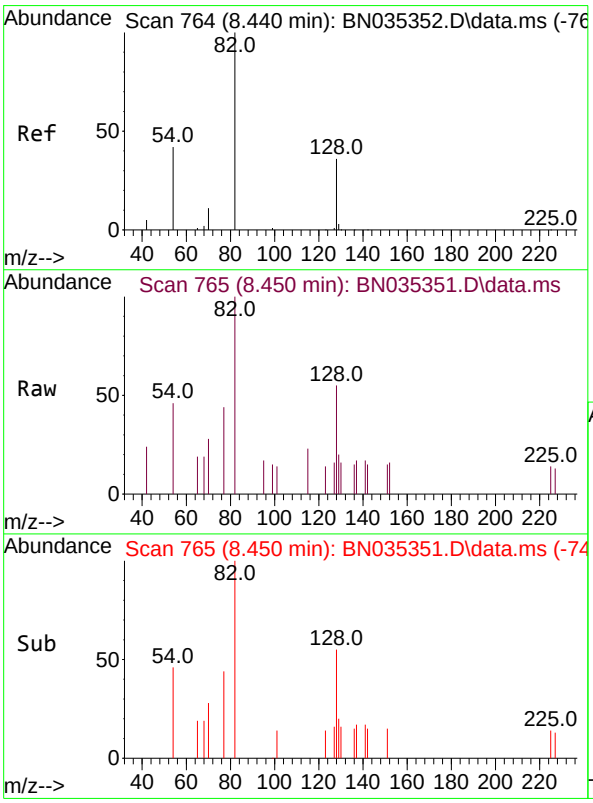
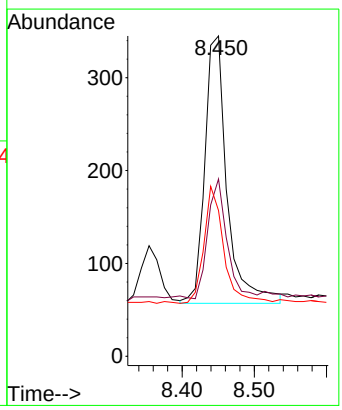
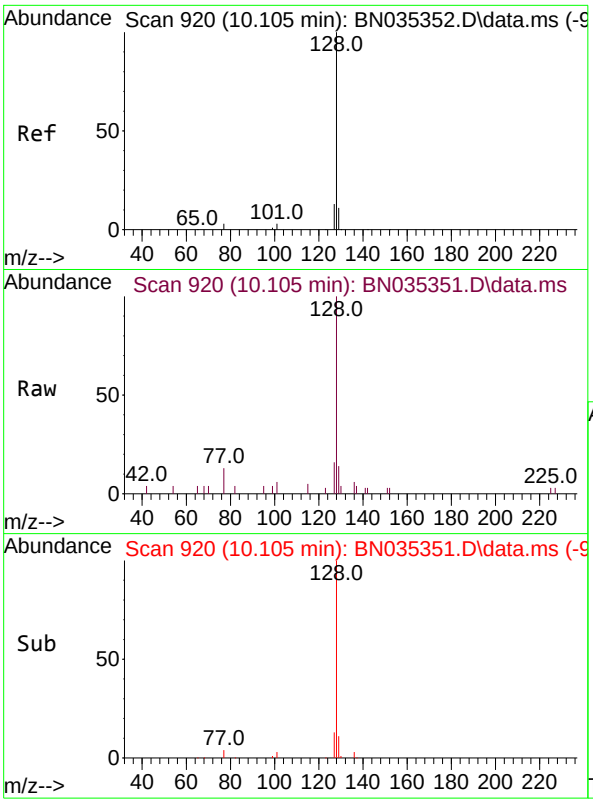


#8
Nitrobenzene-d5
Concen: 0.133 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 618

Ion	Ratio	Lower	Upper
82	100		
128	55.4	33.4	50.0#
54	45.5	36.7	55.1

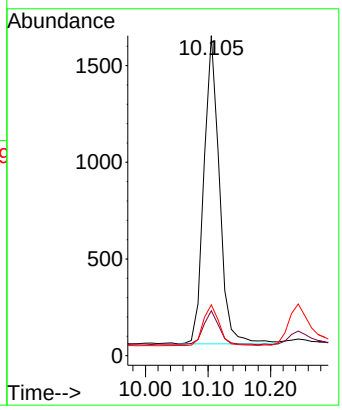




#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:128 Resp: 274

Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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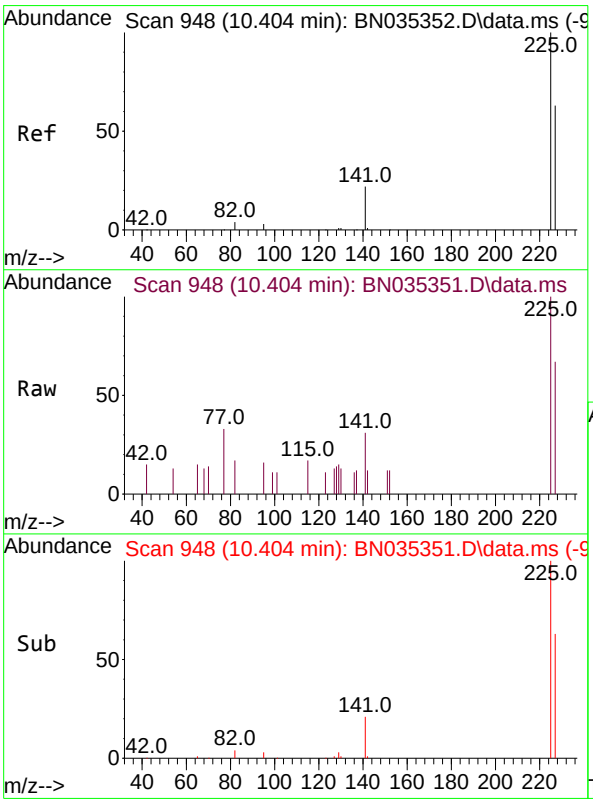
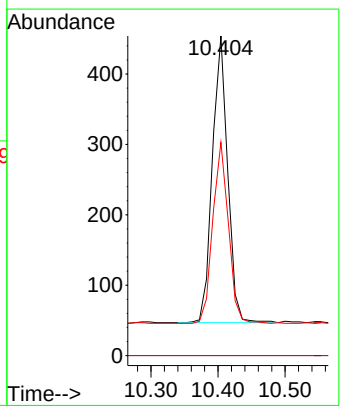
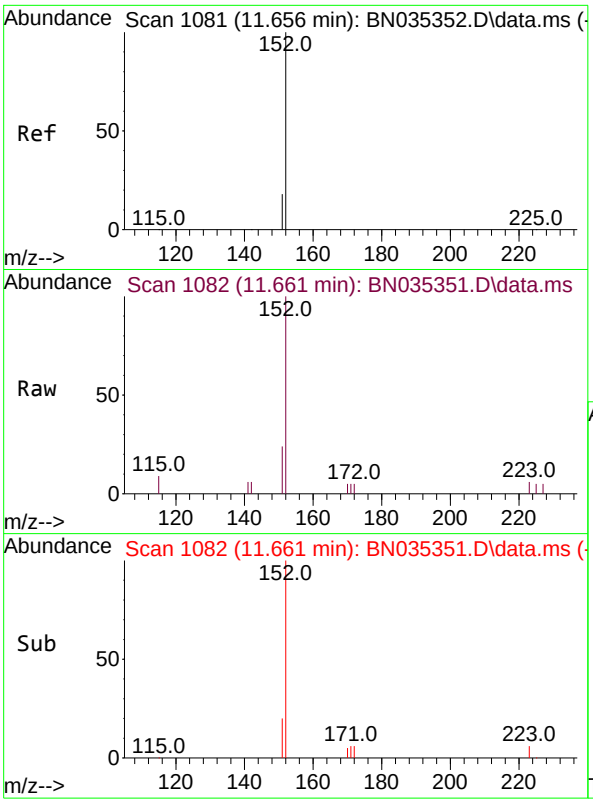


#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9

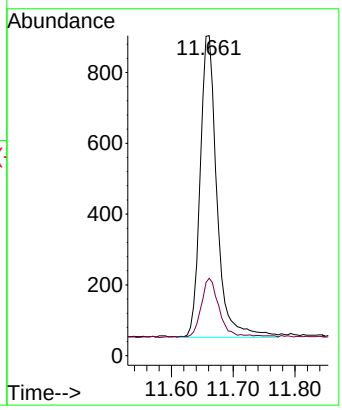




#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 160

Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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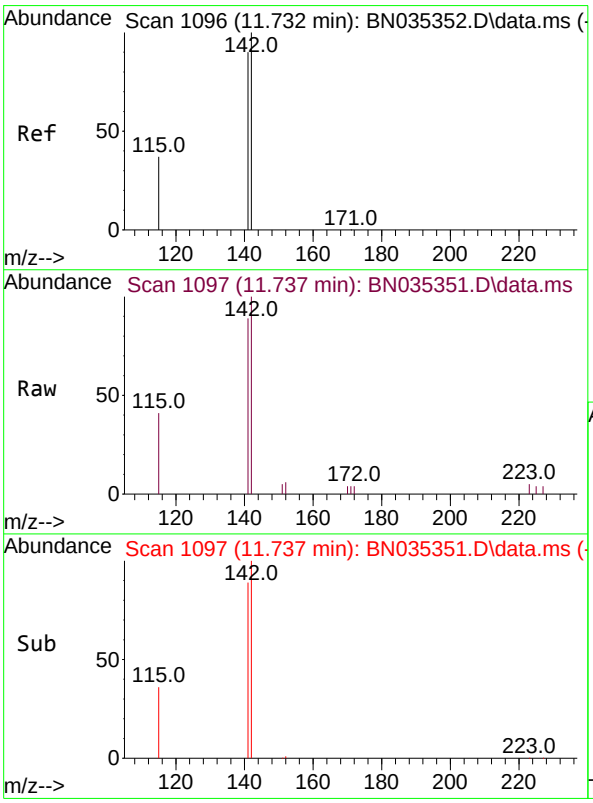
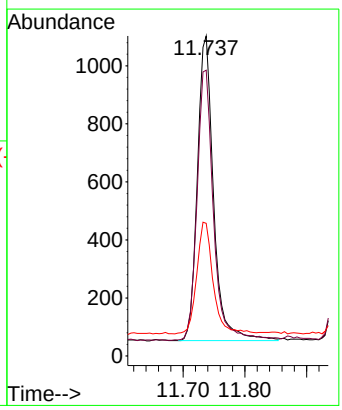
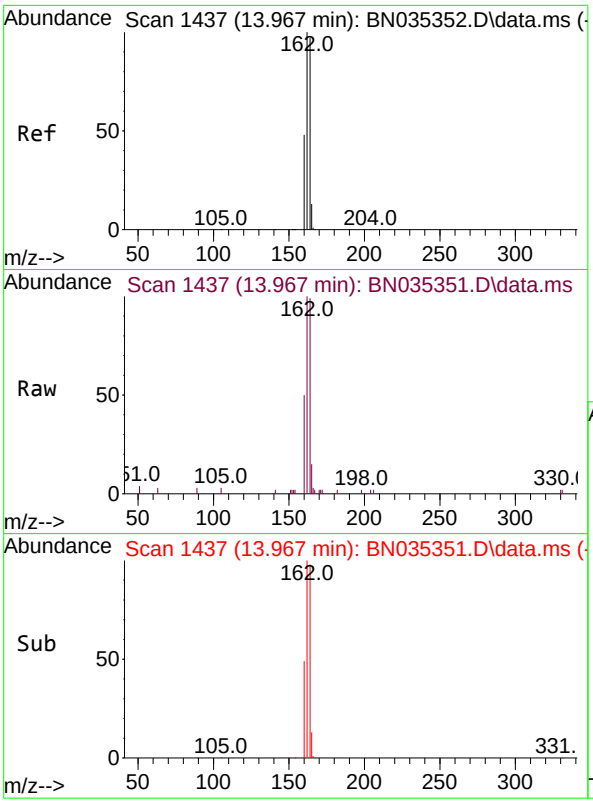


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	41.4	31.4	47.0

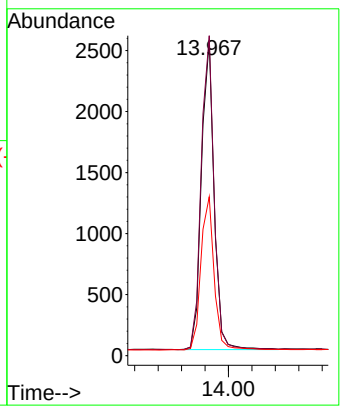




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:164 Resp: 380

Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	50.4	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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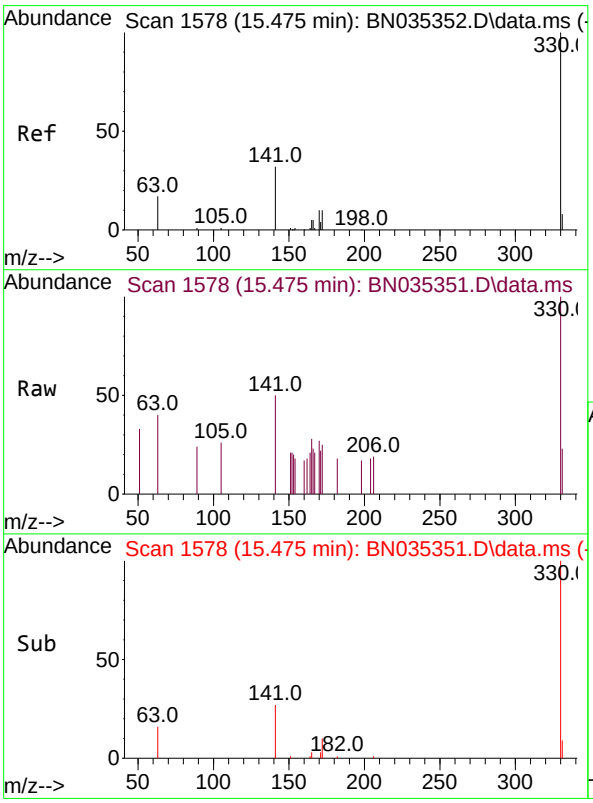
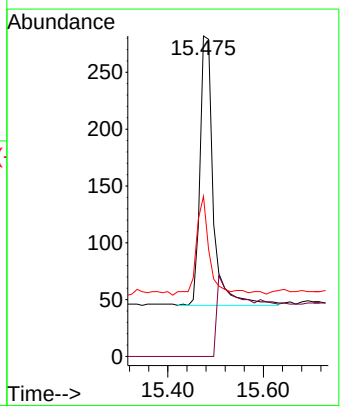
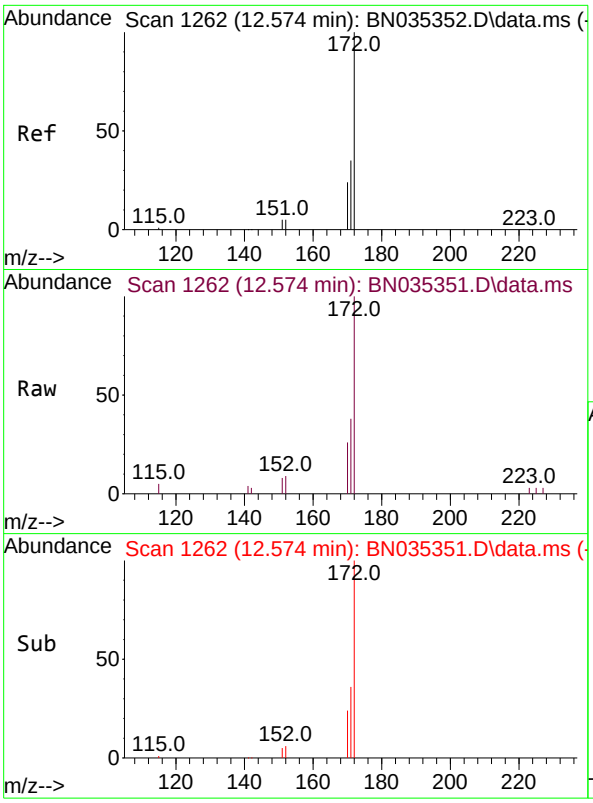


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.2	26.6	40.0

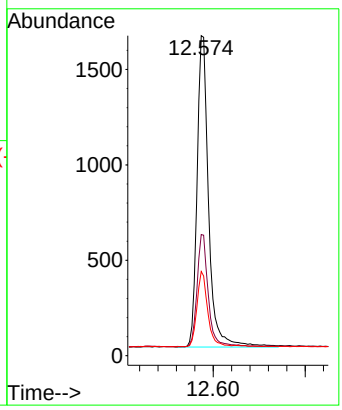




#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:172 Resp: 283

Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.0	43.4
170	26.3	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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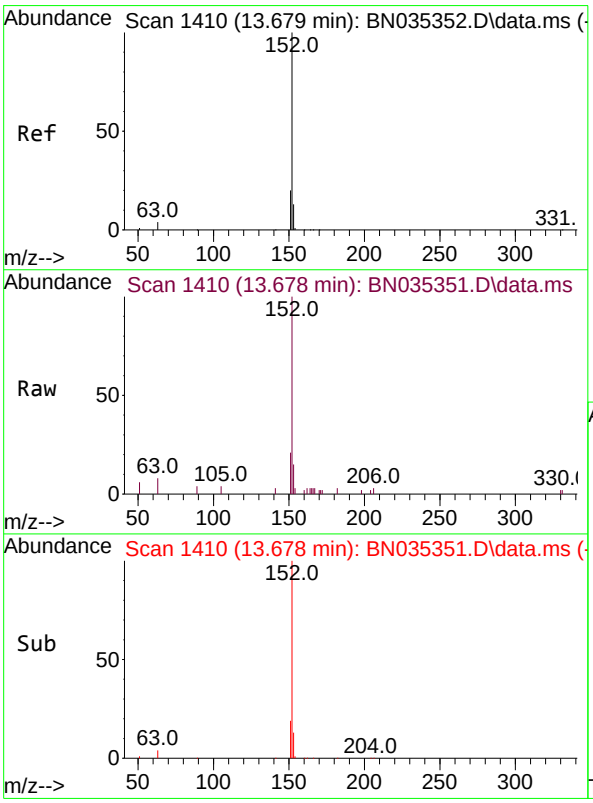
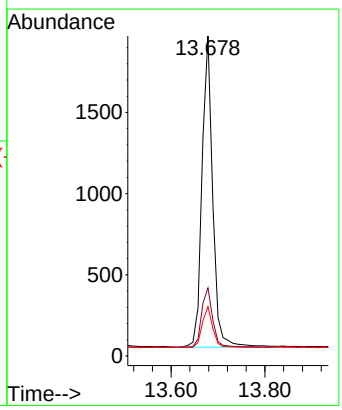
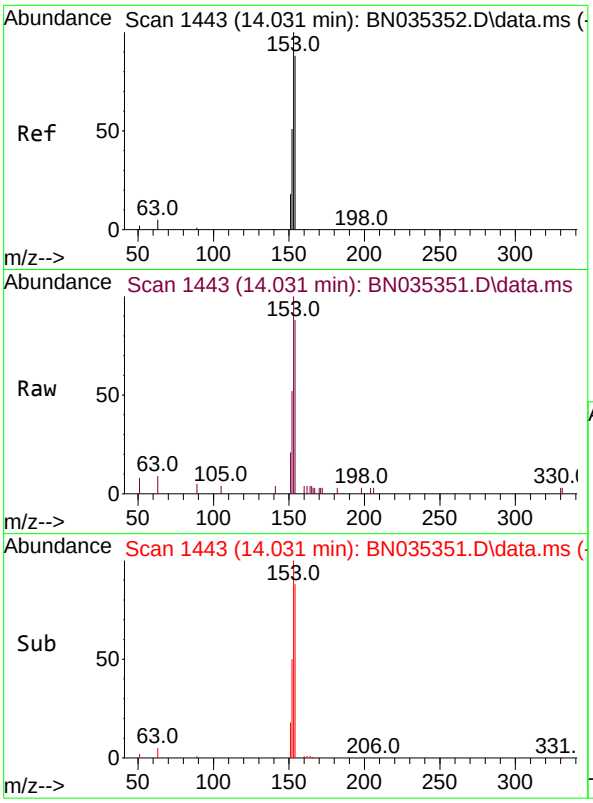


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6

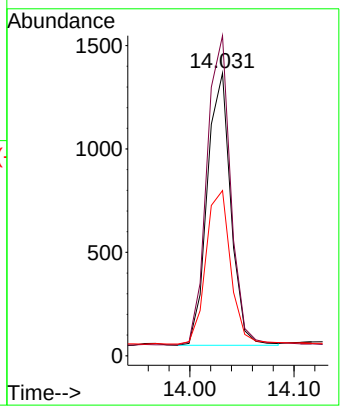




#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:154 Resp: 206

Ion	Ratio	Lower	Upper
154	100		
153	115.2	92.6	139.0
152	60.7	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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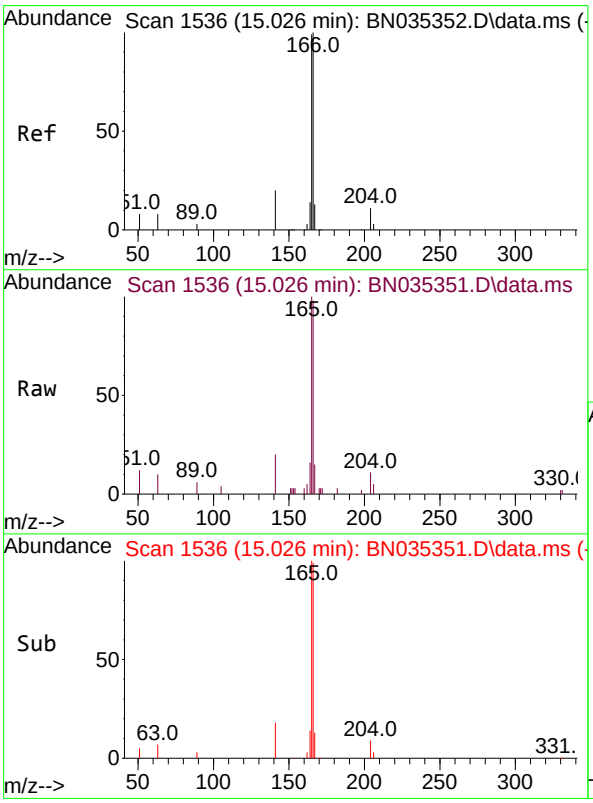
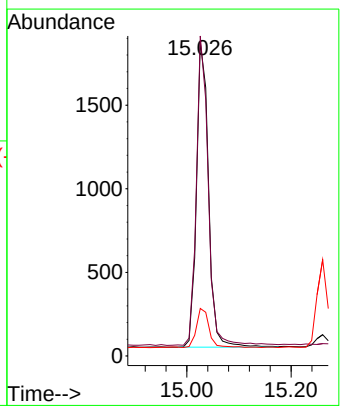
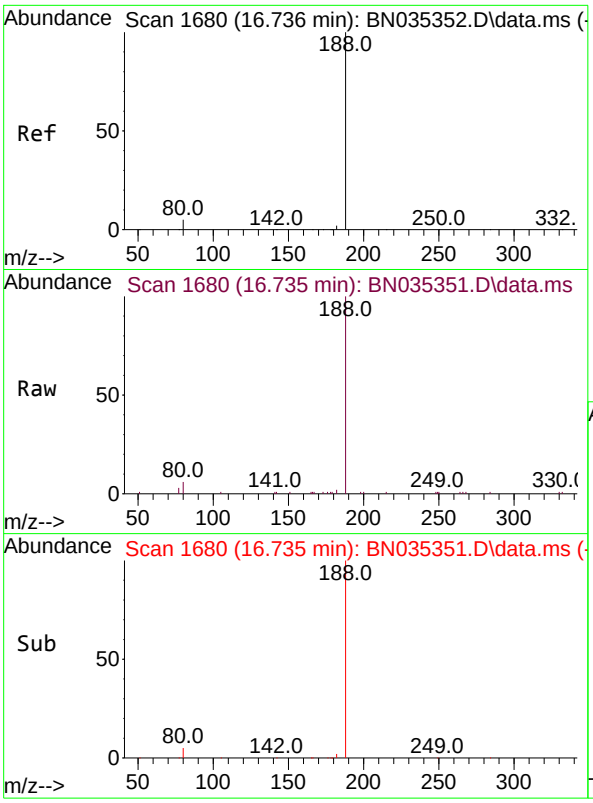


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	14.1	10.8	16.2

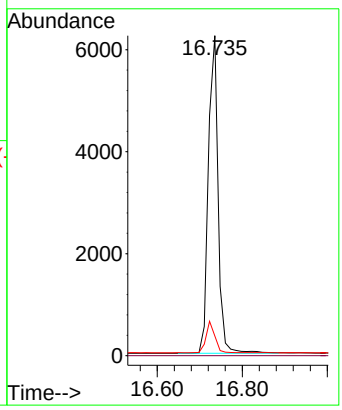




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:188 Resp: 990

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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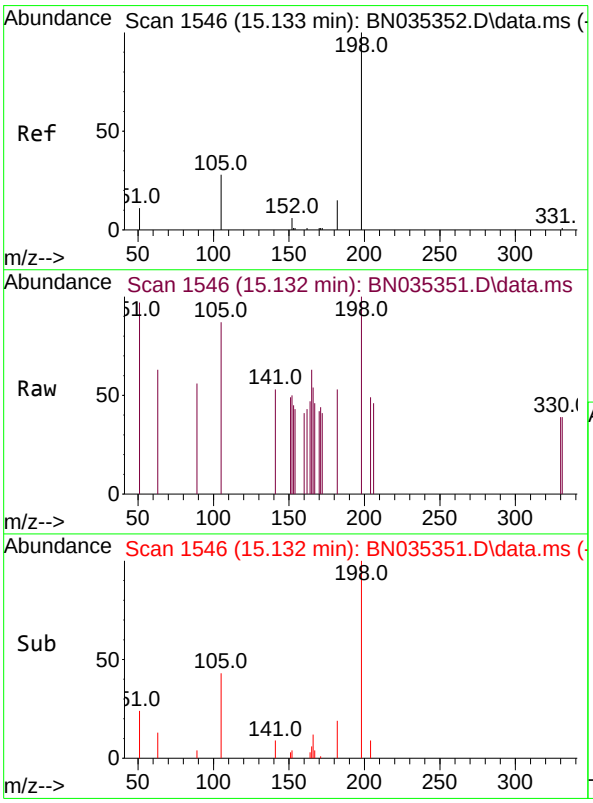
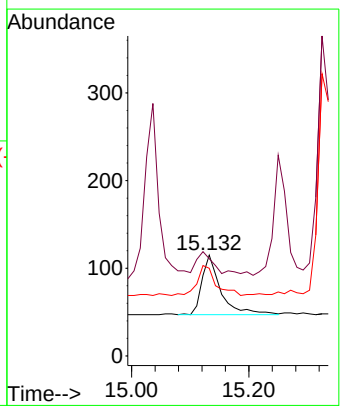
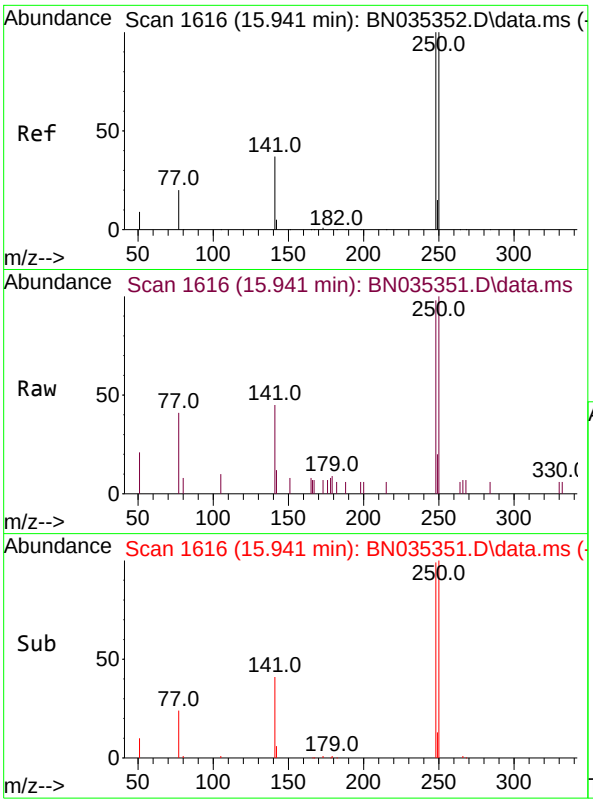


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

Ion	Ratio	Lower	Upper
198	100		
51	96.5	46.5	69.7#
105	87.0	45.3	67.9#

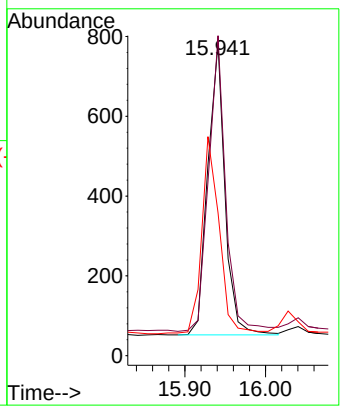




#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:248 Resp: 108

Ion	Ratio	Lower	Upper
248	100		
250	102.3	80.6	120.8
141	45.7	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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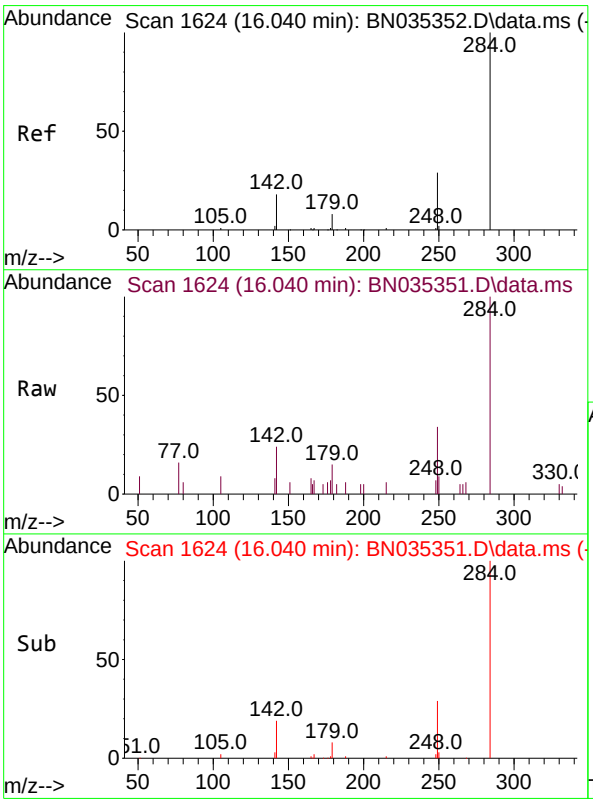
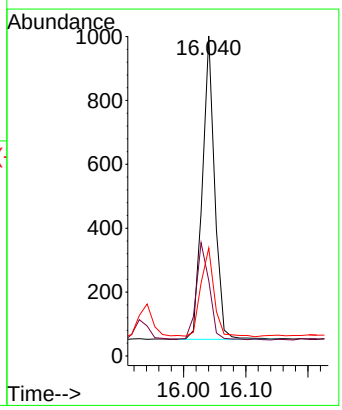
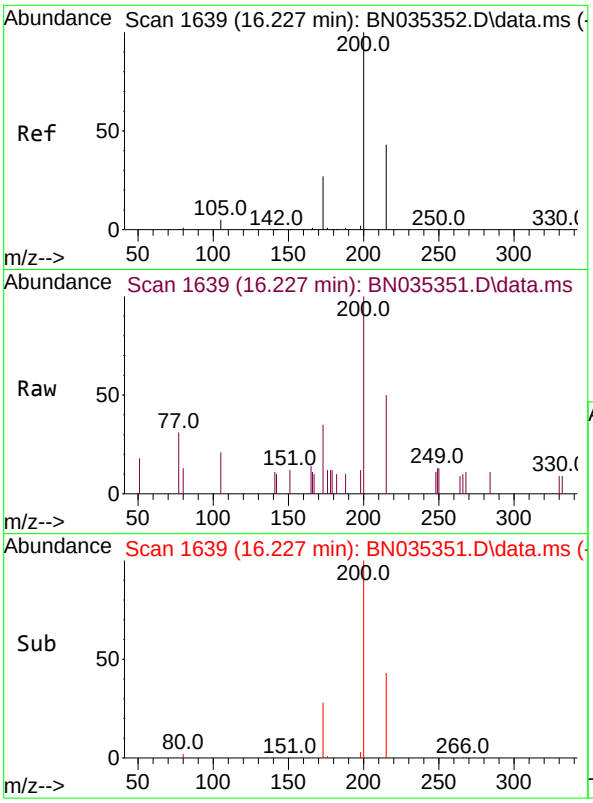


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

Ion	Ratio	Lower	Upper
284	100		
142	34.2	26.7	40.1
249	32.0	24.6	36.8

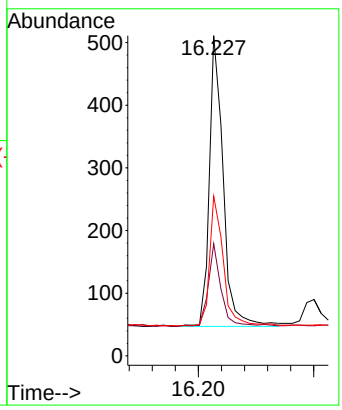




#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:200 Resp: 77(

Ion	Ratio	Lower	Upper
200	100		
173	35.0	24.1	36.1
215	49.9	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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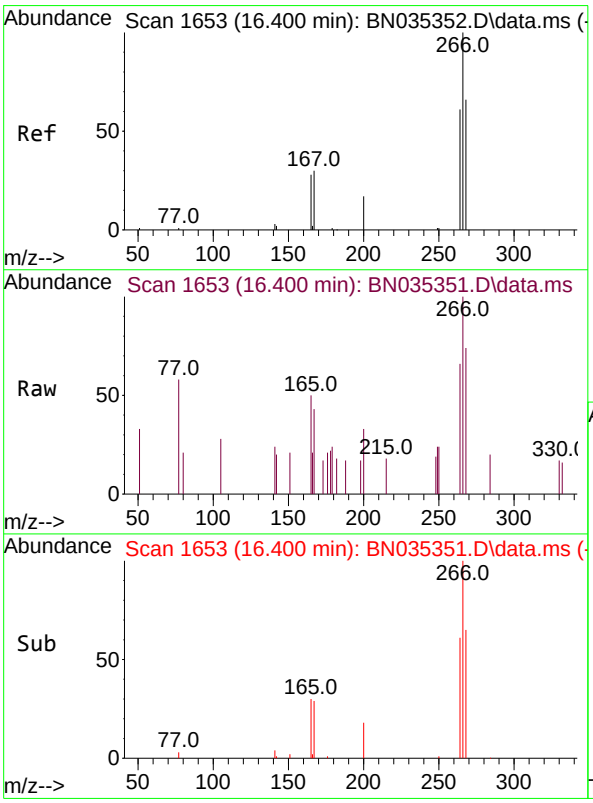
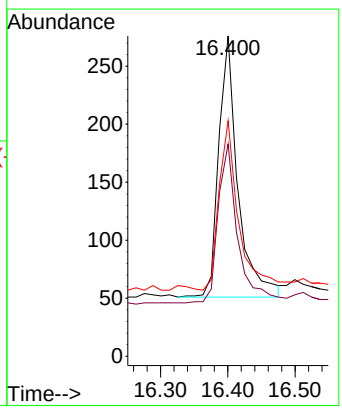
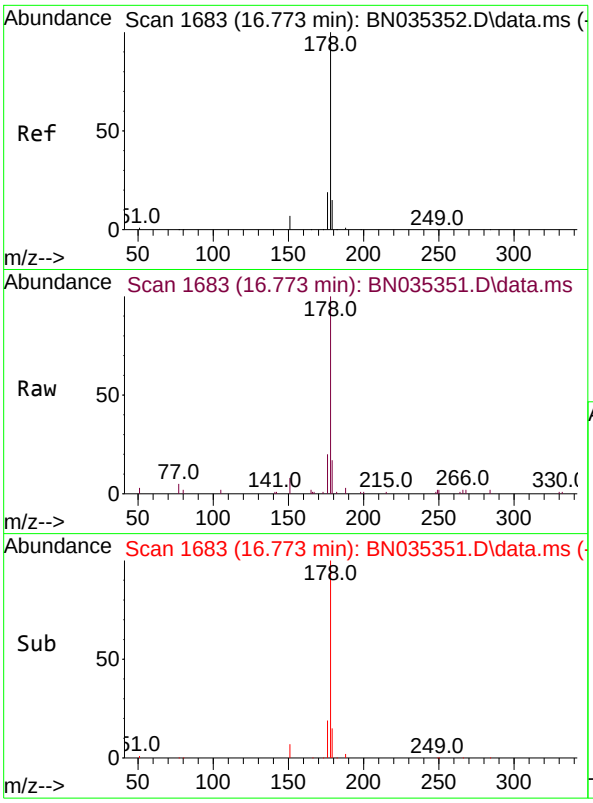


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

Ion	Ratio	Lower	Upper
266	100		
264	62.7	42.3	63.5
268	67.2	43.3	64.9#

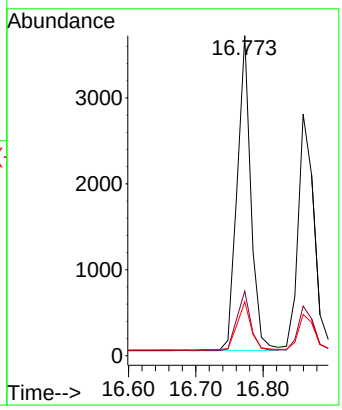




#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 518

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.9	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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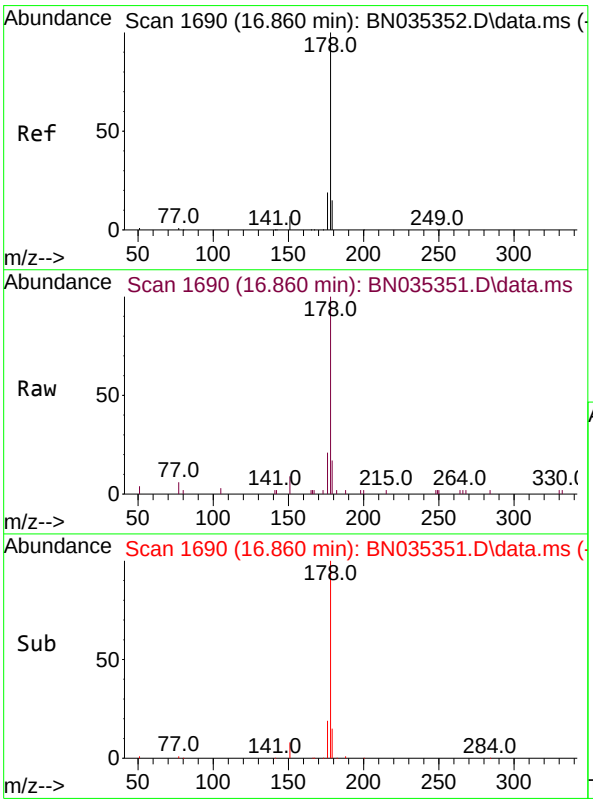
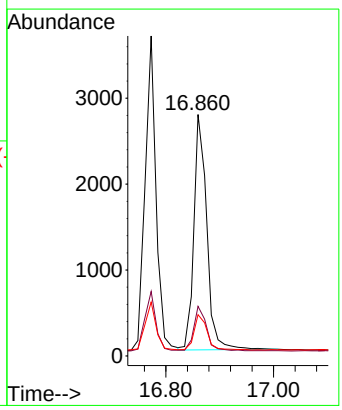
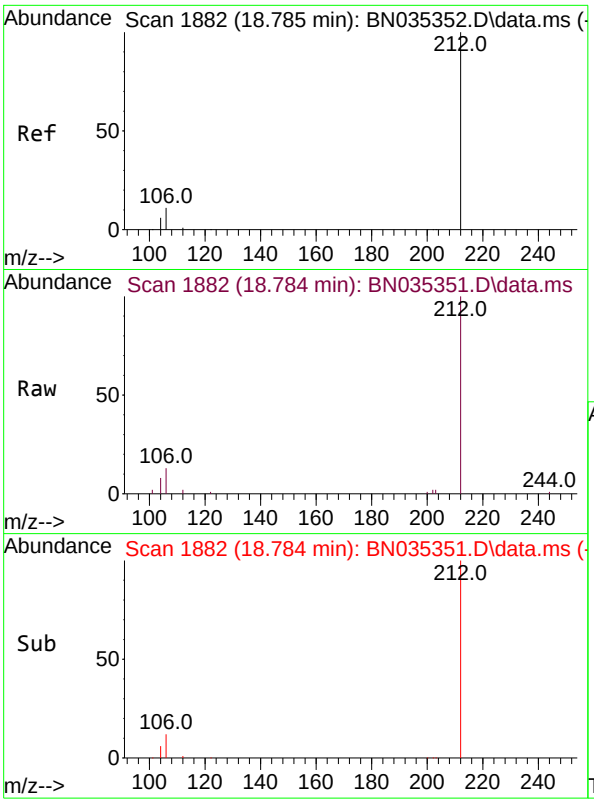


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.6	18.8

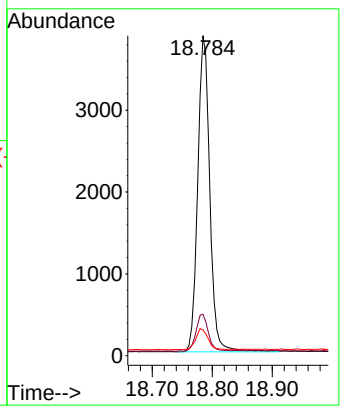




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:212 Resp: 537

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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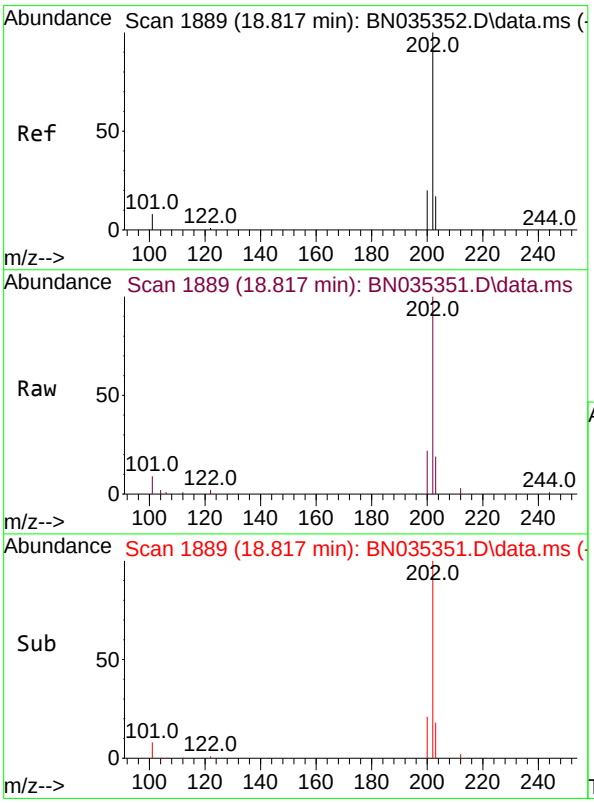
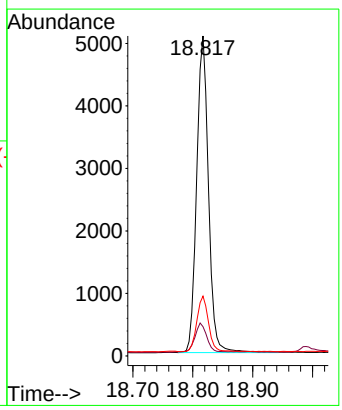
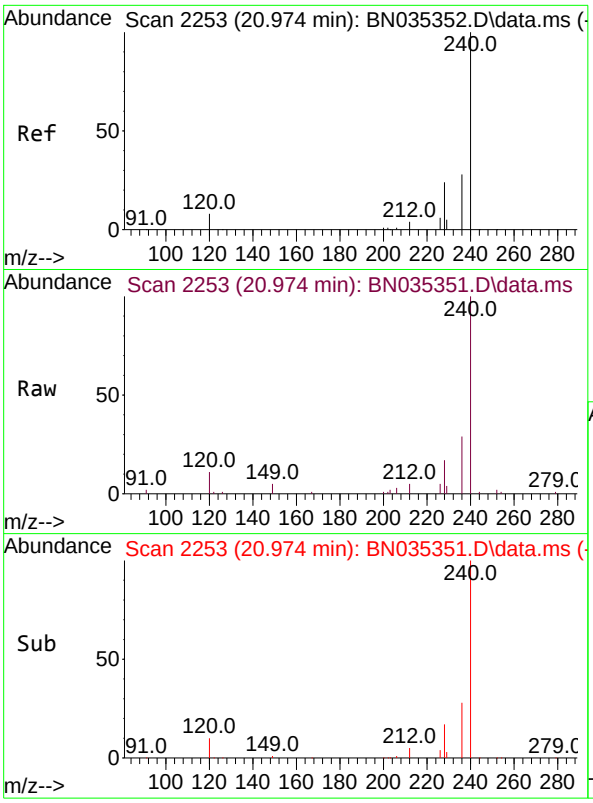


#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	17.3	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:240 Resp: 996

Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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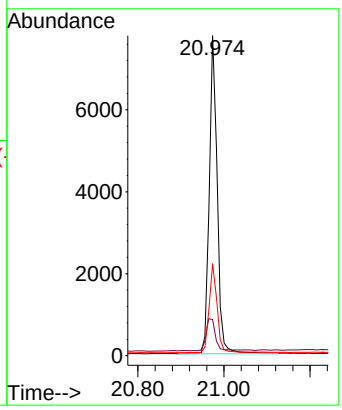
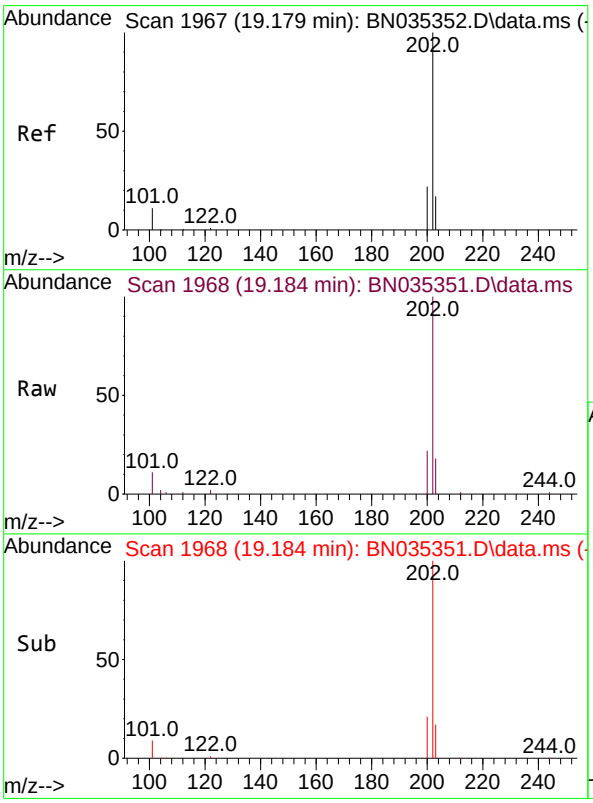
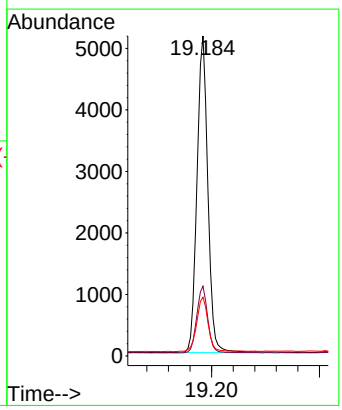


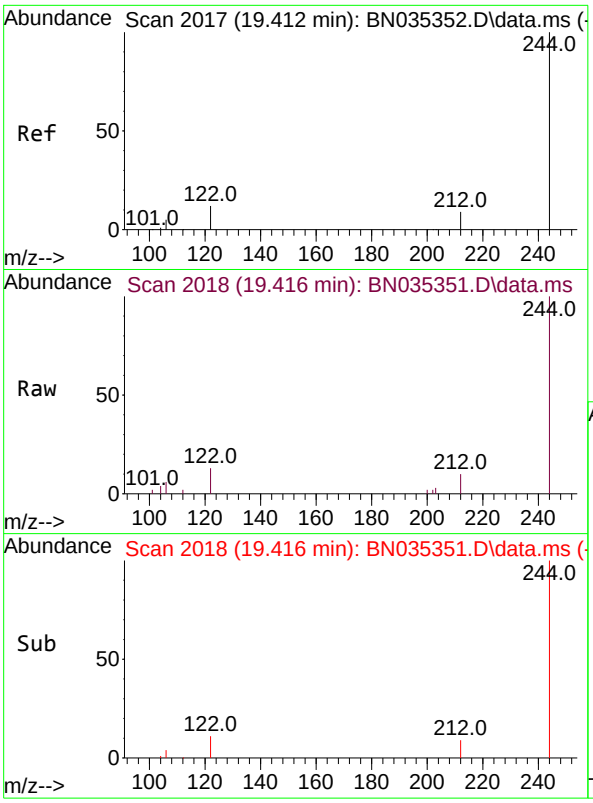


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	14.3	21.5

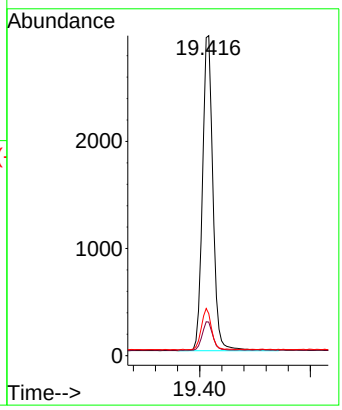




#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:244 Resp: 387

Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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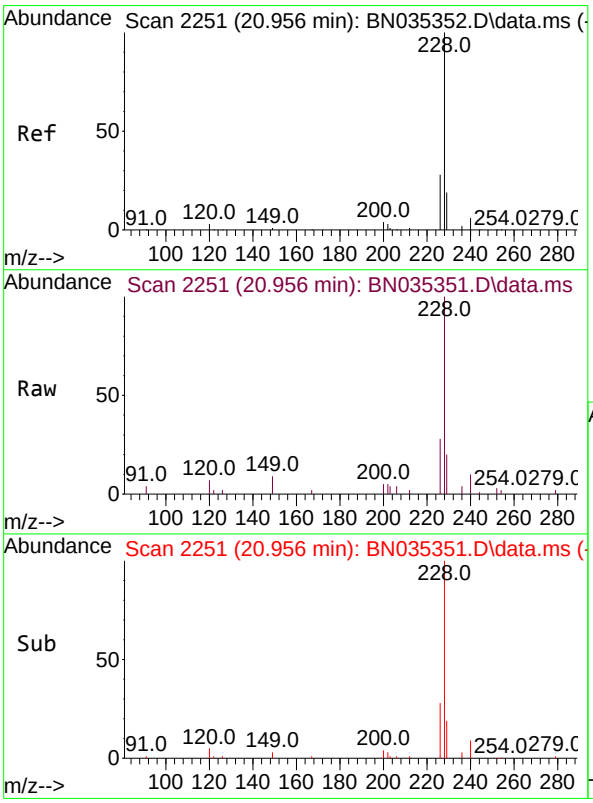
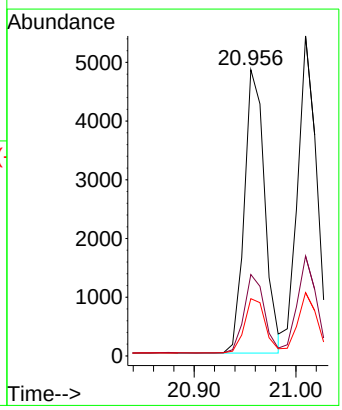
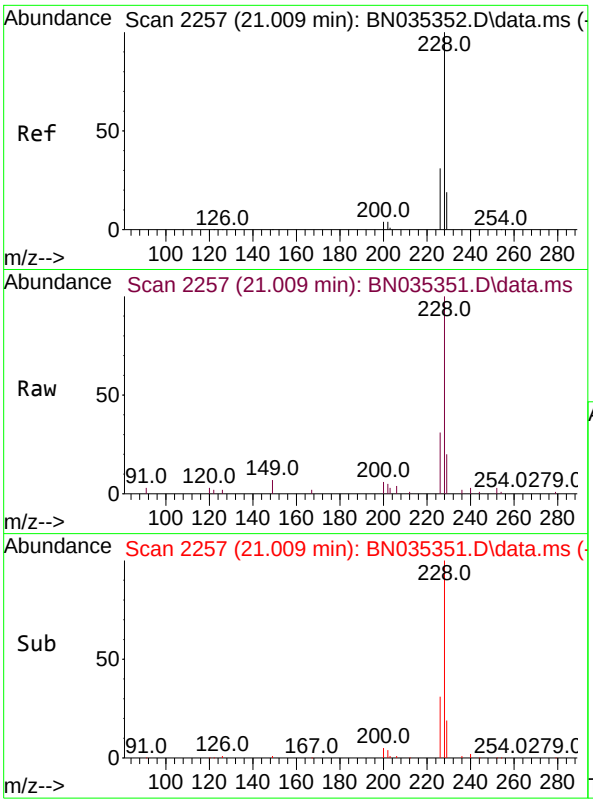


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.0	15.8	23.8

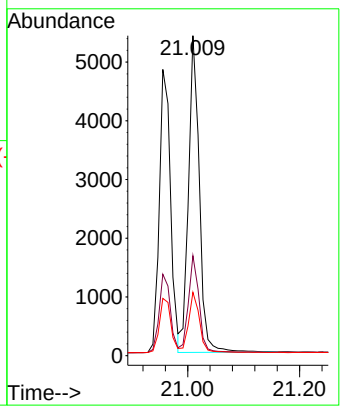




#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 723

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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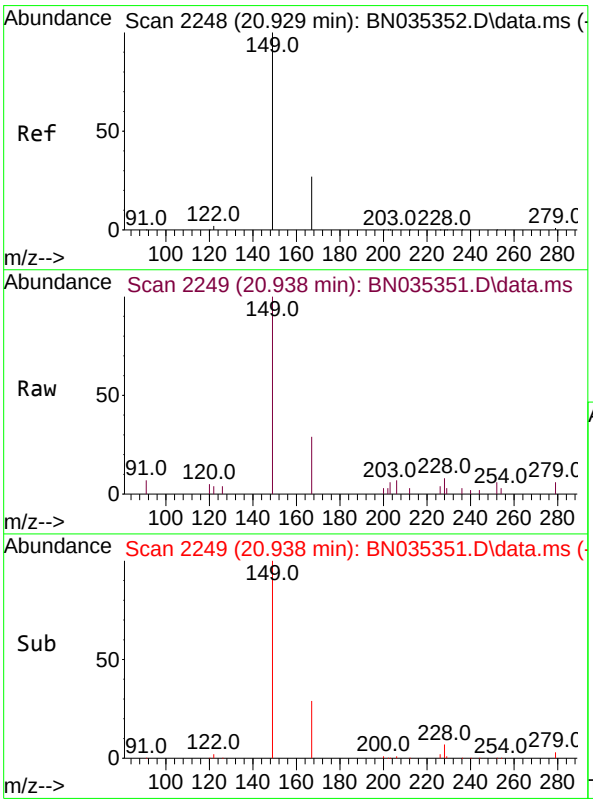
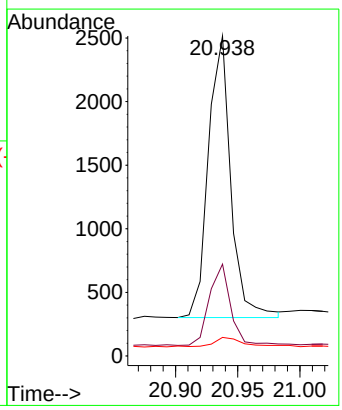
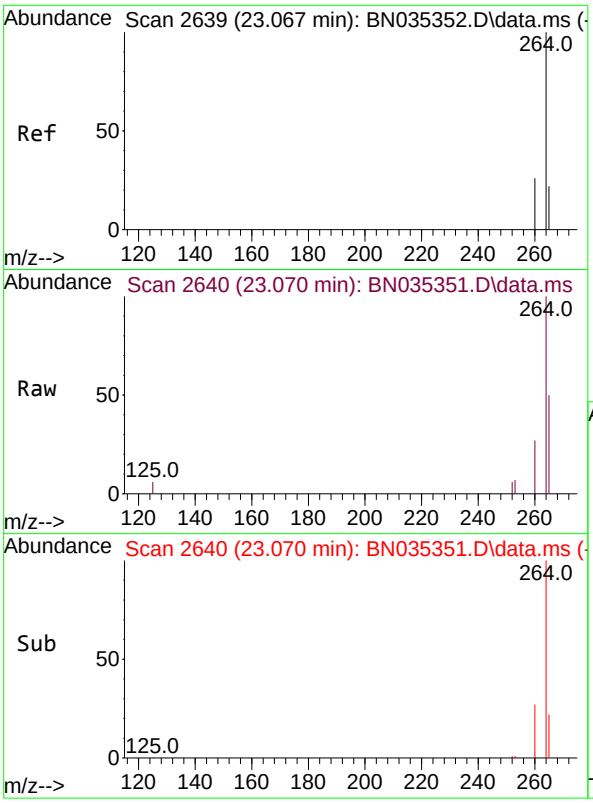


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#

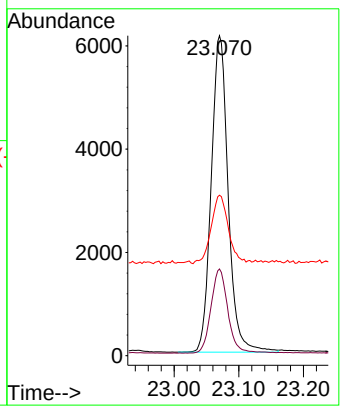




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:264 Resp: 1115

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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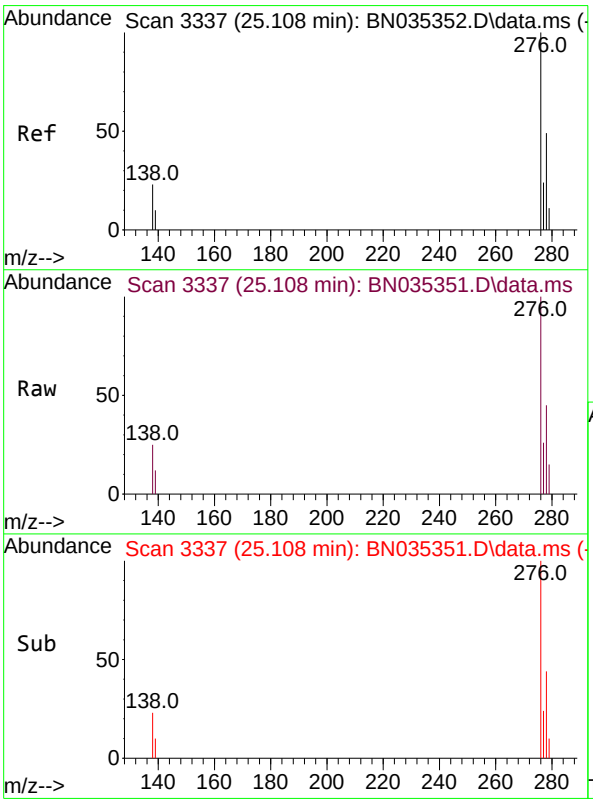
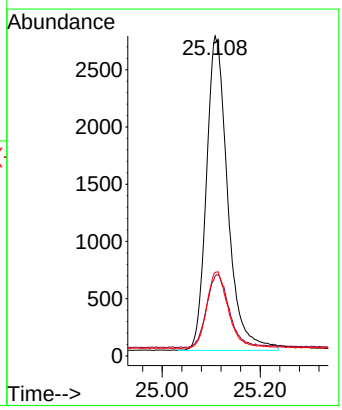
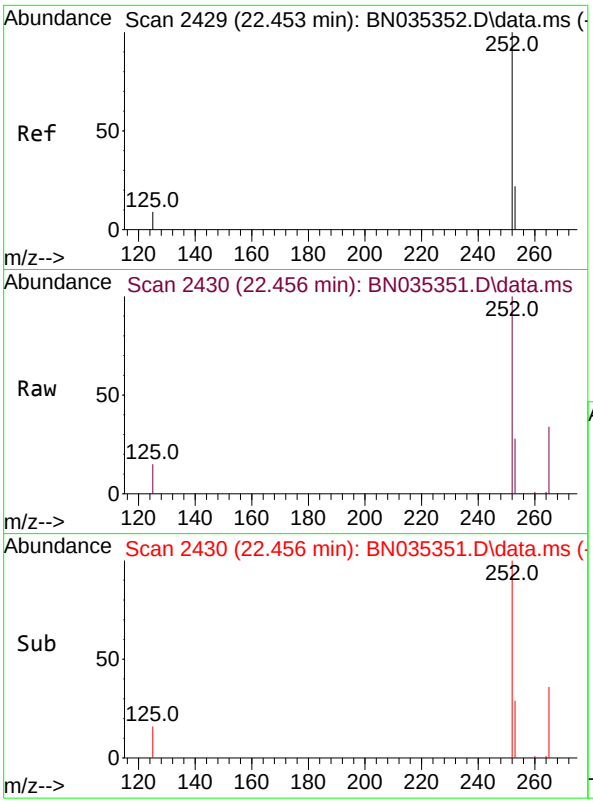


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

Ion	Ratio	Lower	Upper
276	100		
138	24.3	19.4	29.0
277	24.7	19.8	29.6

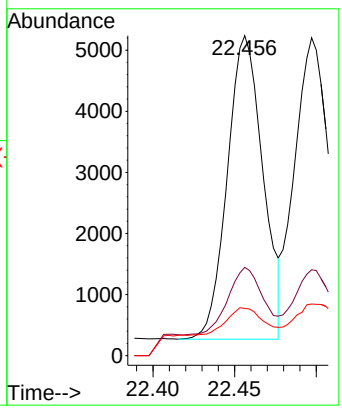




#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 752

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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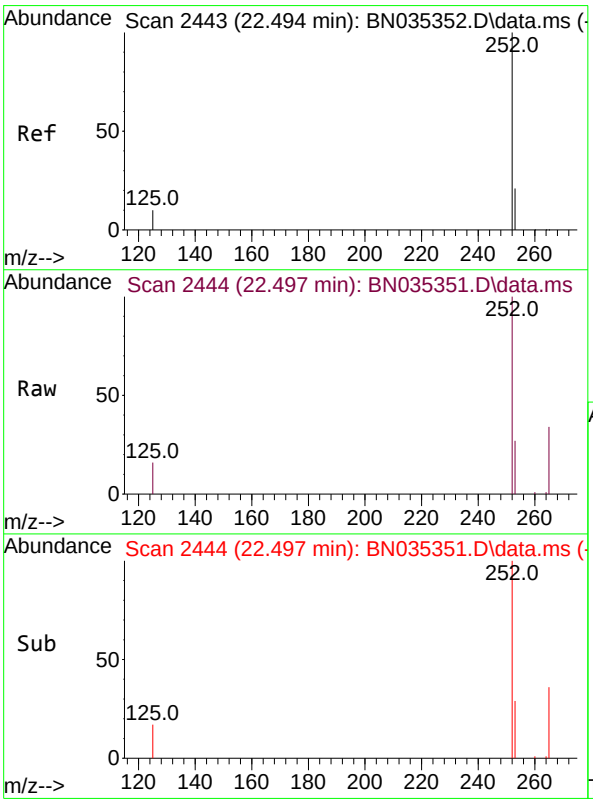
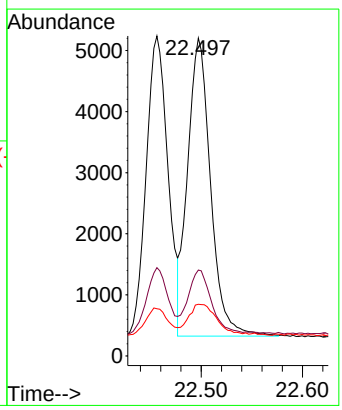
Supervised By :mohammad ahmed 11/29/2024

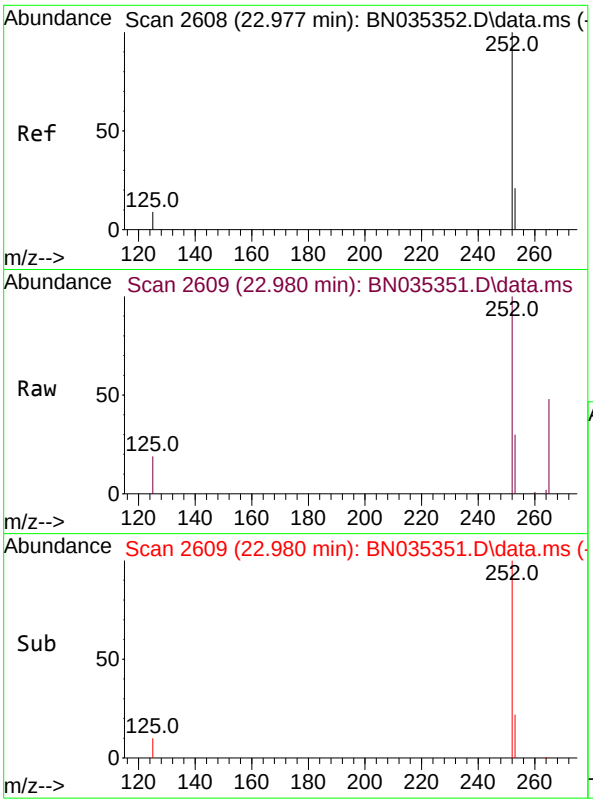


#38
Benzo(k)fluoranthene
Concen: 0.204 ng m
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7675

Ion	Ratio	Lower	Upper
252	100		
253	27.0	19.5	29.3
125	16.2	10.2	15.4#

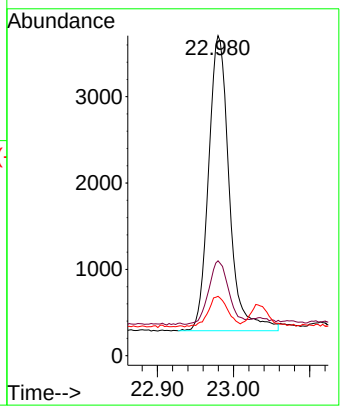




#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 645

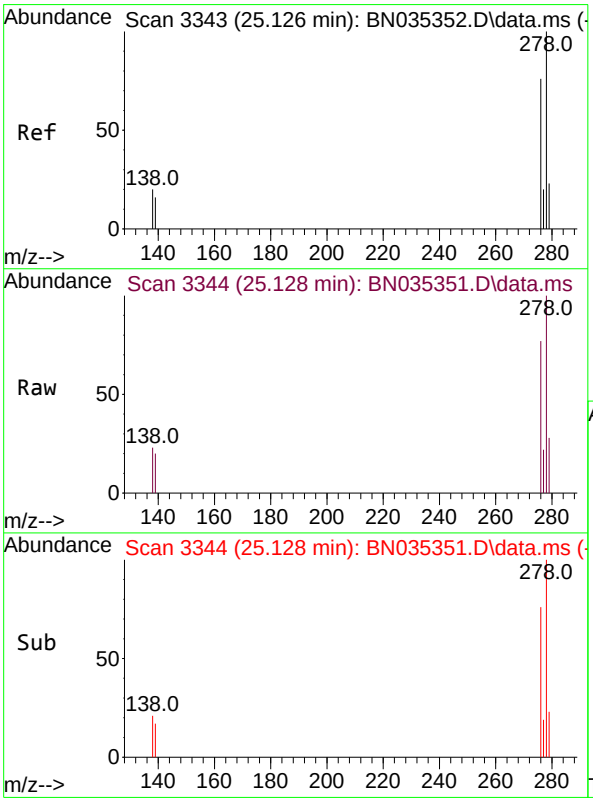
Ion	Ratio	Lower	Upper
252	100		
253	29.7	20.2	30.4
125	18.5	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

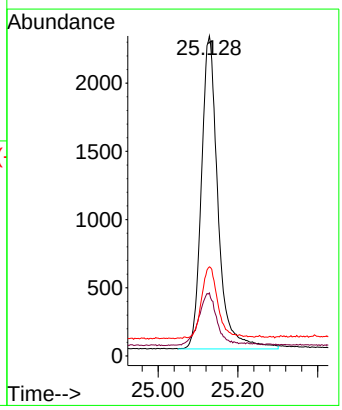
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

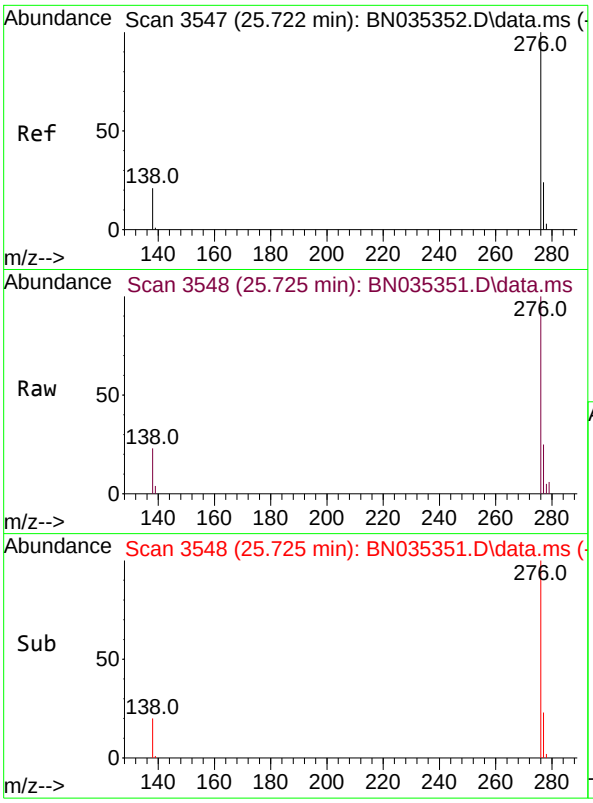


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.9	20.5	30.7

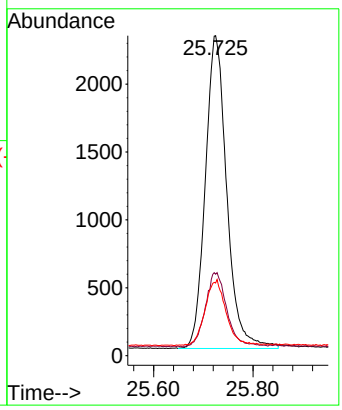




#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 690

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng		0.00
35) Perylene-d12	23.067	264	10842	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	2085	0.401	ng		0.00
5) Phenol-d6	6.513	99	2444	0.375	ng		0.00
8) Nitrobenzene-d5	8.440	82	1228m	0.270	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	3237	0.347	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	975	0.356	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	5735	0.372	ng		0.00
27) Fluoranthene-d10	18.785	212	10223	0.352	ng		0.00
31) Terphenyl-d14	19.412	244	7533	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	771	0.414	ng		100
3) n-Nitrosodimethylamine	3.292	42	668	0.385	ng		100
6) bis(2-Chloroethyl)ether	6.759	93	2032	0.415	ng		100
9) Naphthalene	10.105	128	5475	0.401	ng		100
10) Hexachlorobutadiene	10.404	225	1292	0.323	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3867	0.384	ng		100
16) Acenaphthylene	13.679	152	6058	0.373	ng		100
17) Acenaphthene	14.031	154	4125	0.388	ng		100
18) Fluorene	15.026	166	5863	0.375	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	337	0.171	ng		100
21) 4-Bromophenyl-phenylether	15.941	248	2146	0.355	ng		100
22) Hexachlorobenzene	16.040	284	2590	0.413	ng		100
23) Atrazine	16.227	200	1461	0.269	ng		100
24) Pentachlorophenol	16.400	266	906	0.309	ng		87
25) Phenanthrene	16.773	178	10127	0.405	ng		100
26) Anthracene	16.860	178	8921	0.389	ng		100
28) Fluoranthene	18.817	202	13438	0.391	ng		100
30) Pyrene	19.179	202	14053	0.443	ng		100
32) Benzo(a)anthracene	20.956	228	12908	0.389	ng		100
33) Chrysene	21.009	228	13729	0.418	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.282	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	16615	0.384	ng		100
37) Benzo(b)fluoranthene	22.453	252	14235	0.390	ng		100
38) Benzo(k)fluoranthene	22.494	252	15199	0.416	ng		100
39) Benzo(a)pyrene	22.977	252	12425	0.387	ng		100
40) Dibenzo(a,h)anthracene	25.126	278	12948	0.378	ng		100
41) Benzo(g,h,i)perylene	25.722	276	13529	0.371	ng		100

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

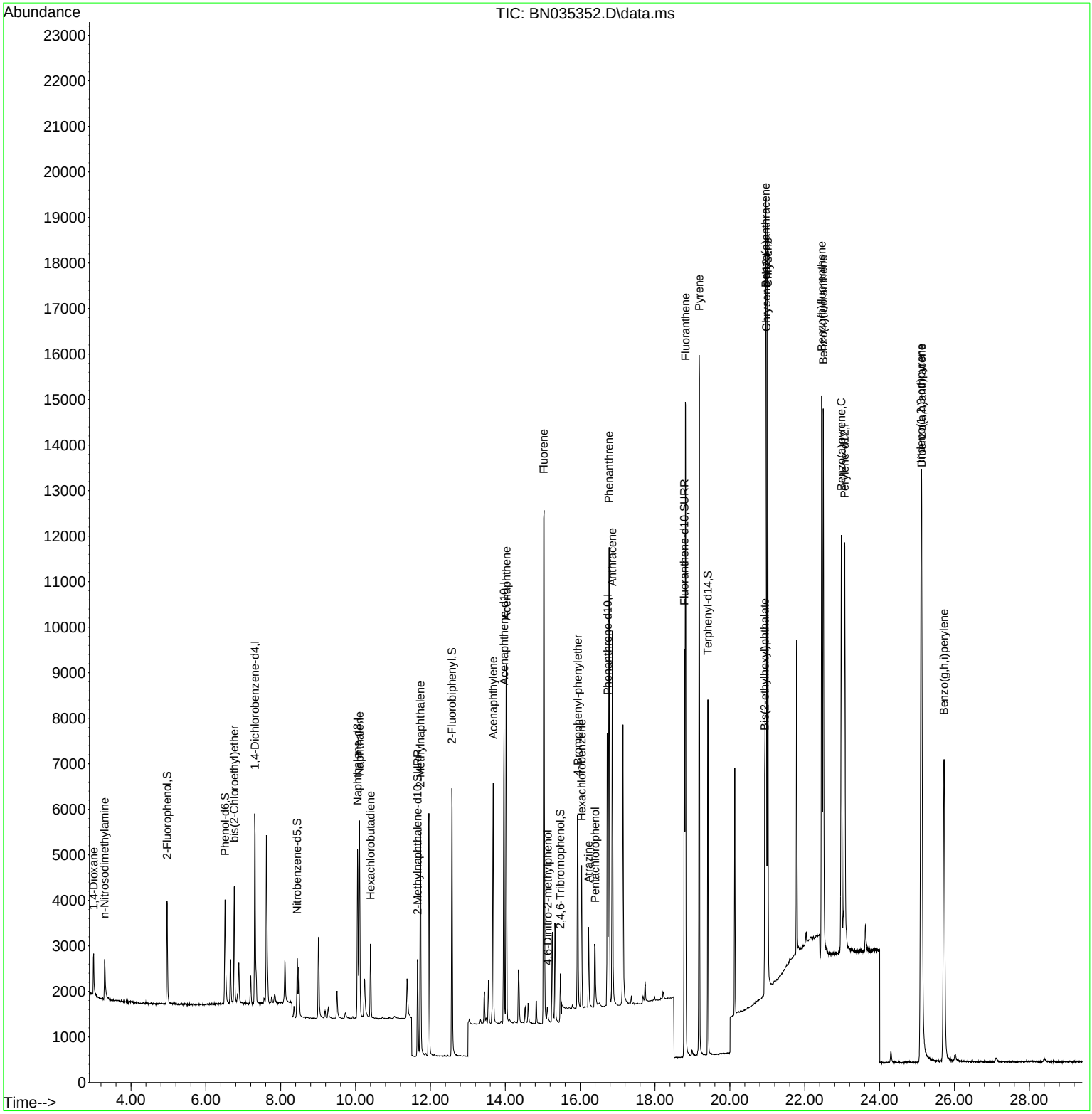
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

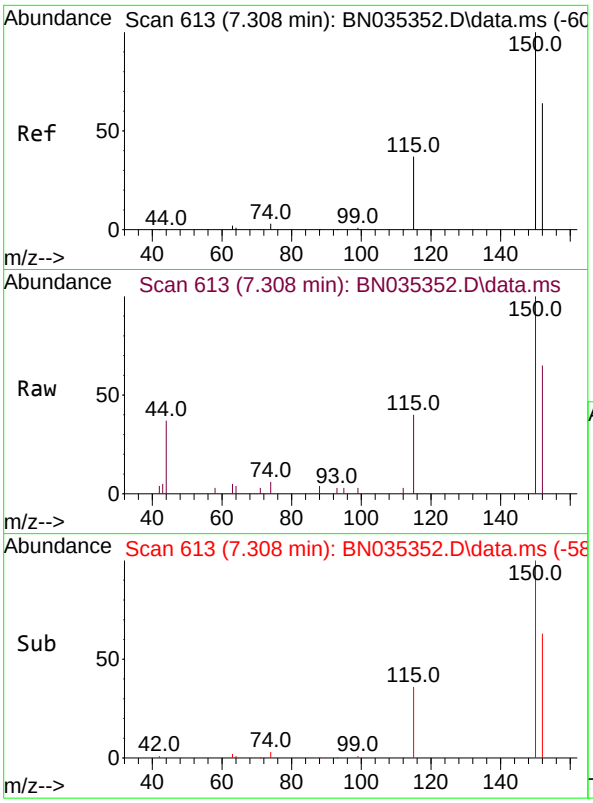
Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

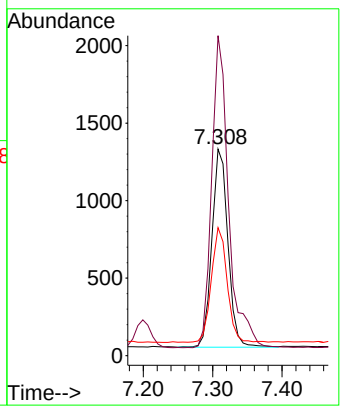




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 204

Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.0	186.0
115	62.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

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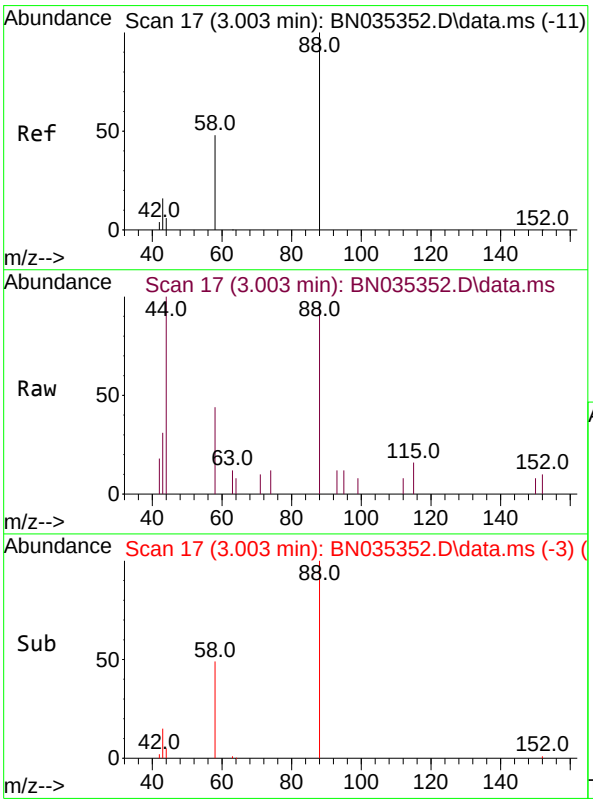
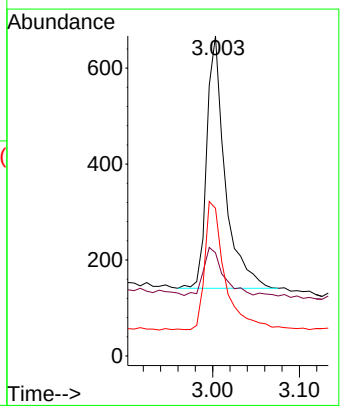
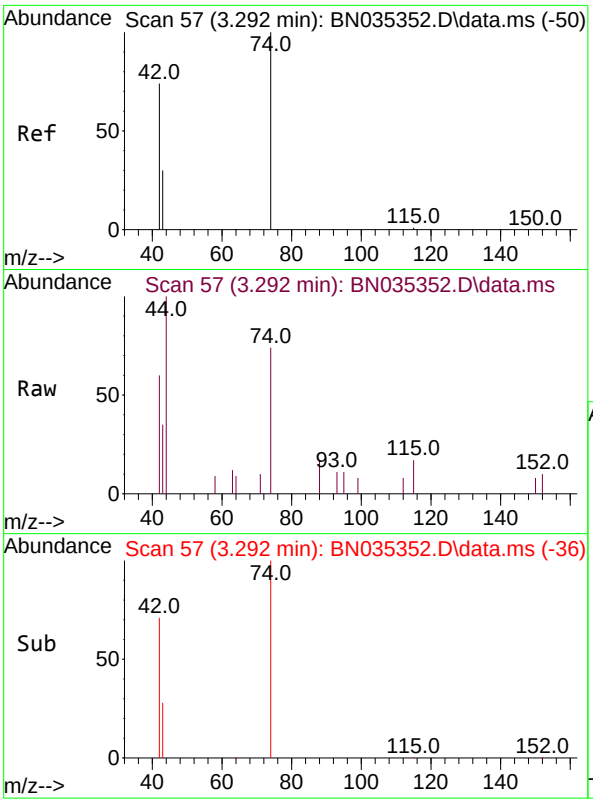


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	55.6	44.5	66.7

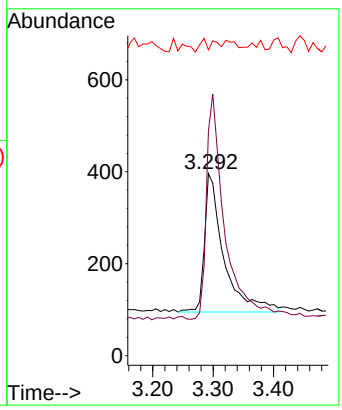




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 42 Resp: 66

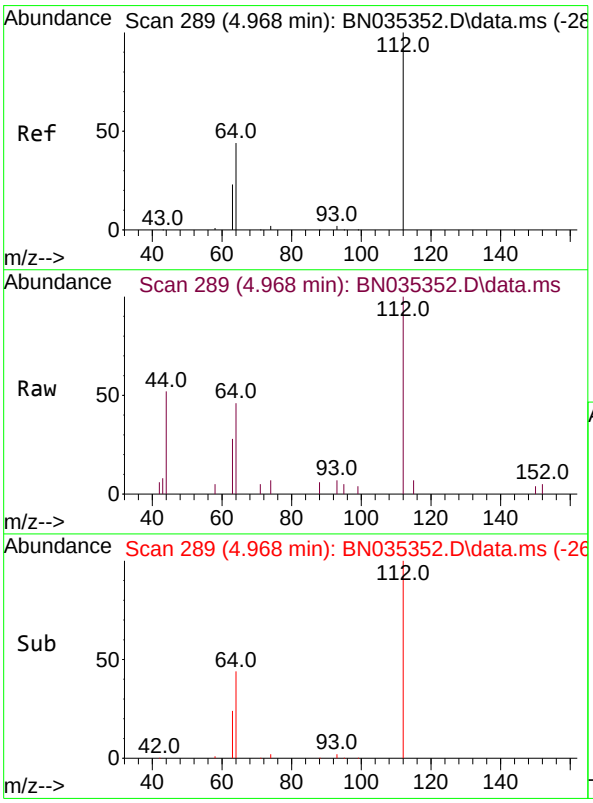
Ion	Ratio	Lower	Upper
42	100		
74	156.1	124.9	187.3
44	2.8	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

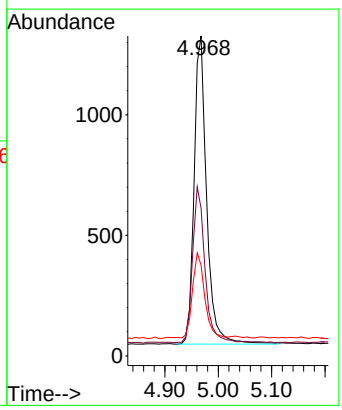
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

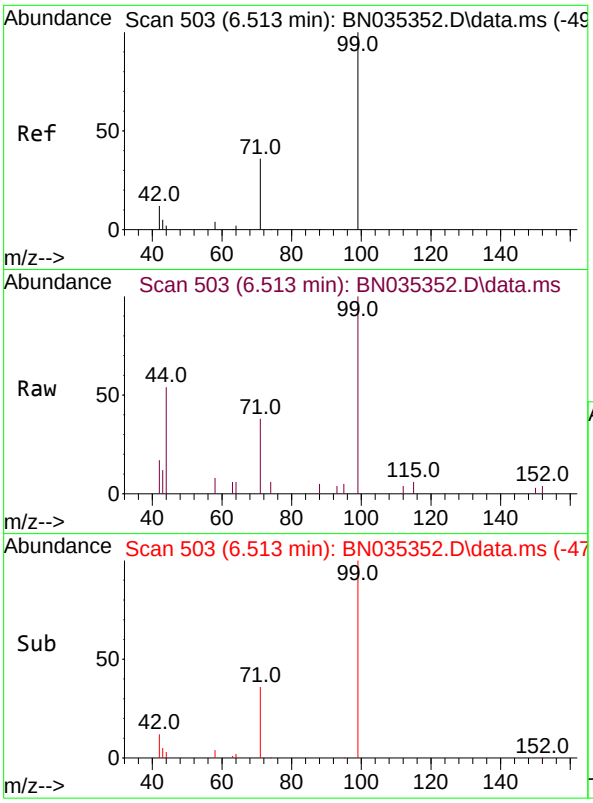


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:112 Resp: 2085

Ion	Ratio	Lower	Upper
112	100		
64	49.8	39.8	59.8
63	26.3	21.0	31.6

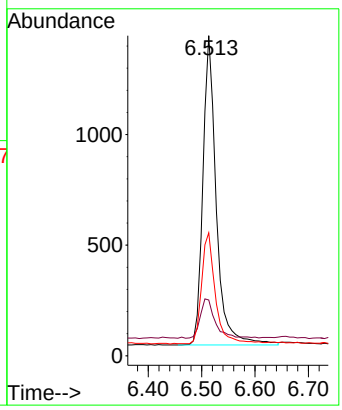




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 99 Resp: 244

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
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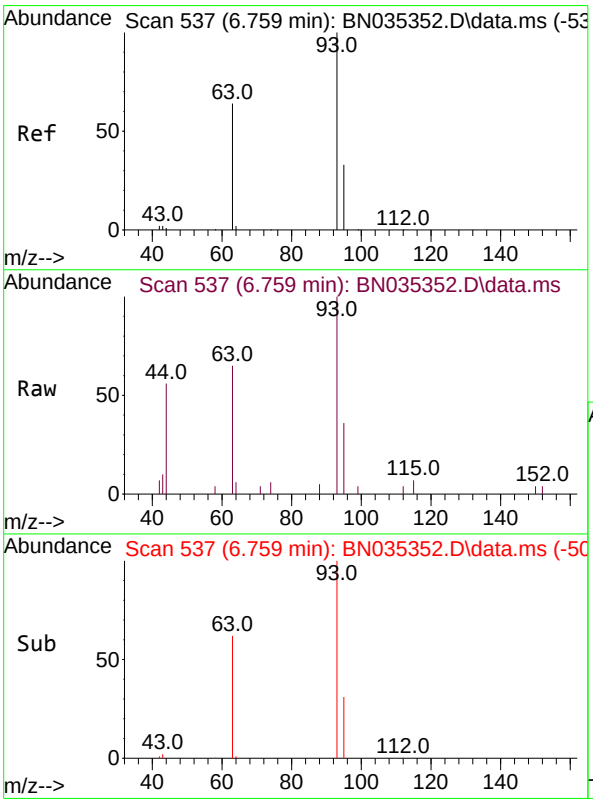
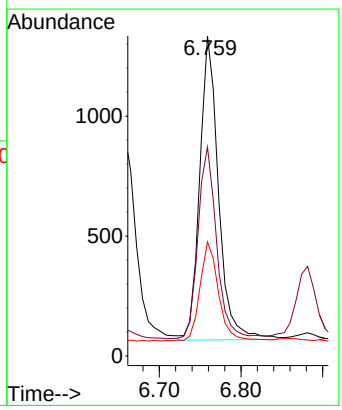
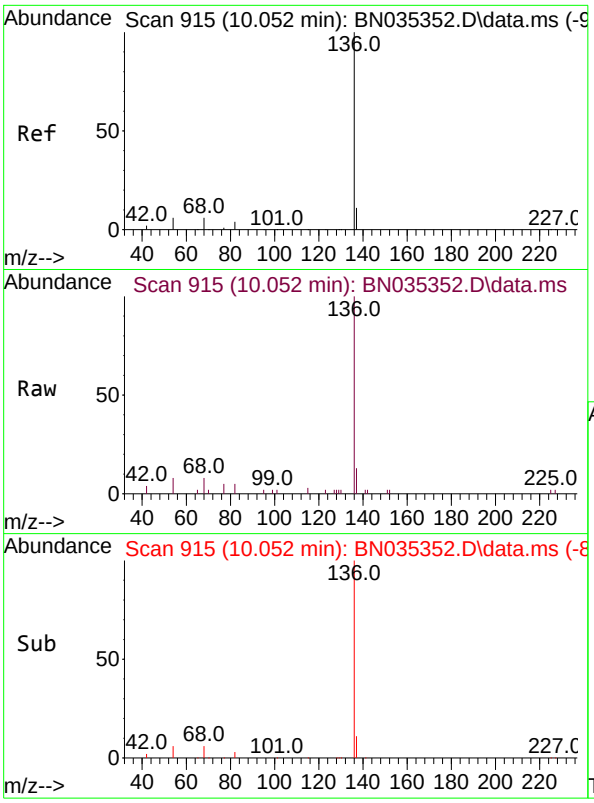


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5

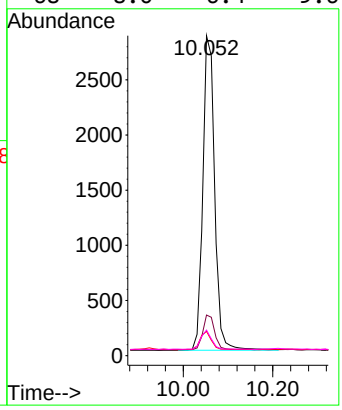




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:136 Resp: 522

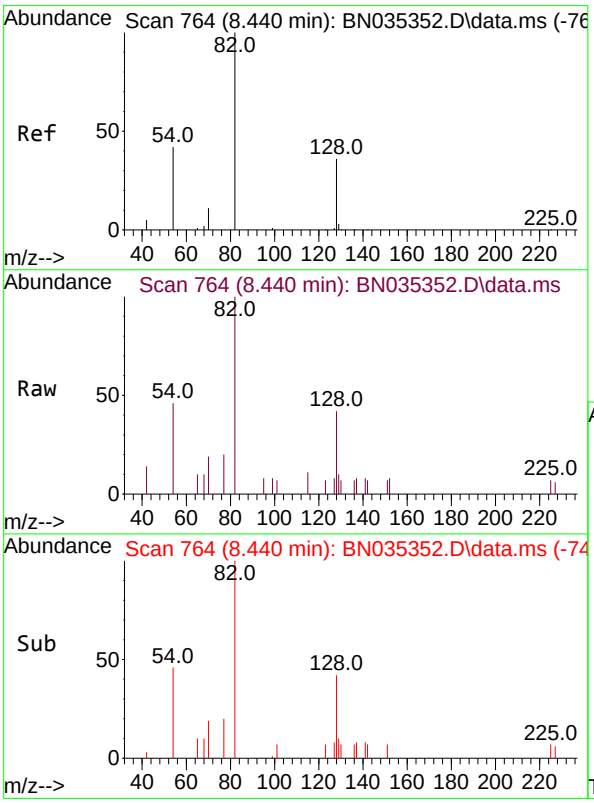
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

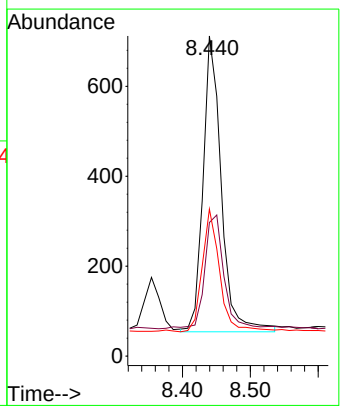
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

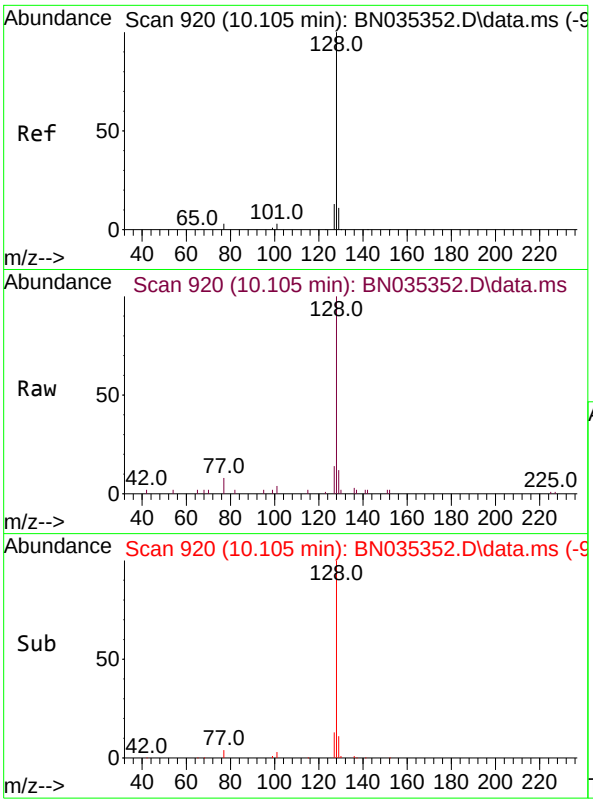


#8
Nitrobenzene-d5
Concen: 0.270 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1228

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1

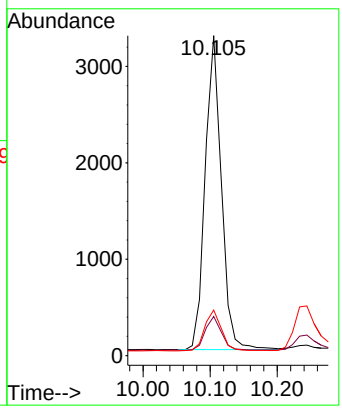




#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:128 Resp: 547

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
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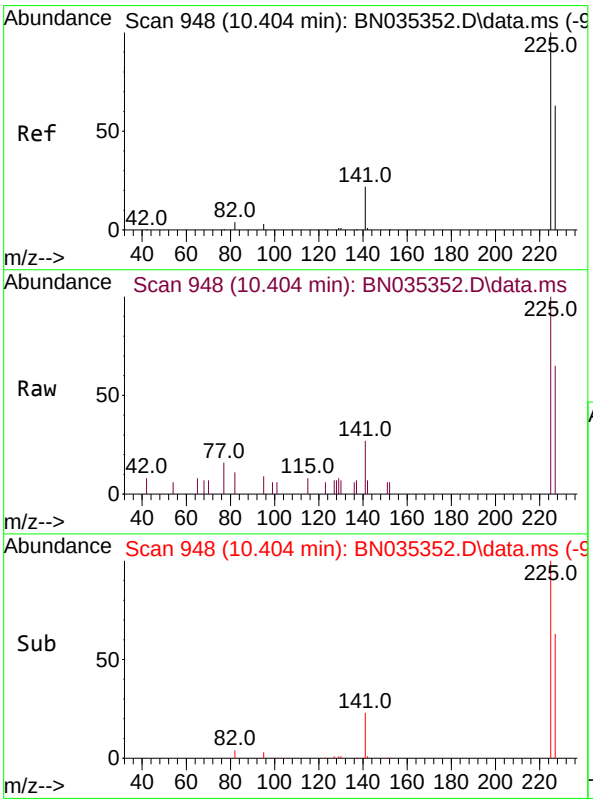
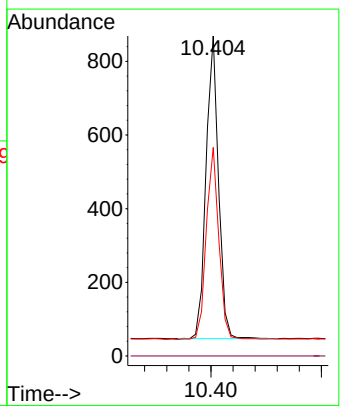
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

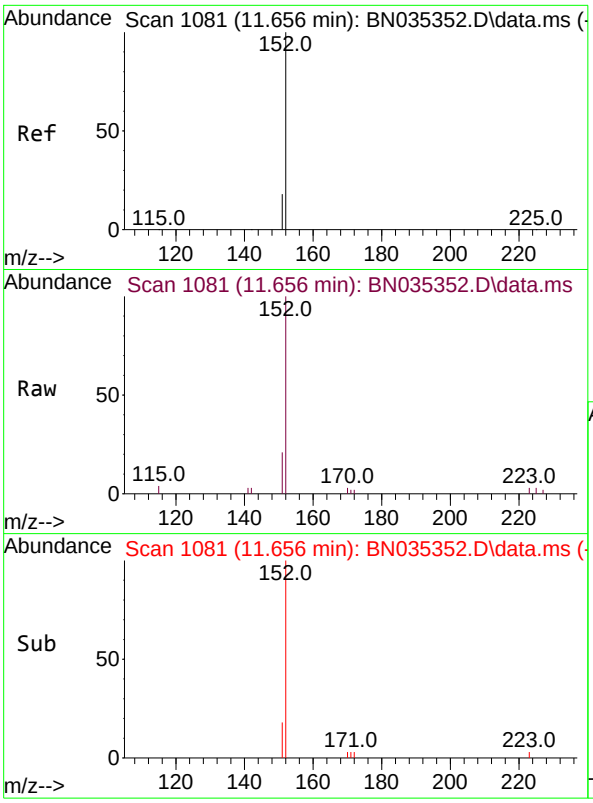


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9

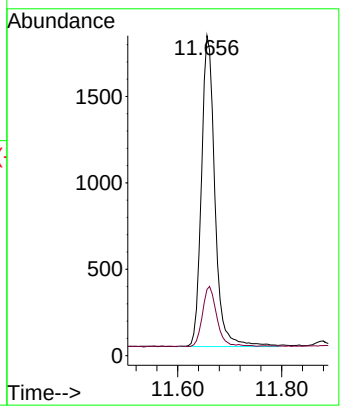




#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 323

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
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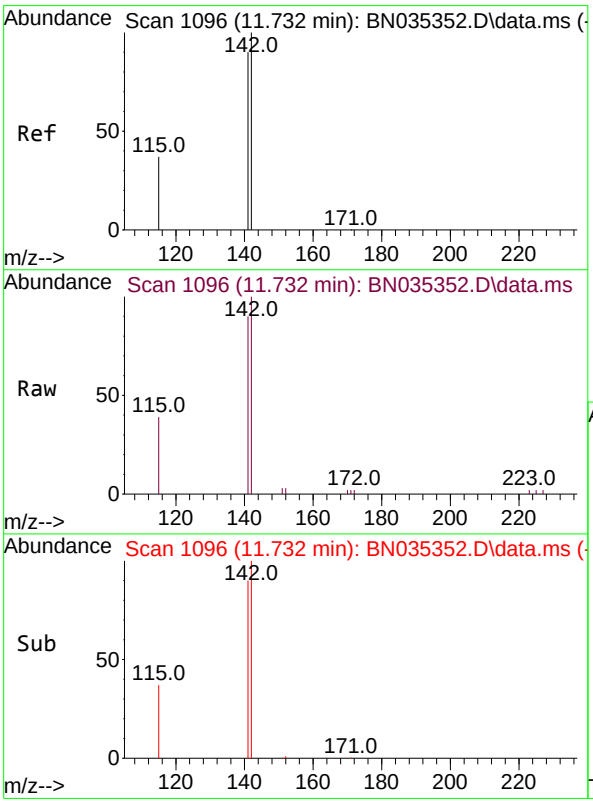
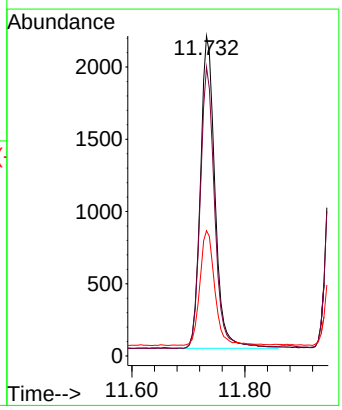
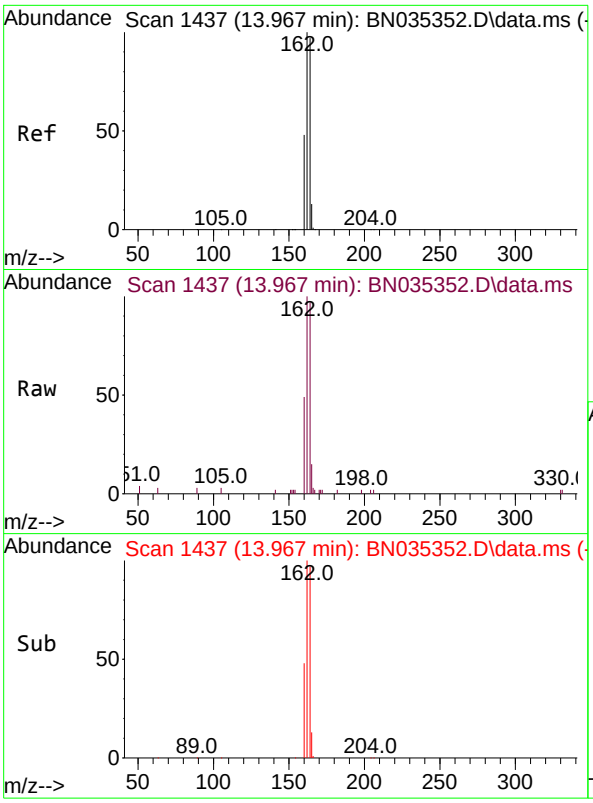


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.2	31.4	47.0

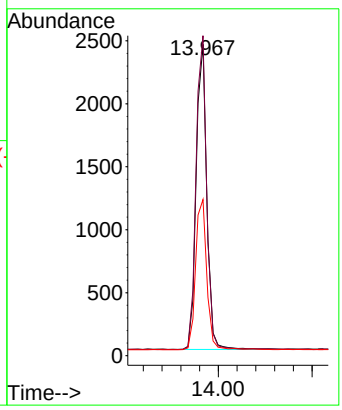




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:164 Resp: 3799

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.1	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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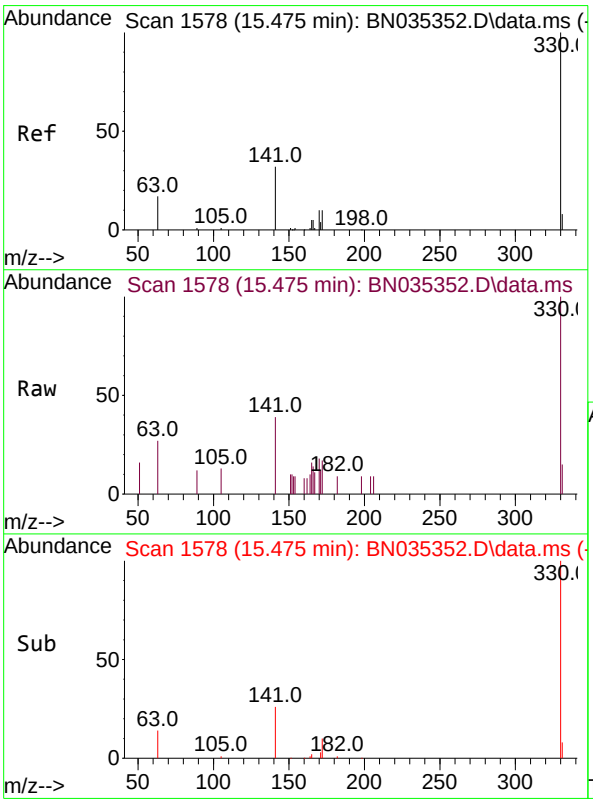
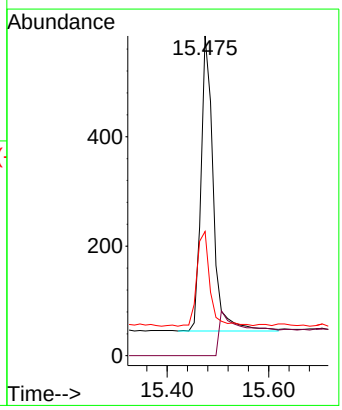
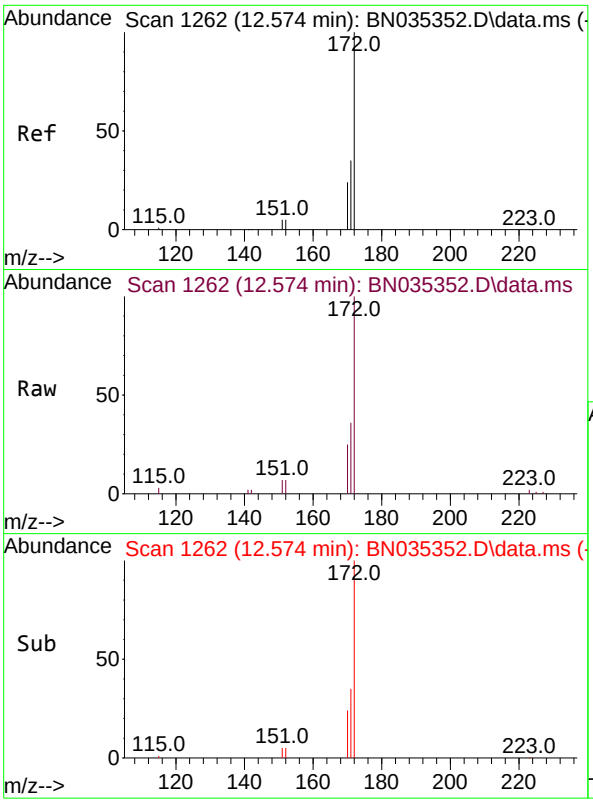


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0

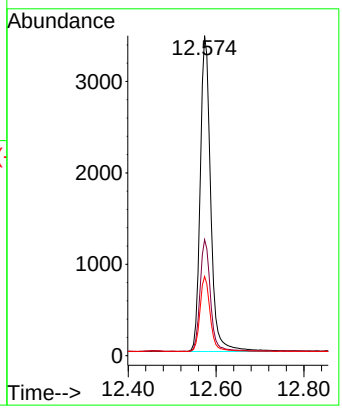




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:172 Resp: 573

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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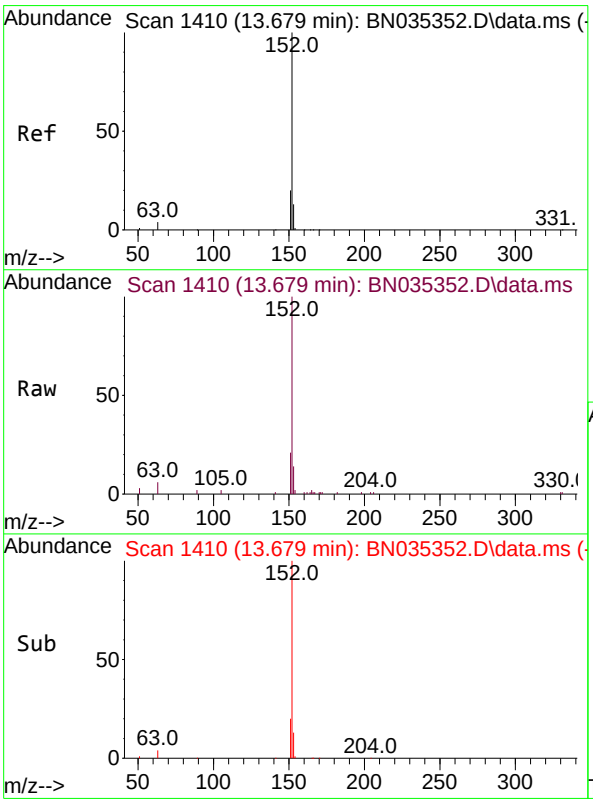
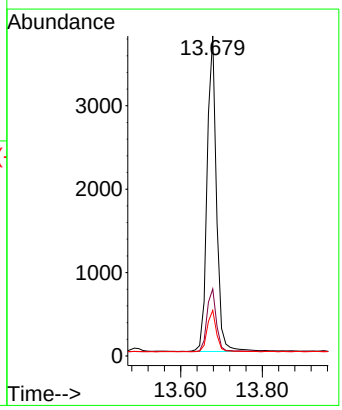
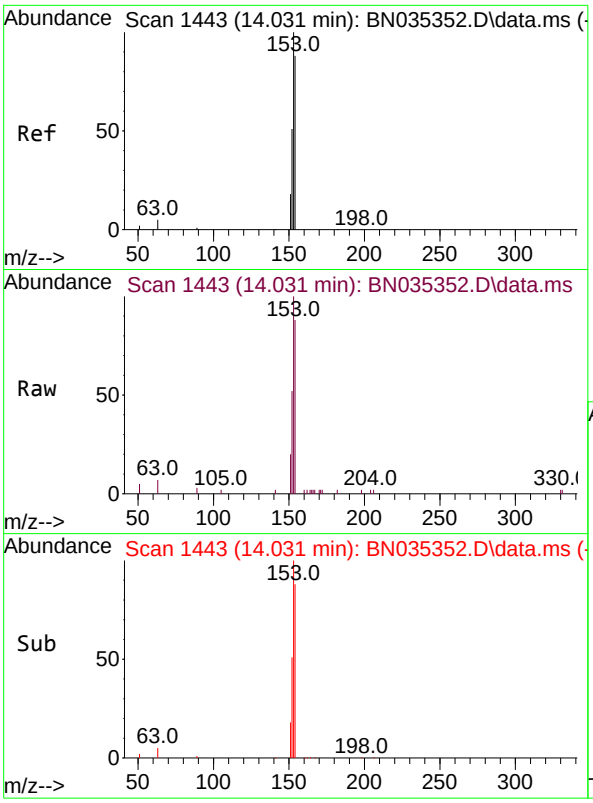


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6

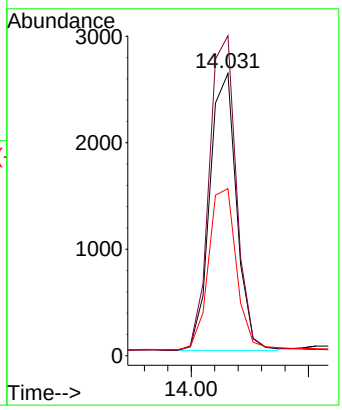




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:154 Resp: 412

Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	61.3	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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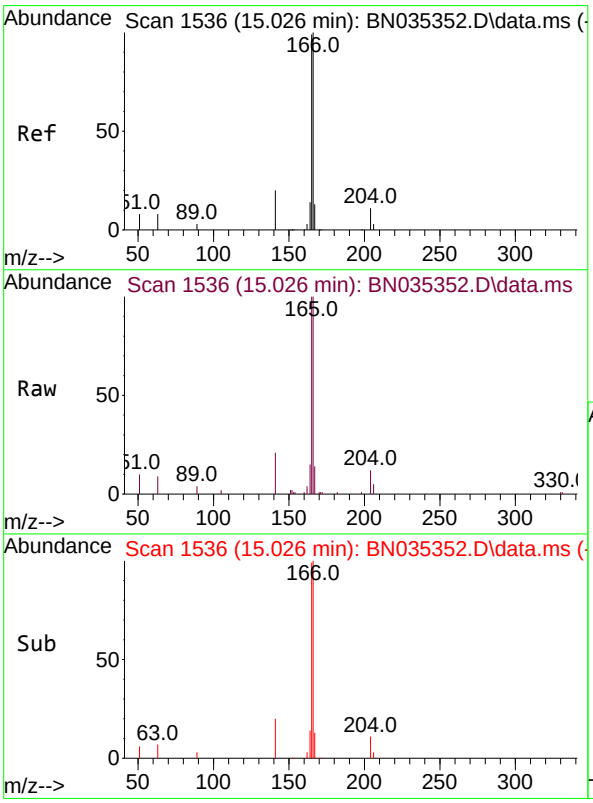
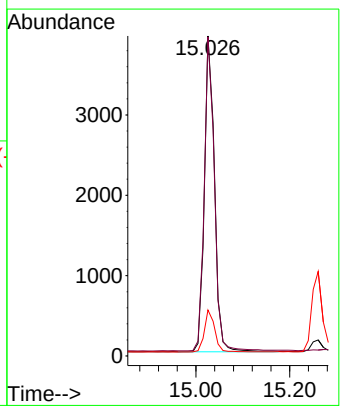
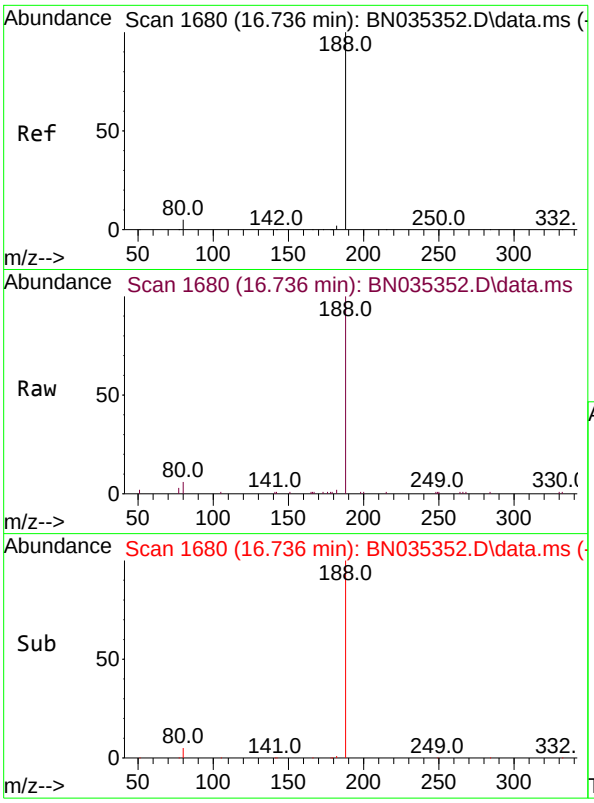


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.7	119.5
167	13.5	10.8	16.2

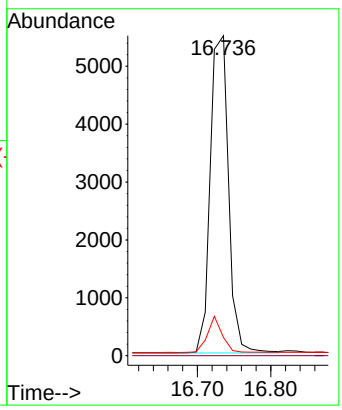




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:188 Resp: 949(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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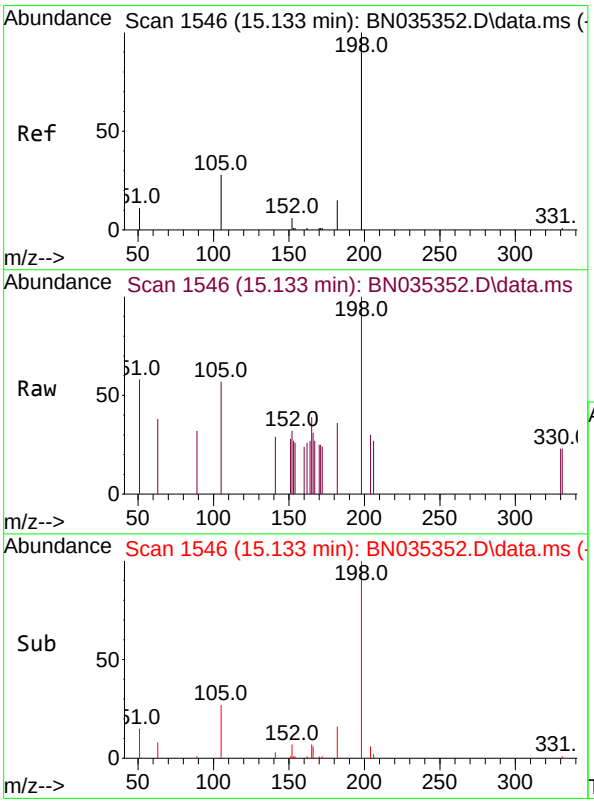
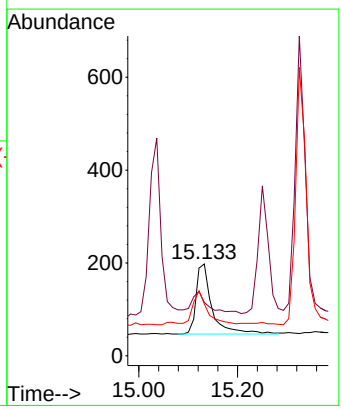
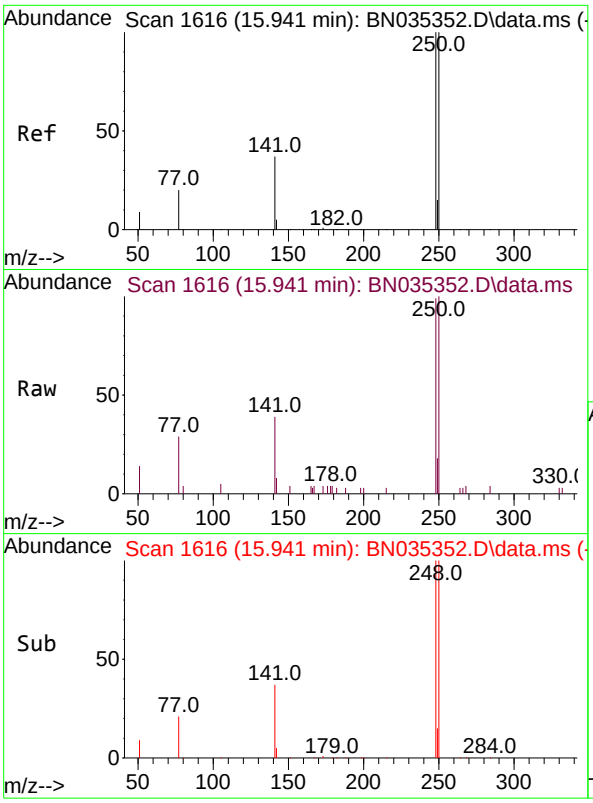


#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

Ion	Ratio	Lower	Upper
198	100		
51	58.1	46.5	69.7
105	56.6	45.3	67.9

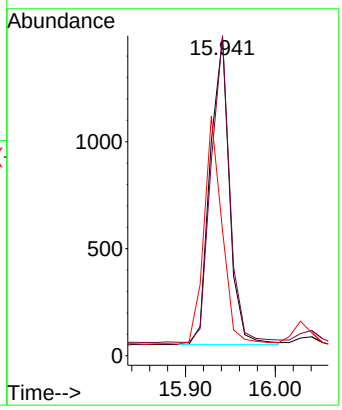




#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:248 Resp: 214(

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	39.4	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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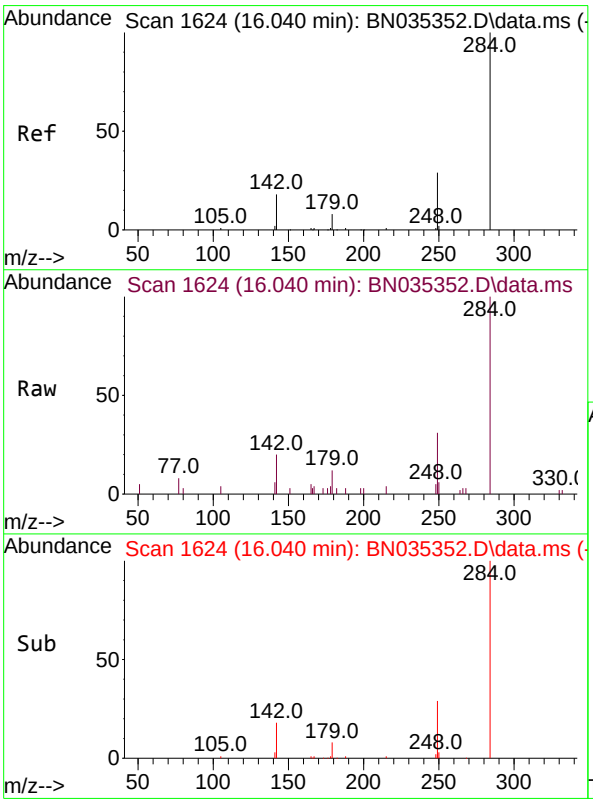
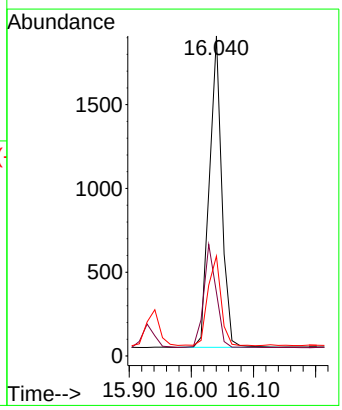
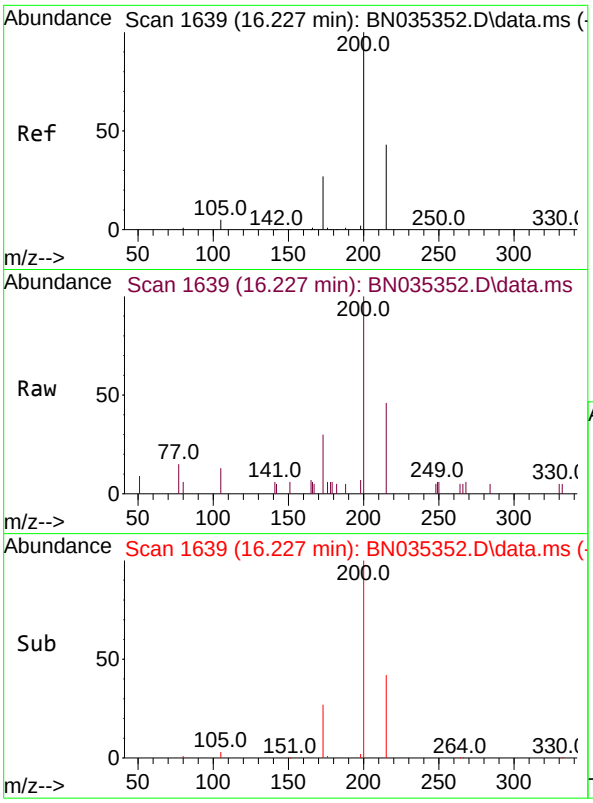


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.7	24.6	36.8

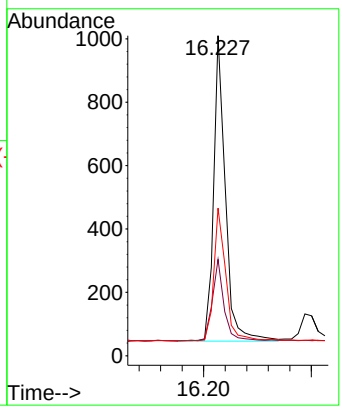




#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:200 Resp: 146

Ion	Ratio	Lower	Upper
200	100		
173	30.1	24.1	36.1
215	46.1	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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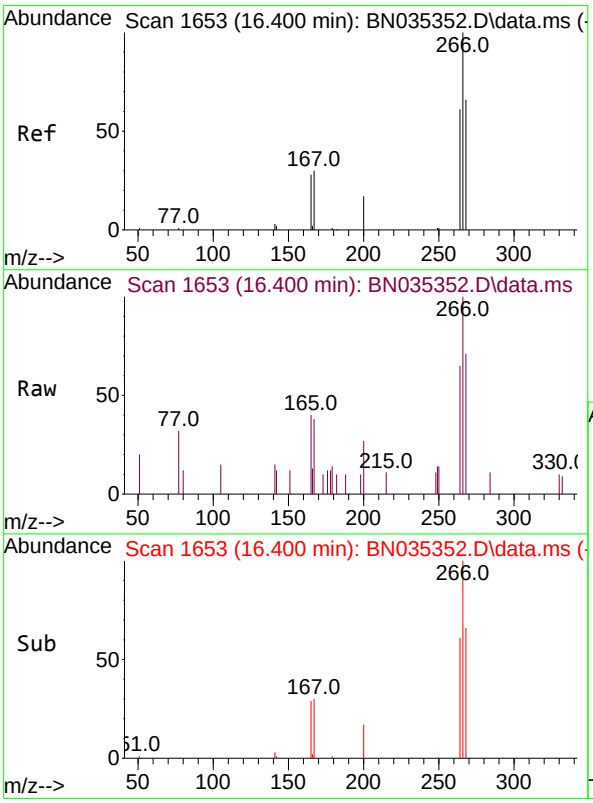
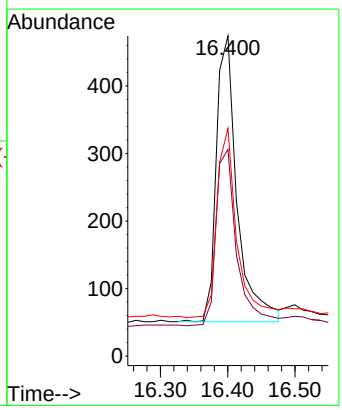
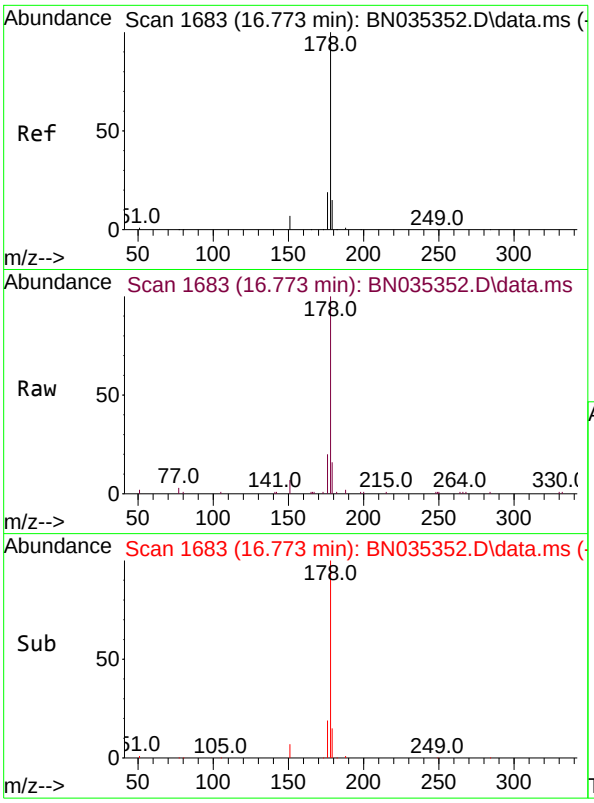


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	63.8	43.3	64.9

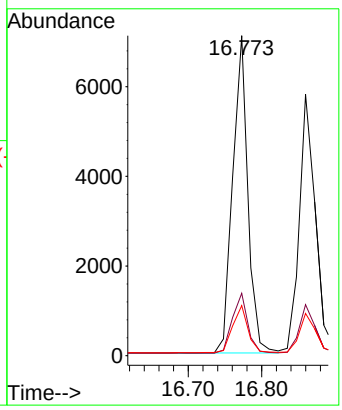




#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 1012

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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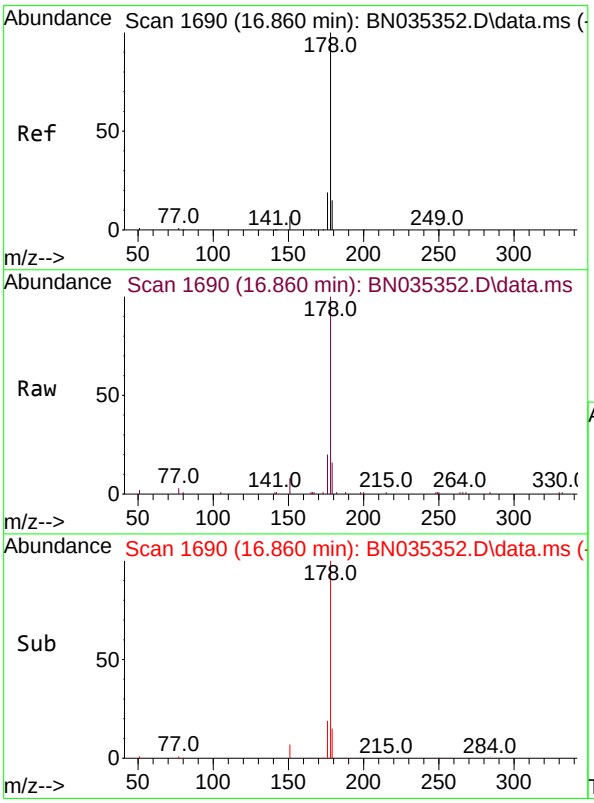
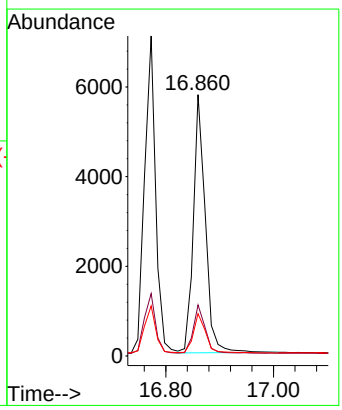
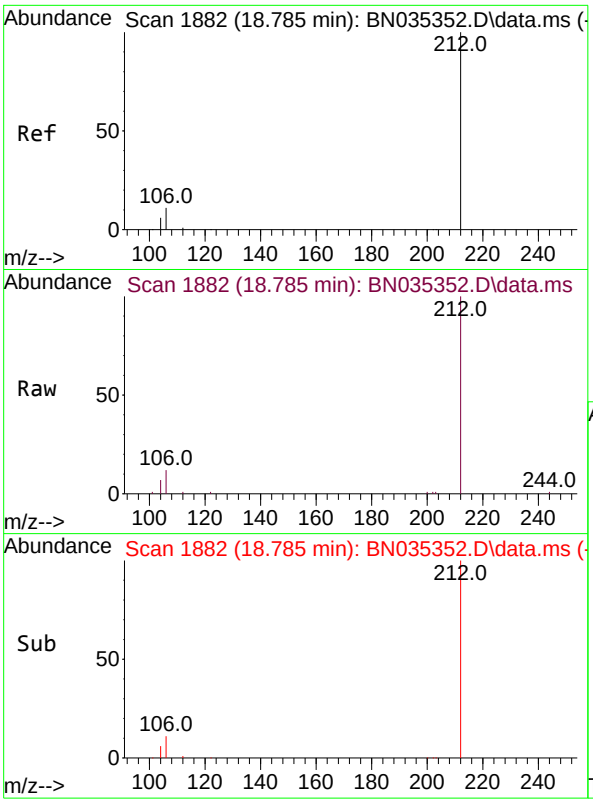


#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.7	12.6	18.8

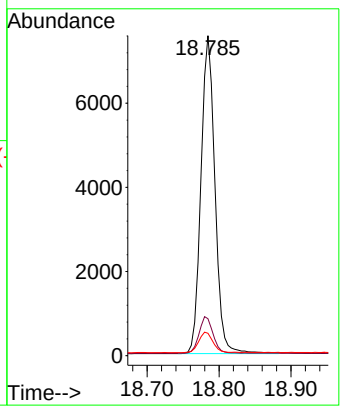




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:212 Resp: 1022

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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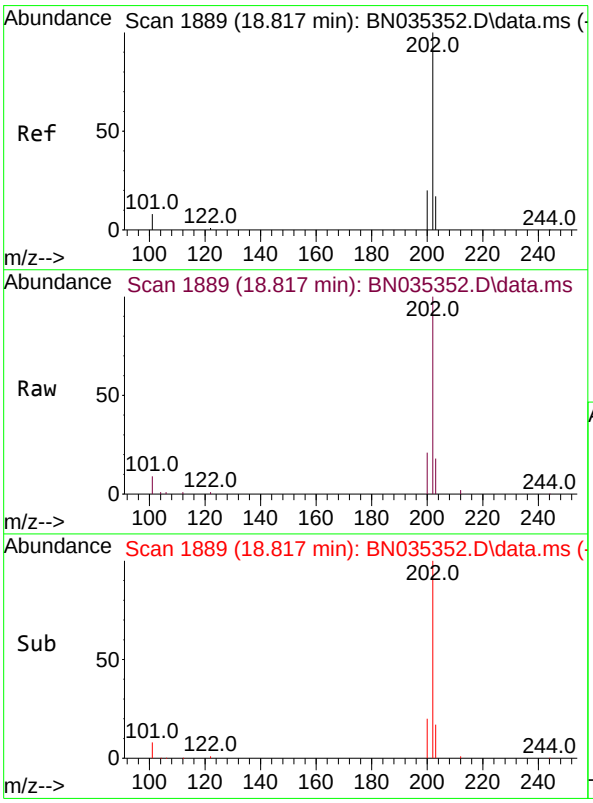
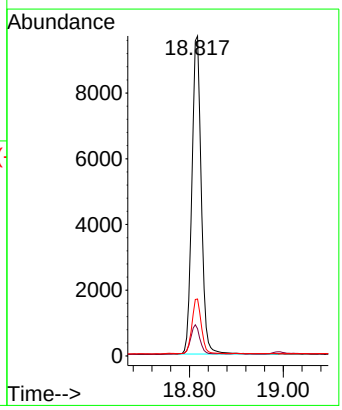
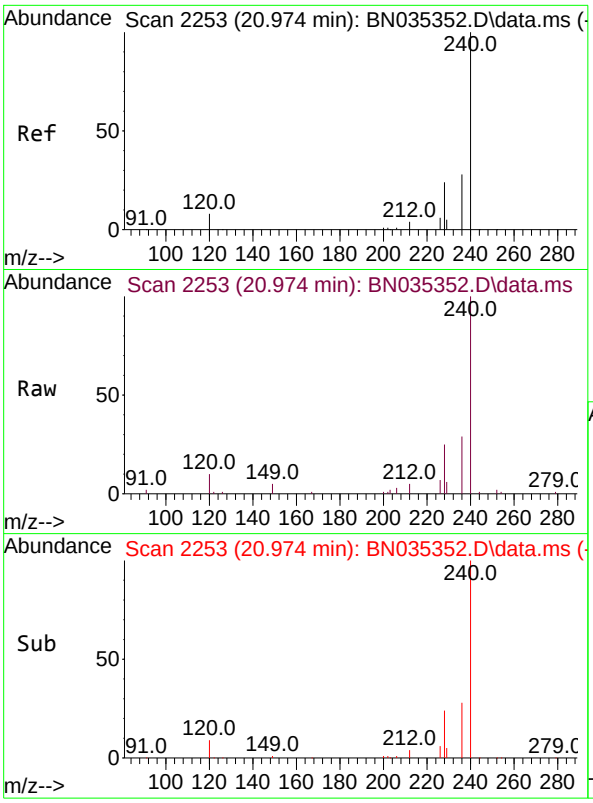


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5

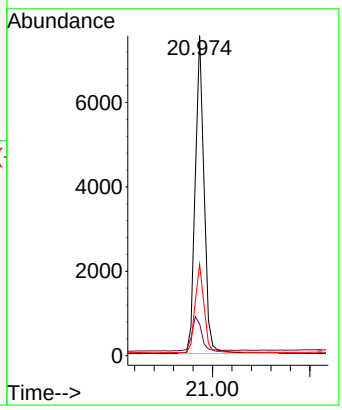




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:240 Resp: 952

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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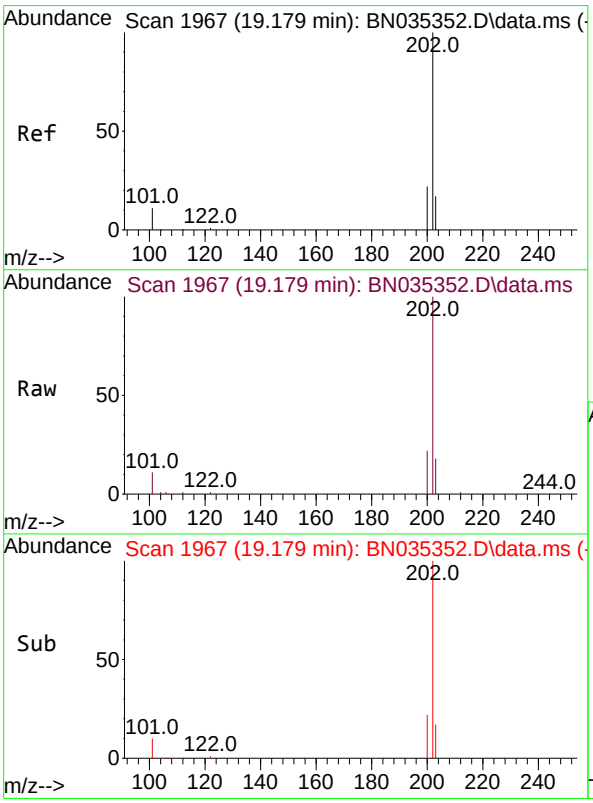
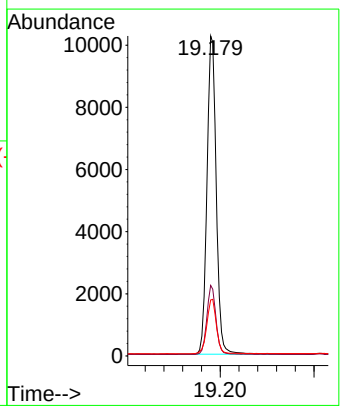
Supervised By :mohammad ahmed 11/29/2024

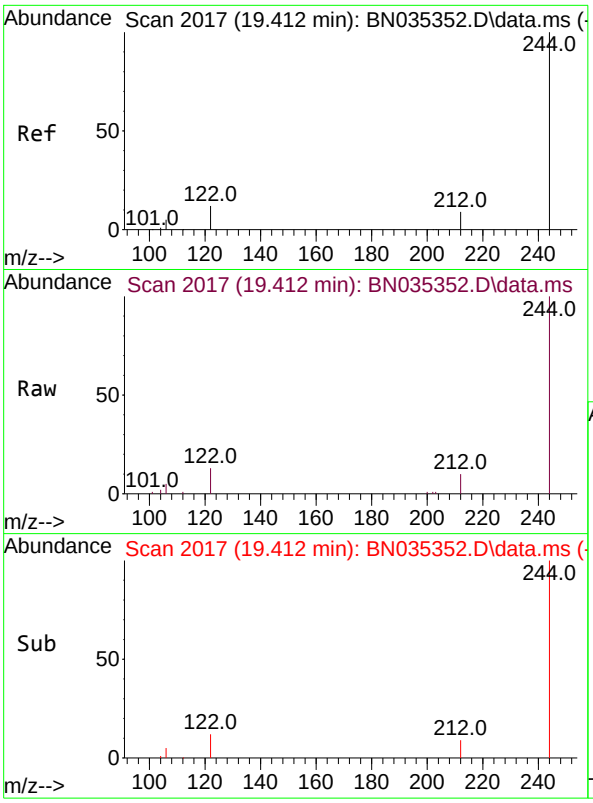


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5

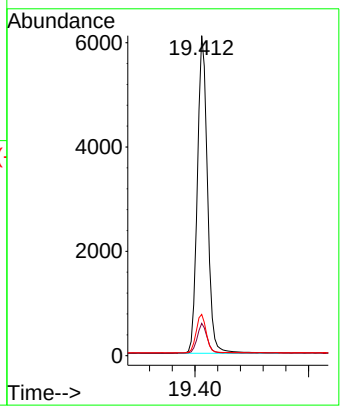




#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:244 Resp: 753

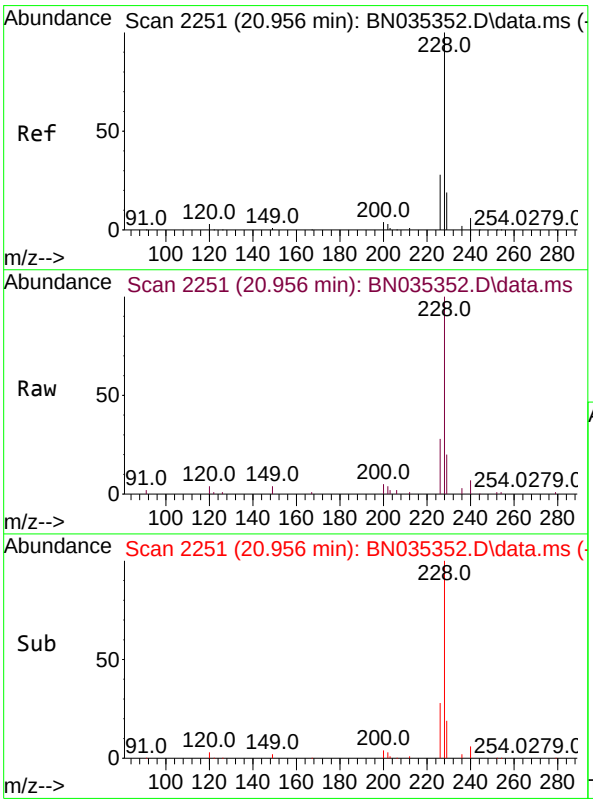
Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

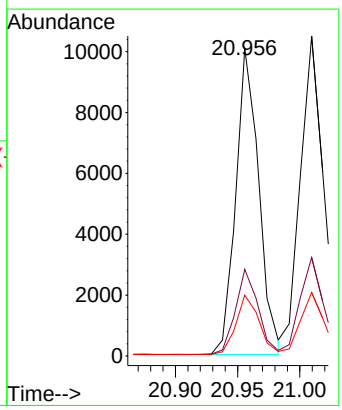
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

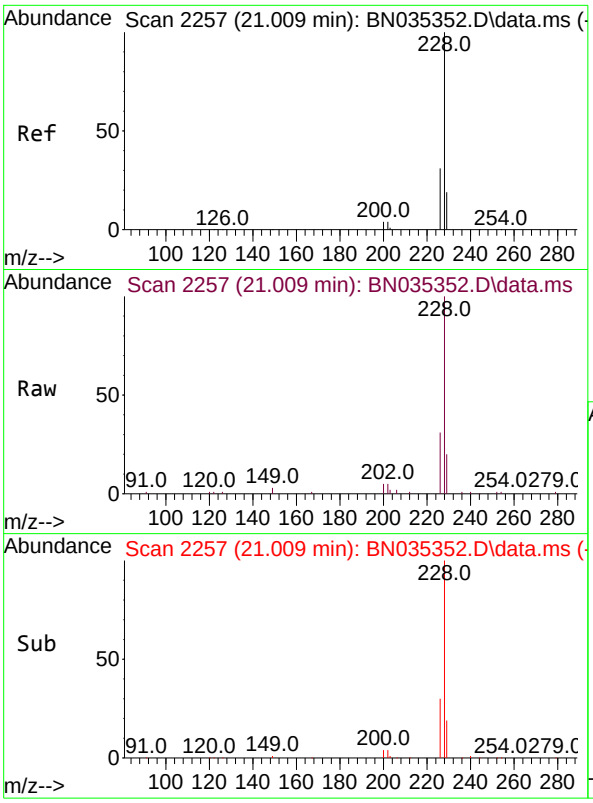


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.8	15.8	23.8

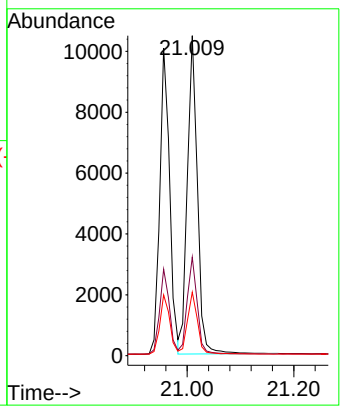




#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 1372

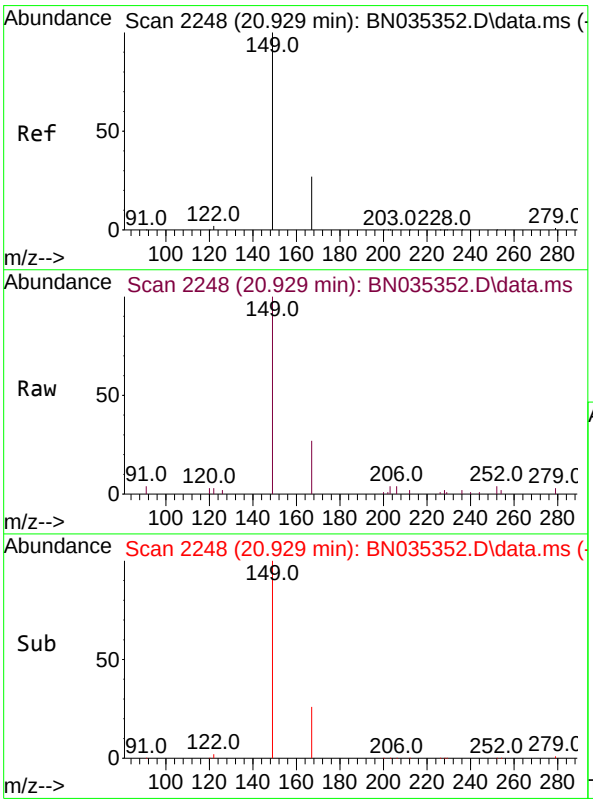
Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.9	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

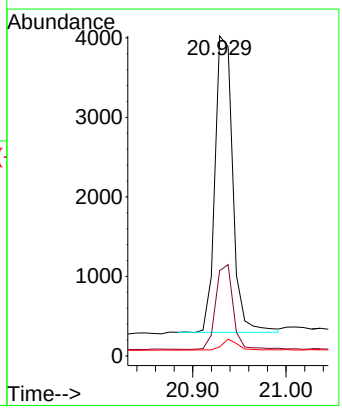
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

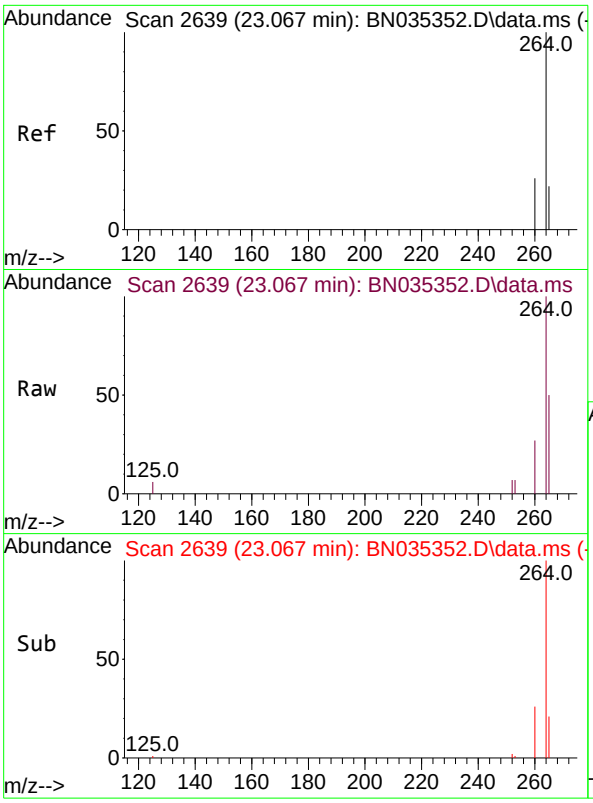


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.4	2.7	4.1

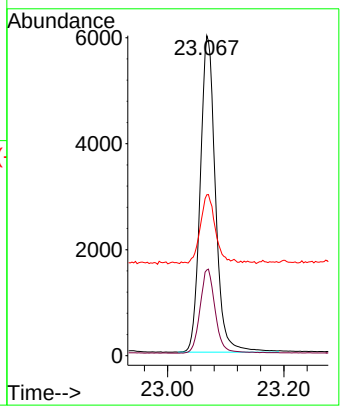




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:264 Resp: 1084

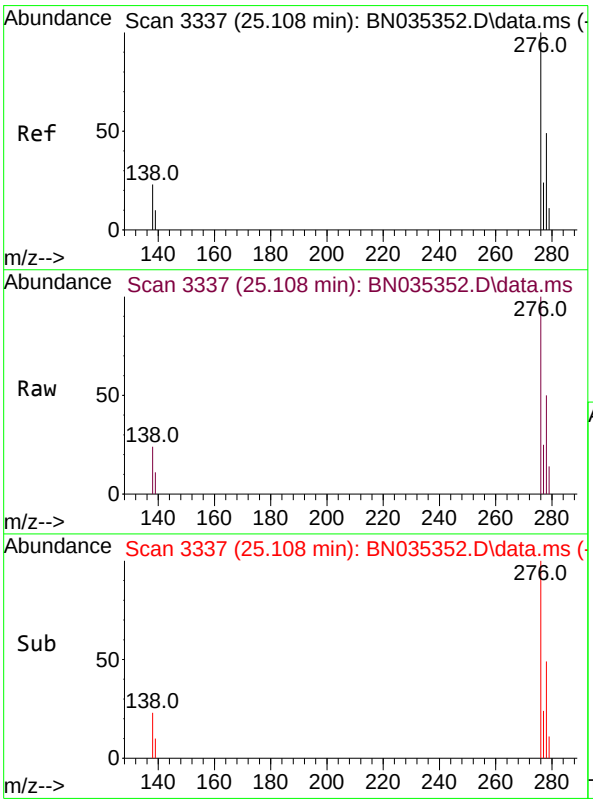
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

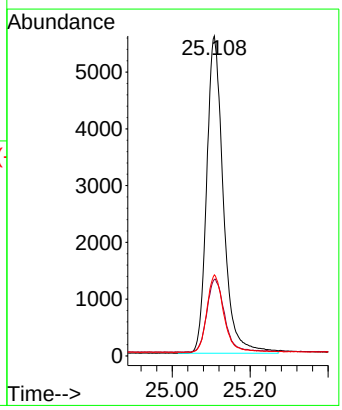
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

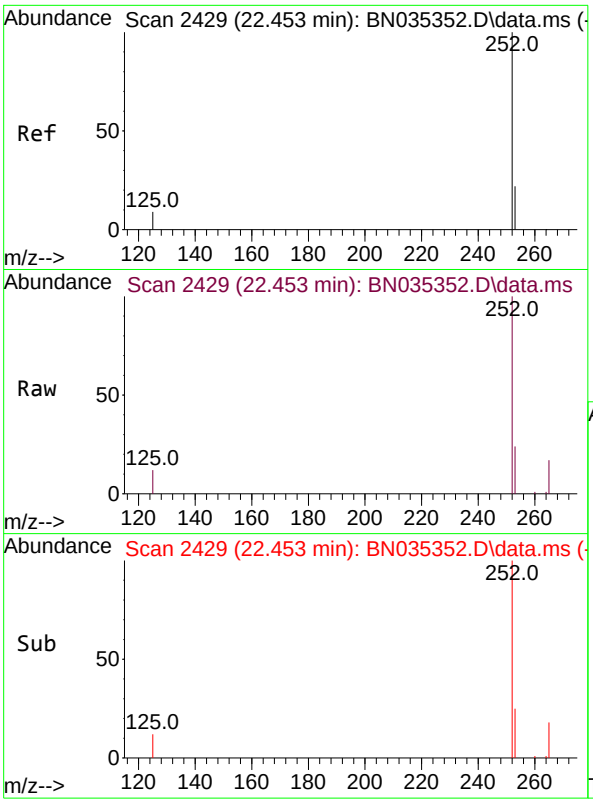


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615

Ion	Ratio	Lower	Upper
276	100		
138	24.2	19.4	29.0
277	24.7	19.8	29.6

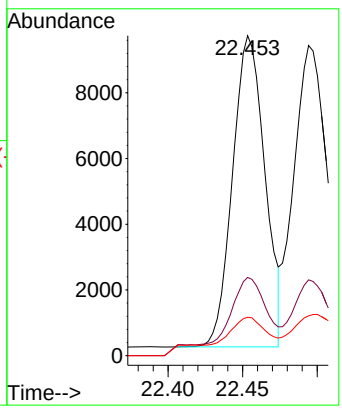




#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 1423

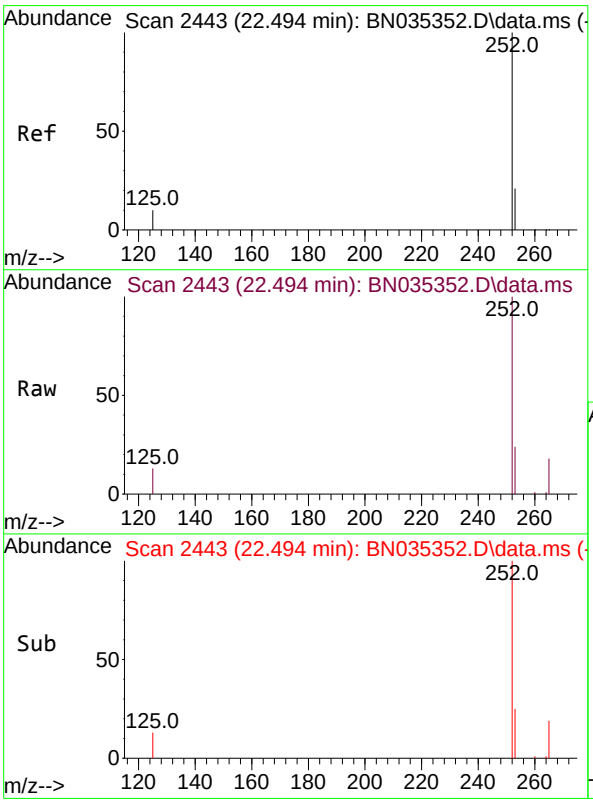
Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	12.0	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

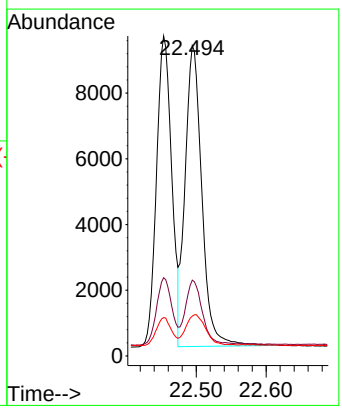
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

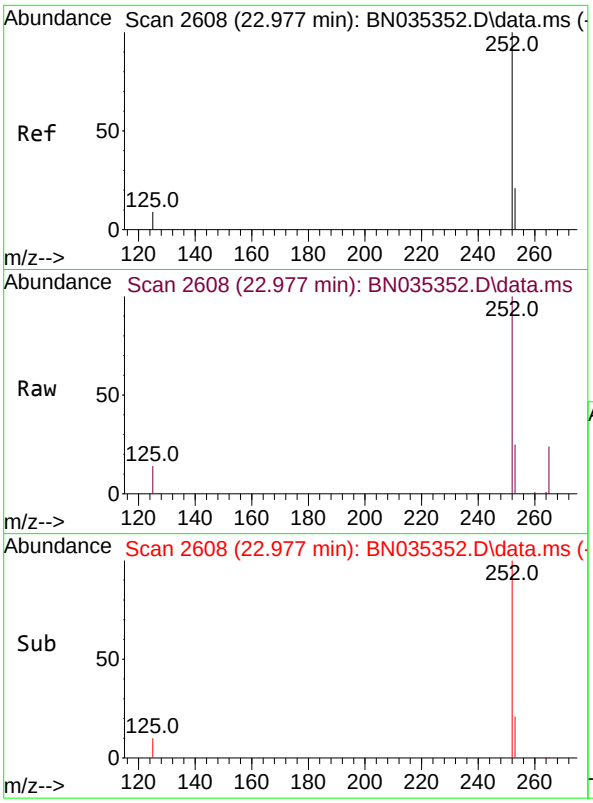


#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.5	29.3
125	12.8	10.2	15.4

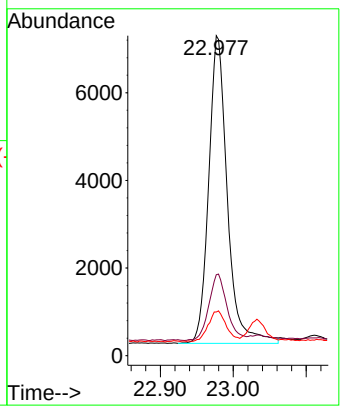




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 1242

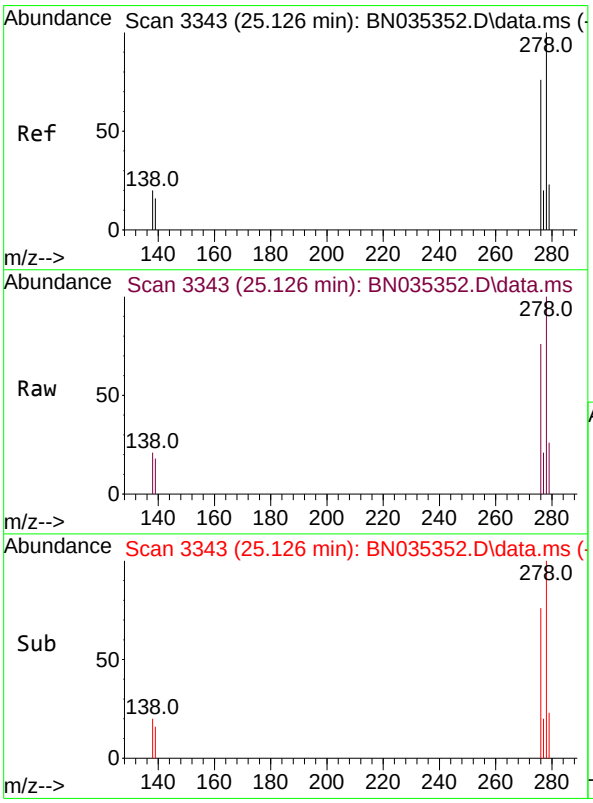
Ion	Ratio	Lower	Upper
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

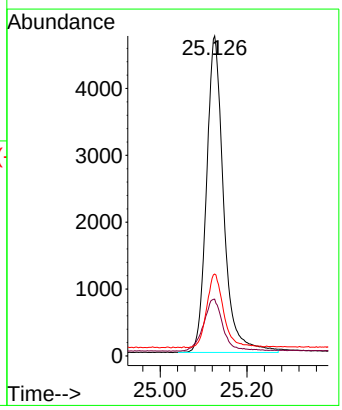
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

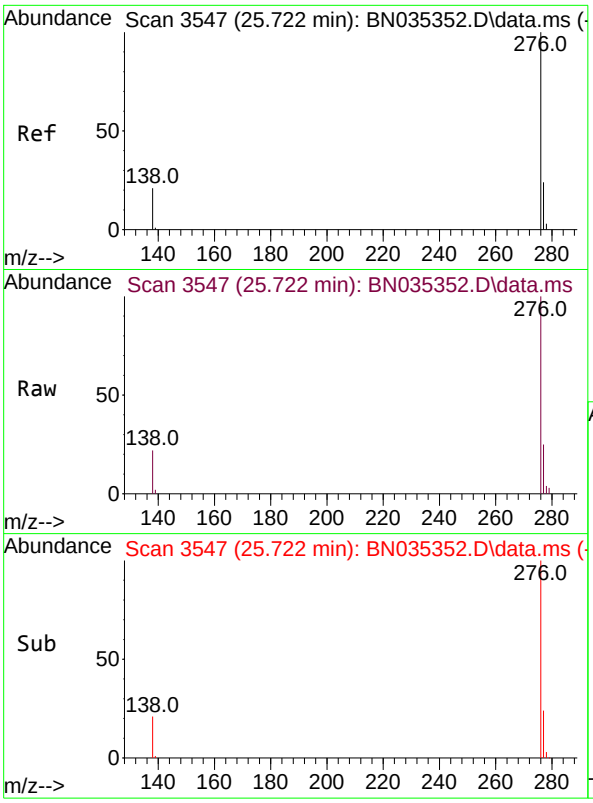


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7

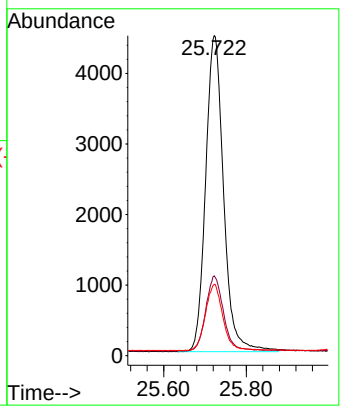




#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 1352

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	22.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

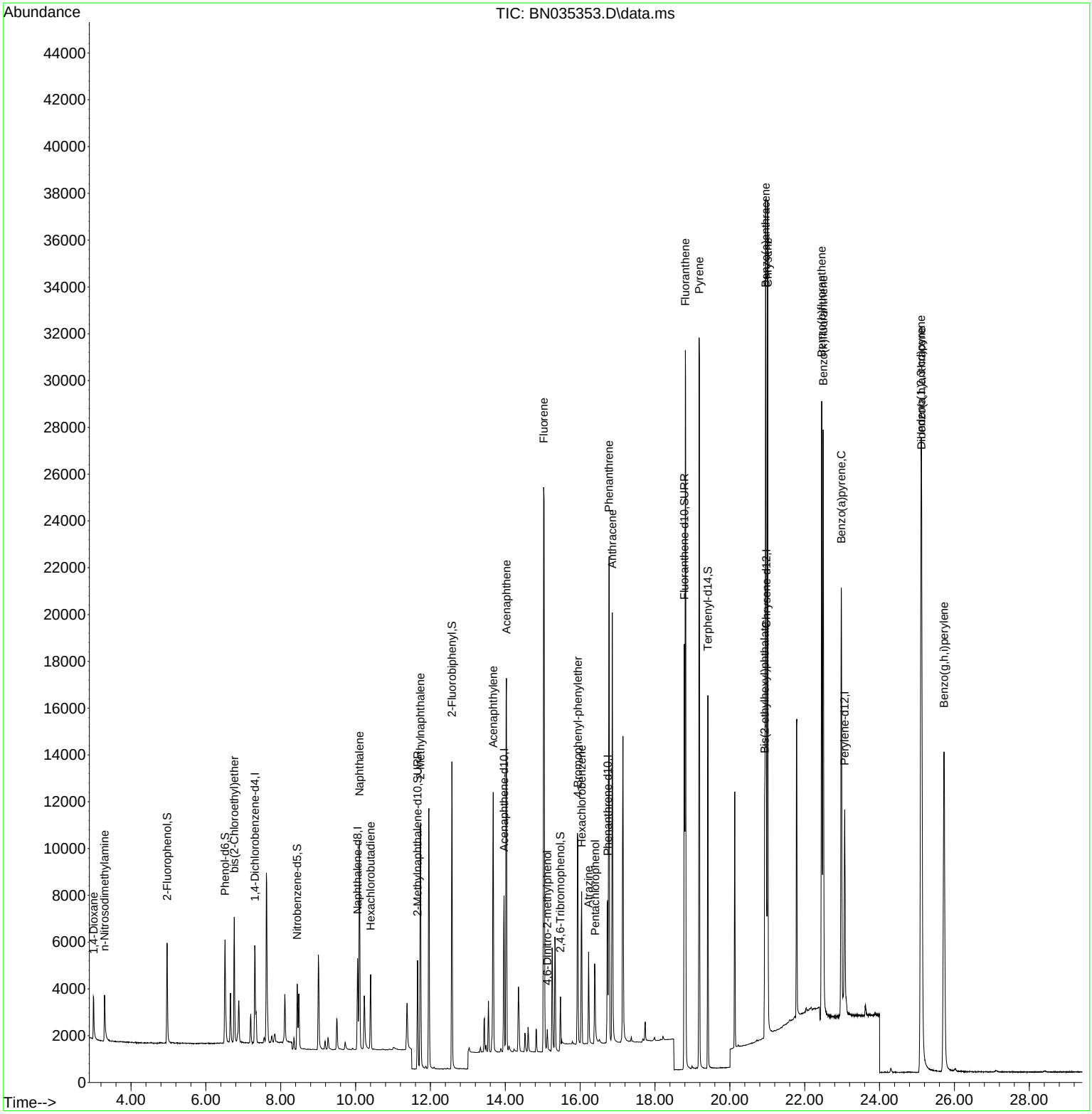
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2047	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5308	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3823	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9525	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9837	0.400	ng		0.00
35) Perylene-d12	23.067	264	10698	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	3924	0.755	ng		0.00
5) Phenol-d6	6.513	99	4681	0.718	ng		0.00
8) Nitrobenzene-d5	8.440	82	2634	0.570	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	6530	0.690	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	2051	0.744	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	11528	0.742	ng		0.00
27) Fluoranthene-d10	18.785	212	21050	0.721	ng		0.00
31) Terphenyl-d14	19.412	244	15171	0.735	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	1554	0.836	ng		99
3) n-Nitrosodimethylamine	3.292	42	1291	0.745	ng	#	98
6) bis(2-Chloroethyl)ether	6.759	93	4066	0.831	ng		100
9) Naphthalene	10.105	128	10954	0.790	ng		99
10) Hexachlorobutadiene	10.404	225	2559	0.630	ng	#	100
12) 2-Methylnaphthalene	11.732	142	7925	0.775	ng		99
16) Acenaphthylene	13.679	152	12523	0.766	ng		100
17) Acenaphthene	14.031	154	8470	0.791	ng		99
18) Fluorene	15.026	166	12232	0.777	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	784	0.395	ng	#	88
21) 4-Bromophenyl-phenylether	15.941	248	4440	0.732	ng		98
22) Hexachlorobenzene	16.041	284	5253	0.834	ng		99
23) Atrazine	16.227	200	2978	0.547	ng		99
24) Pentachlorophenol	16.400	266	1968	0.669	ng		87
25) Phenanthrene	16.773	178	20803	0.830	ng		100
26) Anthracene	16.860	178	18528	0.805	ng		99
28) Fluoranthene	18.813	202	27743	0.805	ng		100
30) Pyrene	19.180	202	28384	0.866	ng		100
32) Benzo(a)anthracene	20.956	228	27048	0.790	ng		99
33) Chrysene	21.010	228	27838	0.820	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	9941	0.553	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	33248	0.779	ng		100
37) Benzo(b)fluoranthene	22.453	252	29491	0.819	ng		96
38) Benzo(k)fluoranthene	22.494	252	30369	0.843	ng		96
39) Benzo(a)pyrene	22.977	252	25053	0.791	ng		96
40) Dibenzo(a,h)anthracene	25.123	278	26222	0.775	ng		98
41) Benzo(g,h,i)perylene	25.722	276	27143	0.755	ng		98

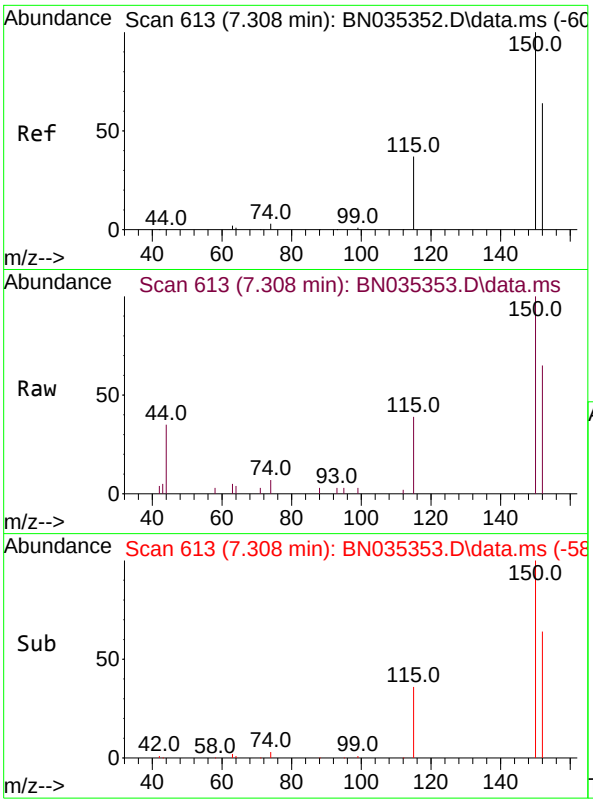
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



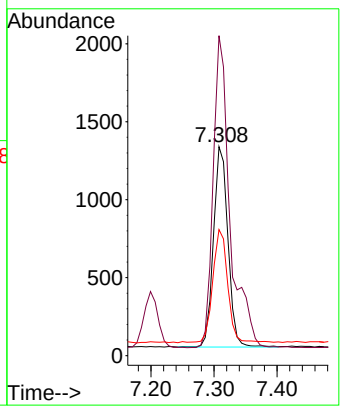


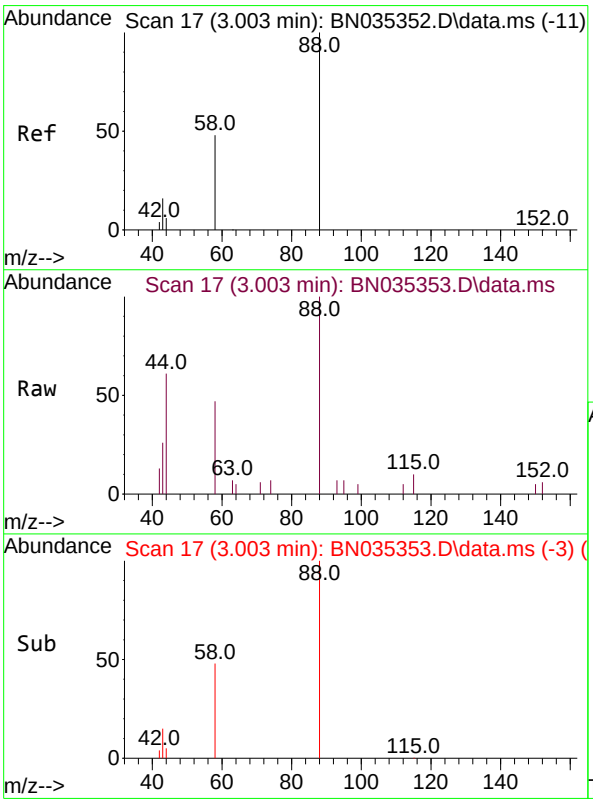
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2047

Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.0	186.0
115	60.3	49.6	74.4

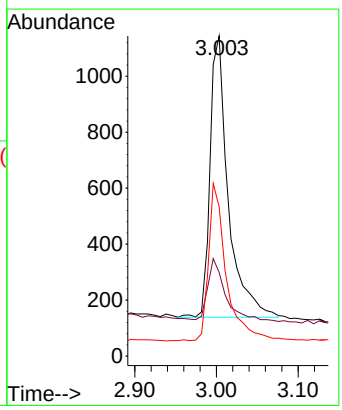


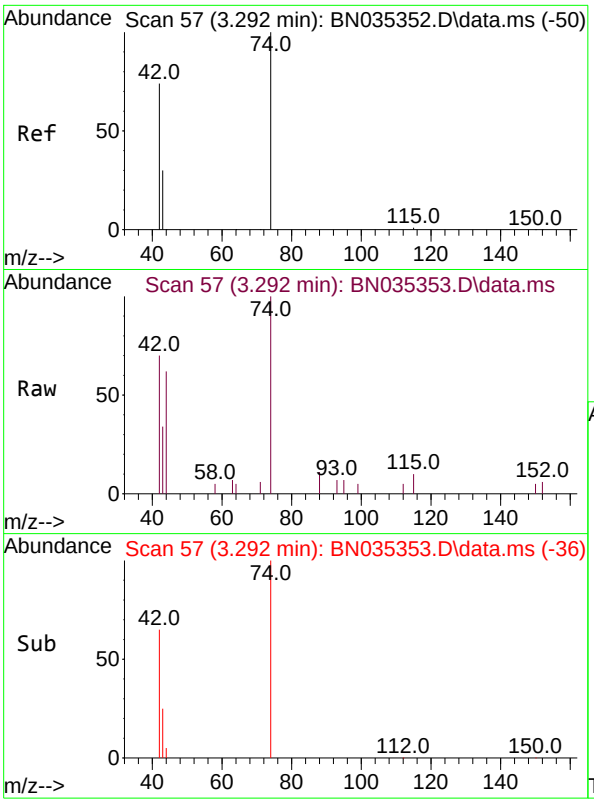


#2
1,4-Dioxane
Concen: 0.836 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 88 Resp: 1554

Ion	Ratio	Lower	Upper
88	100		
43	22.1	17.2	25.8
58	54.8	44.5	66.7



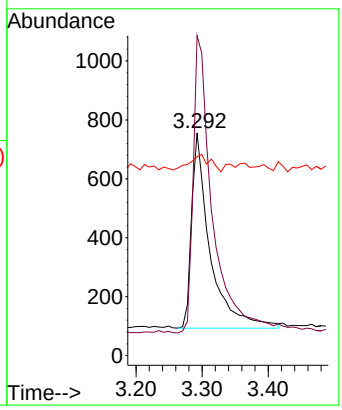


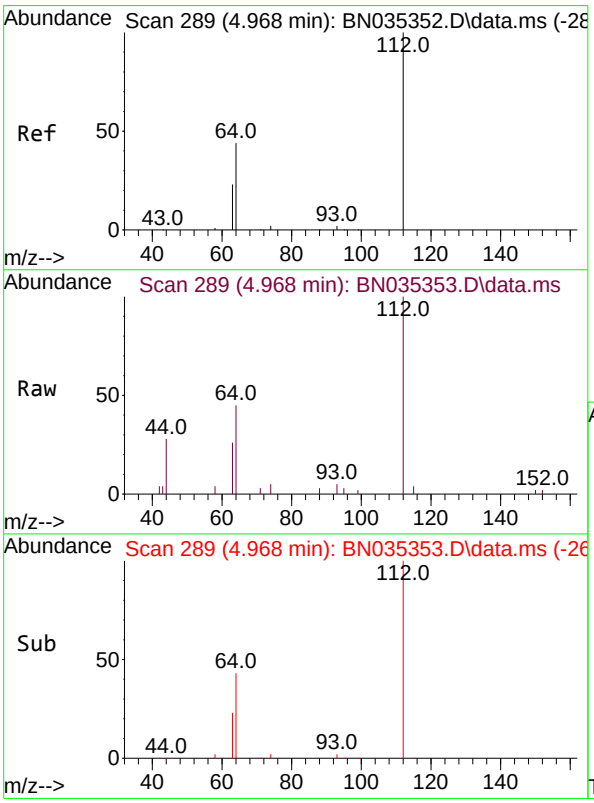
#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 1291

Ion	Ratio	Lower	Upper
42	100		
74	158.7	124.9	187.3
44	9.8	2.2	3.4#

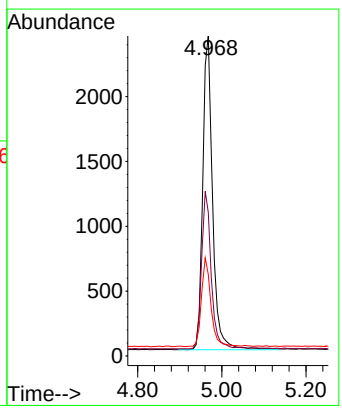


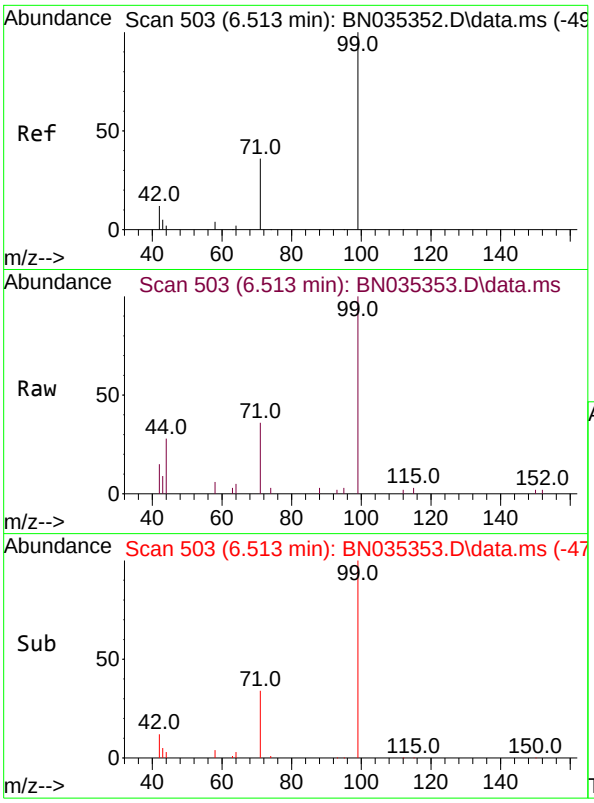


#4
2-Fluorophenol
Concen: 0.755 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:112 Resp: 3924

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	27.0	21.0	31.6



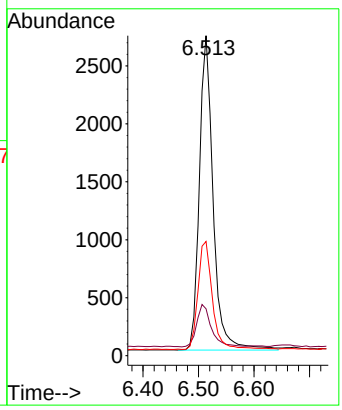


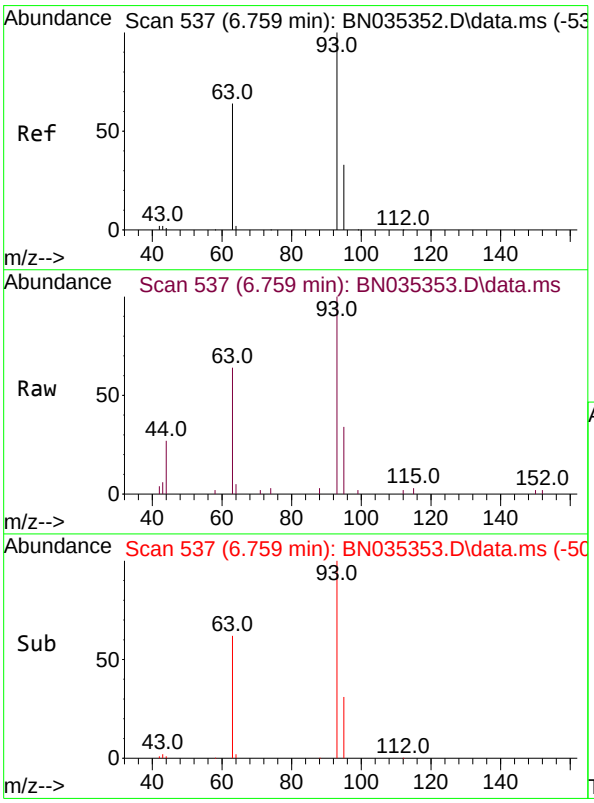
#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 4681

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.1	29.3	43.9

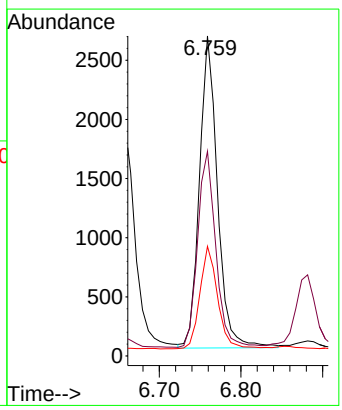


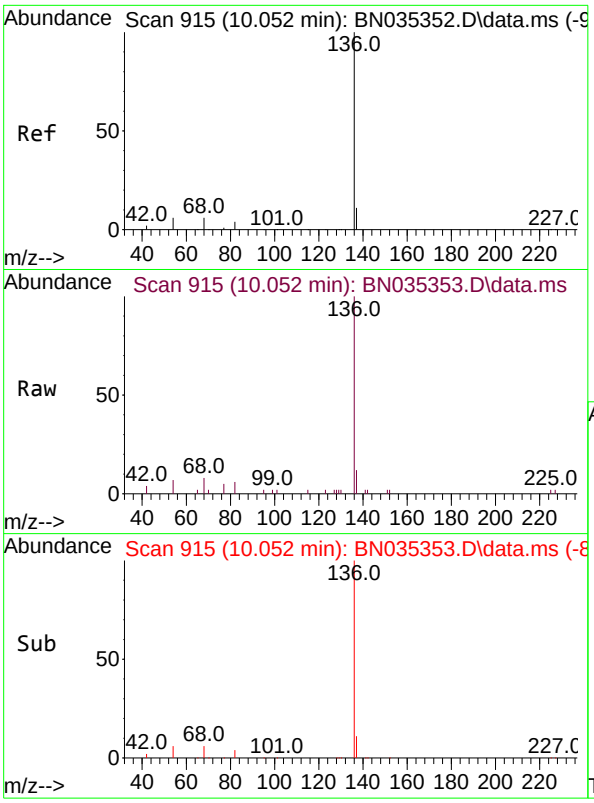


#6
bis(2-Chloroethyl)ether
Concen: 0.831 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 93 Resp: 4066

Ion	Ratio	Lower	Upper
93	100		
63	62.8	50.4	75.6
95	32.4	25.7	38.5



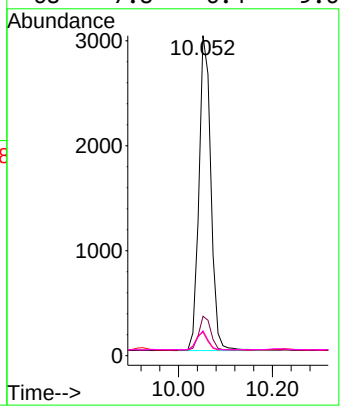


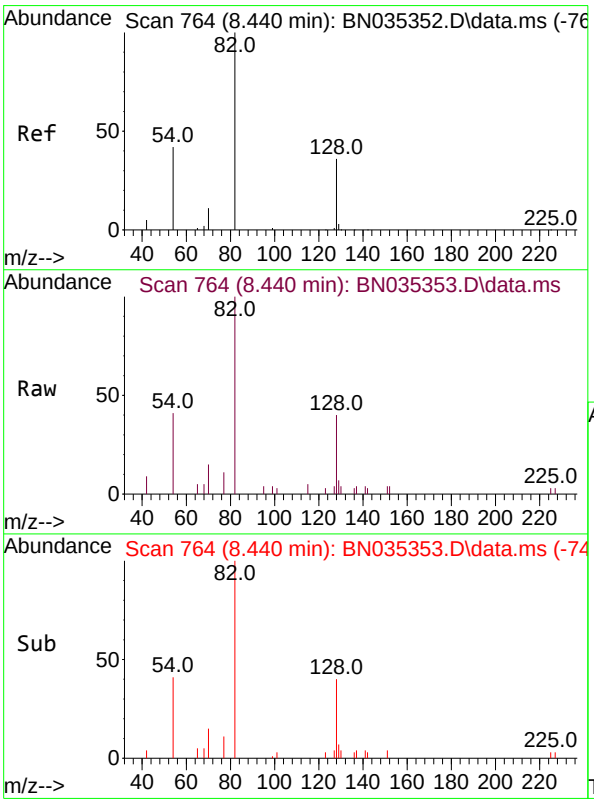
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5308

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.8	6.4	9.6

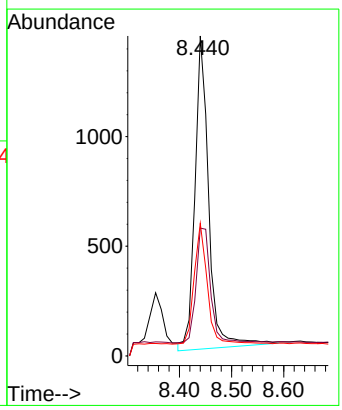


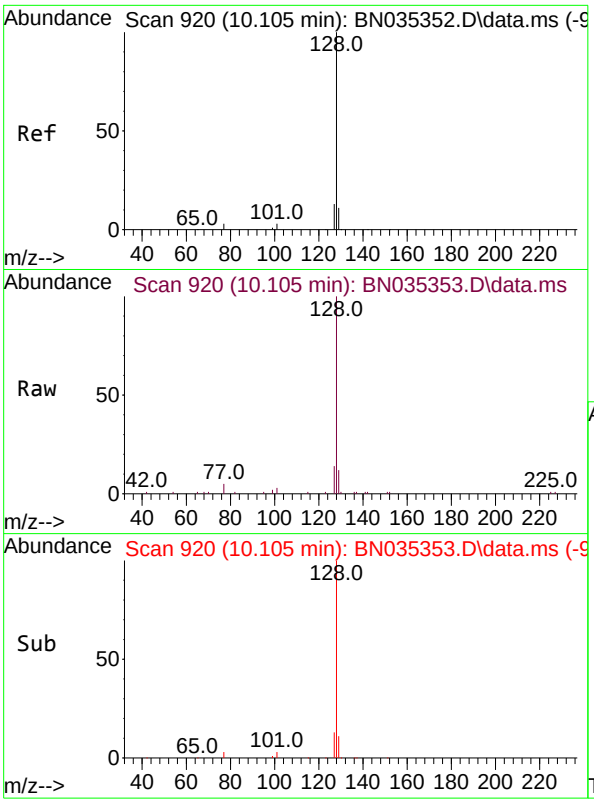


#8
Nitrobenzene-d5
Concen: 0.570 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 82 Resp: 2634

Ion	Ratio	Lower	Upper
82	100		
128	40.0	33.4	50.0
54	41.5	36.7	55.1



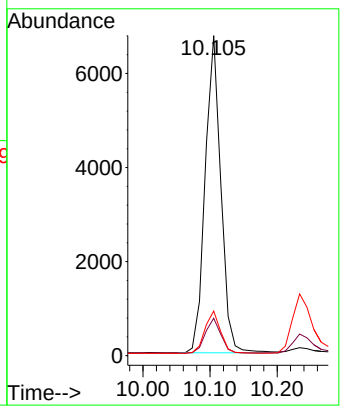


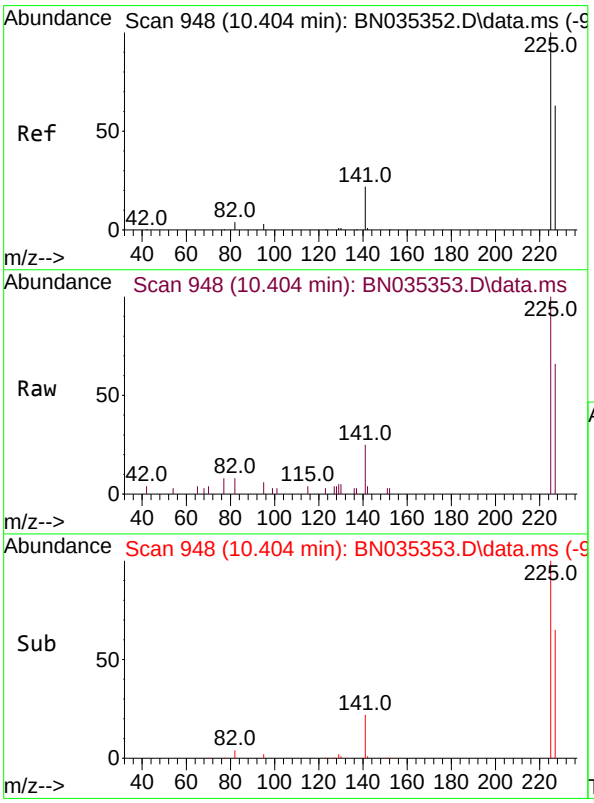
#9
Naphthalene
Concen: 0.790 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 10954

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	13.9	11.4	17.2

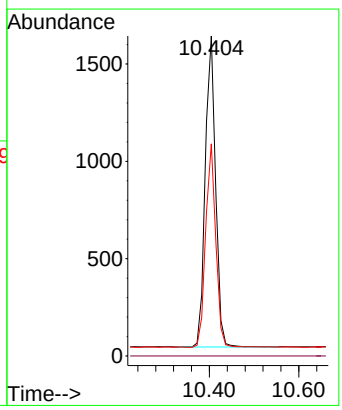


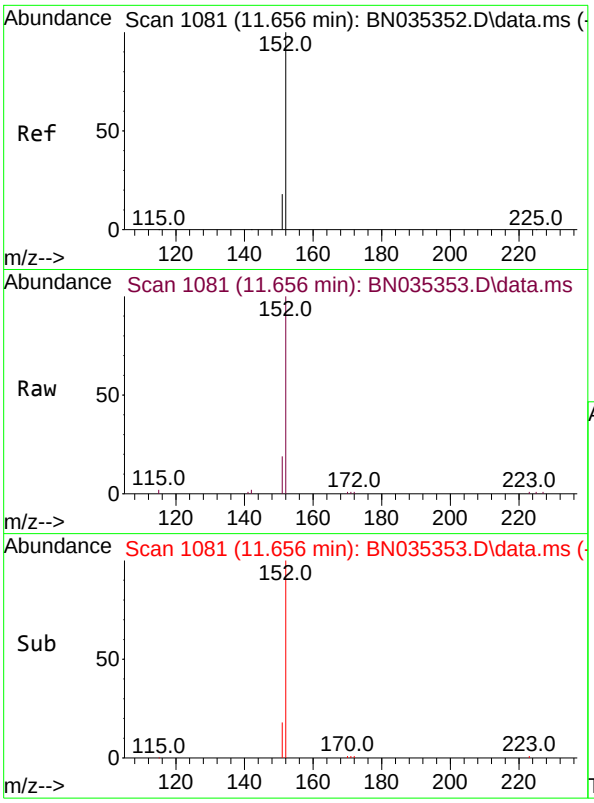


#10
Hexachlorobutadiene
Concen: 0.630 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:225 Resp: 2559

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



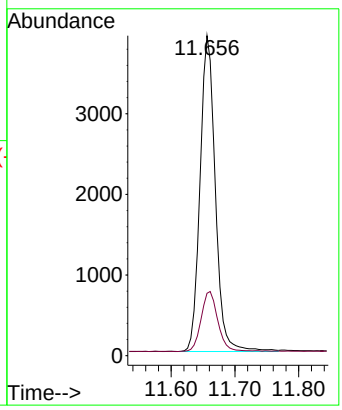


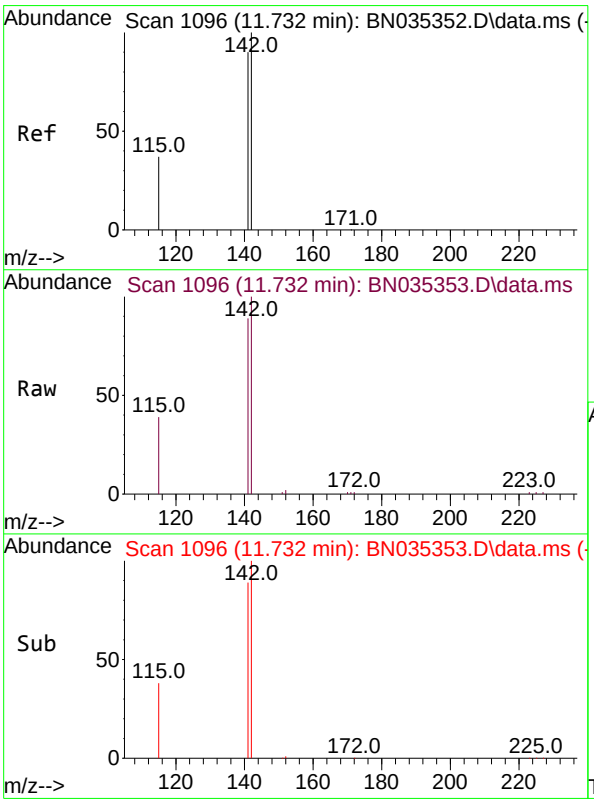
#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 6530

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

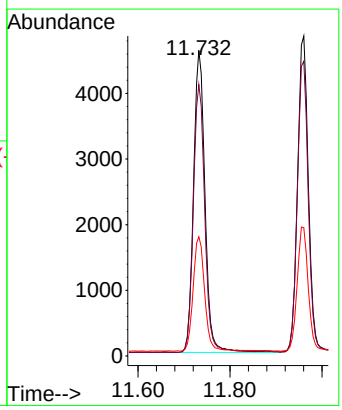


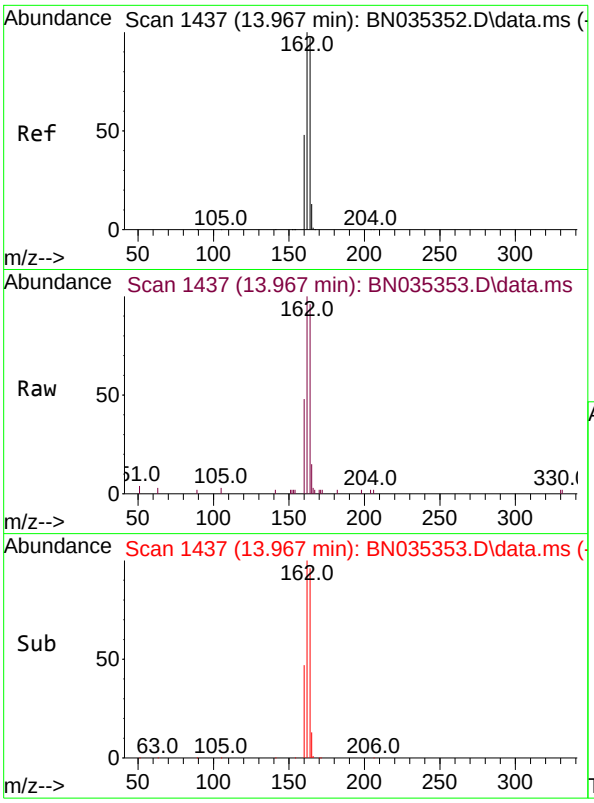


#12
2-Methylnaphthalene
Concen: 0.775 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:142 Resp: 7925

Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.2	108.4
115	39.0	31.4	47.0



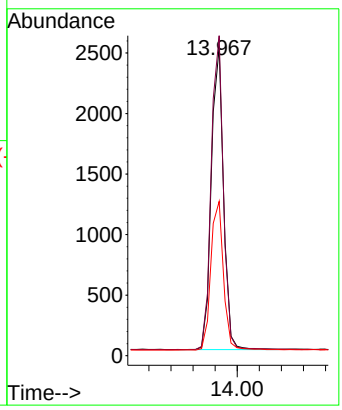


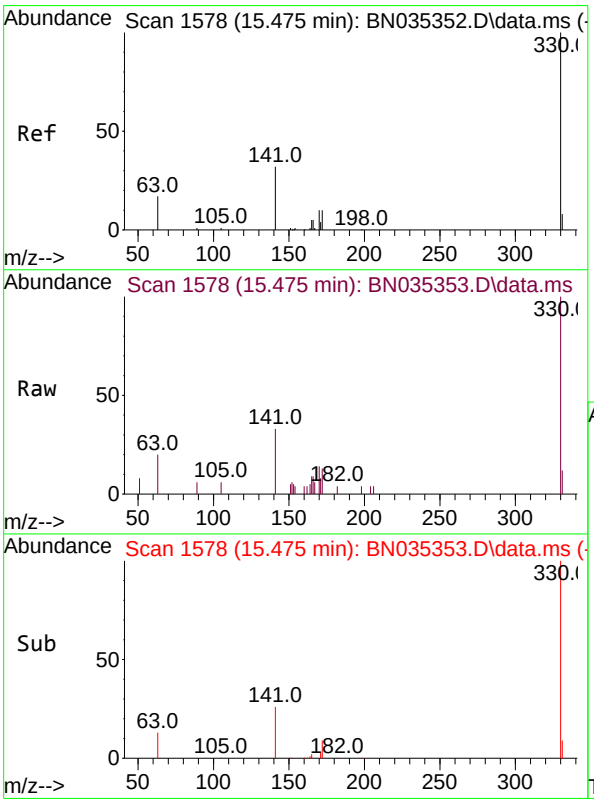
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 3823

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.1	40.1	60.1

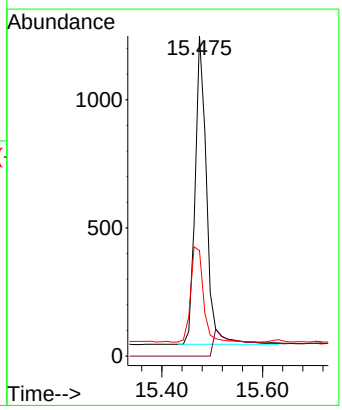


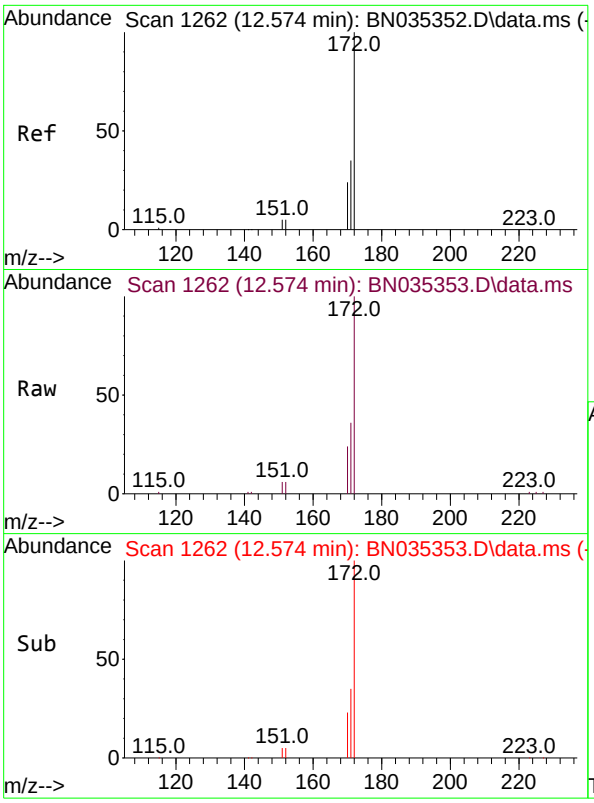


#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:330 Resp: 2051

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.3	26.6	40.0



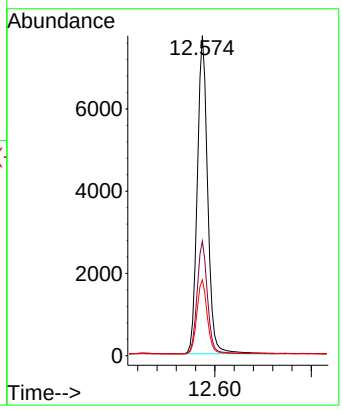


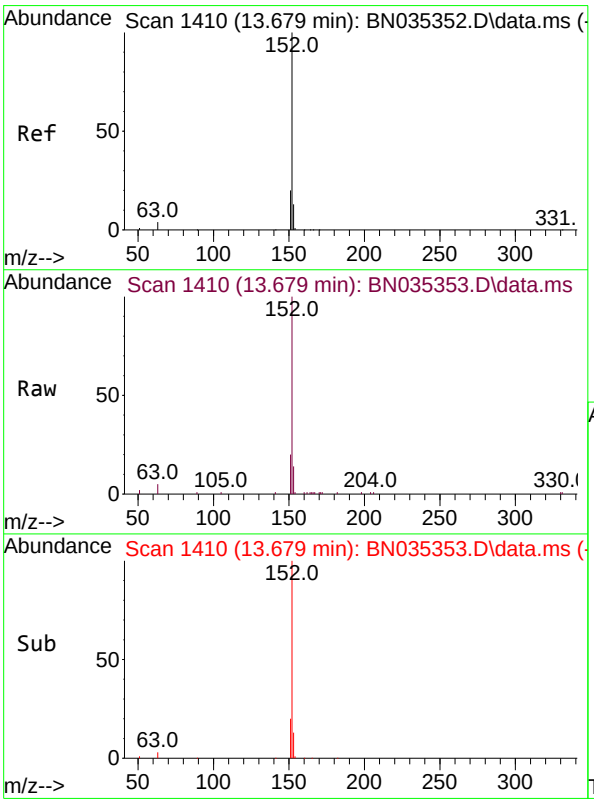
#15
2-Fluorobiphenyl
Concen: 0.742 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 11528

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	23.7	19.8	29.8

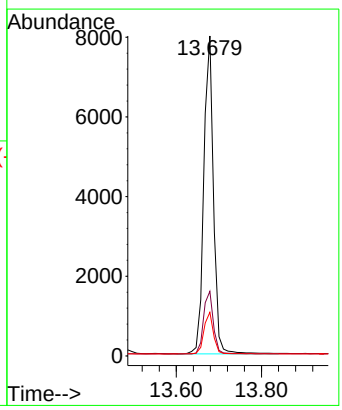


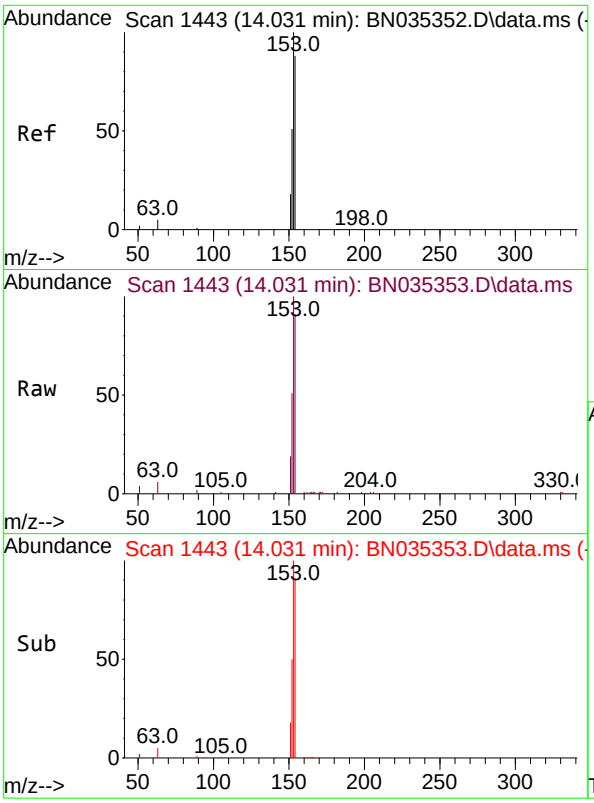


#16
Acenaphthylene
Concen: 0.766 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:152 Resp: 12523

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	12.9	10.4	15.6



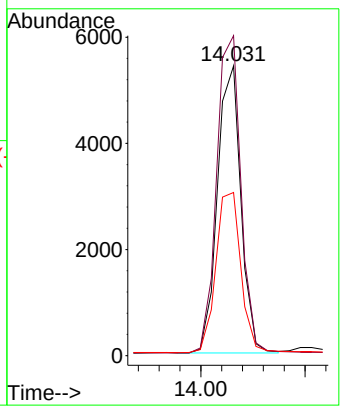


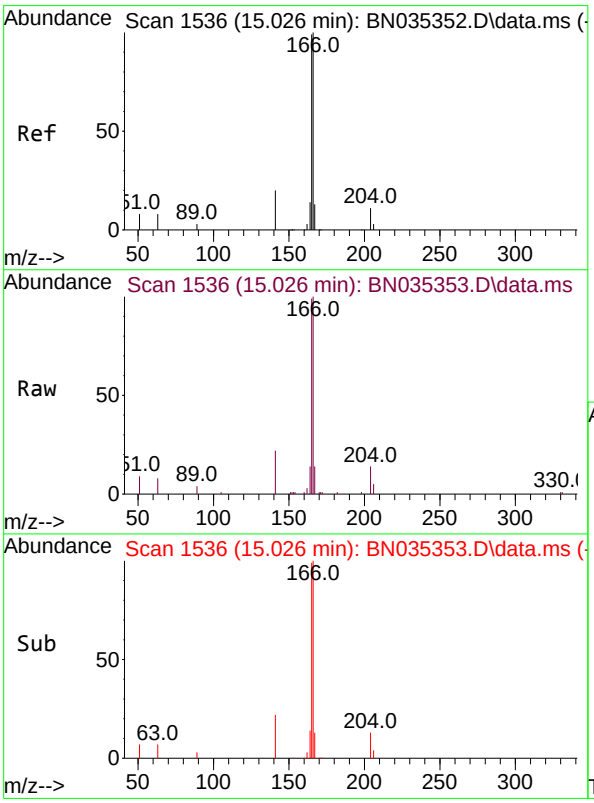
#17
Acenaphthene
Concen: 0.791 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 8470

Ion	Ratio	Lower	Upper
154	100		
153	114.8	92.6	139.0
152	60.2	49.0	73.6

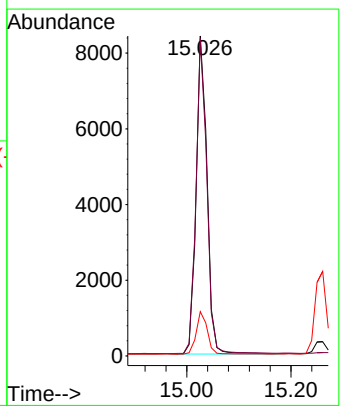


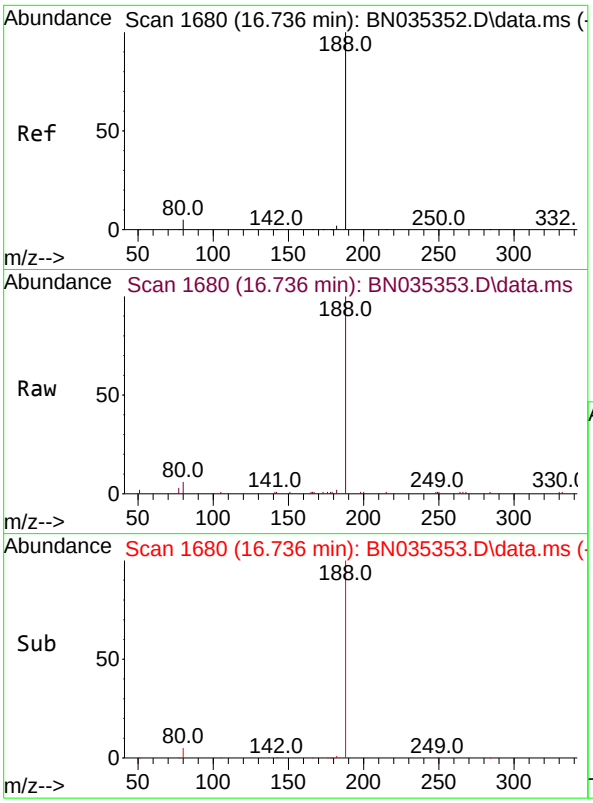


#18
Fluorene
Concen: 0.777 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:166 Resp: 12232

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.5	10.8	16.2



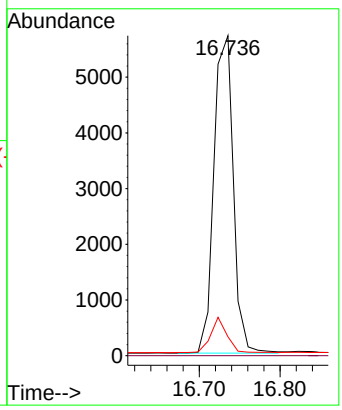


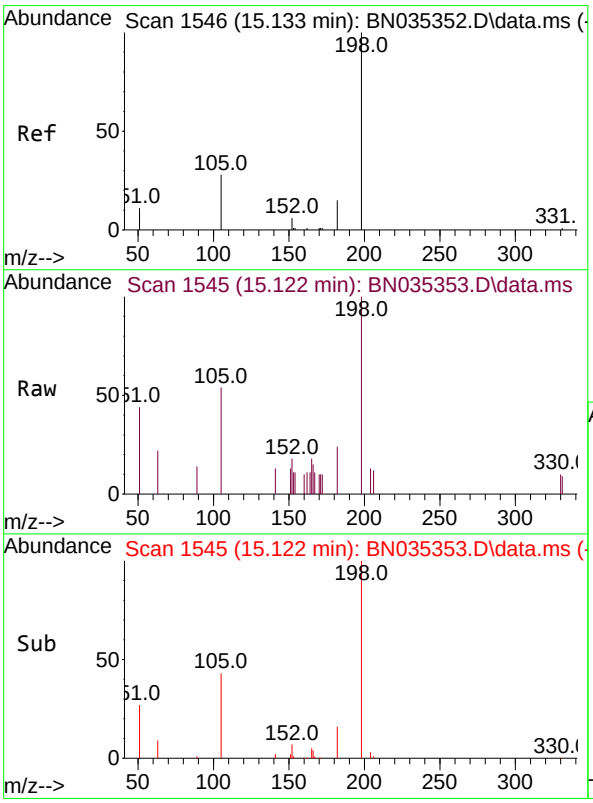
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 9525

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.9	4.6	6.8

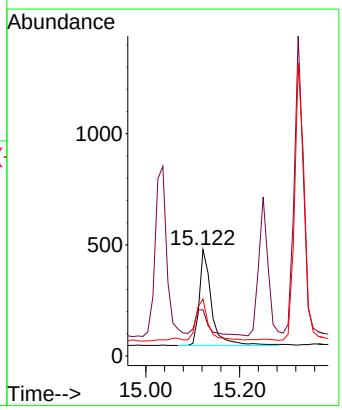


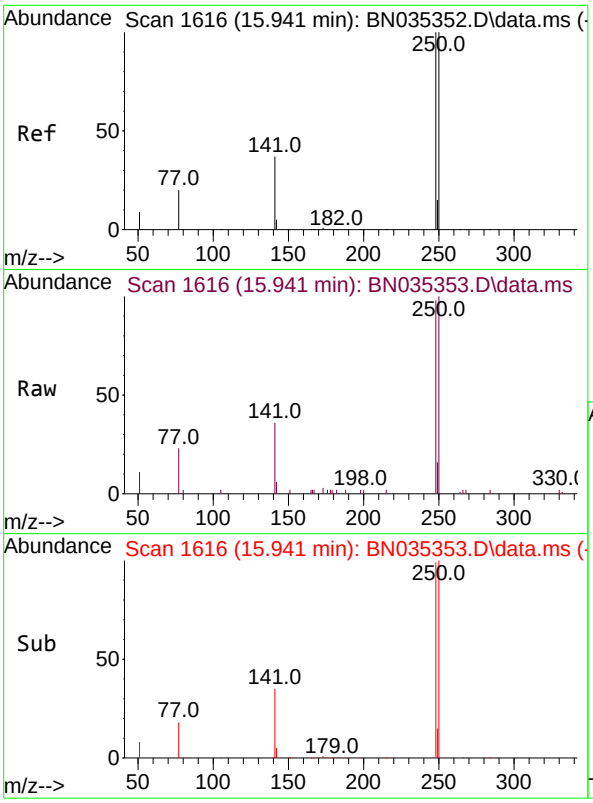


#20
4,6-Dinitro-2-methylphenol
Concen: 0.395 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:198 Resp: 784

Ion	Ratio	Lower	Upper
198	100		
51	43.5	46.5	69.7#
105	53.6	45.3	67.9



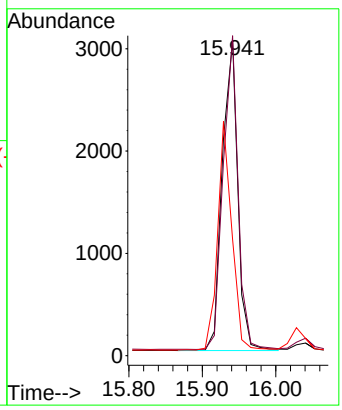


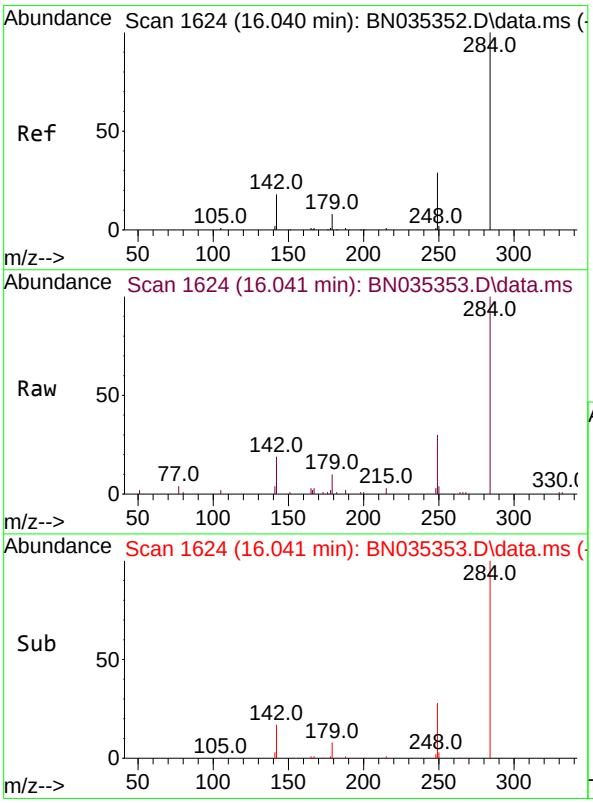
#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 4440

Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	36.9	31.5	47.3

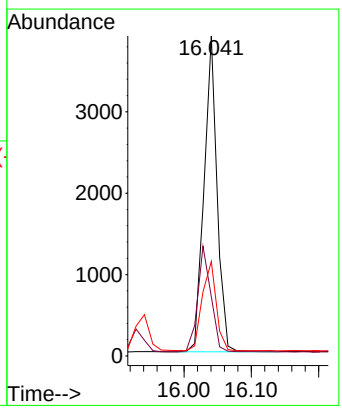


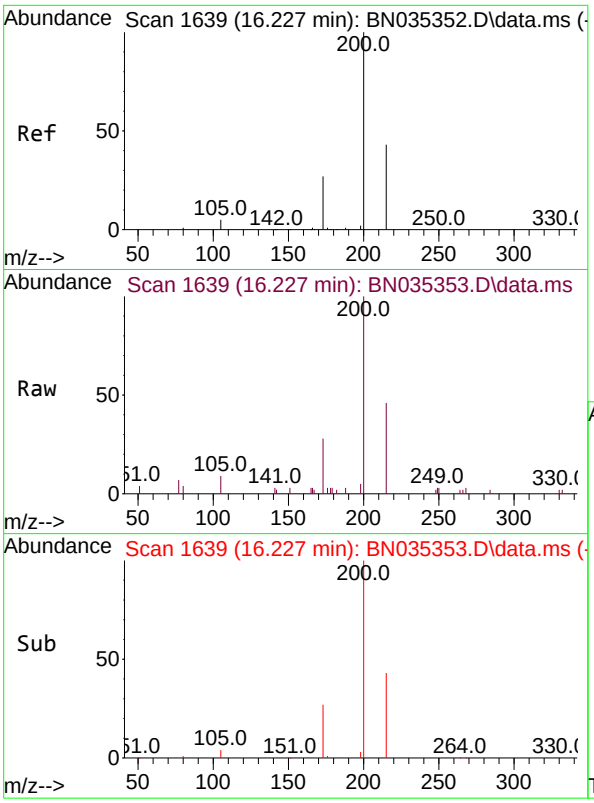


#22
Hexachlorobenzene
Concen: 0.834 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:284 Resp: 5253

Ion	Ratio	Lower	Upper
284	100		
142	34.0	26.7	40.1
249	30.3	24.6	36.8



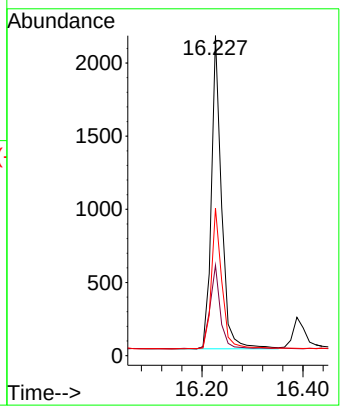


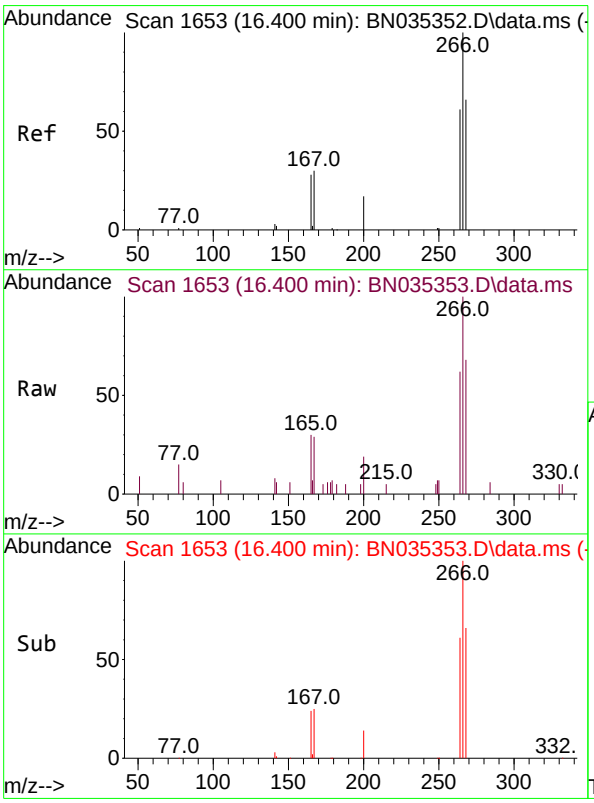
#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2978

Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	46.1	36.9	55.3

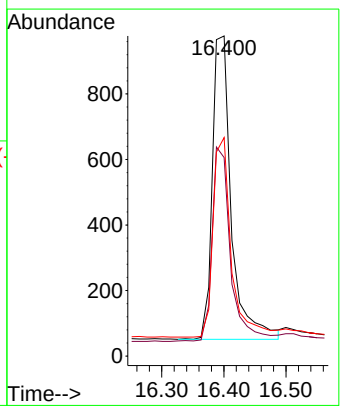


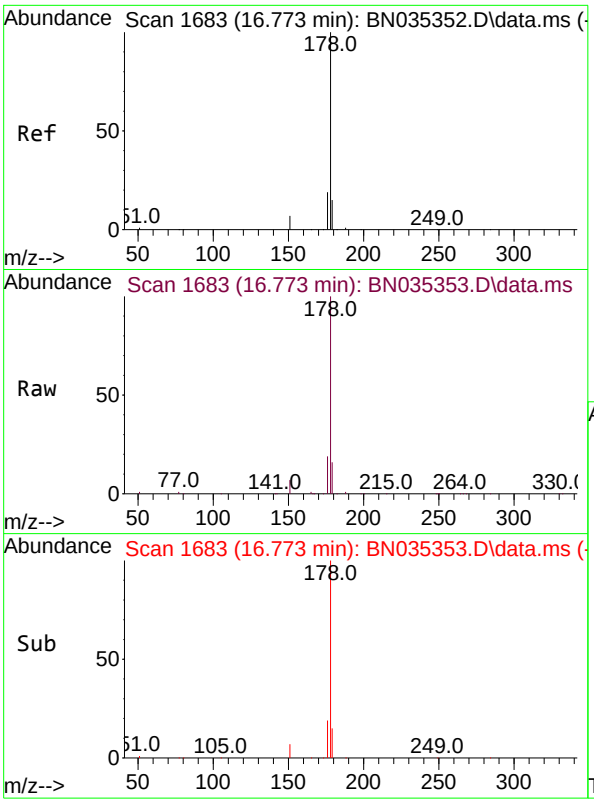


#24
Pentachlorophenol
Concen: 0.669 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:266 Resp: 1968

Ion	Ratio	Lower	Upper
266	100		
264	61.9	42.3	63.5
268	63.7	43.3	64.9



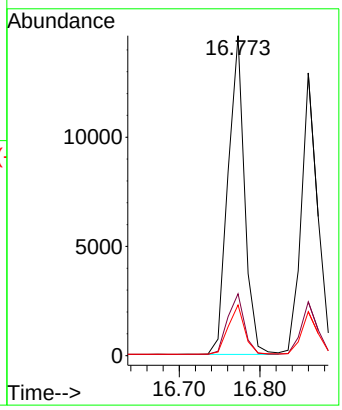


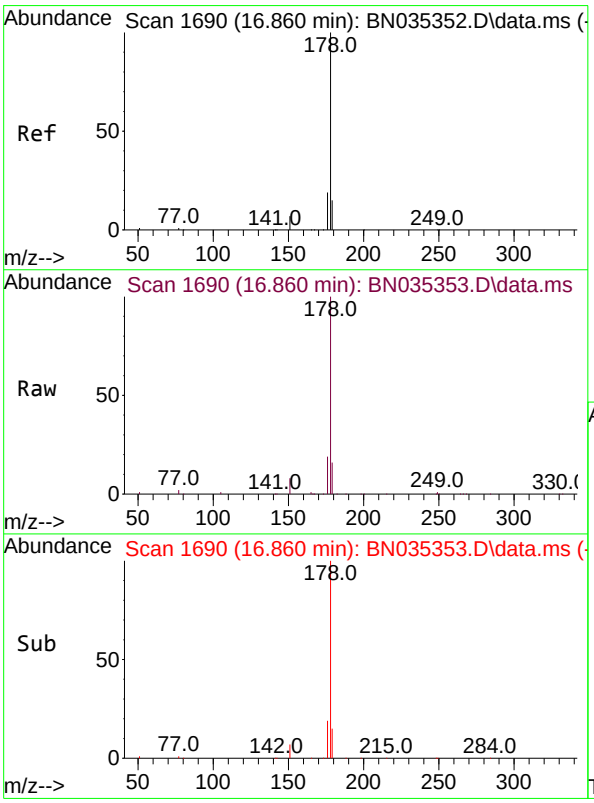
#25
Phenanthrene
Concen: 0.830 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 20803

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.4	12.3	18.5

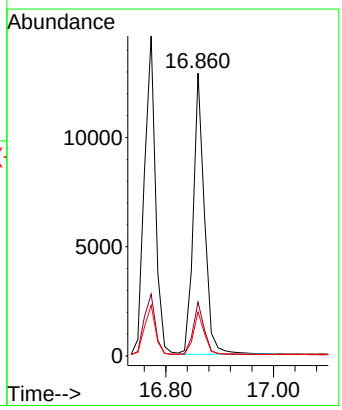


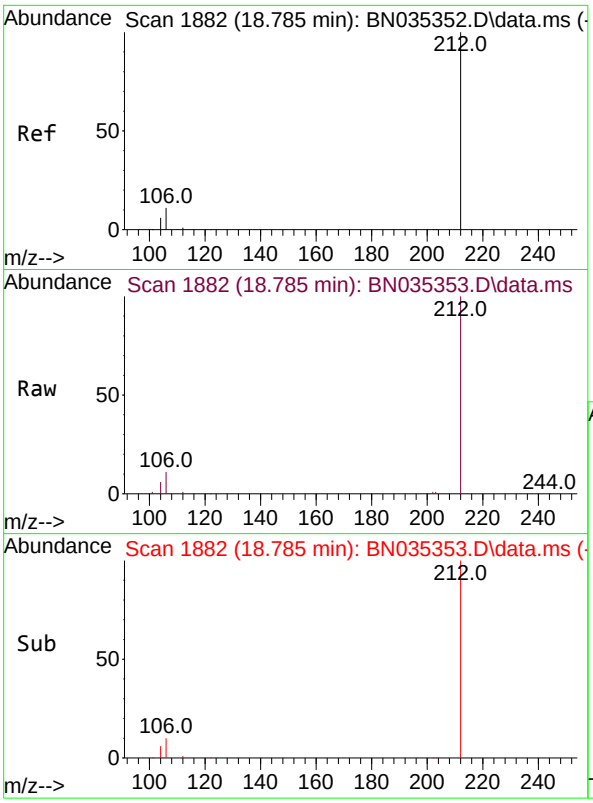


#26
Anthracene
Concen: 0.805 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:178 Resp: 18528

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.2	12.6	18.8



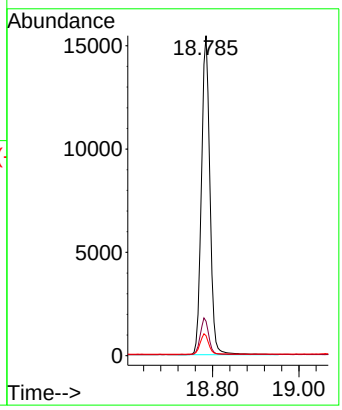


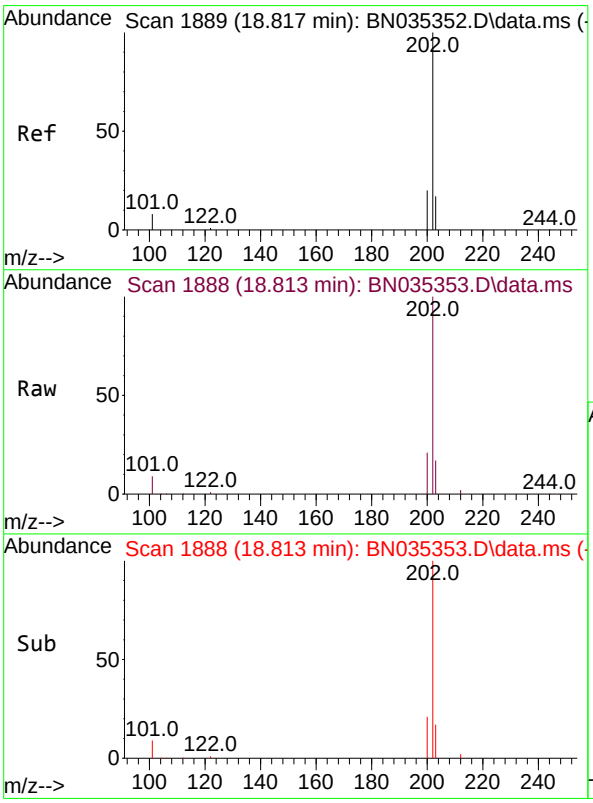
#27
Fluoranthene-d10
Concen: 0.721 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 21050

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9

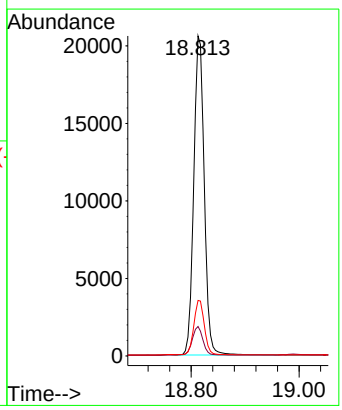


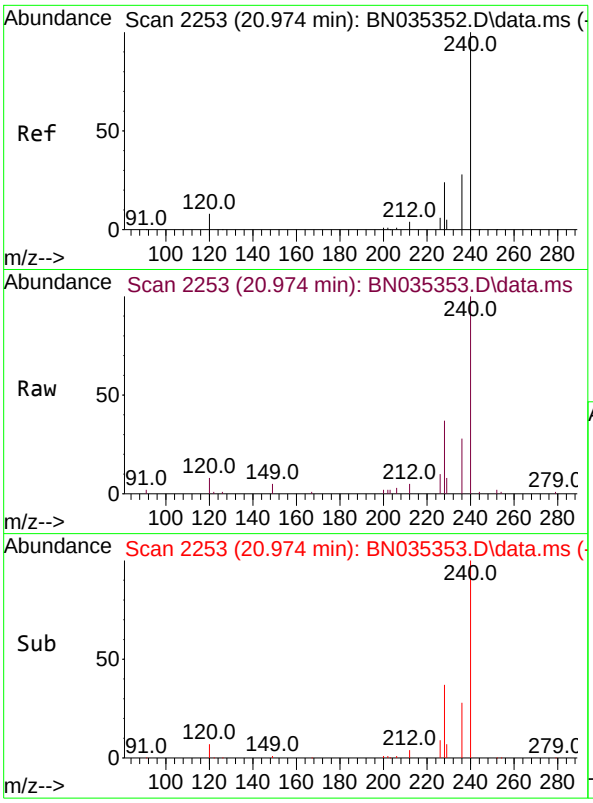


#28
Fluoranthene
Concen: 0.805 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 27743

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.1	13.7	20.5



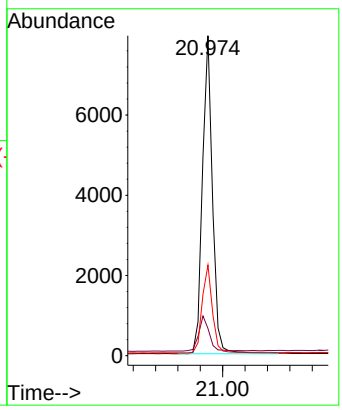


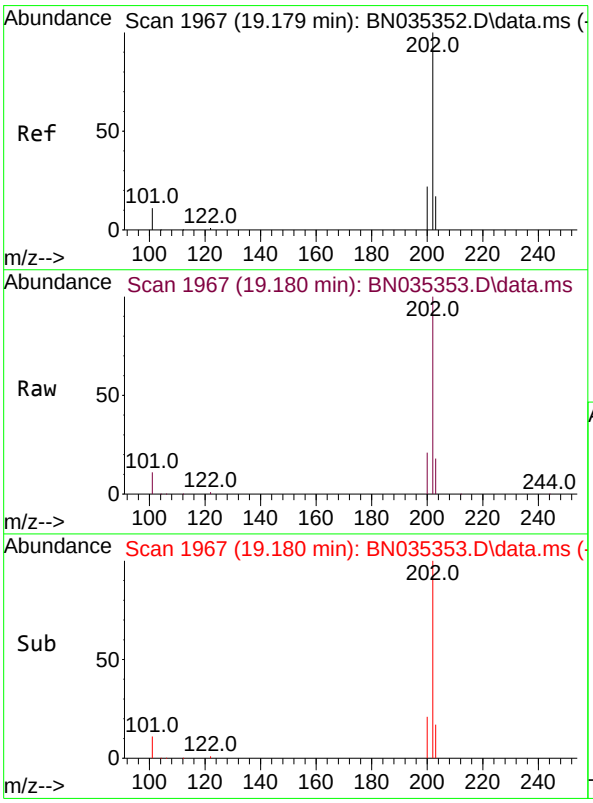
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 9837

Ion	Ratio	Lower	Upper
240	100		
120	8.5	7.9	11.9
236	28.3	22.9	34.3

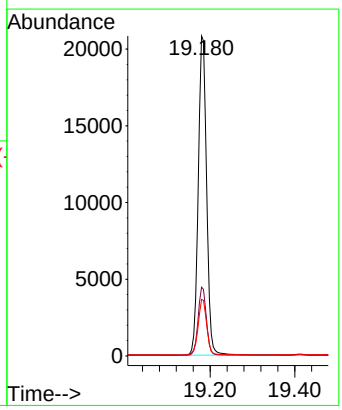


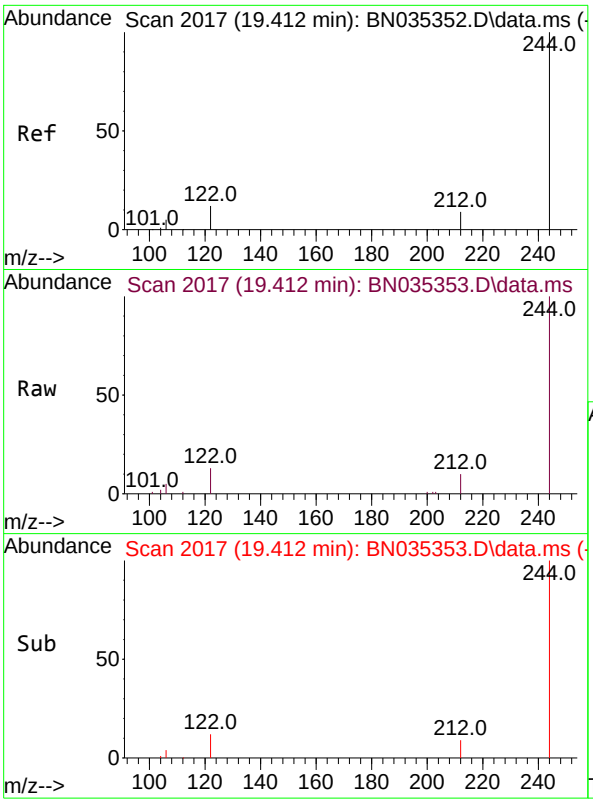


#30
Pyrene
Concen: 0.866 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 28384

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.8	14.3	21.5



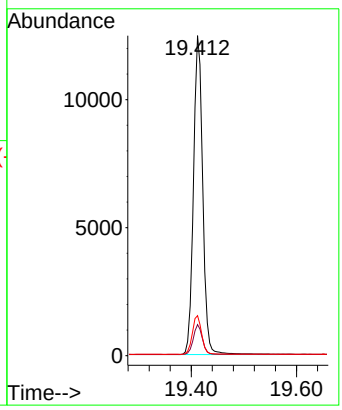


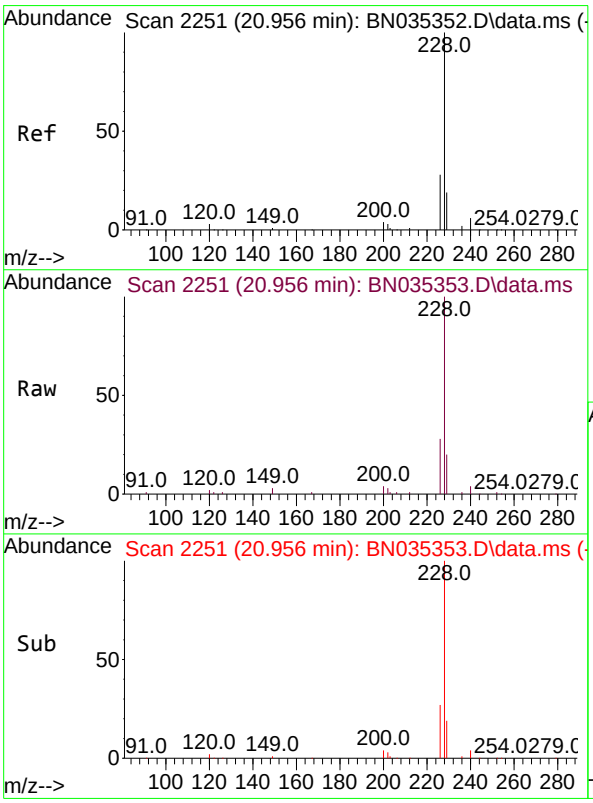
#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 15171

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	12.5	10.3	15.5

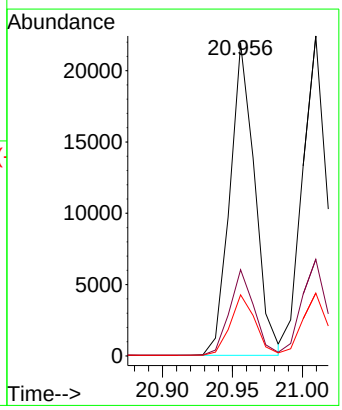


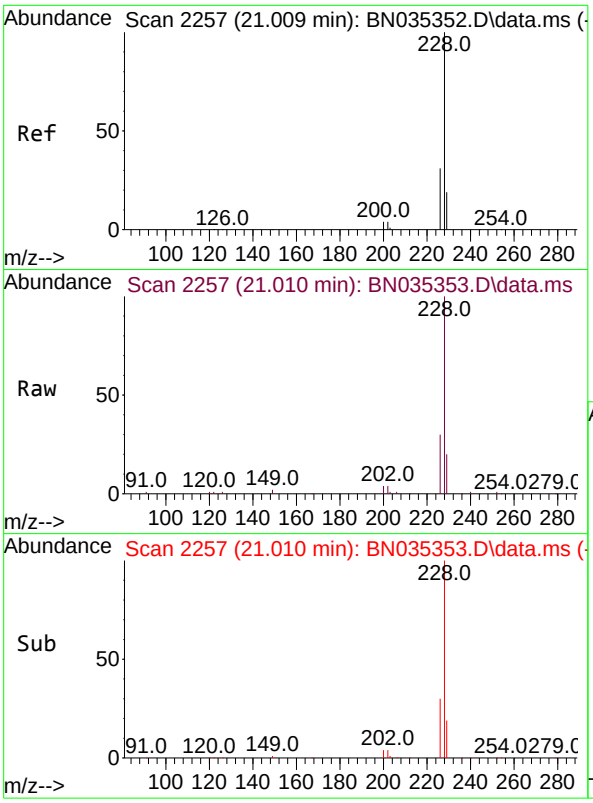


#32
Benzo(a)anthracene
Concen: 0.790 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:228 Resp: 27048

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	19.5	15.8	23.8



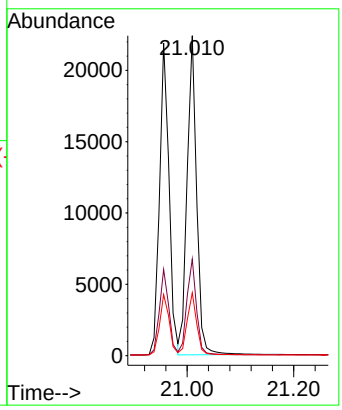


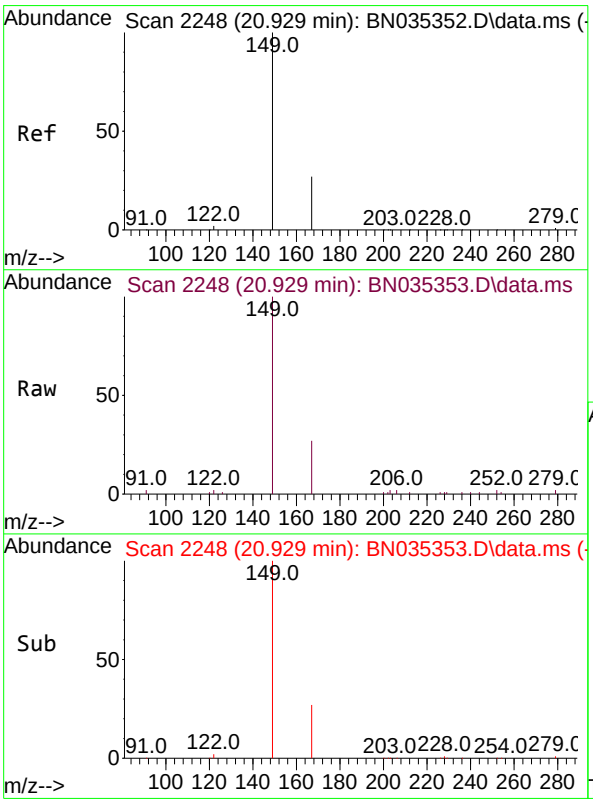
#33
Chrysene
Concen: 0.820 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 27838

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.6	15.9	23.9

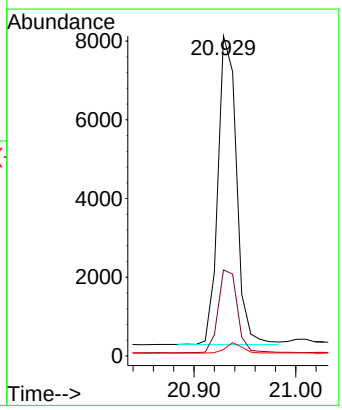


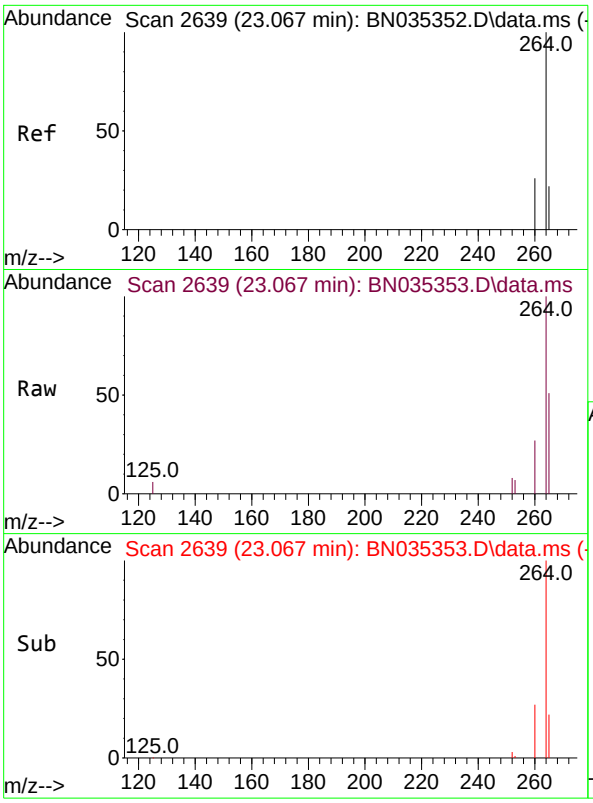


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.553 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:149 Resp: 9941

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.0	2.7	4.1



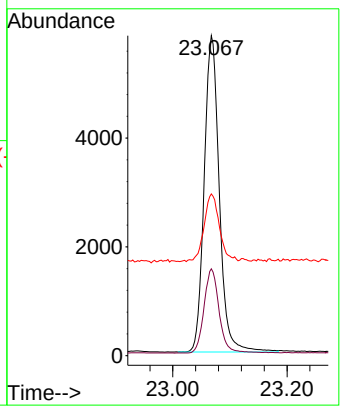


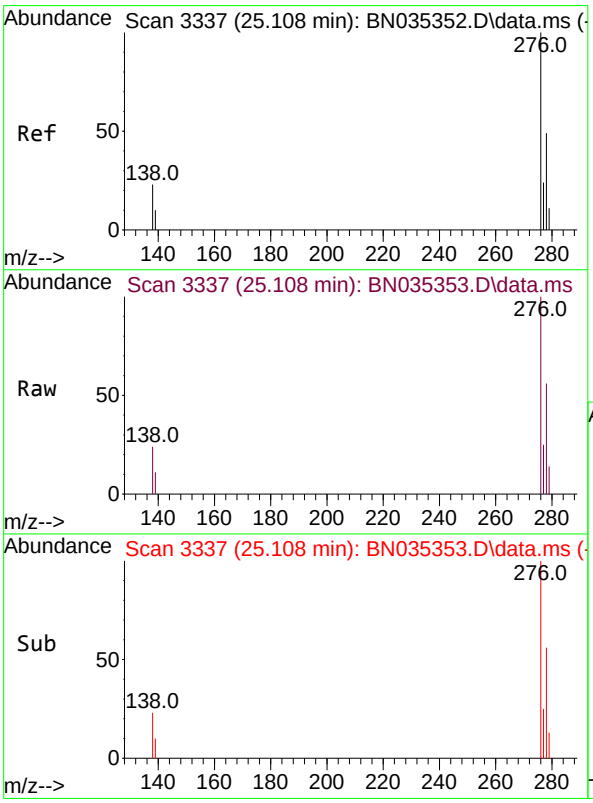
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 10698

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.6	40.2	60.4

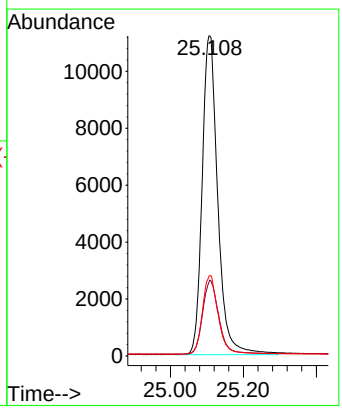


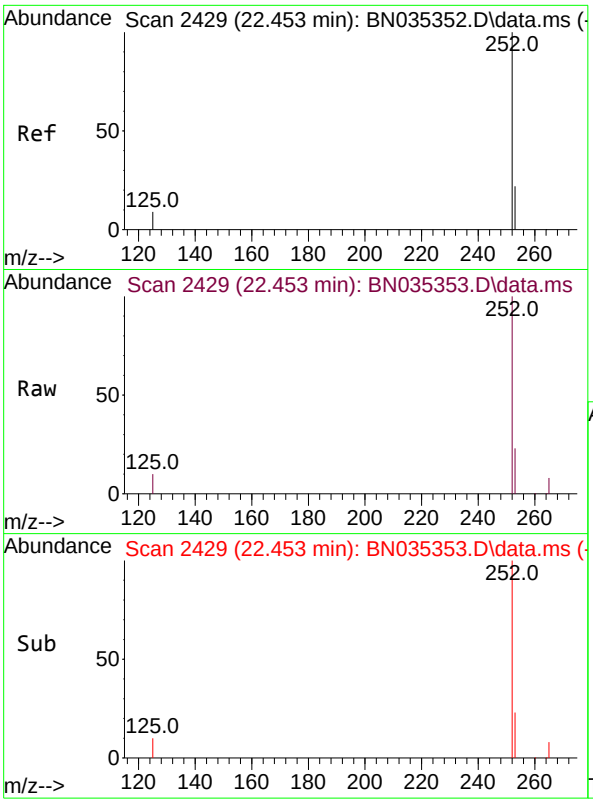


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.779 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:276 Resp: 33248

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.7	19.8	29.6



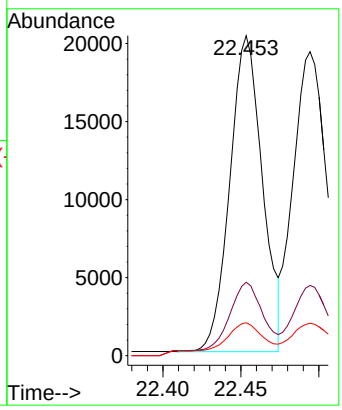


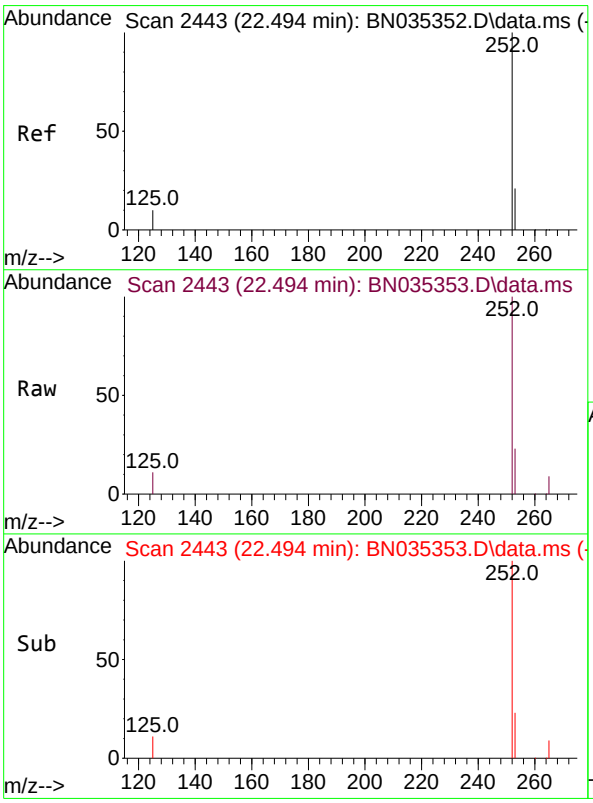
#37
Benzo(b)fluoranthene
Concen: 0.819 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 29491

Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.6	29.4
125	10.3	9.6	14.4

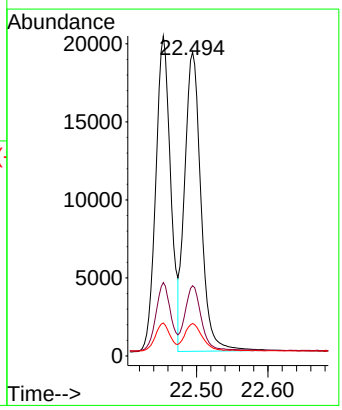


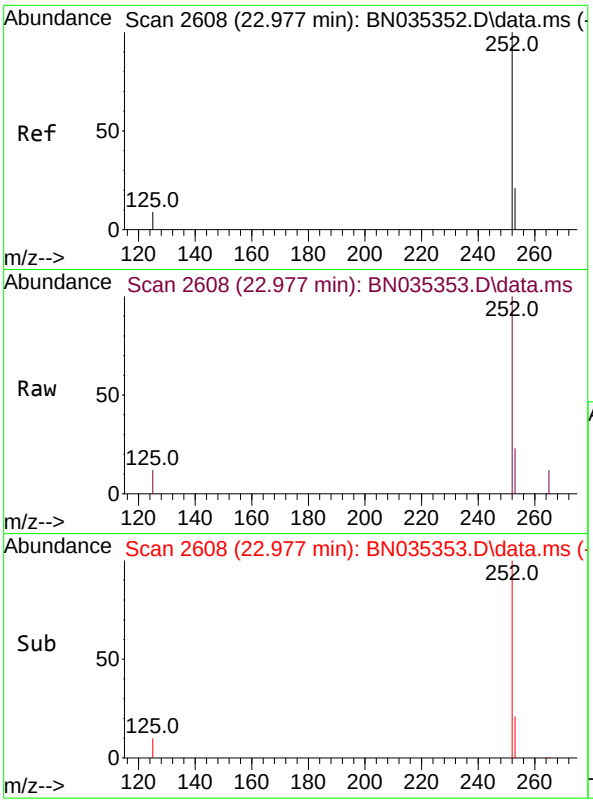


#38
Benzo(k)fluoranthene
Concen: 0.843 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:252 Resp: 30369

Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.5	29.3
125	10.7	10.2	15.4



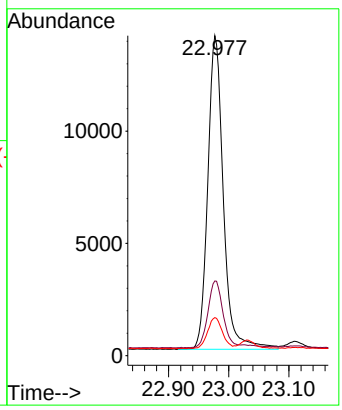


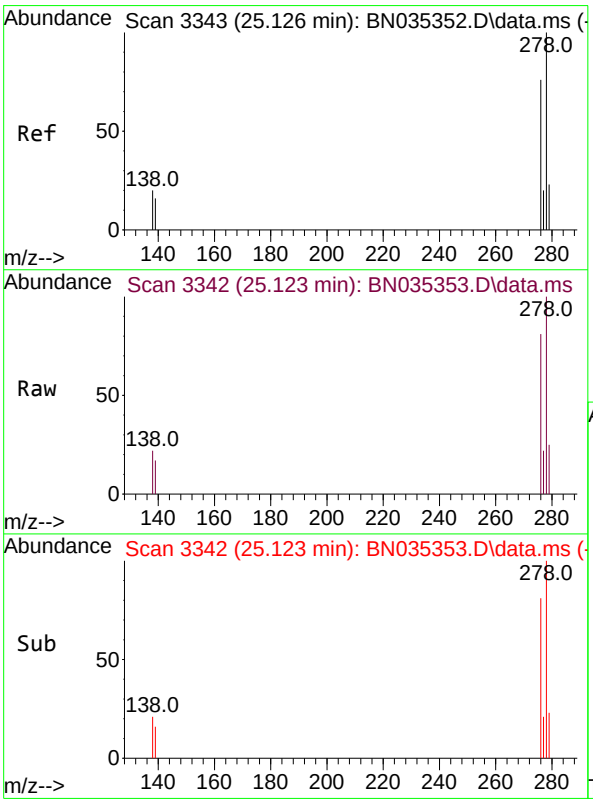
#39
Benzo(a)pyrene
Concen: 0.791 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 25053

Ion	Ratio	Lower	Upper
252	100		
253	23.3	20.2	30.4
125	11.9	10.9	16.3

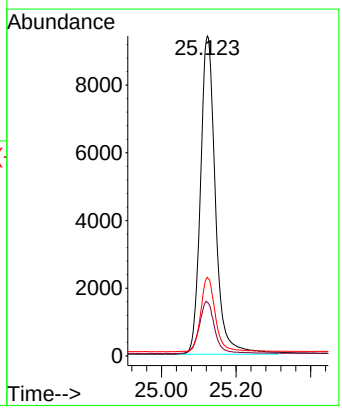


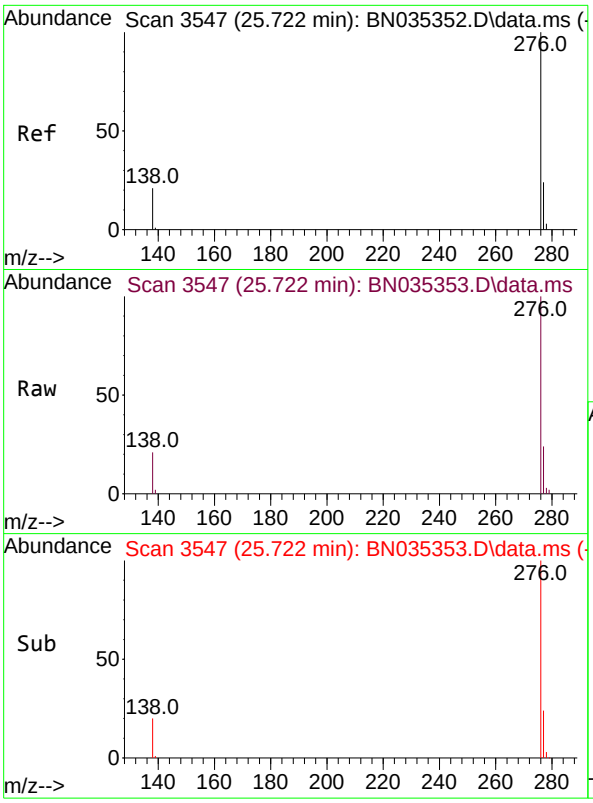


#40
Dibenzo(a,h)anthracene
Concen: 0.775 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:278 Resp: 26222

Ion	Ratio	Lower	Upper
278	100		
139	16.7	14.2	21.4
279	24.6	20.5	30.7



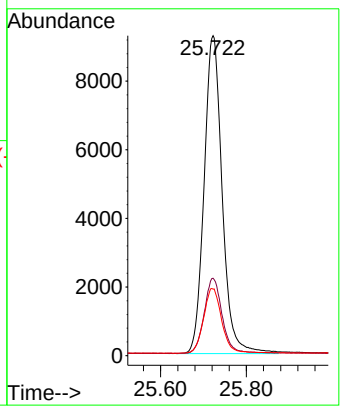


#41
Benzo(g,h,i)perylene
Concen: 0.755 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 27143

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.9	29.9
138	20.8	17.8	26.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

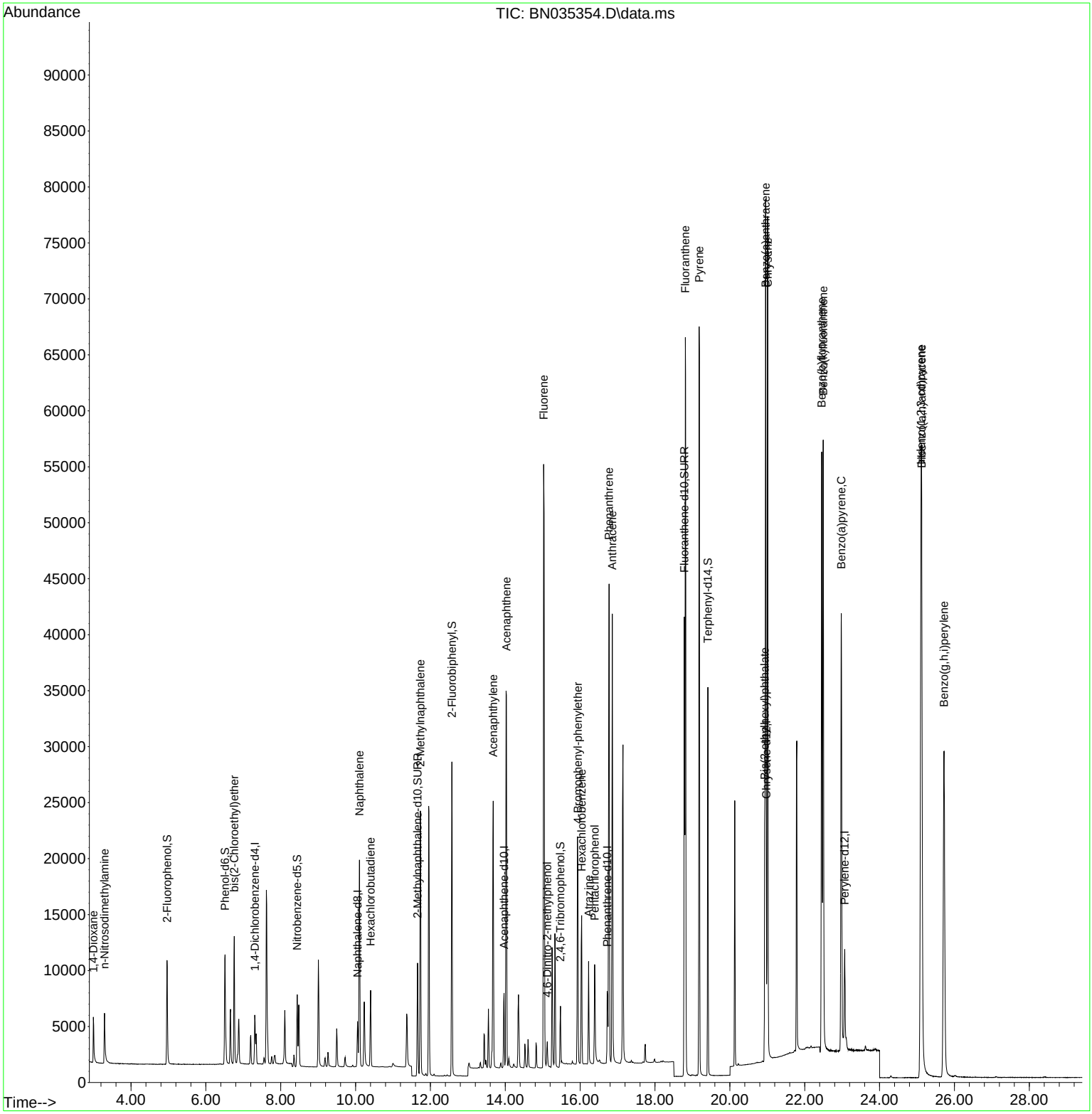
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2053	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5309	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3942	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	9517	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	9905	0.400	ng		0.00
35) Perylene-d12	23.067	264	10469	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	8194	1.572	ng		0.00
5) Phenol-d6	6.513	99	10139	1.552	ng		0.00
8) Nitrobenzene-d5	8.440	82	5450	1.179	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	13988	1.478	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	4615	1.623	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	24687	1.542	ng		0.00
27) Fluoranthene-d10	18.785	212	44338	1.521	ng		0.00
31) Terphenyl-d14	19.412	244	32174	1.548	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	3220	1.727	ng		99
3) n-Nitrosodimethylamine	3.292	42	2729	1.570	ng	#	97
6) bis(2-Chloroethyl)ether	6.759	93	8629	1.759	ng		100
9) Naphthalene	10.105	128	23280	1.680	ng		98
10) Hexachlorobutadiene	10.404	225	5409	1.331	ng	#	100
12) 2-Methylnaphthalene	11.732	142	16881	1.651	ng		98
16) Acenaphthylene	13.679	152	27389	1.626	ng		99
17) Acenaphthene	14.032	154	18061	1.636	ng		99
18) Fluorene	15.026	166	26044	1.604	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	1947	0.983	ng	#	69
21) 4-Bromophenyl-phenylether	15.941	248	9493	1.566	ng		96
22) Hexachlorobenzene	16.041	284	10969	1.743	ng		100
23) Atrazine	16.227	200	6644	1.221	ng		96
24) Pentachlorophenol	16.388	266	4618	1.571	ng	#	85
25) Phenanthrene	16.773	178	43698	1.745	ng		100
26) Anthracene	16.860	178	39964	1.737	ng		99
28) Fluoranthene	18.813	202	58605	1.702	ng		100
30) Pyrene	19.180	202	60164	1.824	ng		100
32) Benzo(a)anthracene	20.956	228	57498	1.667	ng		100
33) Chrysene	21.010	228	58919	1.725	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	20598	1.138	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	69517	1.665	ng		99
37) Benzo(b)fluoranthene	22.454	252	76506	2.172	ng		95
38) Benzo(k)fluoranthene	22.494	252	63925	1.814	ng	#	95
39) Benzo(a)pyrene	22.977	252	52595	1.697	ng	#	94
40) Dibenzo(a,h)anthracene	25.126	278	55068	1.664	ng		96
41) Benzo(g,h,i)perylene	25.719	276	56947	1.618	ng		97

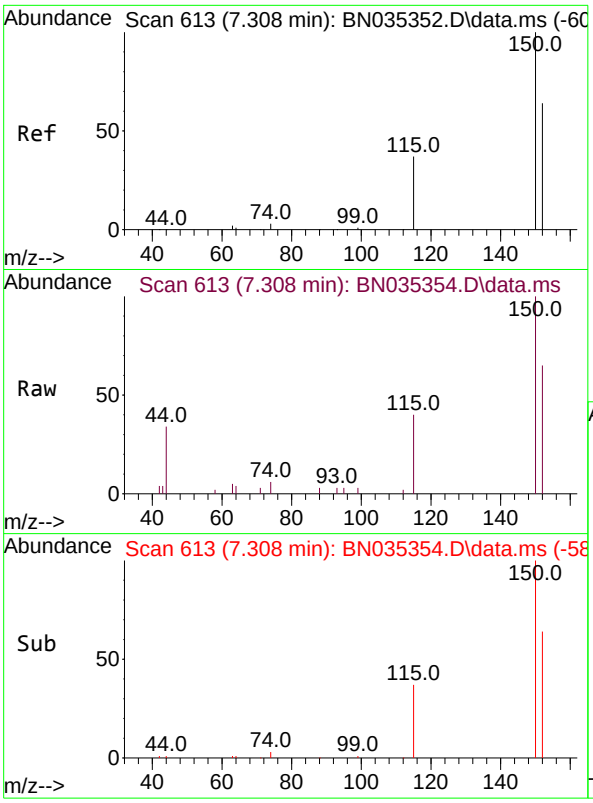
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



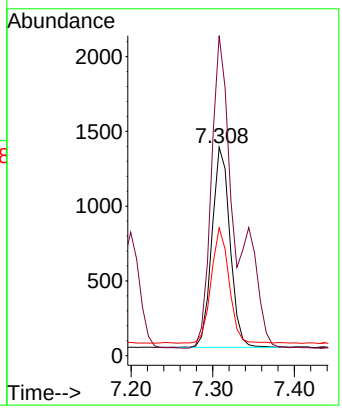


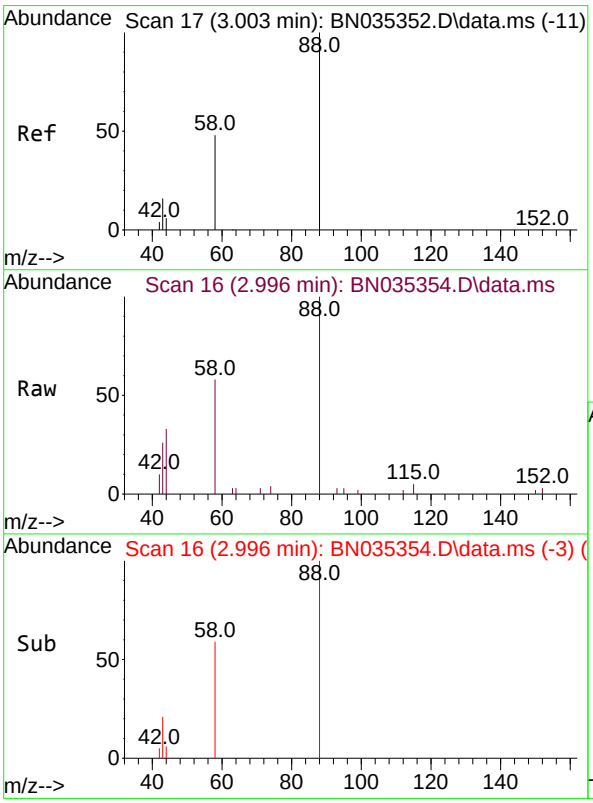
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2053

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	61.4	49.6	74.4

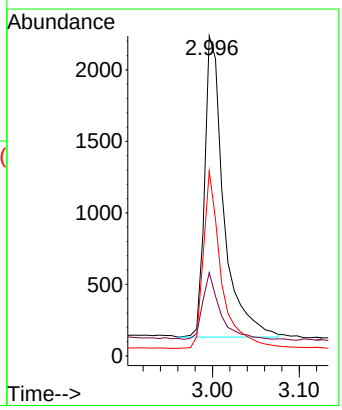


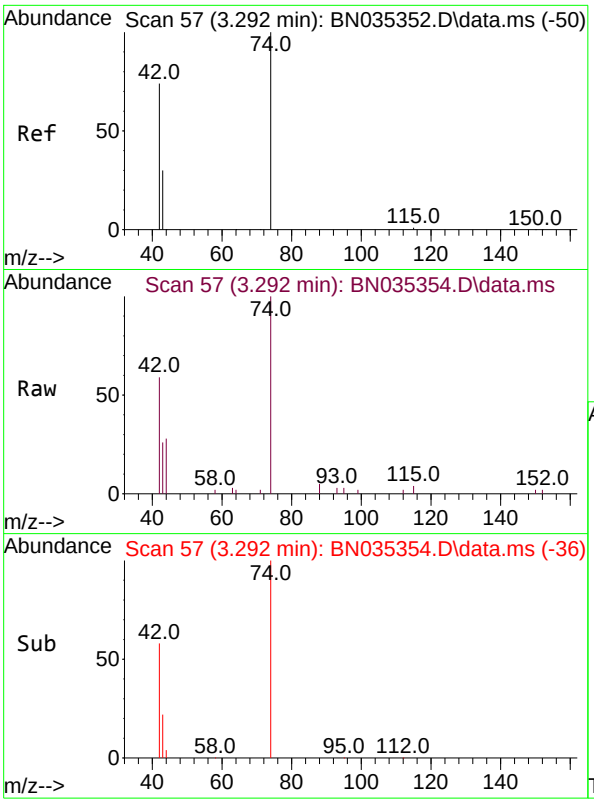


#2
1,4-Dioxane
Concen: 1.727 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 88 Resp: 3220

Ion	Ratio	Lower	Upper
88	100		
43	20.3	17.2	25.8
58	55.1	44.5	66.7



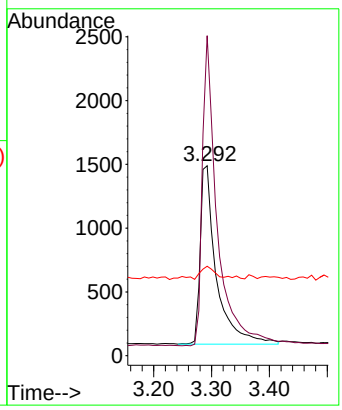


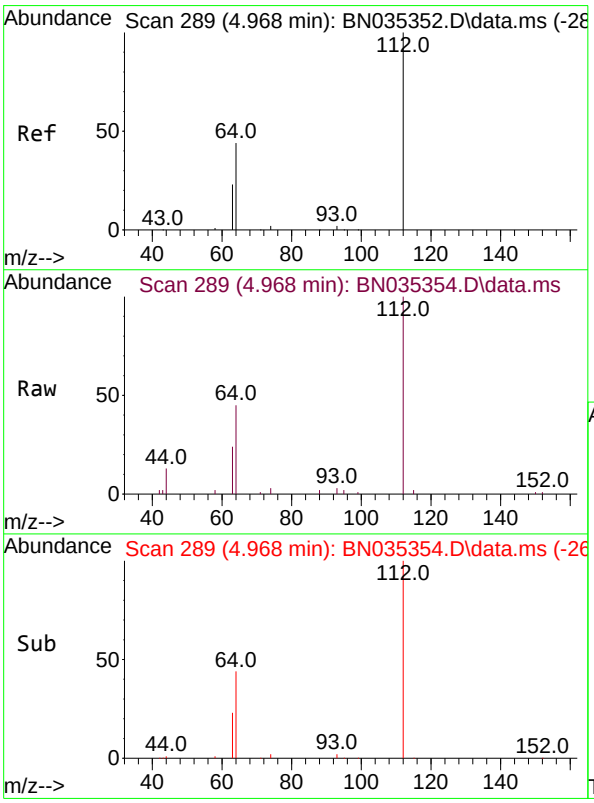
#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 2729

Ion	Ratio	Lower	Upper
42	100		
74	160.4	124.9	187.3
44	6.2	2.2	3.4#

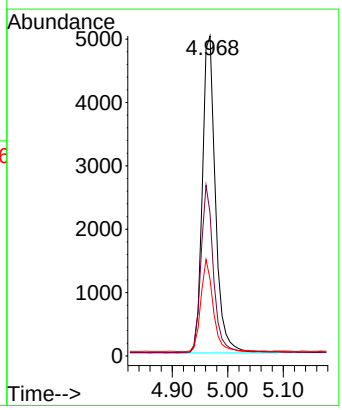


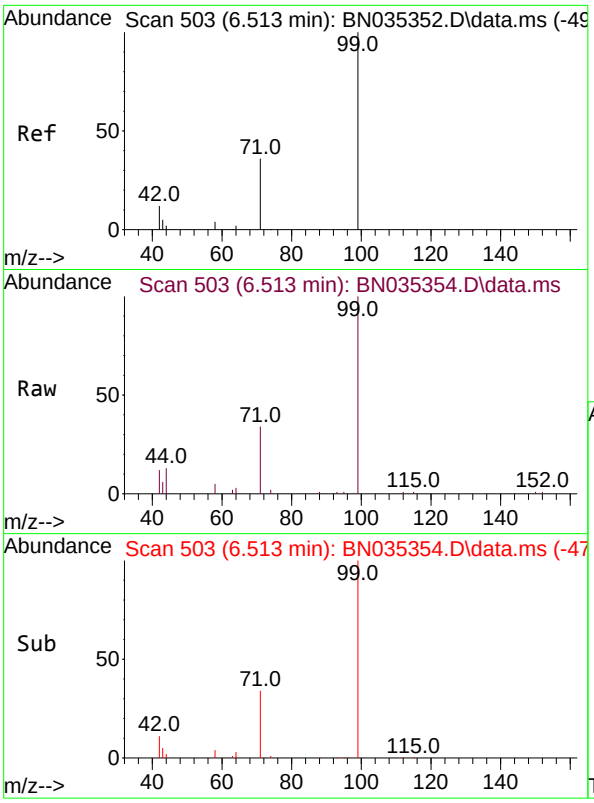


#4
2-Fluorophenol
Concen: 1.572 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:112 Resp: 8194

Ion	Ratio	Lower	Upper
112	100		
64	50.7	39.8	59.8
63	27.5	21.0	31.6



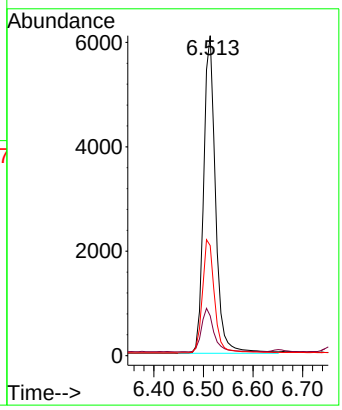


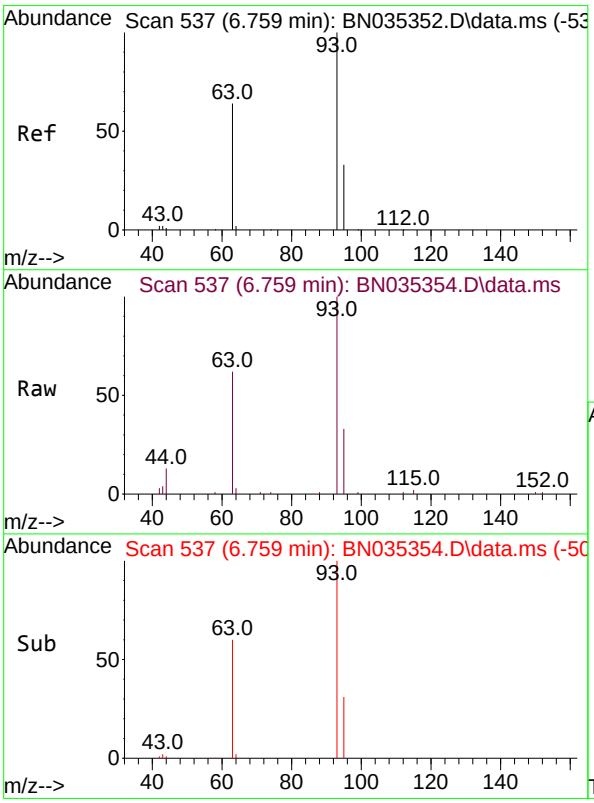
#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 10139

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	36.3	29.3	43.9

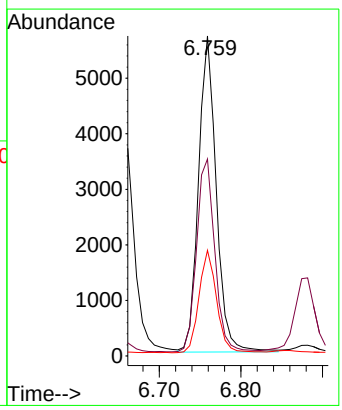


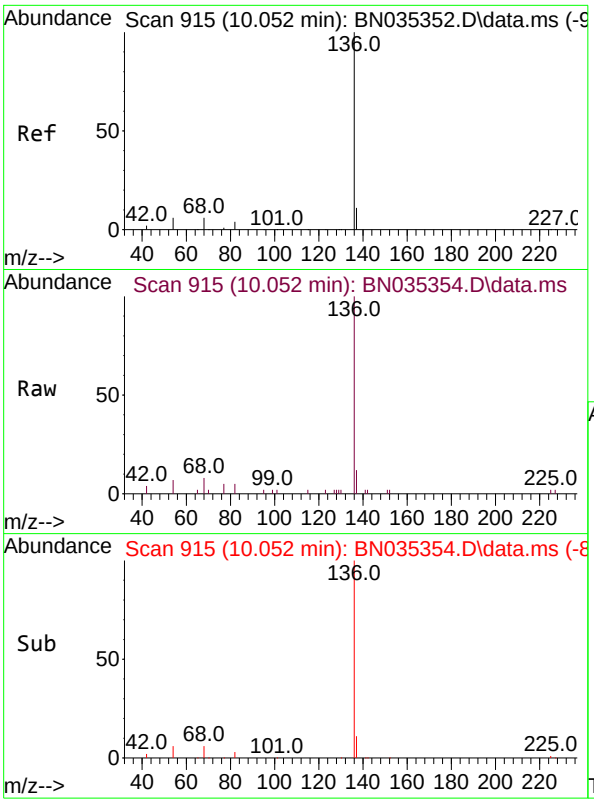


#6
bis(2-Chloroethyl)ether
Concen: 1.759 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 93 Resp: 8629

Ion	Ratio	Lower	Upper
93	100		
63	62.6	50.4	75.6
95	32.2	25.7	38.5



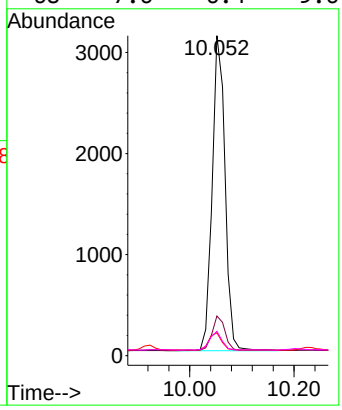


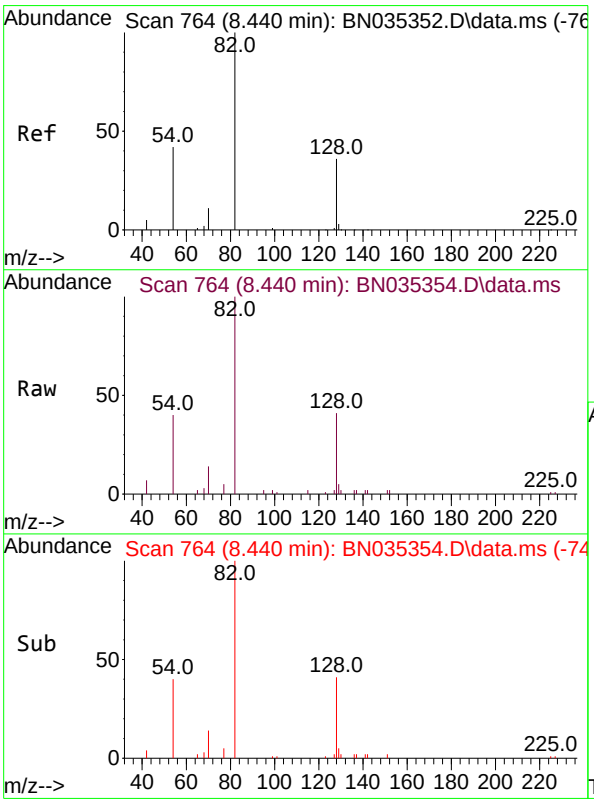
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 5309

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.2	6.1	9.1
68	7.6	6.4	9.6

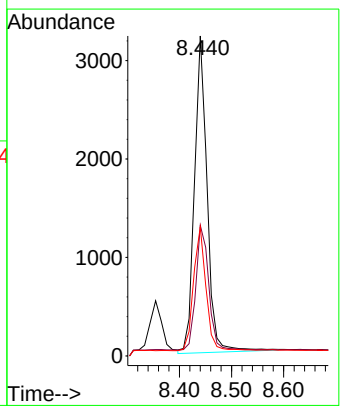


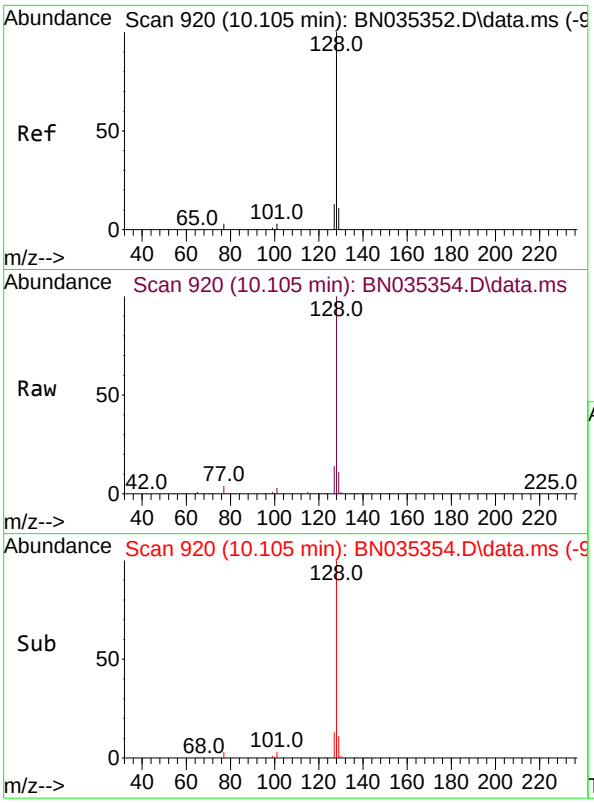


#8
Nitrobenzene-d5
Concen: 1.179 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 82 Resp: 5450

Ion	Ratio	Lower	Upper
82	100		
128	40.8	33.4	50.0
54	40.3	36.7	55.1



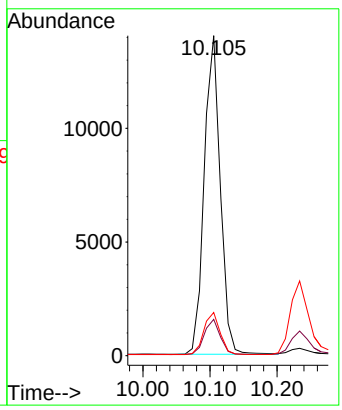


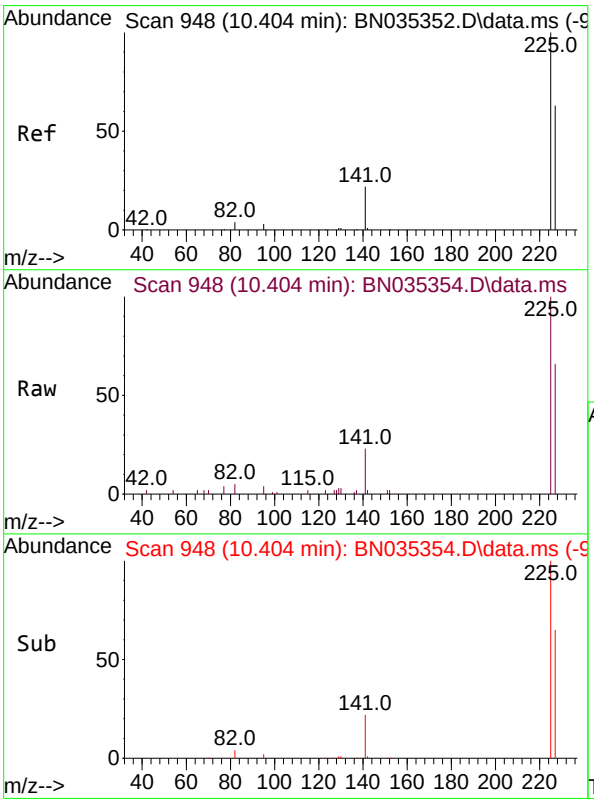
#9
Naphthalene
Concen: 1.680 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 23280

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.8	14.6
127	13.5	11.4	17.2

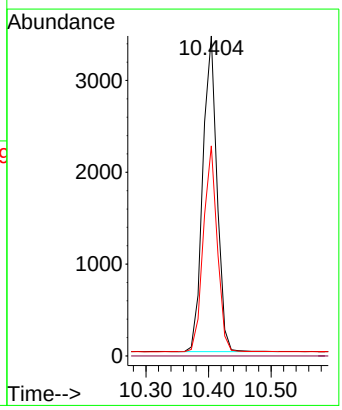


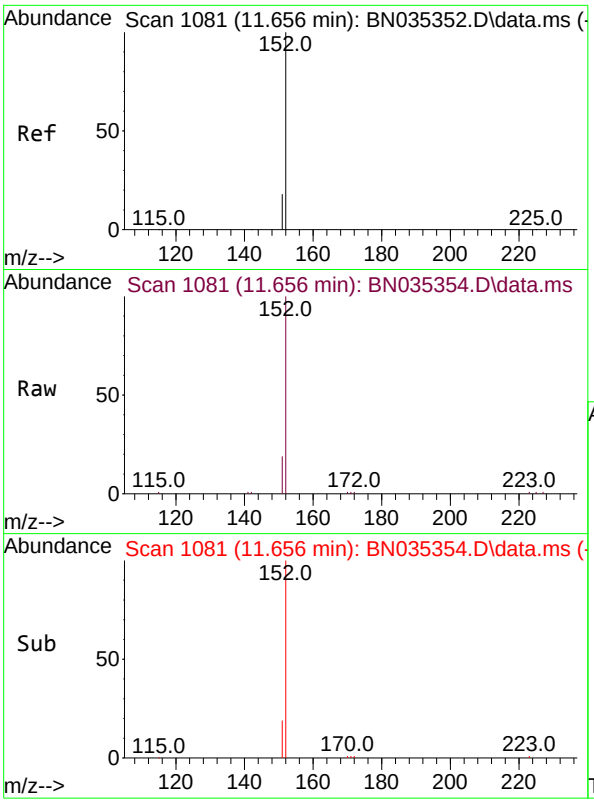


#10
Hexachlorobutadiene
Concen: 1.331 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:225 Resp: 5409

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.3	76.9



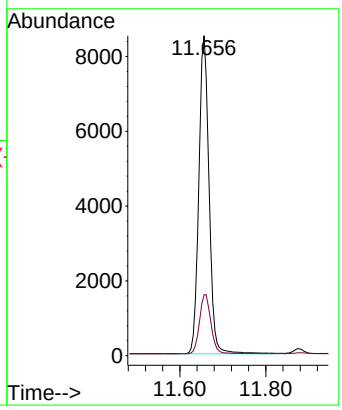


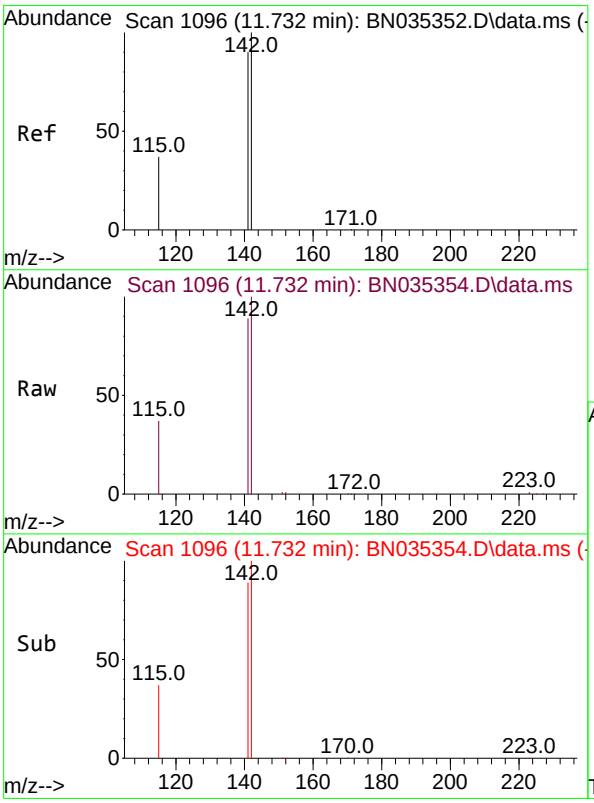
#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 13988

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

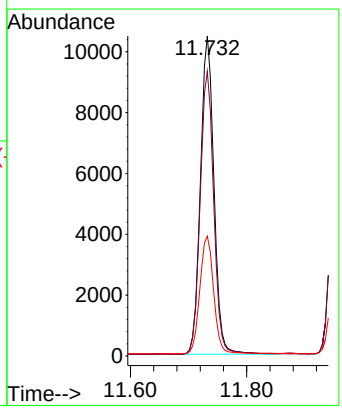


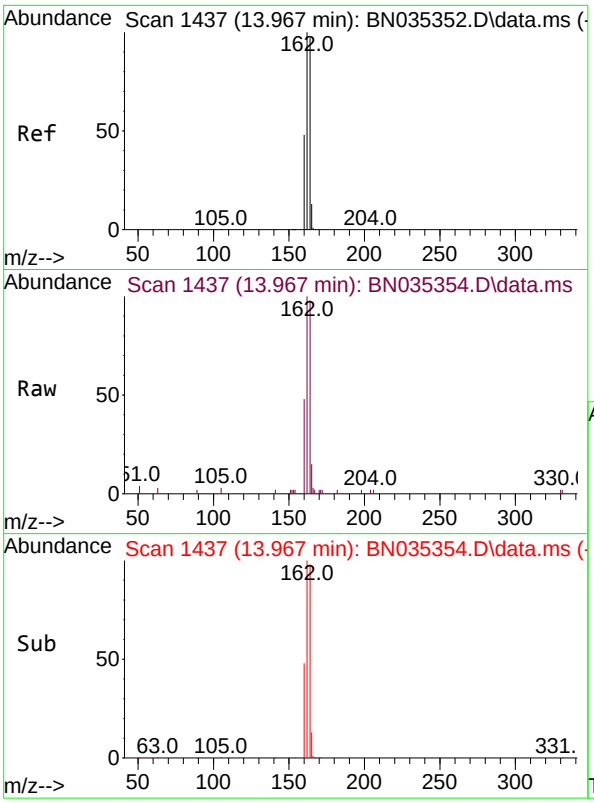


#12
2-Methylnaphthalene
Concen: 1.651 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:142 Resp: 16881

Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.4
115	37.5	31.4	47.0



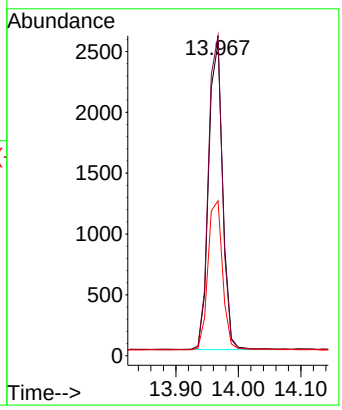


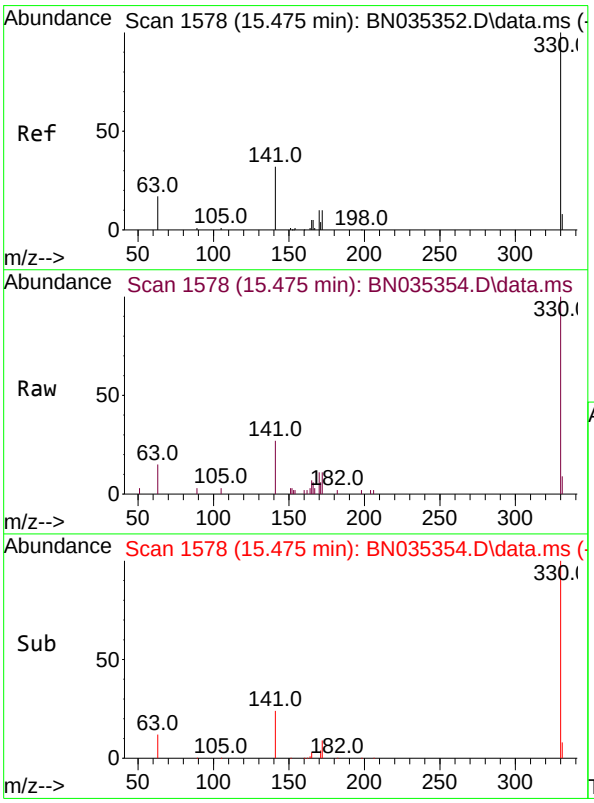
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 3942

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	49.5	40.1	60.1

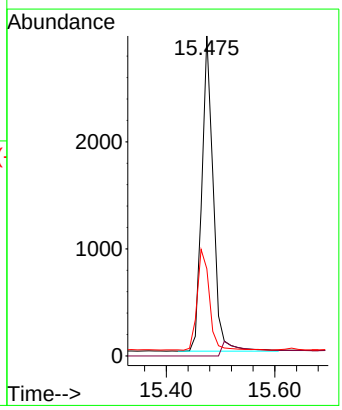


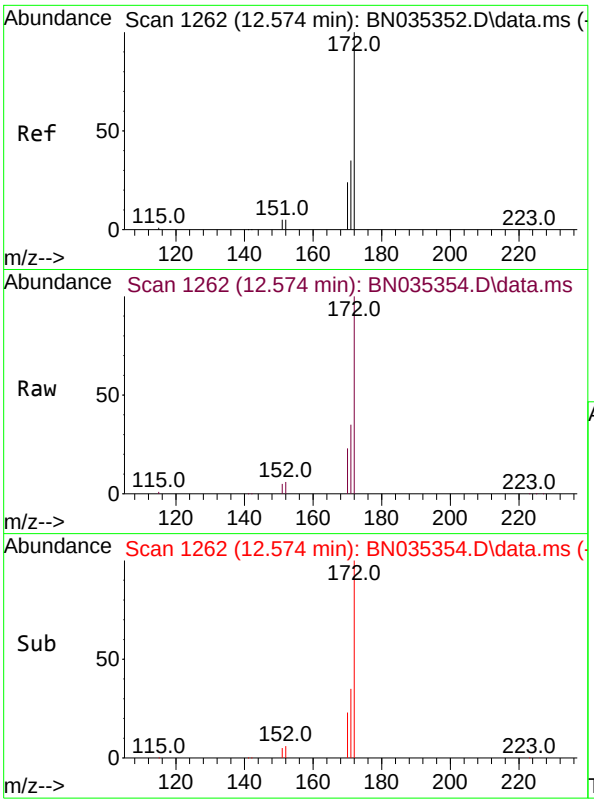


#14
2,4,6-Tribromophenol
Concen: 1.623 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:330 Resp: 4615

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.6	26.6	40.0



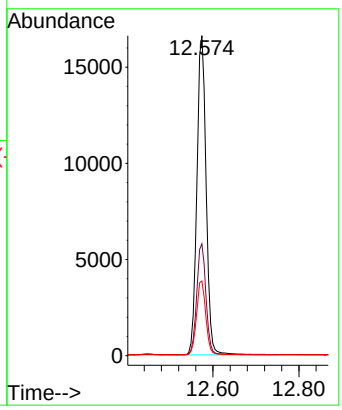


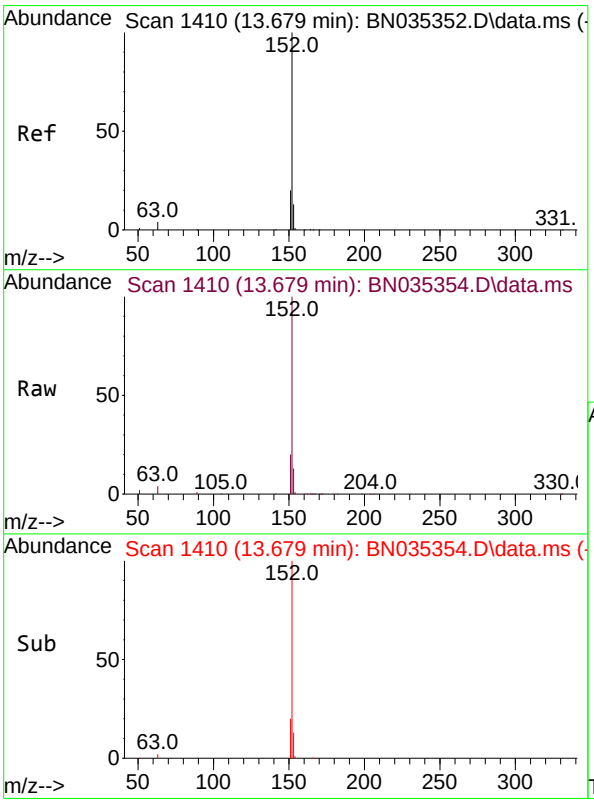
#15
2-Fluorobiphenyl
Concen: 1.542 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 24687

Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.4
170	23.4	19.8	29.8

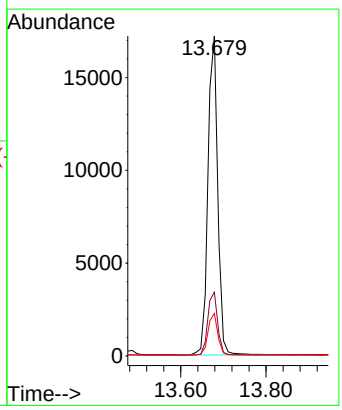


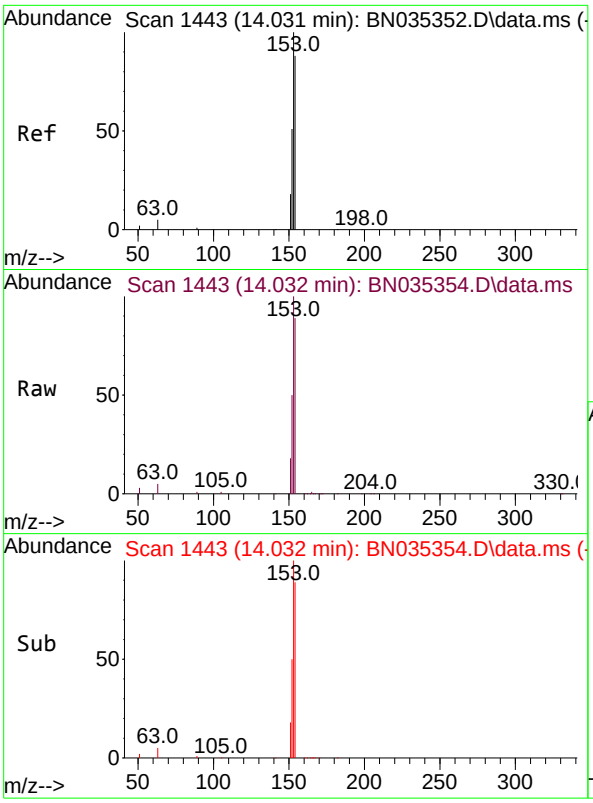


#16
Acenaphthylene
Concen: 1.626 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:152 Resp: 27389

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.0	10.4	15.6



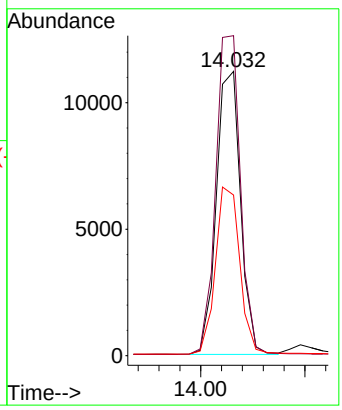


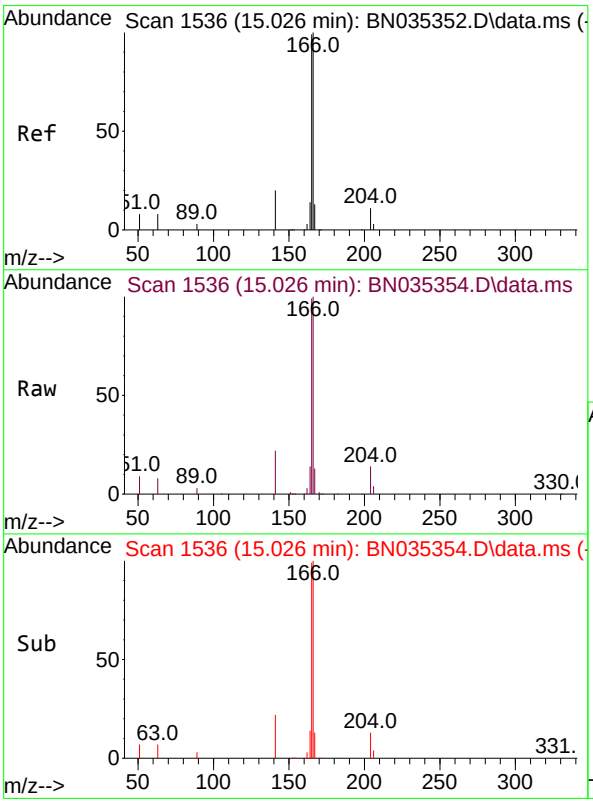
#17
Acenaphthene
Concen: 1.636 ng
RT: 14.032 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 18061

Ion	Ratio	Lower	Upper
154	100		
153	115.1	92.6	139.0
152	59.9	49.0	73.6

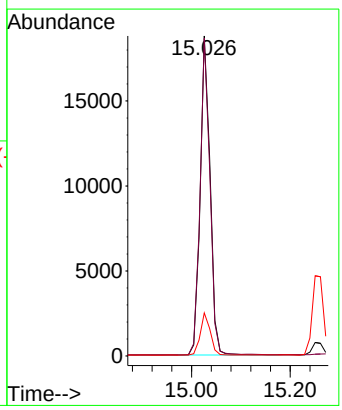


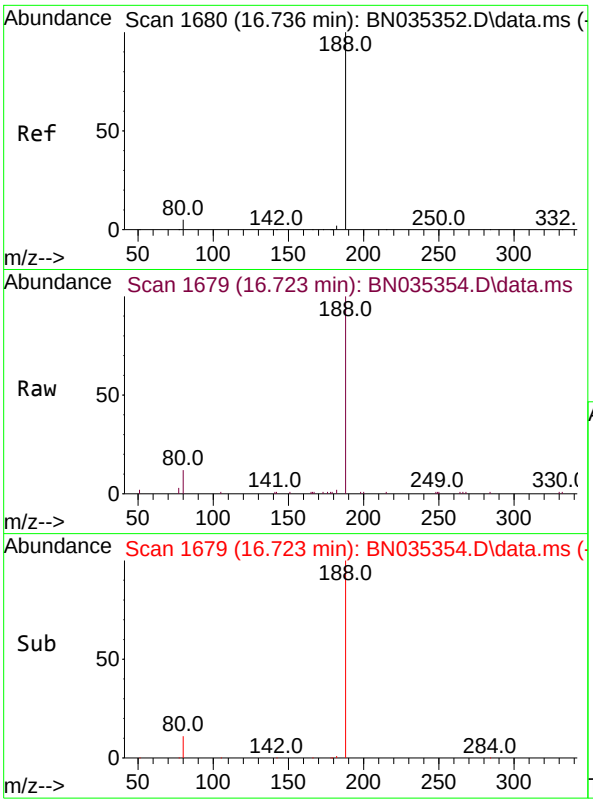


#18
Fluorene
Concen: 1.604 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:166 Resp: 26044

Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.7	119.5
167	13.3	10.8	16.2



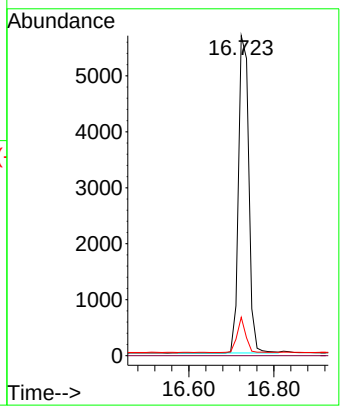


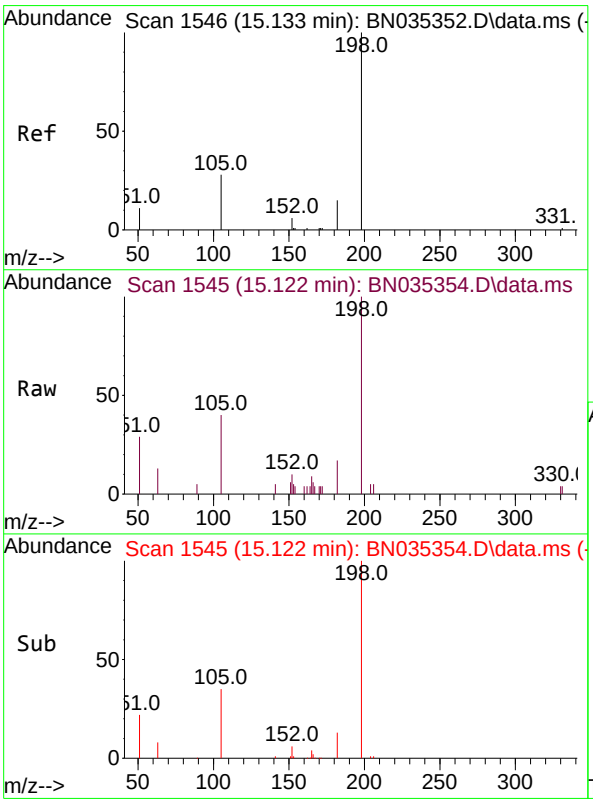
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 9517

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.0	4.6	6.8#

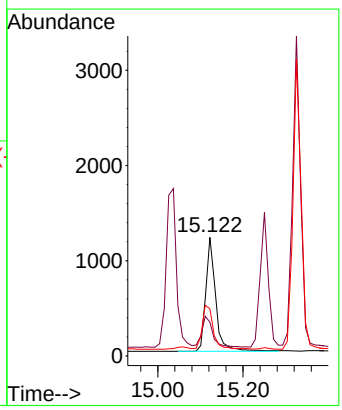


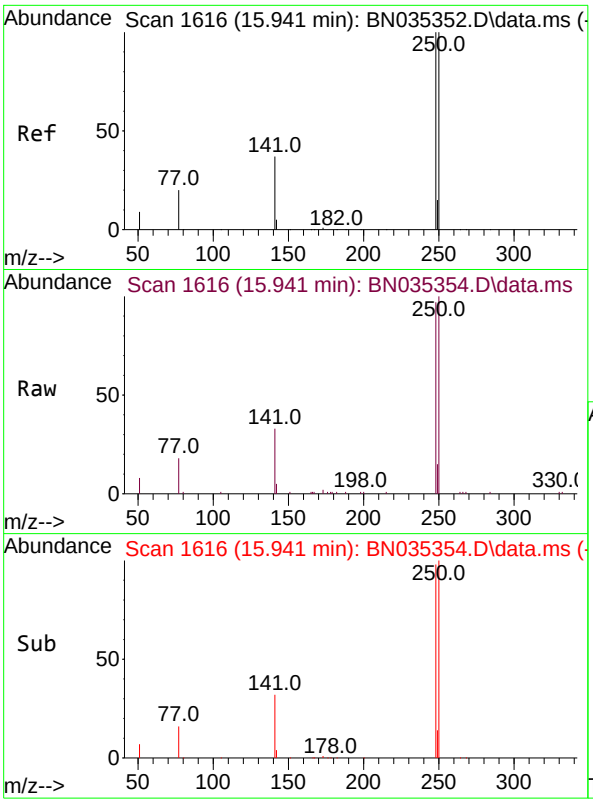


#20
4,6-Dinitro-2-methylphenol
Concen: 0.983 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:198 Resp: 1947

Ion	Ratio	Lower	Upper
198	100		
51	28.6	46.5	69.7#
105	39.8	45.3	67.9#



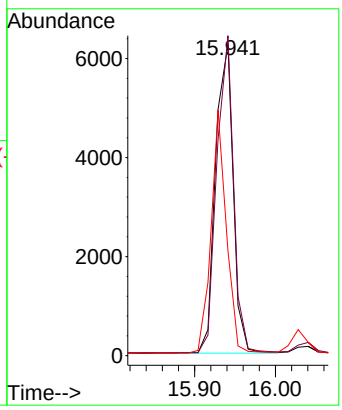


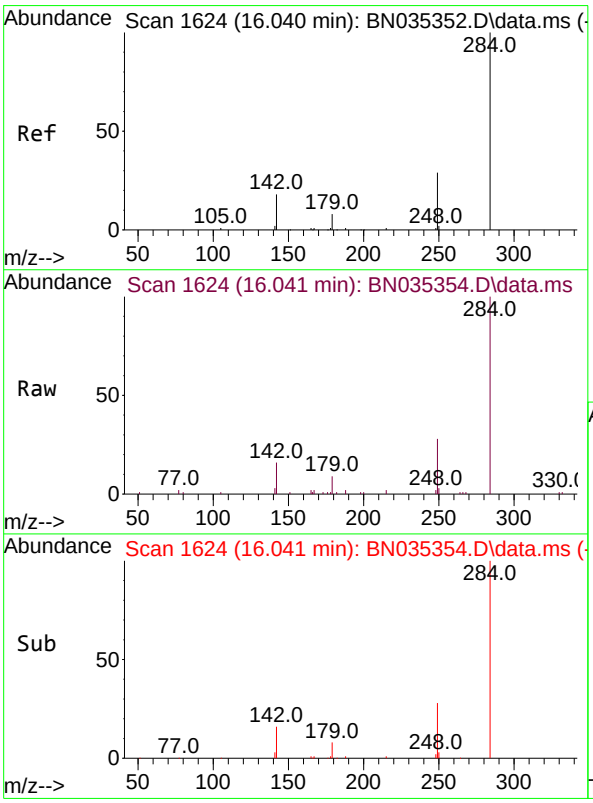
#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 9493

Ion	Ratio	Lower	Upper
248	100		
250	102.7	80.6	120.8
141	33.7	31.5	47.3

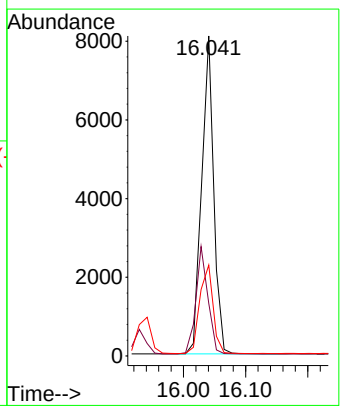


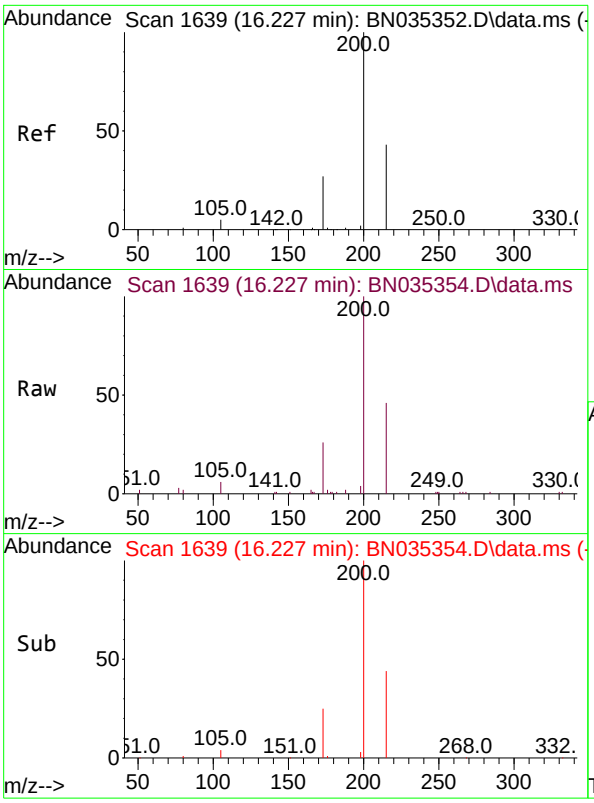


#22
Hexachlorobenzene
Concen: 1.743 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:284 Resp: 10969

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.6	24.6	36.8



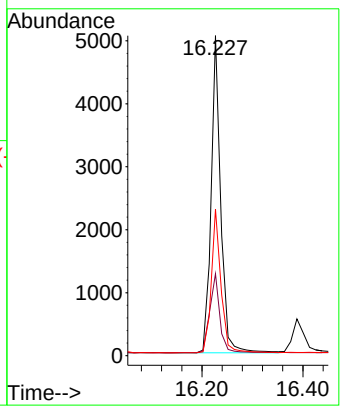


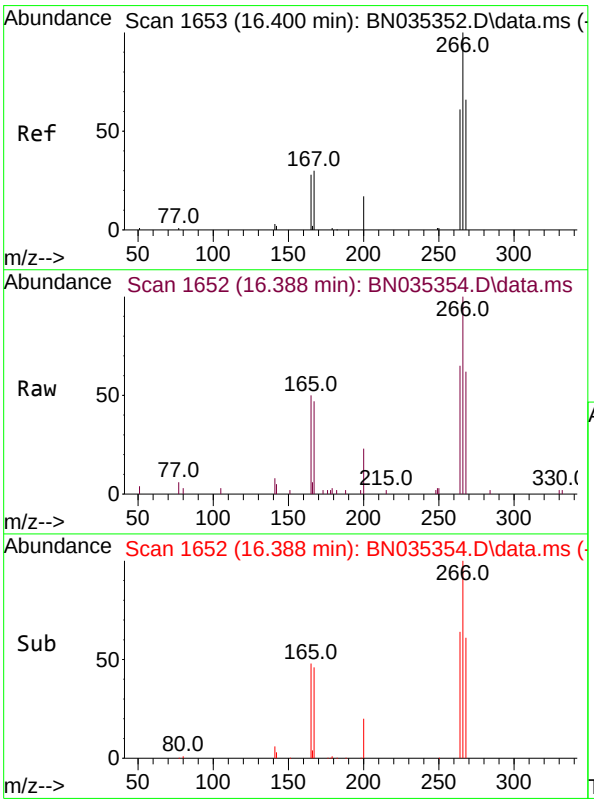
#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 6644

Ion	Ratio	Lower	Upper
200	100		
173	25.6	24.1	36.1
215	45.8	36.9	55.3

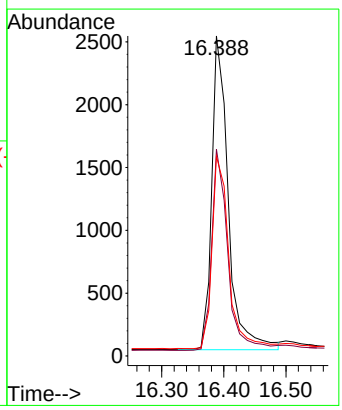


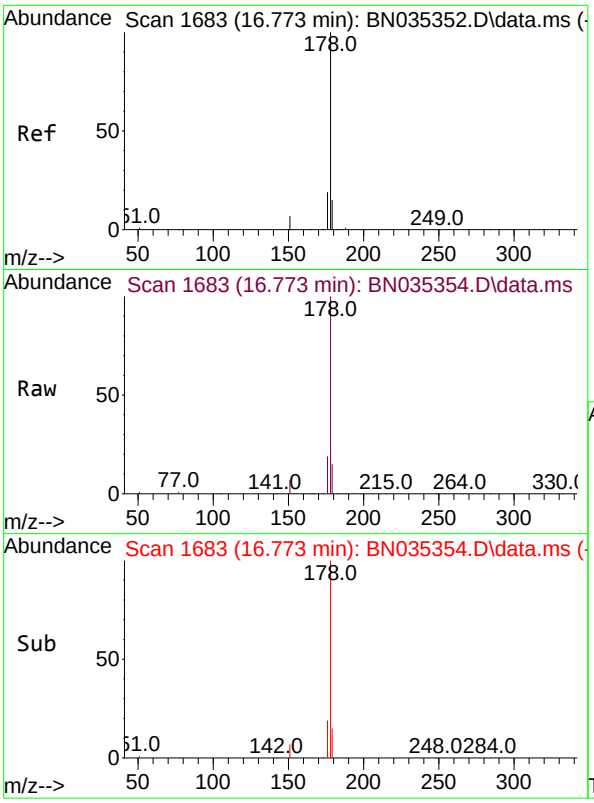


#24
Pentachlorophenol
Concen: 1.571 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:266 Resp: 4618

Ion	Ratio	Lower	Upper
266	100		
264	64.8	42.3	63.5#
268	62.9	43.3	64.9



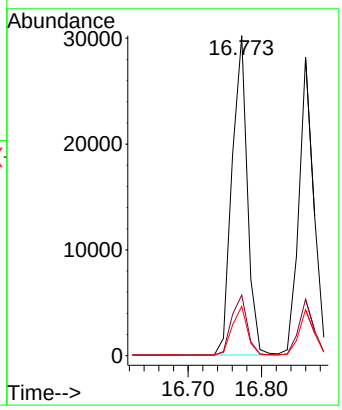


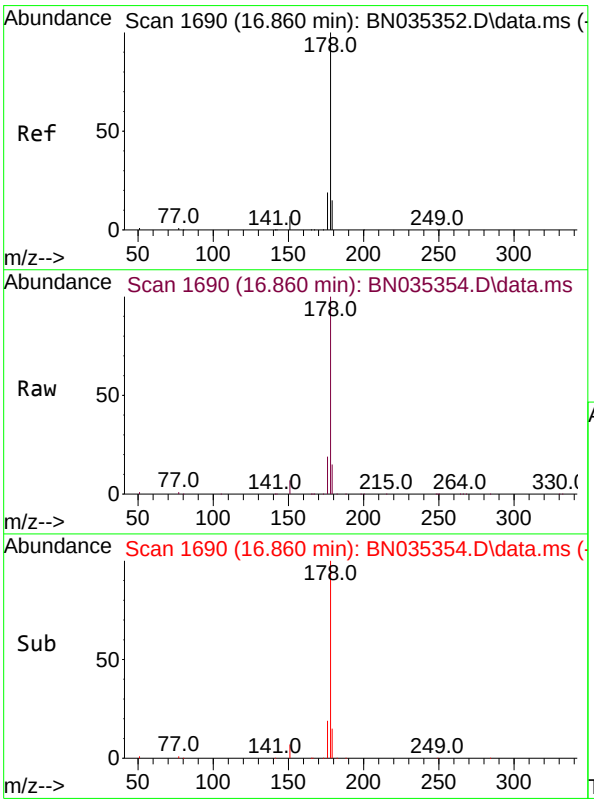
#25
Phenanthrene
Concen: 1.745 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 43698

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.2	12.3	18.5

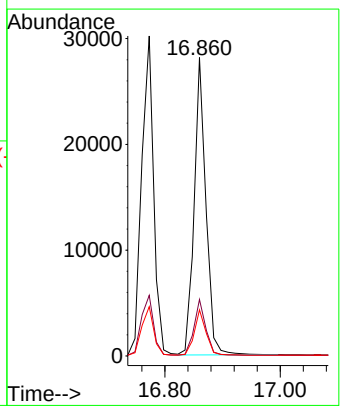


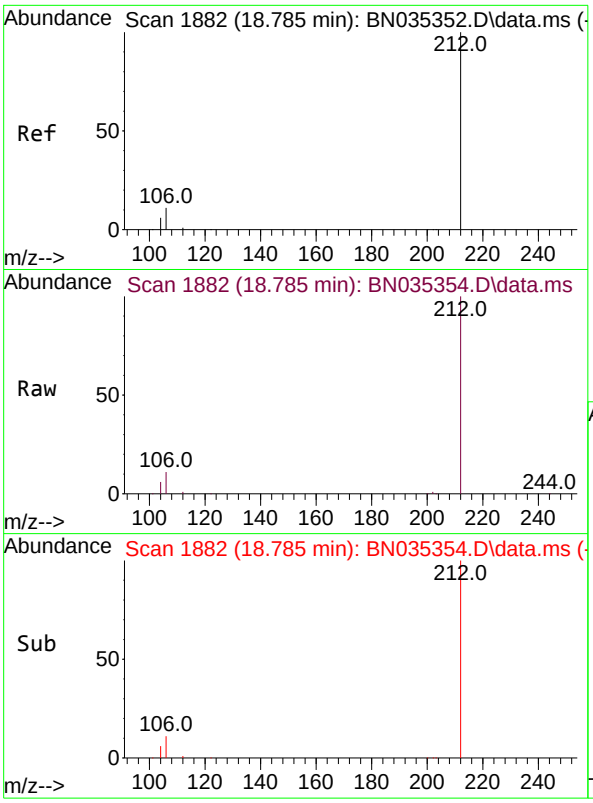


#26
Anthracene
Concen: 1.737 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:178 Resp: 39964

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.3	12.6	18.8



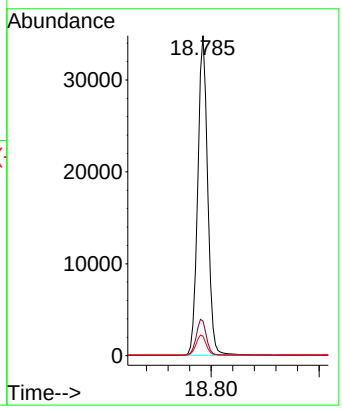


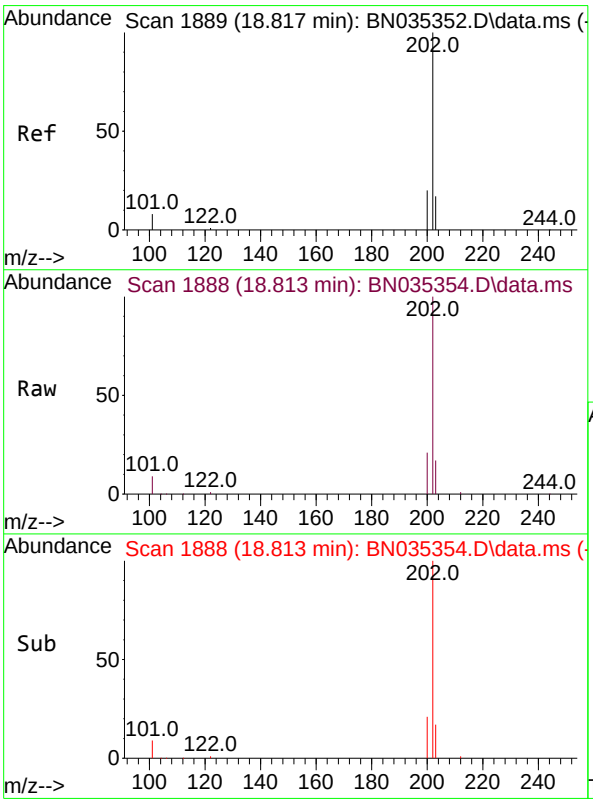
#27
Fluoranthene-d10
Concen: 1.521 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 44338

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9

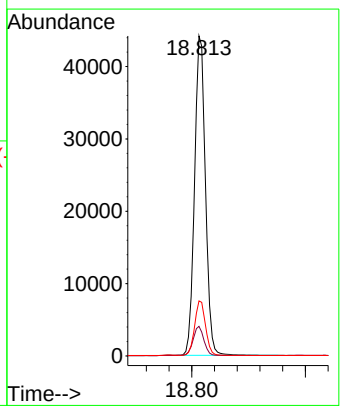


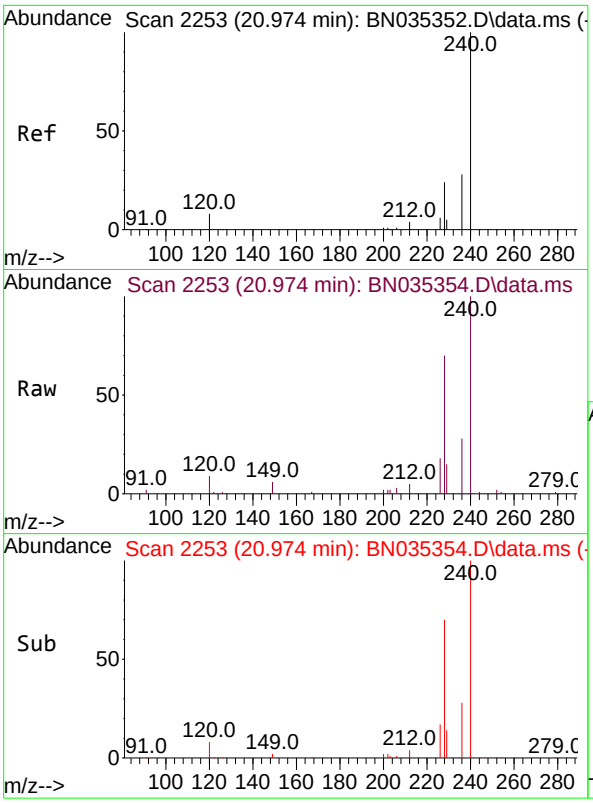


#28
Fluoranthene
Concen: 1.702 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 58605

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



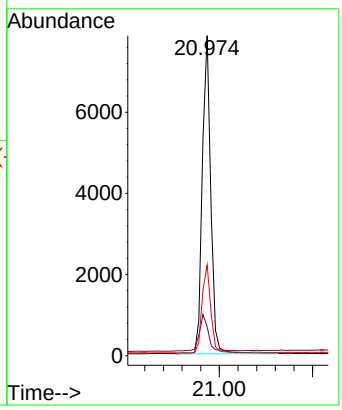


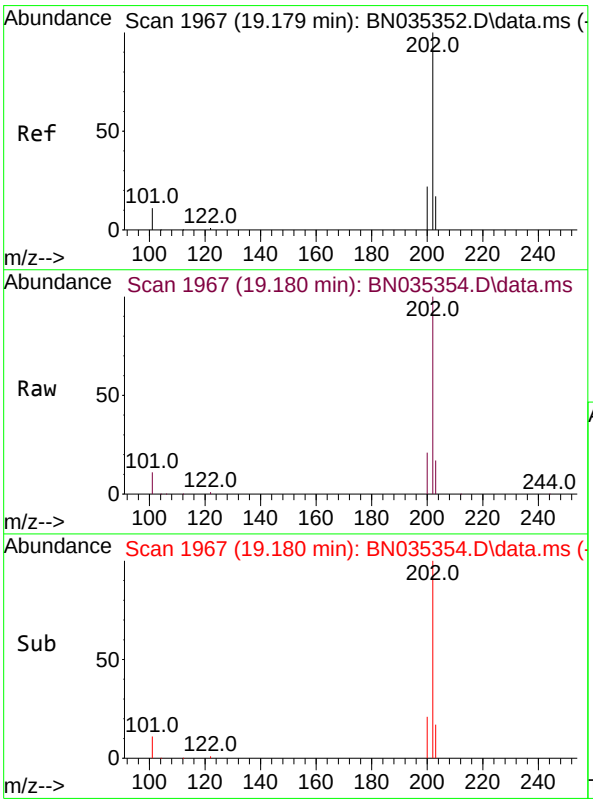
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 9905

Ion	Ratio	Lower	Upper
240	100		
120	9.0	7.9	11.9
236	28.4	22.9	34.3

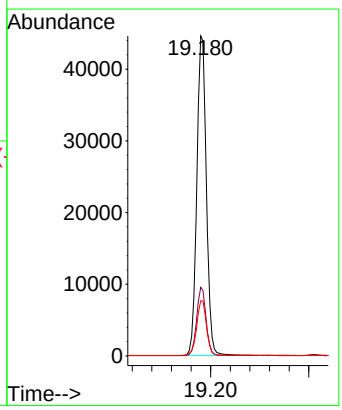


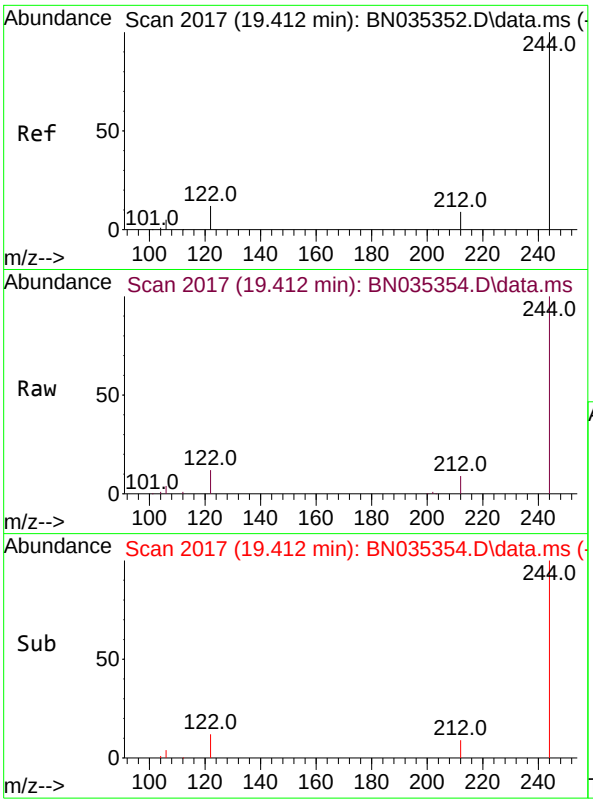


#30
Pyrene
Concen: 1.824 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 60164

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.7	14.3	21.5



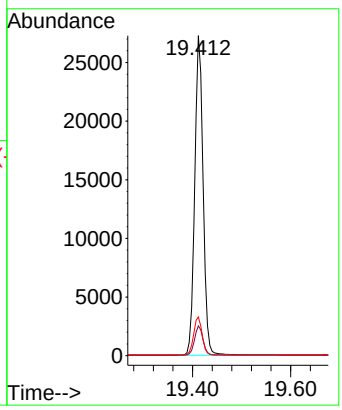


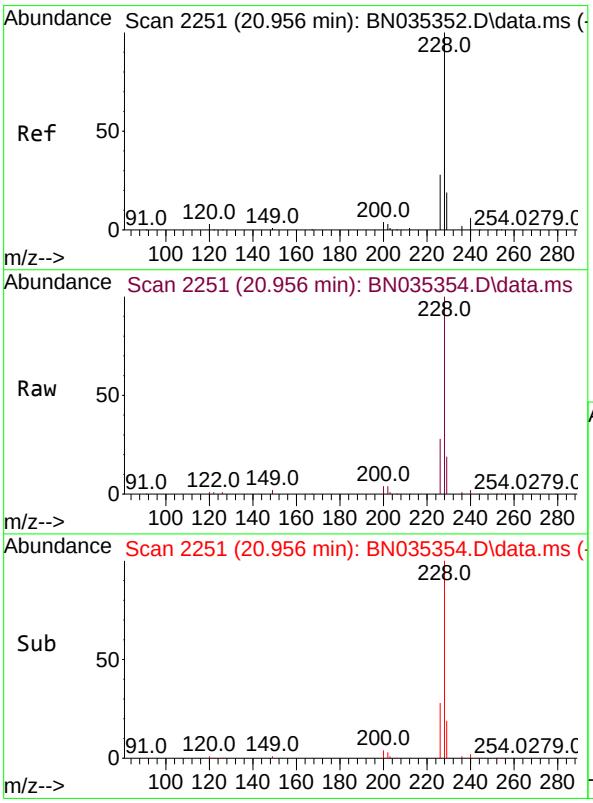
#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 32174

Ion	Ratio	Lower	Upper
244	100		
212	9.3	8.1	12.1
122	12.1	10.3	15.5

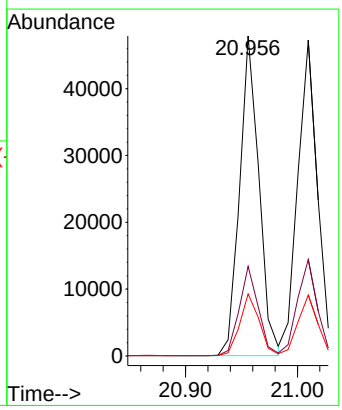


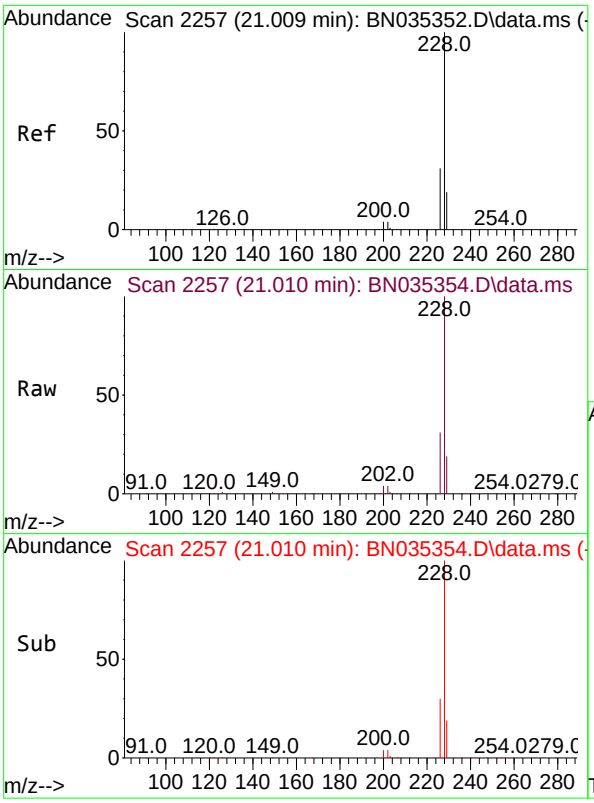


#32
Benzo(a)anthracene
Concen: 1.667 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:228 Resp: 57498

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	19.4	15.8	23.8



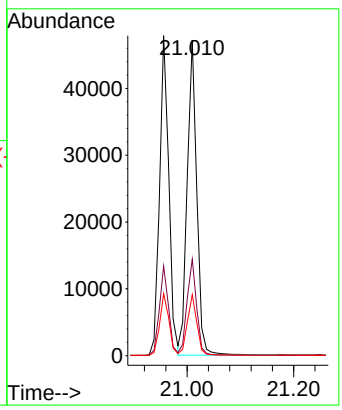


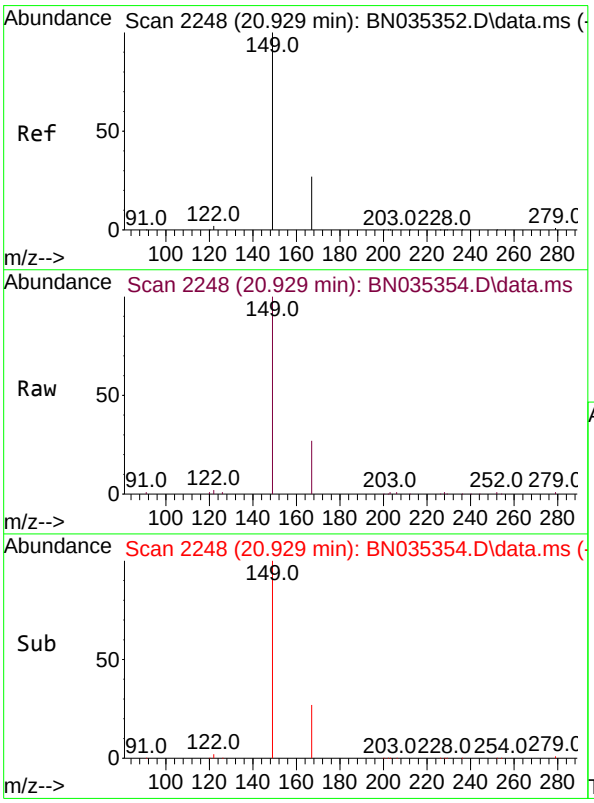
#33
Chrysene
Concen: 1.725 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 58919

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.3	15.9	23.9

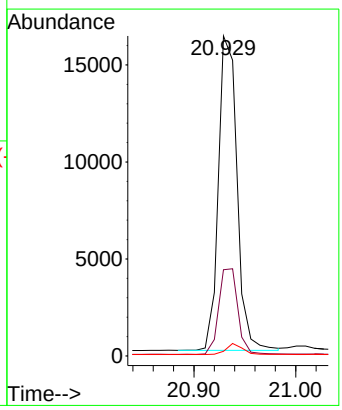


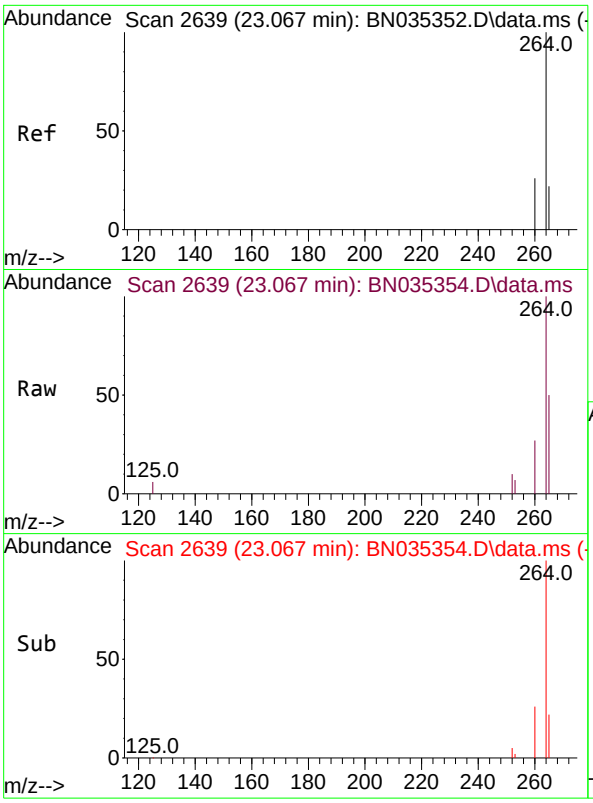


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.138 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:149 Resp: 20598

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.4
279	3.2	2.7	4.1



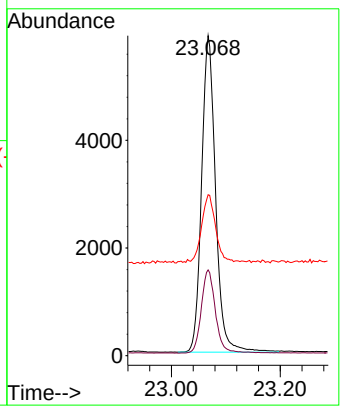


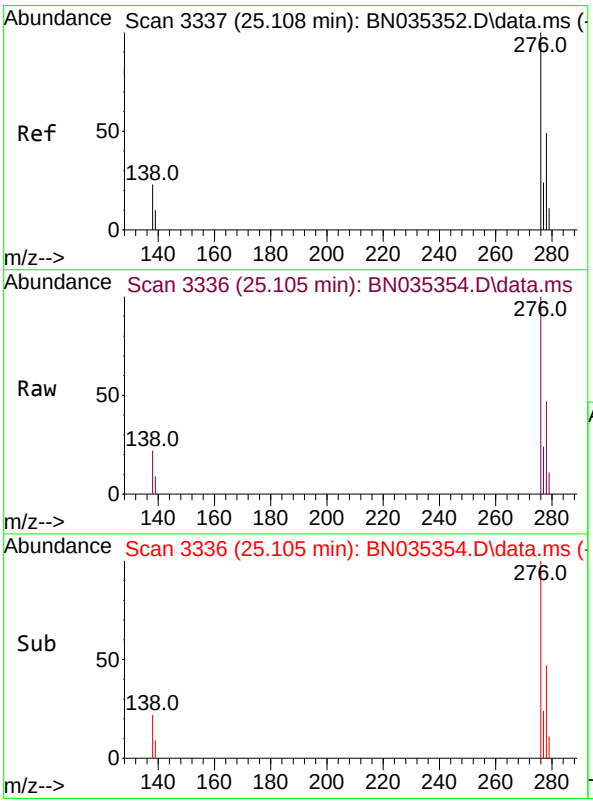
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 10469

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4

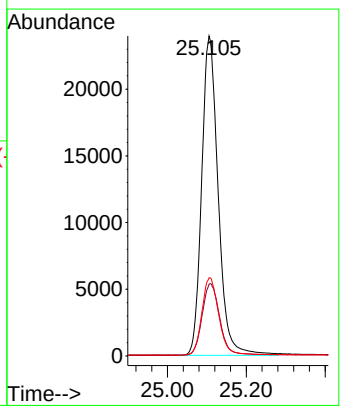


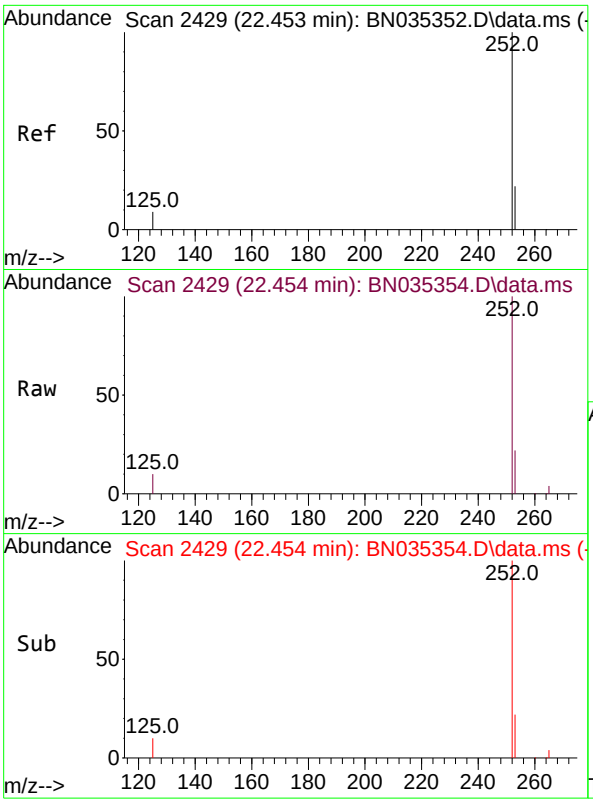


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.665 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:276 Resp: 69517

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.8	19.8	29.6



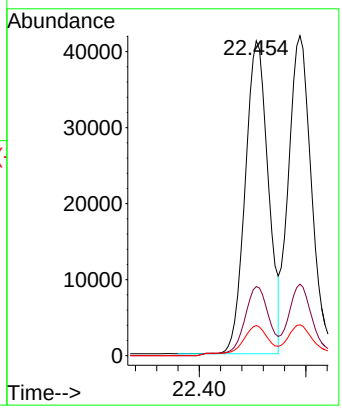


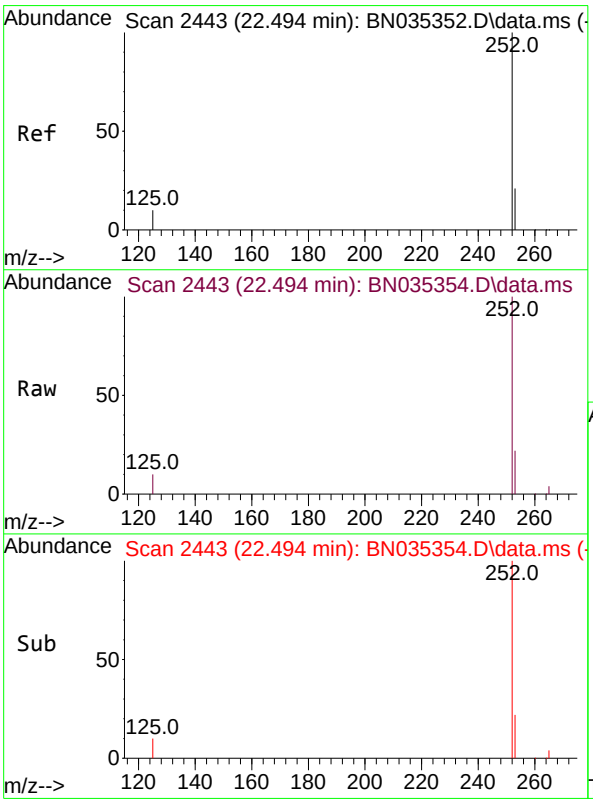
#37
Benzo(b)fluoranthene
Concen: 2.172 ng
RT: 22.454 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 76506

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.6	9.6	14.4

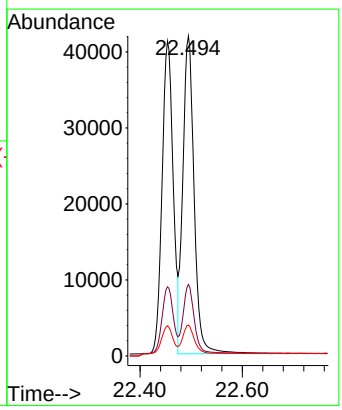


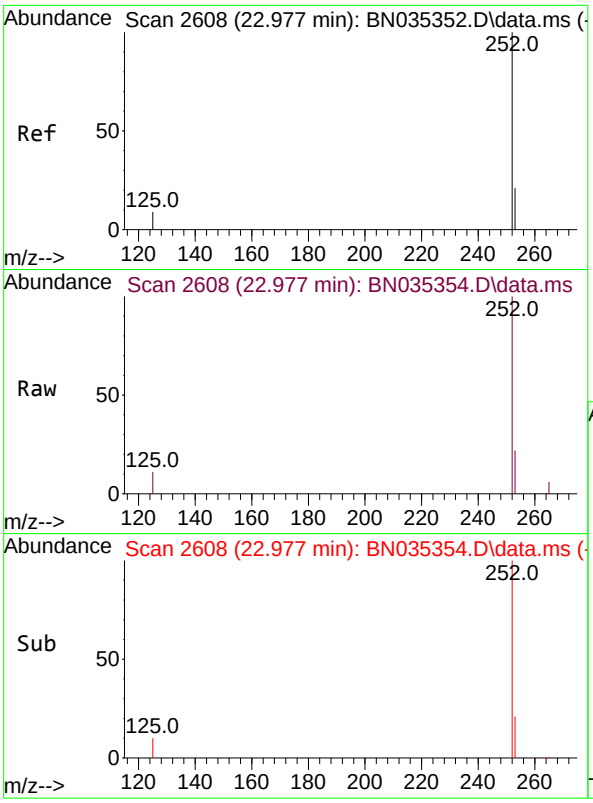


#38
Benzo(k)fluoranthene
Concen: 1.814 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:252 Resp: 63925

Ion	Ratio	Lower	Upper
252	100		
253	22.3	19.5	29.3
125	9.7	10.2	15.4#



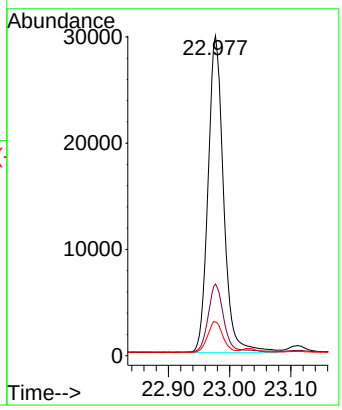


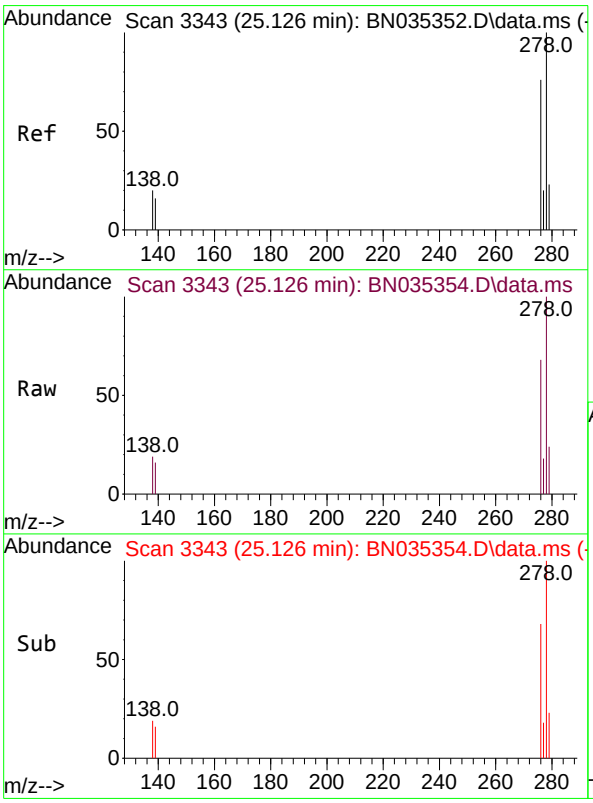
#39
Benzo(a)pyrene
Concen: 1.697 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 52595

Ion	Ratio	Lower	Upper
252	100		
253	22.4	20.2	30.4
125	10.5	10.9	16.3#

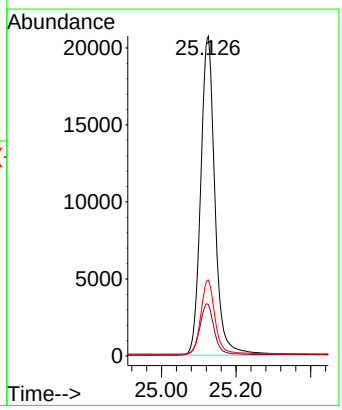


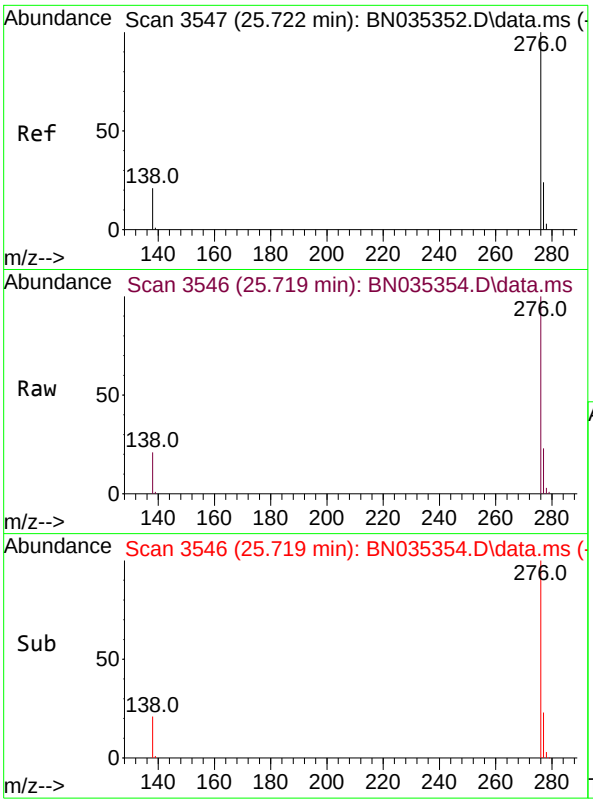


#40
Dibenzo(a,h)anthracene
Concen: 1.664 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:278 Resp: 55068

Ion	Ratio	Lower	Upper
278	100		
139	16.0	14.2	21.4
279	23.8	20.5	30.7



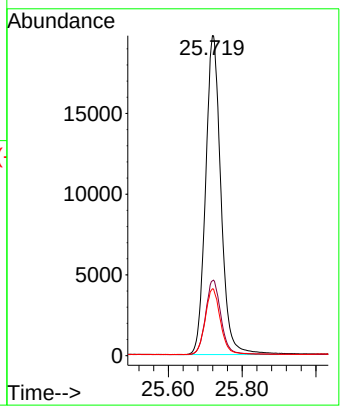


#41
Benzo(g,h,i)perylene
Concen: 1.618 ng
RT: 25.719 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 56947

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.9	29.9
138	20.9	17.8	26.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

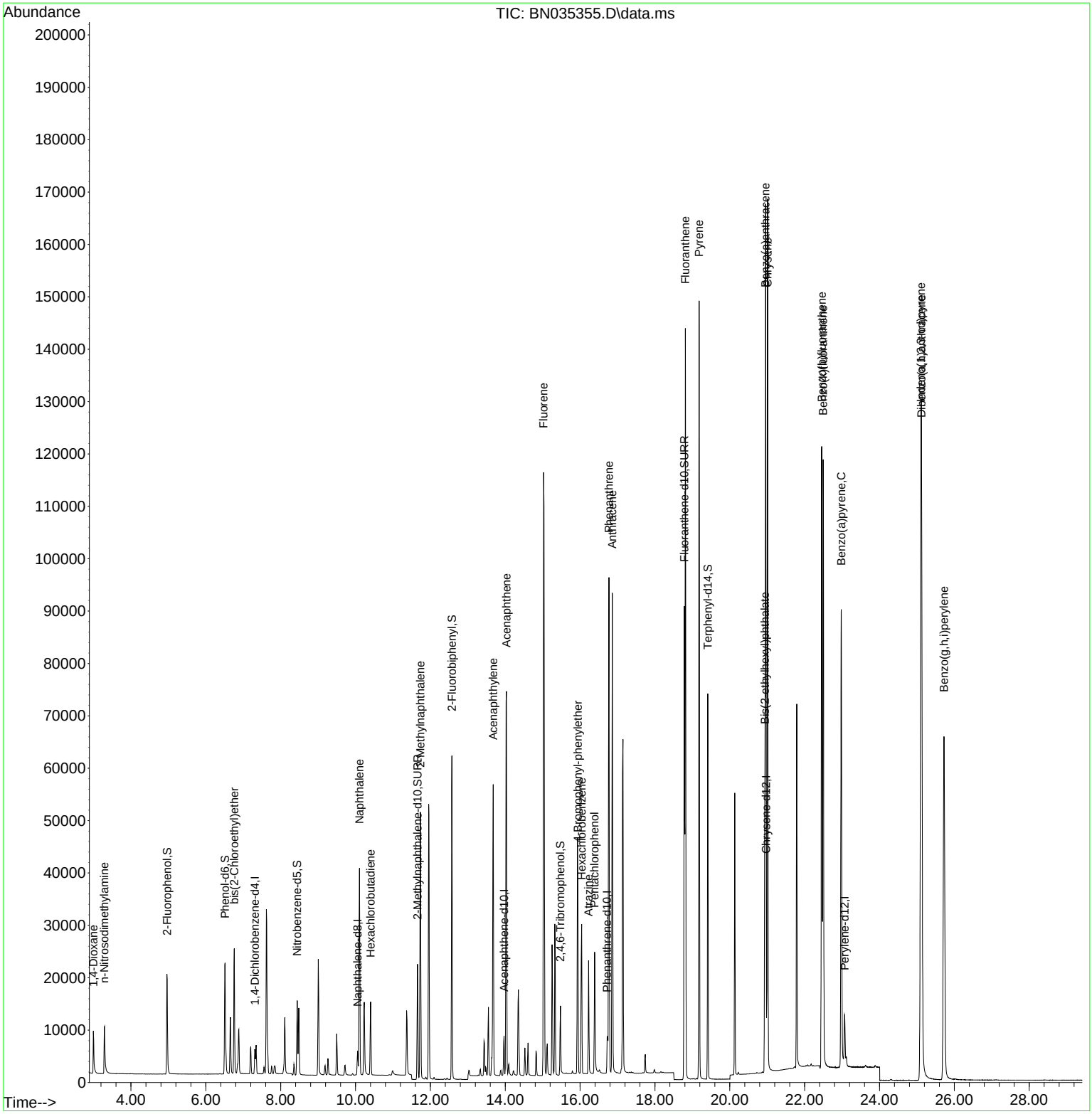
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2226	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5857	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4307	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	10513	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	11206	0.400	ng		0.00
35) Perylene-d12	23.067	264	11643	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	16991	3.007	ng		0.00
5) Phenol-d6	6.513	99	21633	3.053	ng		0.00
8) Nitrobenzene-d5	8.440	82	11759	2.307	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	29957	2.870	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	10700	3.444	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	52048	2.976	ng		0.00
27) Fluoranthene-d10	18.785	212	95675	2.971	ng		0.00
31) Terphenyl-d14	19.412	244	69164	2.941	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	6360	3.146	ng		99
3) n-Nitrosodimethylamine	3.285	42	5524	2.932	ng	#	95
6) bis(2-Chloroethyl)ether	6.759	93	17762	3.339	ng		99
9) Naphthalene	10.105	128	49151	3.214	ng		97
10) Hexachlorobutadiene	10.404	225	11039	2.463	ng	#	100
12) 2-Methylnaphthalene	11.732	142	36121	3.202	ng		98
16) Acenaphthylene	13.679	152	60734	3.300	ng		99
17) Acenaphthene	14.031	154	38676	3.206	ng		99
18) Fluorene	15.026	166	55613	3.134	ng		99
21) 4-Bromophenyl-phenylether	15.941	248	20321	3.034	ng	#	93
22) Hexachlorobenzene	16.040	284	23349	3.359	ng		99
23) Atrazine	16.227	200	15072	2.508	ng		96
24) Pentachlorophenol	16.388	266	11439	3.522	ng		86
25) Phenanthrene	16.773	178	94243	3.406	ng		100
26) Anthracene	16.860	178	87657	3.449	ng		99
28) Fluoranthene	18.812	202	125901	3.309	ng		100
30) Pyrene	19.179	202	129105	3.460	ng		100
32) Benzo(a)anthracene	20.956	228	126517	3.242	ng		99
33) Chrysene	21.009	228	127439	3.297	ng		99
34) Bis(2-ethylhexyl)phtha...	20.938	149	46251	2.259	ng		99
36) Indeno(1,2,3-cd)pyrene	25.108	276	150433	3.239	ng		99
37) Benzo(b)fluoranthene	22.456	252	136261	3.478	ng	#	94
38) Benzo(k)fluoranthene	22.494	252	134789	3.439	ng	#	93
39) Benzo(a)pyrene	22.980	252	114719	3.328	ng	#	93
40) Dibenzo(a,h)anthracene	25.123	278	119216	3.240	ng		96
41) Benzo(g,h,i)perylene	25.722	276	123841	3.164	ng		97

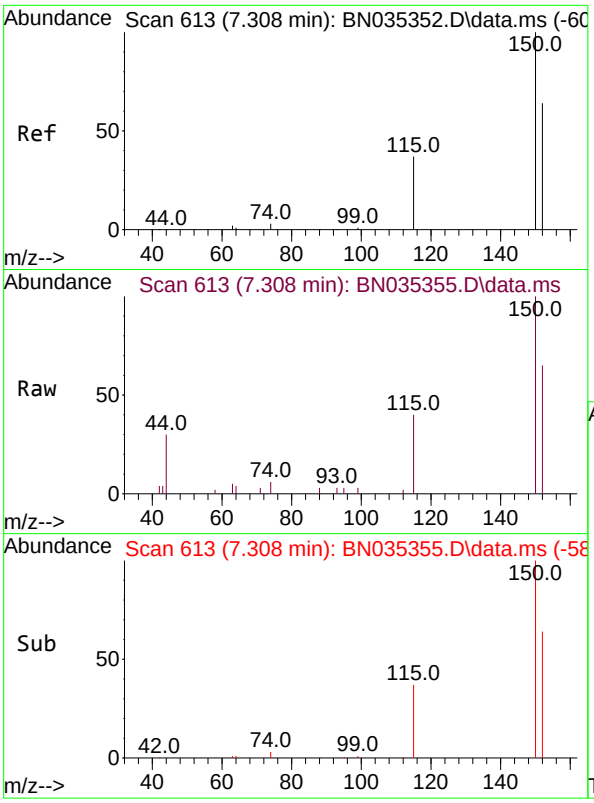
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



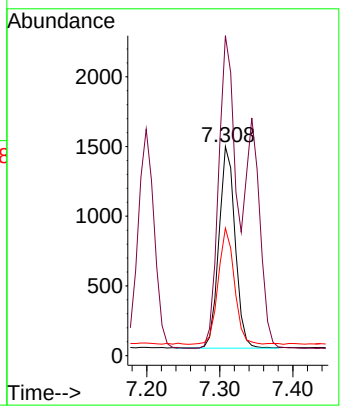


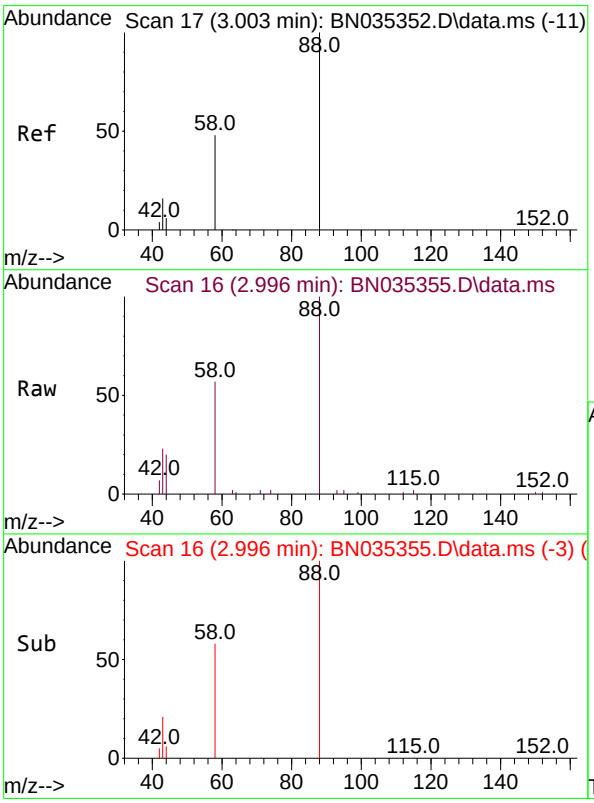
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2226

Ion	Ratio	Lower	Upper
152	100		
150	153.0	124.0	186.0
115	61.0	49.6	74.4

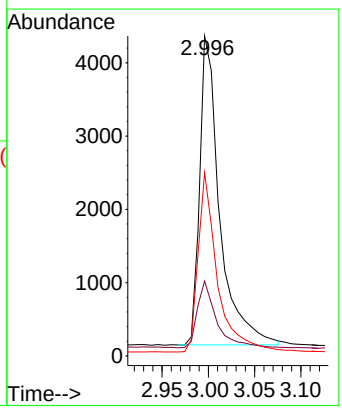


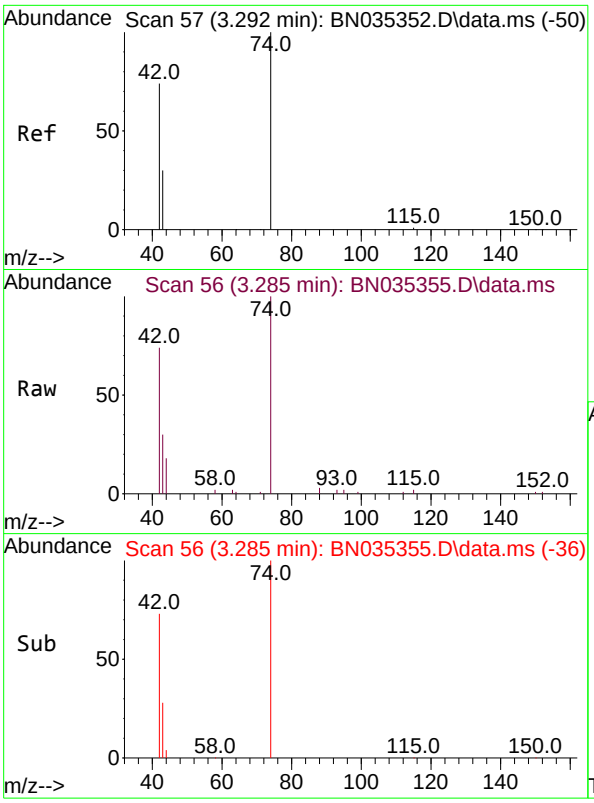


#2
1,4-Dioxane
Concen: 3.146 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 88 Resp: 6360

Ion	Ratio	Lower	Upper
88	100		
43	20.6	17.2	25.8
58	55.4	44.5	66.7



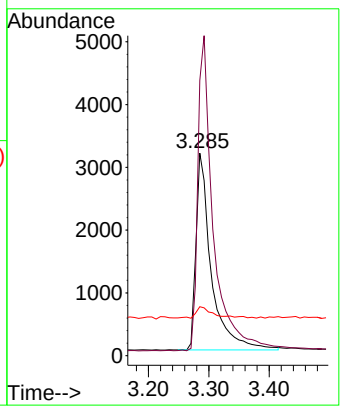


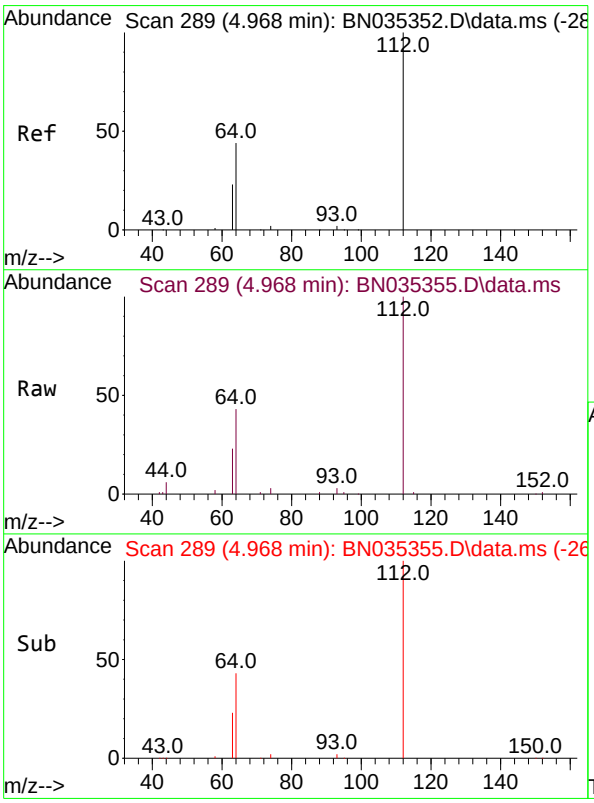
#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 5524

Ion	Ratio	Lower	Upper
42	100		
74	162.0	124.9	187.3
44	6.4	2.2	3.4#

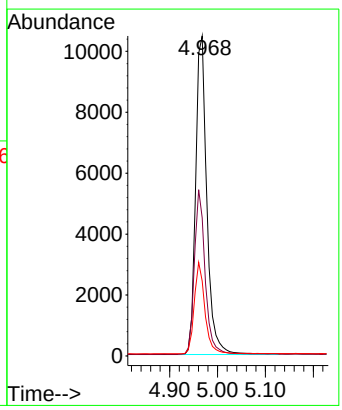


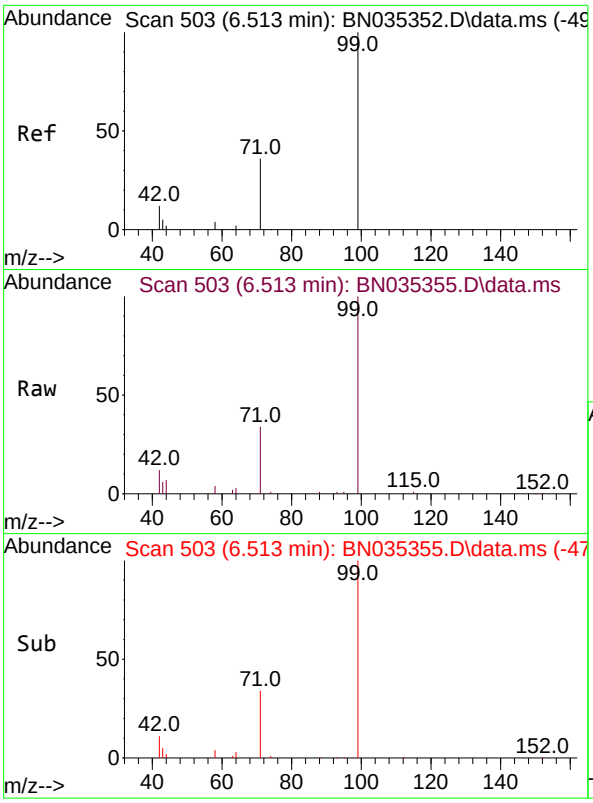


#4
2-Fluorophenol
Concen: 3.007 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:112 Resp: 16991

Ion	Ratio	Lower	Upper
112	100		
64	49.7	39.8	59.8
63	27.1	21.0	31.6



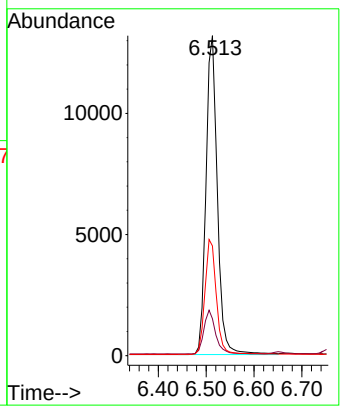


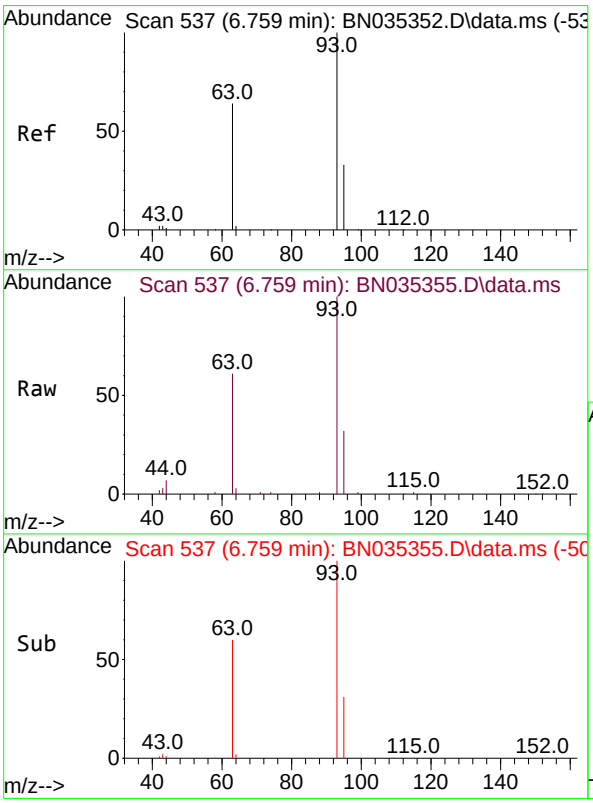
#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 21633

Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	36.5	29.3	43.9

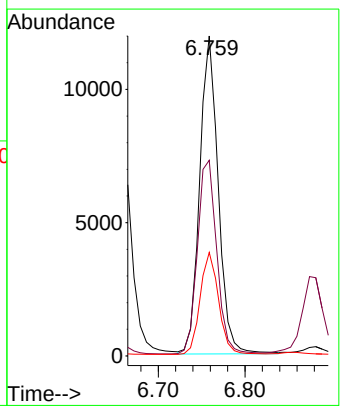


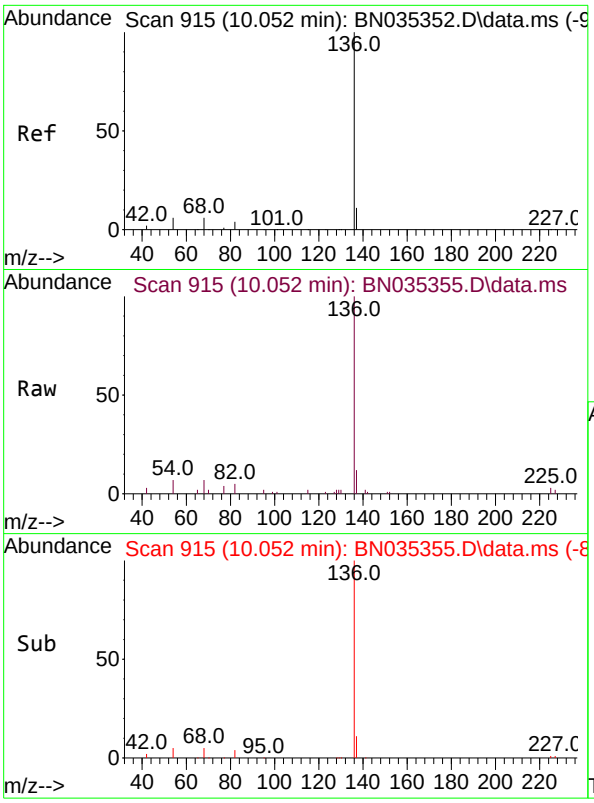


#6
bis(2-Chloroethyl)ether
Concen: 3.339 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 93 Resp: 17762

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	32.0	25.7	38.5



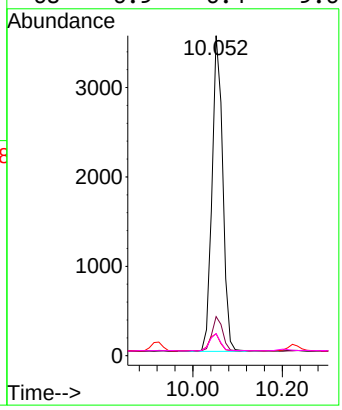


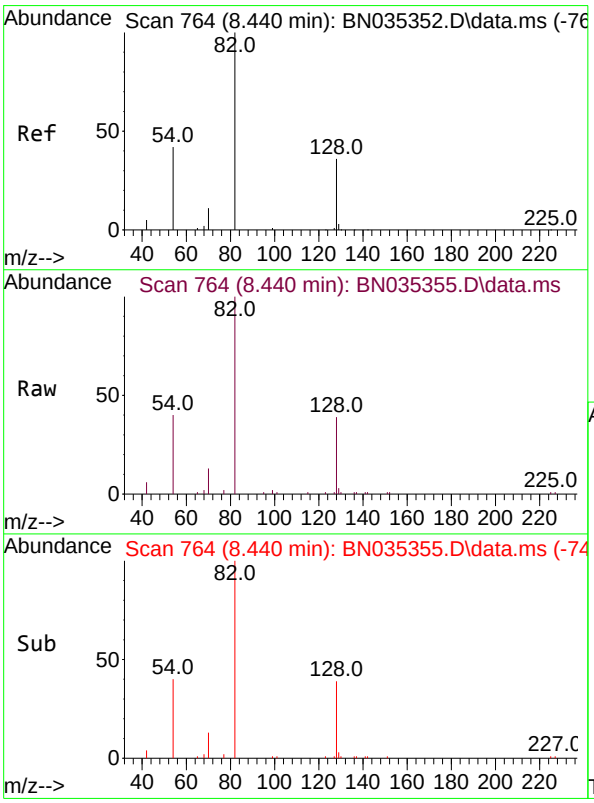
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 5857

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	6.9	6.4	9.6

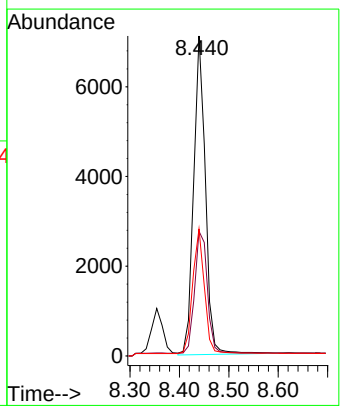


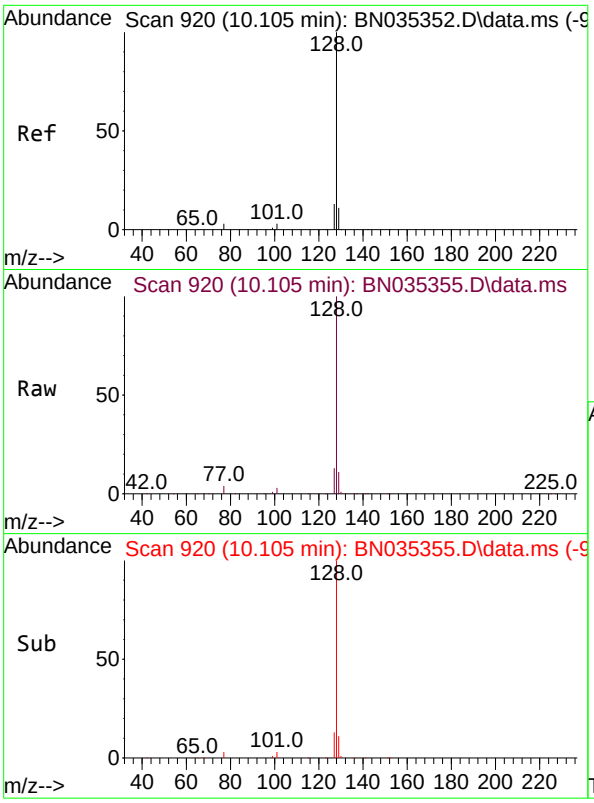


#8
Nitrobenzene-d5
Concen: 2.307 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 82 Resp: 11759

Ion	Ratio	Lower	Upper
82	100		
128	39.0	33.4	50.0
54	39.7	36.7	55.1



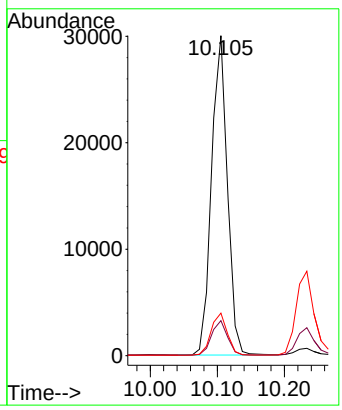


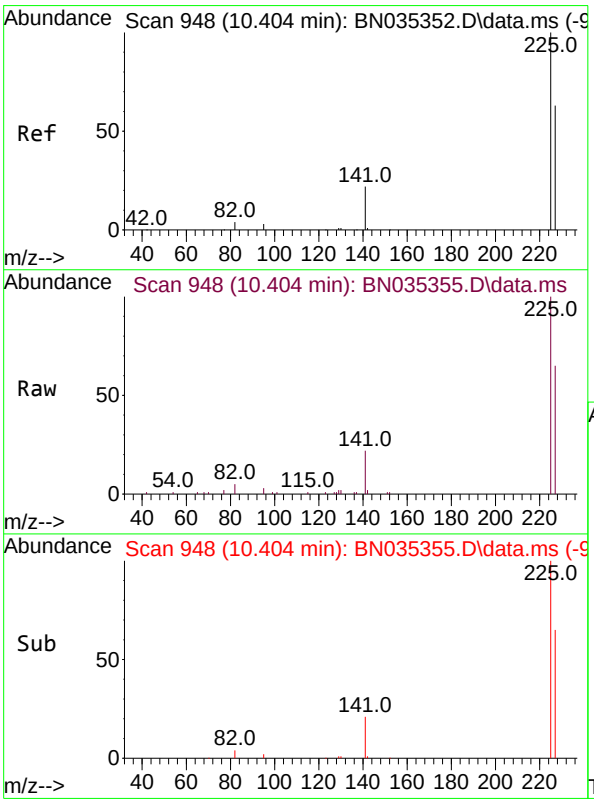
#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 49151

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.8	14.6
127	13.3	11.4	17.2

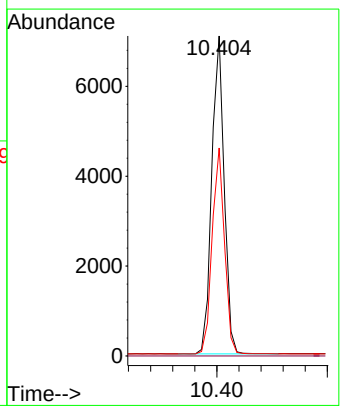


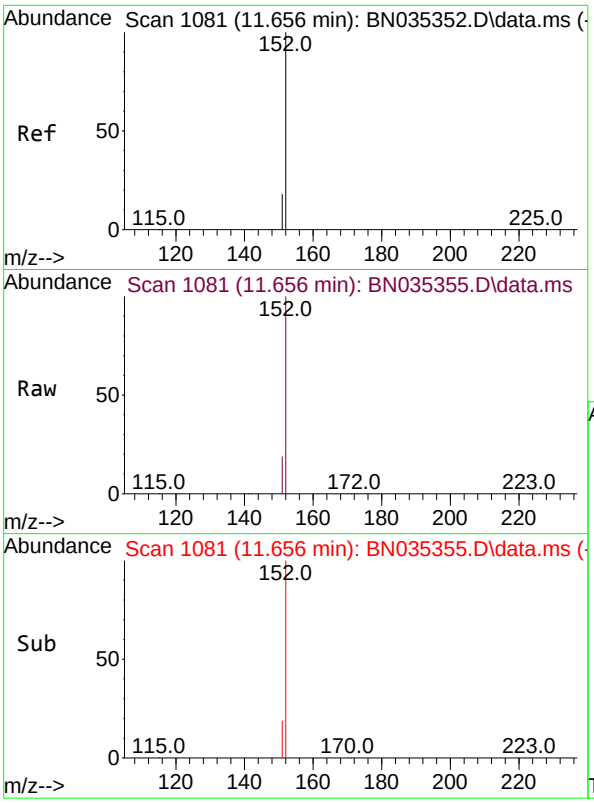


#10
Hexachlorobutadiene
Concen: 2.463 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:225 Resp: 11039

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.3	76.9



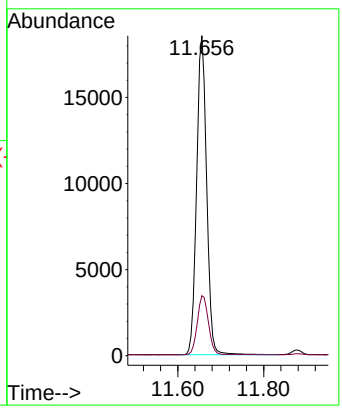


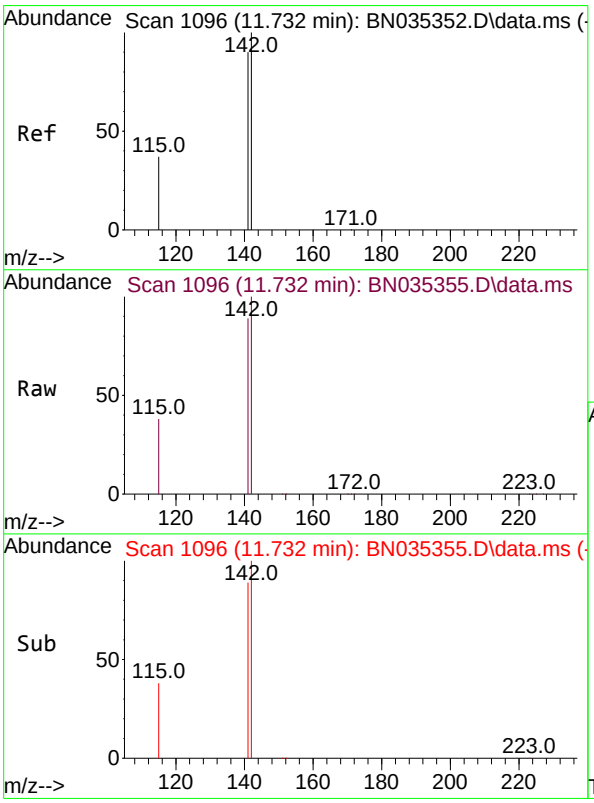
#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 29957

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

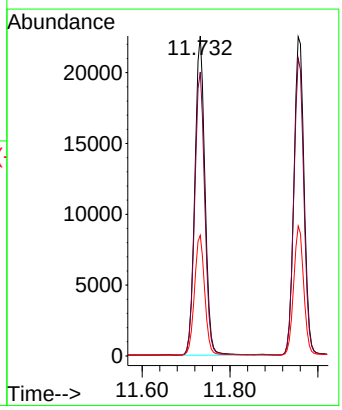


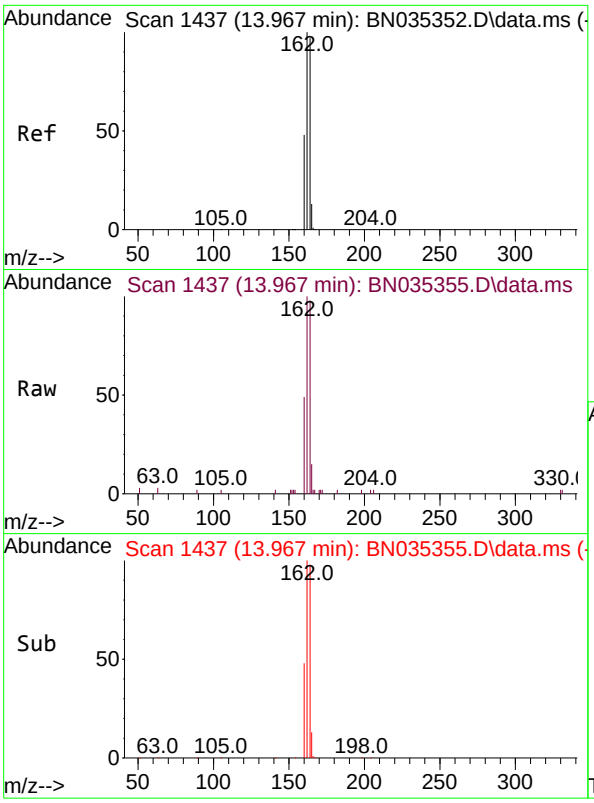


#12
2-Methylnaphthalene
Concen: 3.202 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:142 Resp: 36121

Ion	Ratio	Lower	Upper
142	100		
141	88.7	72.2	108.4
115	37.7	31.4	47.0



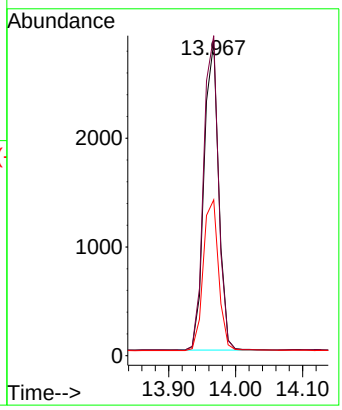


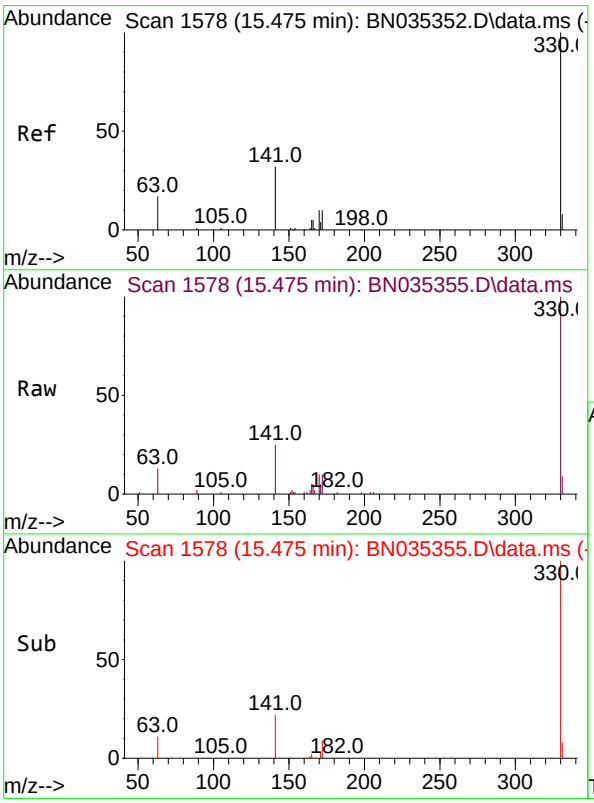
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 4307

Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.2	123.2
160	49.7	40.1	60.1

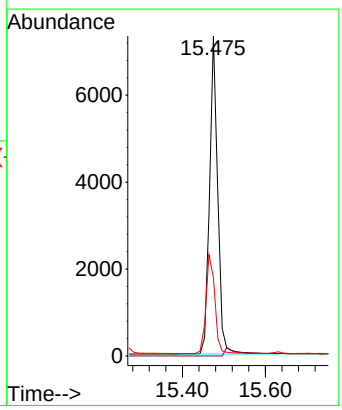


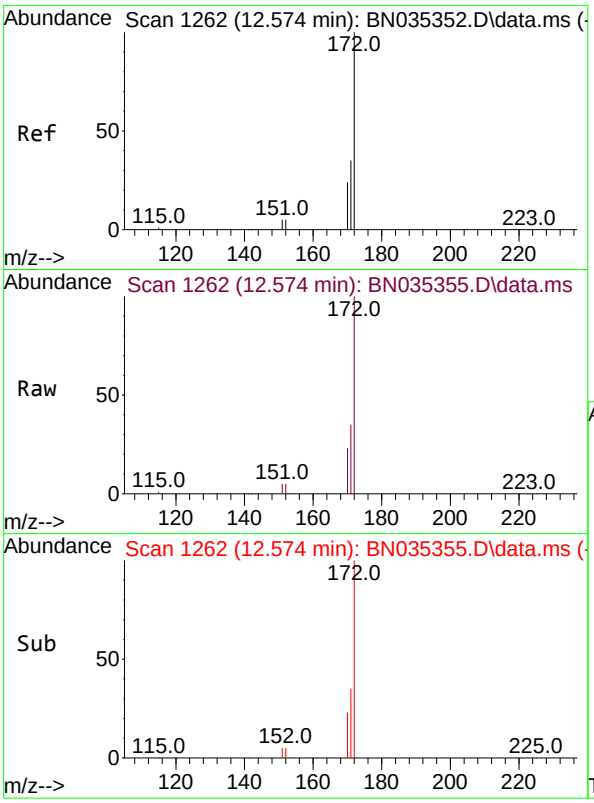


#14
2,4,6-Tribromophenol
Concen: 3.444 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:330 Resp: 10700

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.7	26.6	40.0



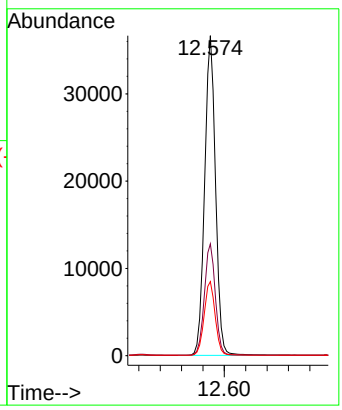


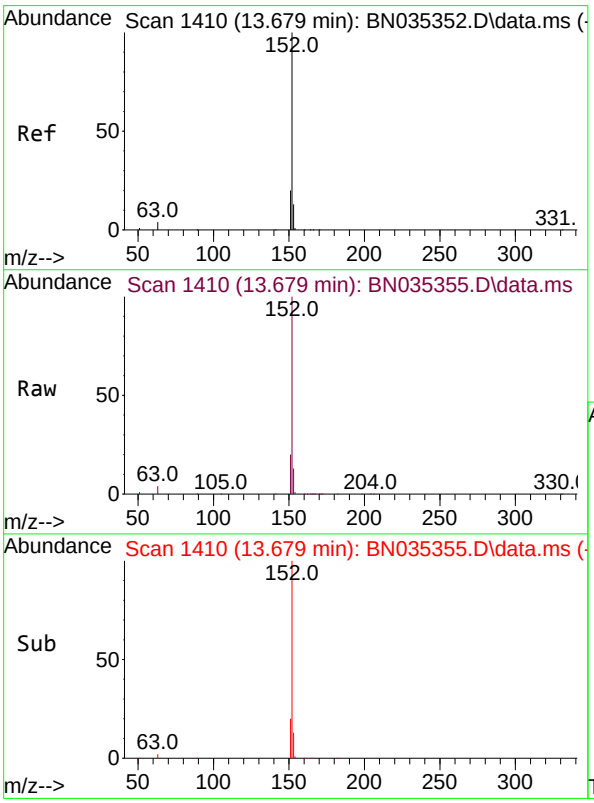
#15
2-Fluorobiphenyl
Concen: 2.976 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 52048

Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.4
170	23.1	19.8	29.8

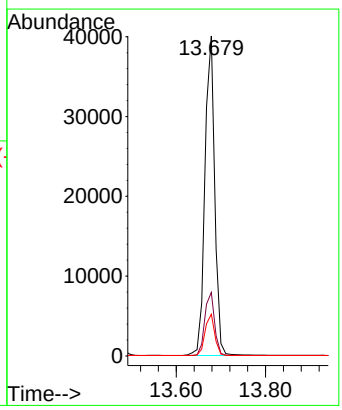


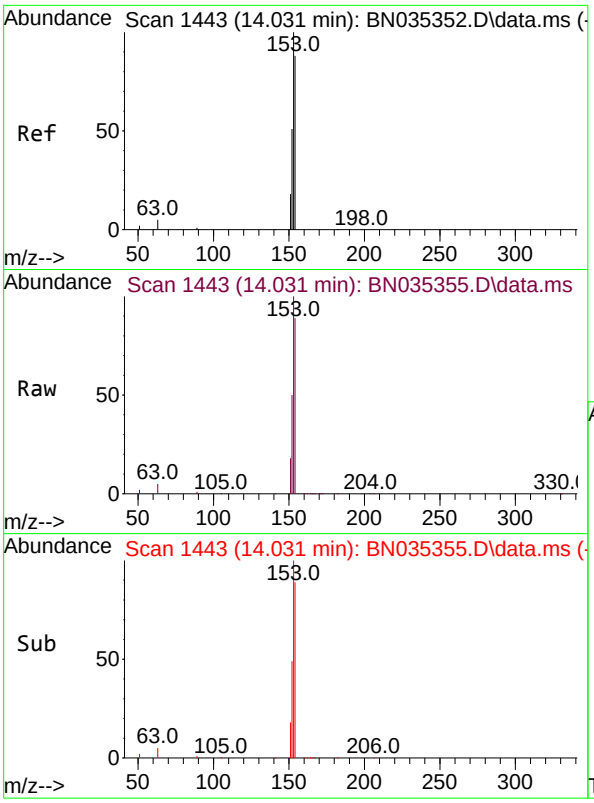


#16
Acenaphthylene
Concen: 3.300 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:152 Resp: 60734

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6



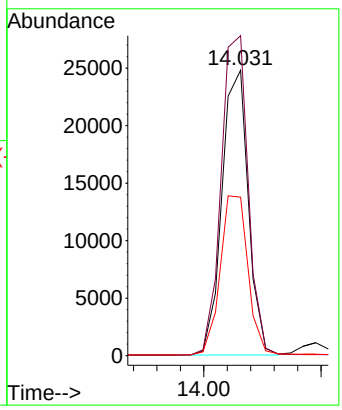


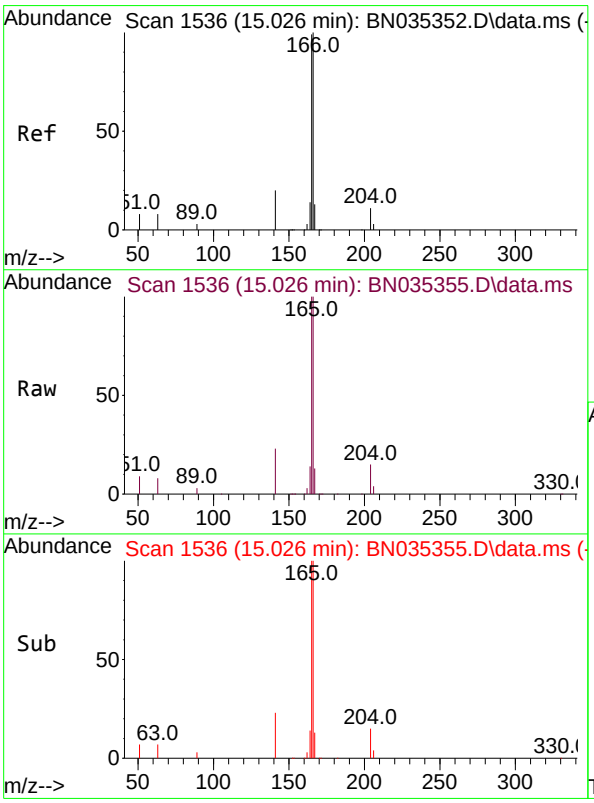
#17
Acenaphthene
Concen: 3.206 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 38676

Ion	Ratio	Lower	Upper
154	100		
153	115.5	92.6	139.0
152	59.2	49.0	73.6

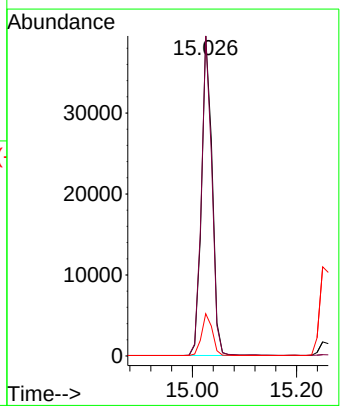


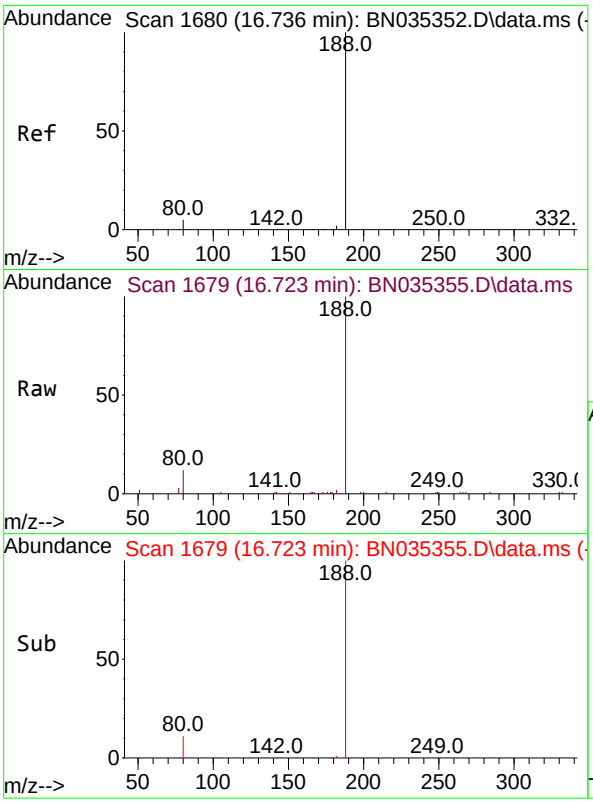


#18
Fluorene
Concen: 3.134 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:166 Resp: 55613

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.3	10.8	16.2



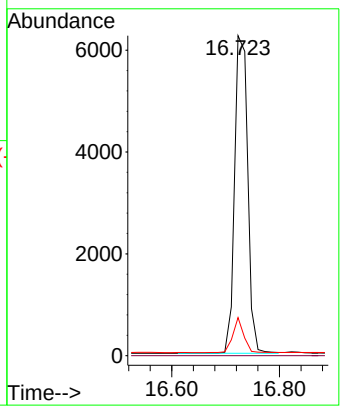


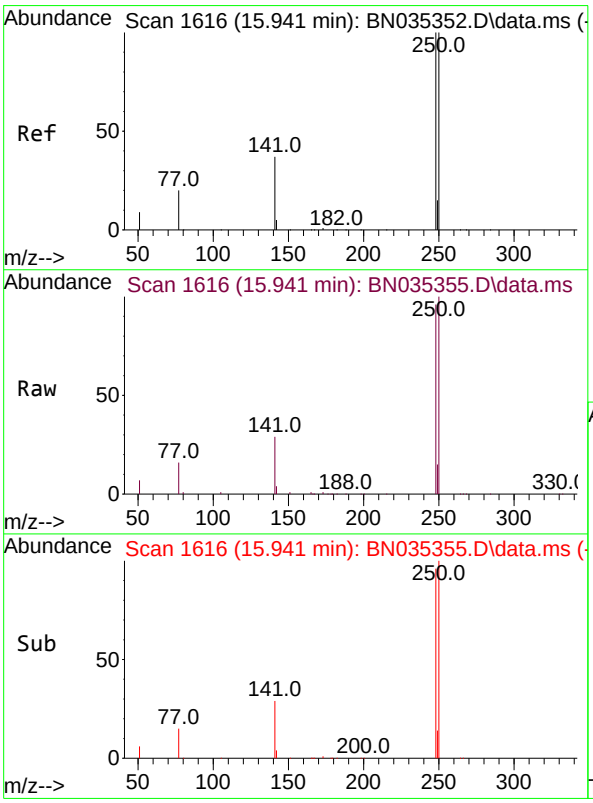
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 10513

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	4.6	6.8#

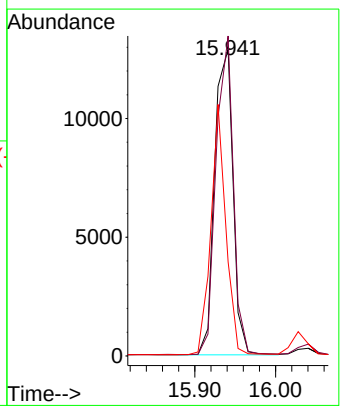


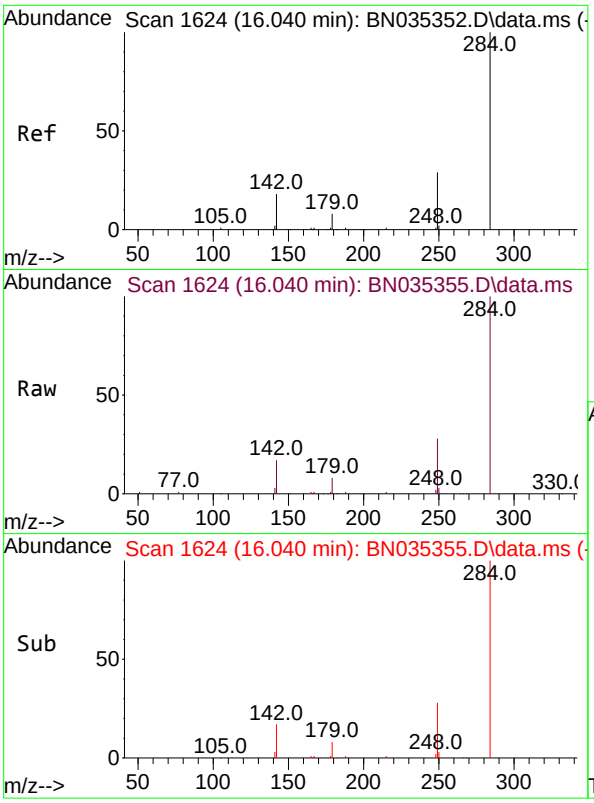


#21
4-Bromophenyl-phenylether
Concen: 3.034 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:248 Resp: 20321

Ion	Ratio	Lower	Upper
248	100		
250	104.3	80.6	120.8
141	30.7	31.5	47.3#



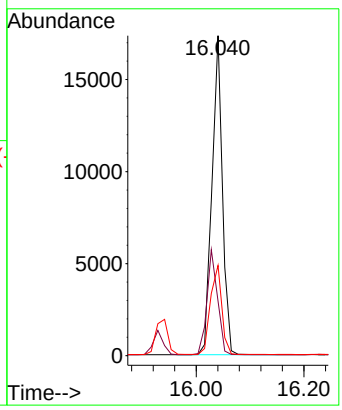


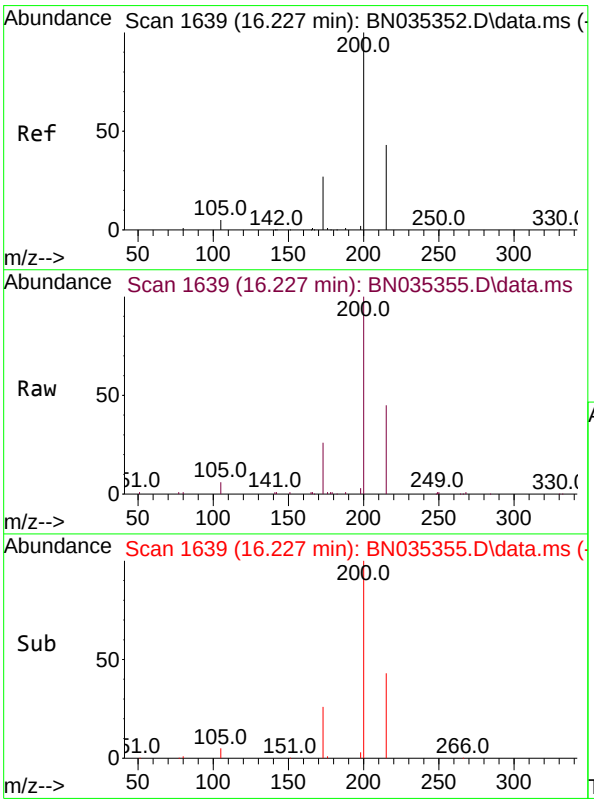
#22
Hexachlorobenzene
Concen: 3.359 ng
RT: 16.040 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:284 Resp: 23349

Ion	Ratio	Lower	Upper
284	100		
142	33.3	26.7	40.1
249	30.2	24.6	36.8

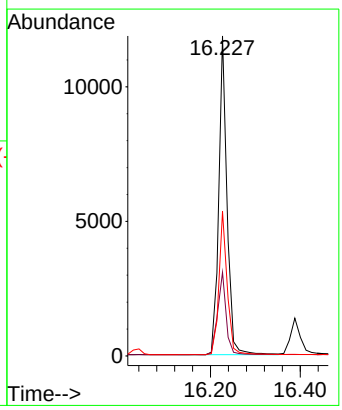


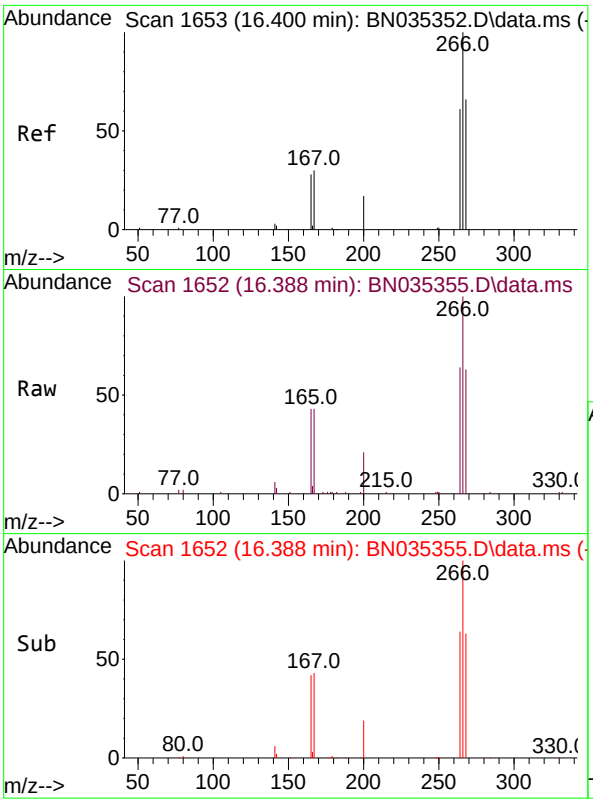


#23
Atrazine
Concen: 2.508 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:200 Resp: 15072

Ion	Ratio	Lower	Upper
200	100		
173	26.2	24.1	36.1
215	45.1	36.9	55.3



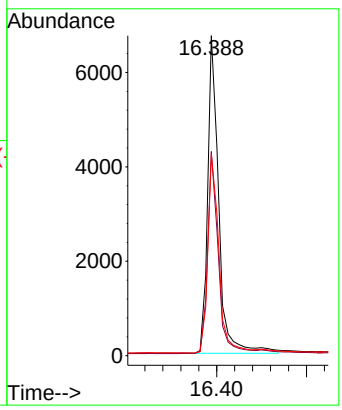


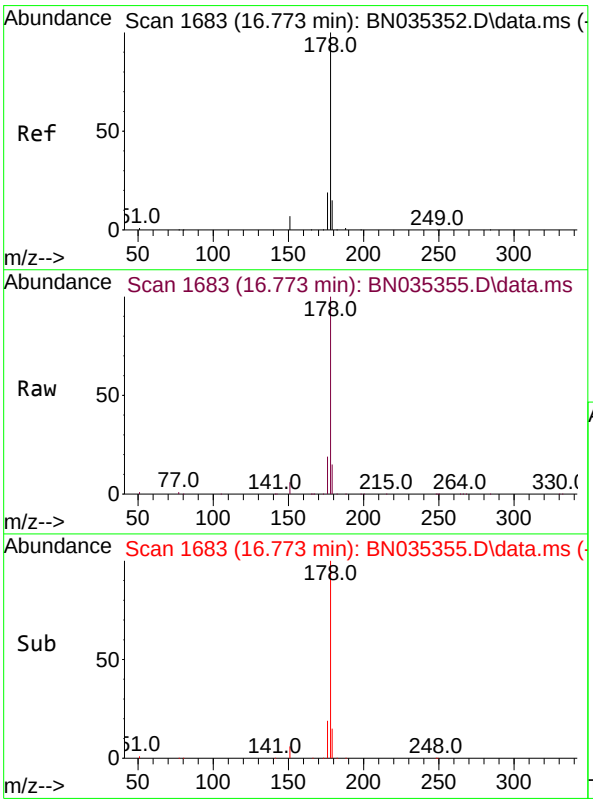
#24
Pentachlorophenol
Concen: 3.522 ng
RT: 16.388 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:266 Resp: 11439

Ion	Ratio	Lower	Upper
266	100		
264	62.6	42.3	63.5
268	64.4	43.3	64.9

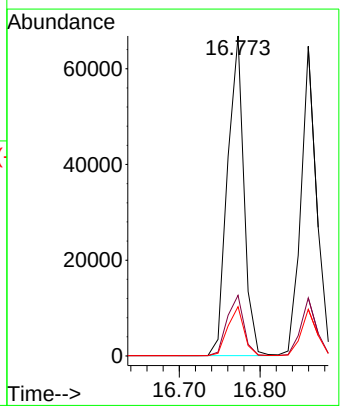


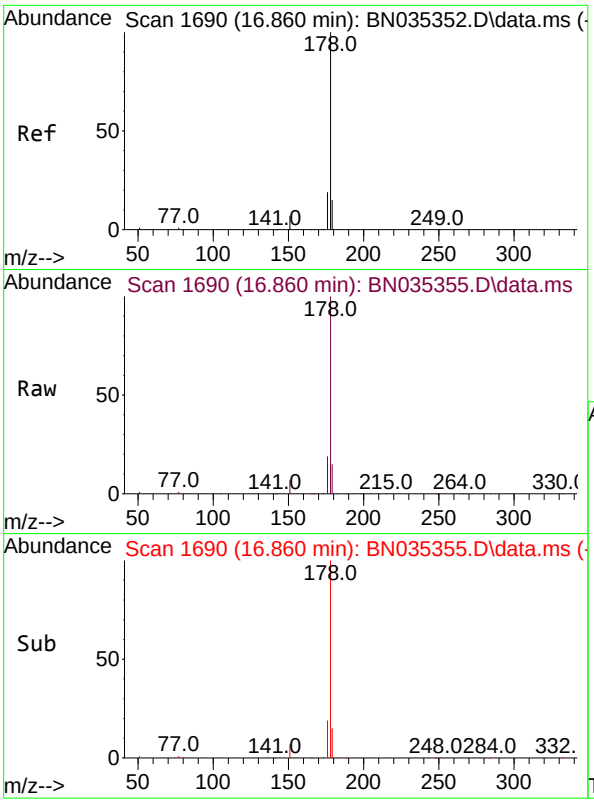


#25
Phenanthrene
Concen: 3.406 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:178 Resp: 94243

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.3	18.5



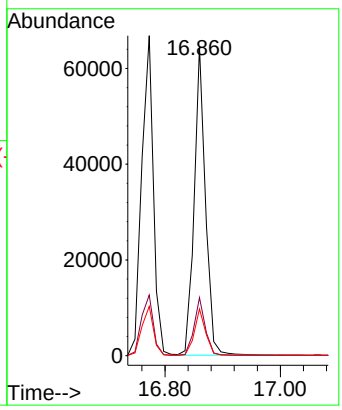


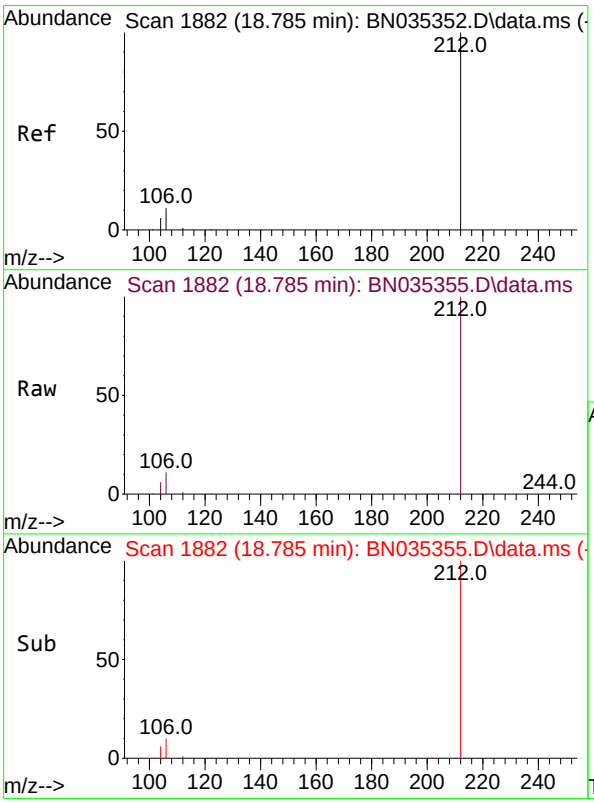
#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 87657

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.1	12.6	18.8

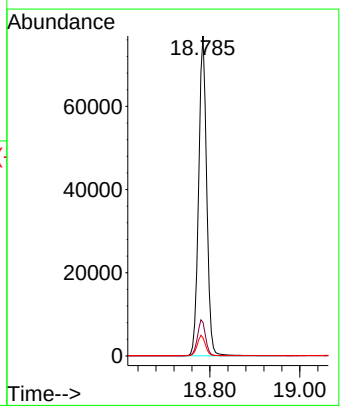


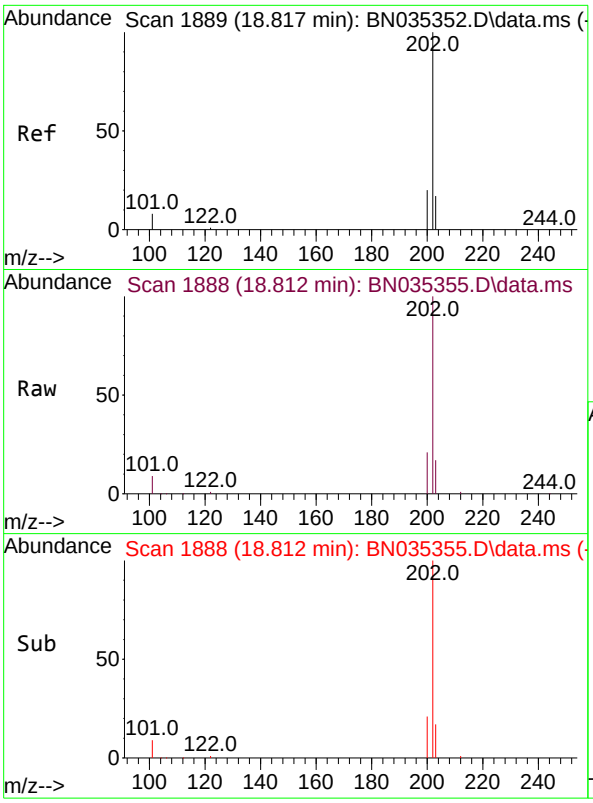


#27
Fluoranthene-d10
Concen: 2.971 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:212 Resp: 95675

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9



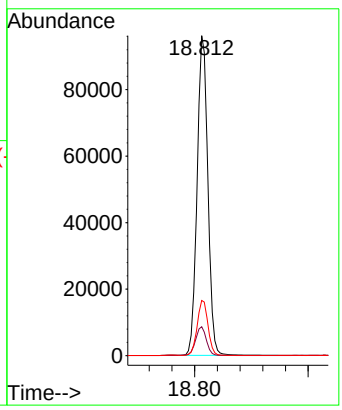


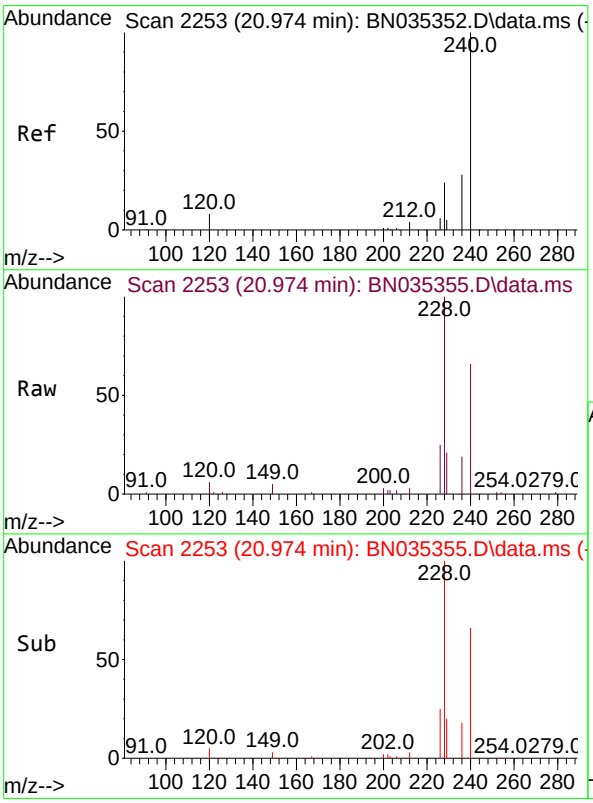
#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:202 Resp: 125901

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.3	13.7	20.5

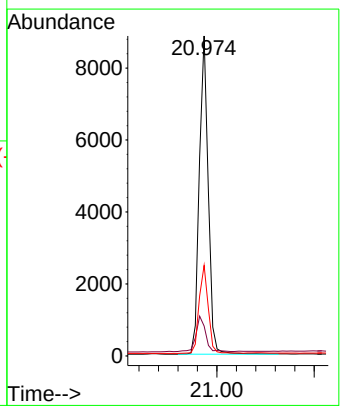


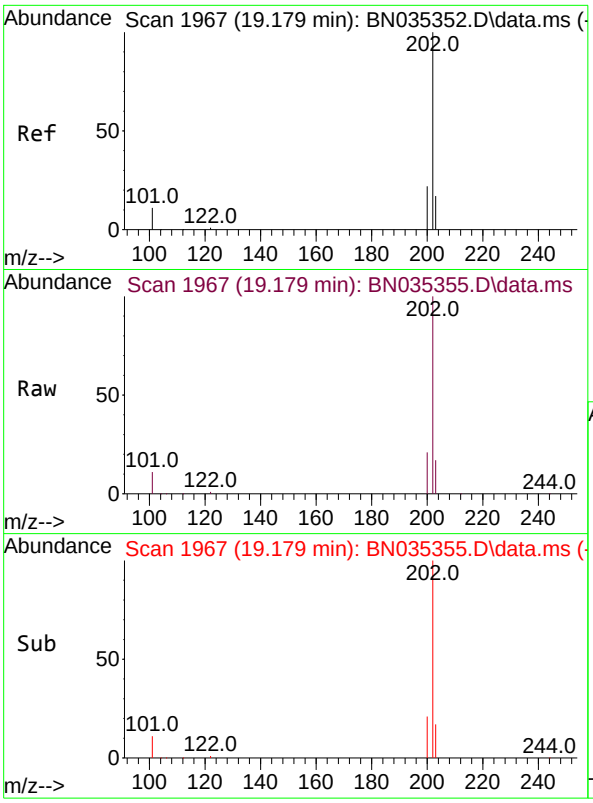


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:240 Resp: 11206

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.9	11.9
236	28.3	22.9	34.3



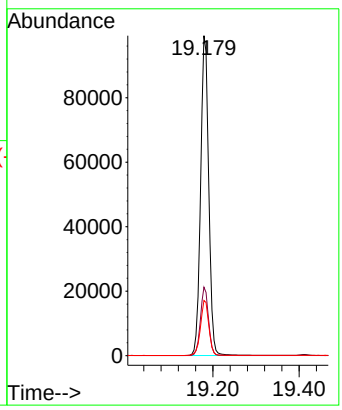


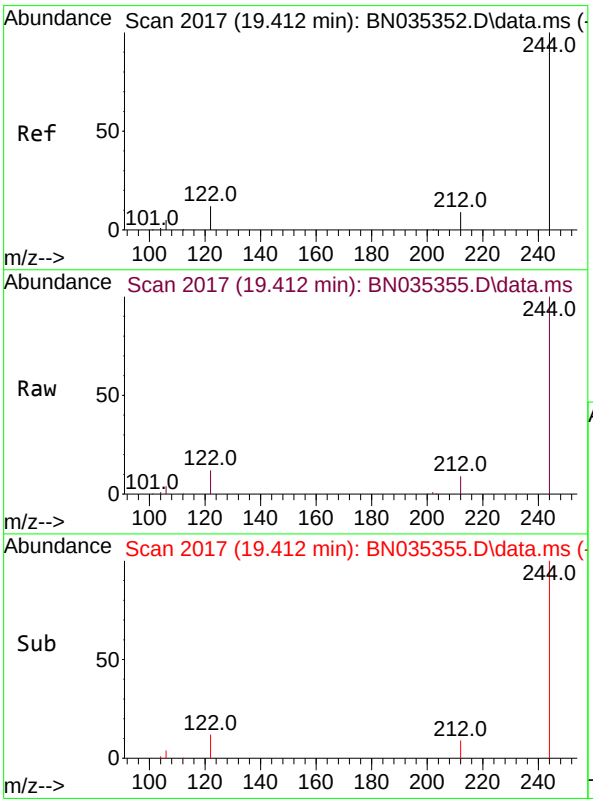
#30
Pyrene
Concen: 3.460 ng
RT: 19.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:202 Resp: 129105

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5

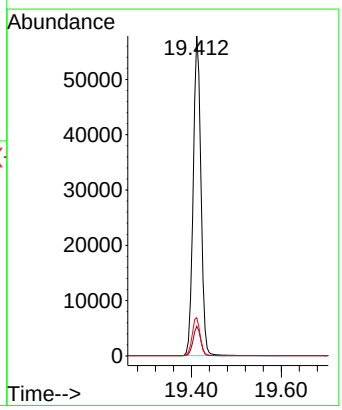


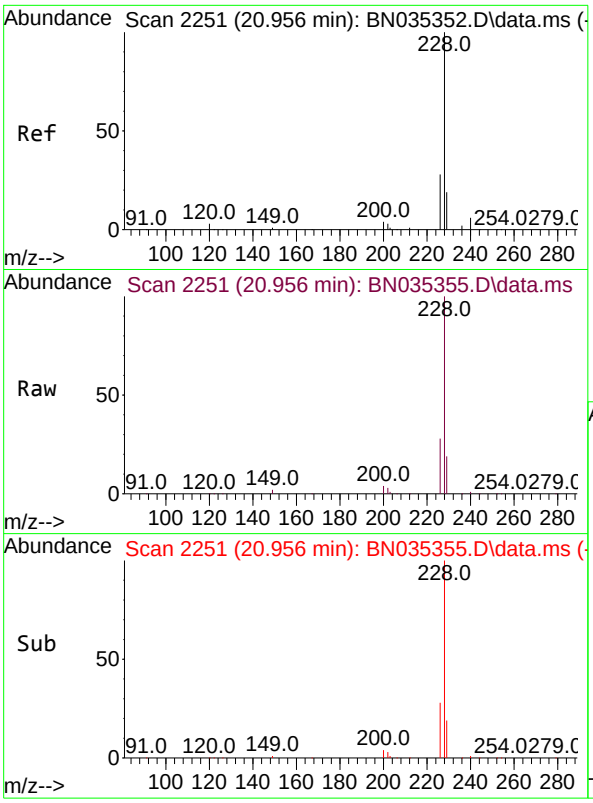


#31
Terphenyl-d14
Concen: 2.941 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:244 Resp: 69164

Ion	Ratio	Lower	Upper
244	100		
212	9.2	8.1	12.1
122	12.0	10.3	15.5



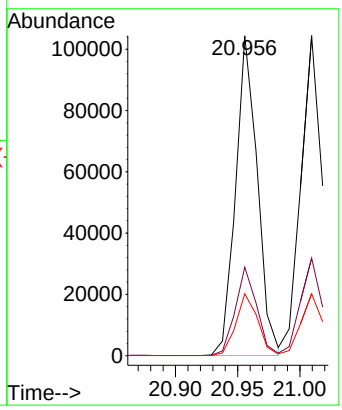


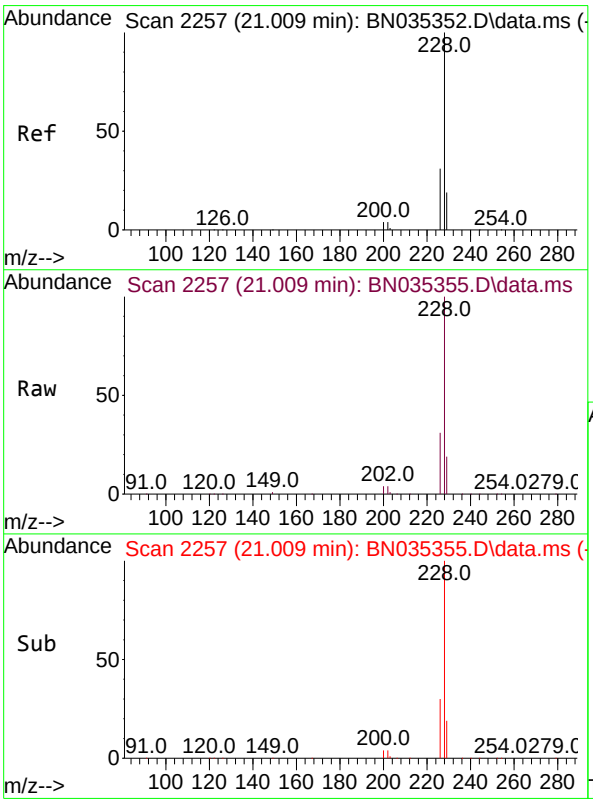
#32
Benzo(a)anthracene
Concen: 3.242 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 126517

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	19.4	15.8	23.8

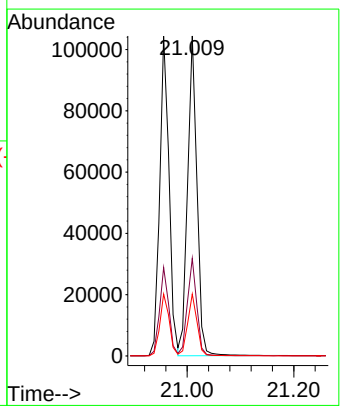


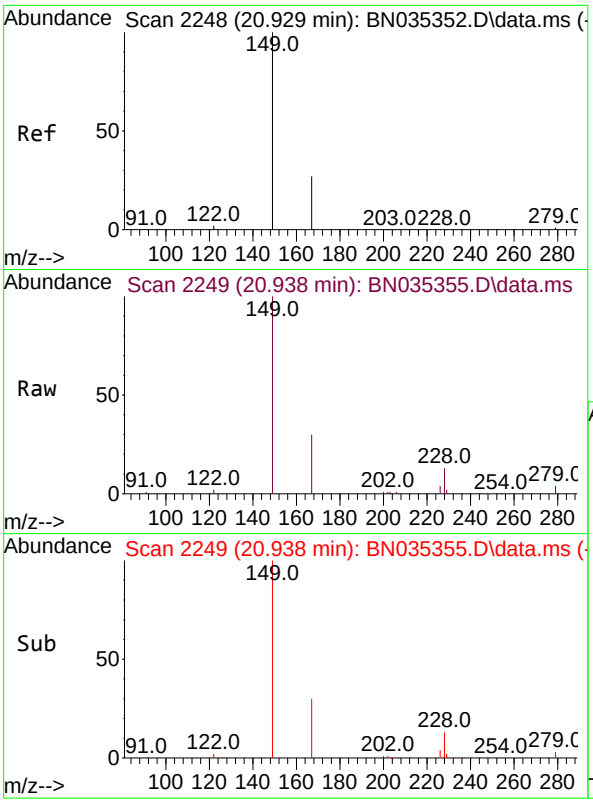


#33
Chrysene
Concen: 3.297 ng
RT: 21.009 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:228 Resp: 127439

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	19.4	15.9	23.9



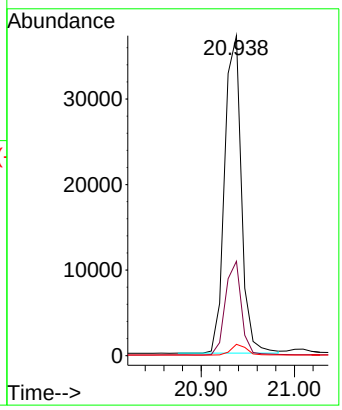


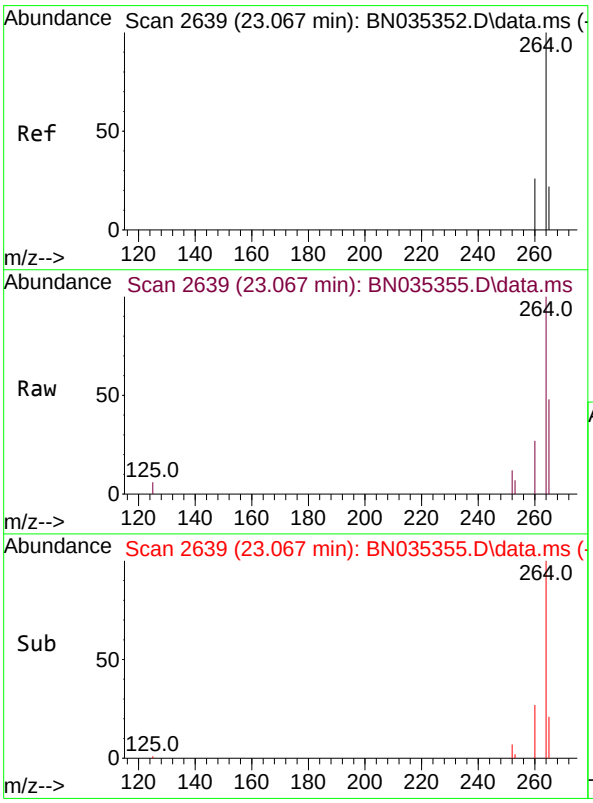
#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:149 Resp: 46251

Ion	Ratio	Lower	Upper
149	100		
167	28.3	22.2	33.4
279	3.2	2.7	4.1

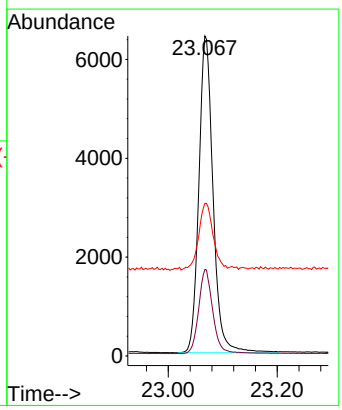


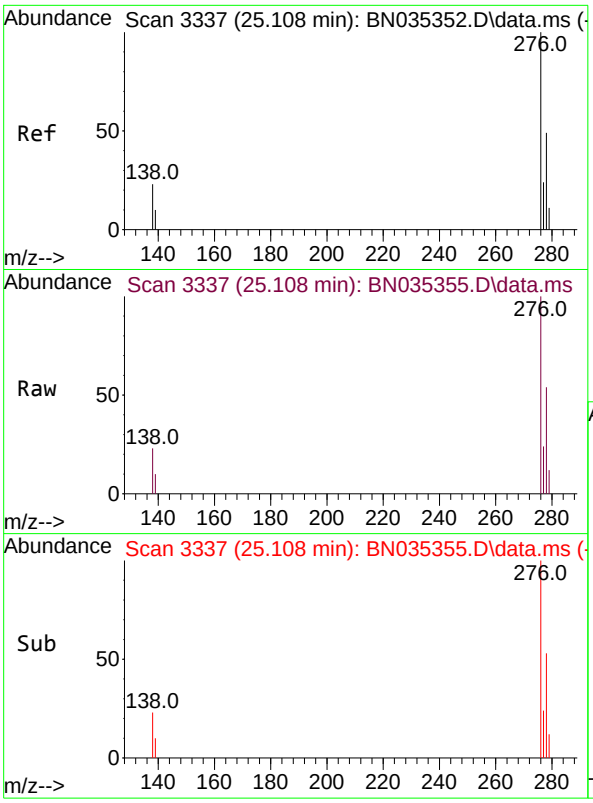


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:264 Resp: 11643

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	47.7	40.2	60.4



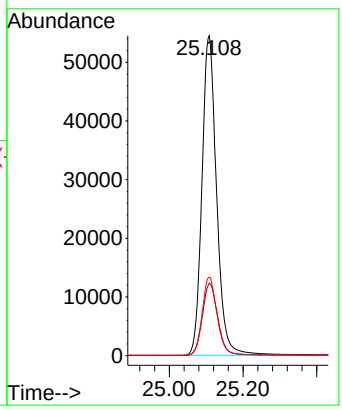


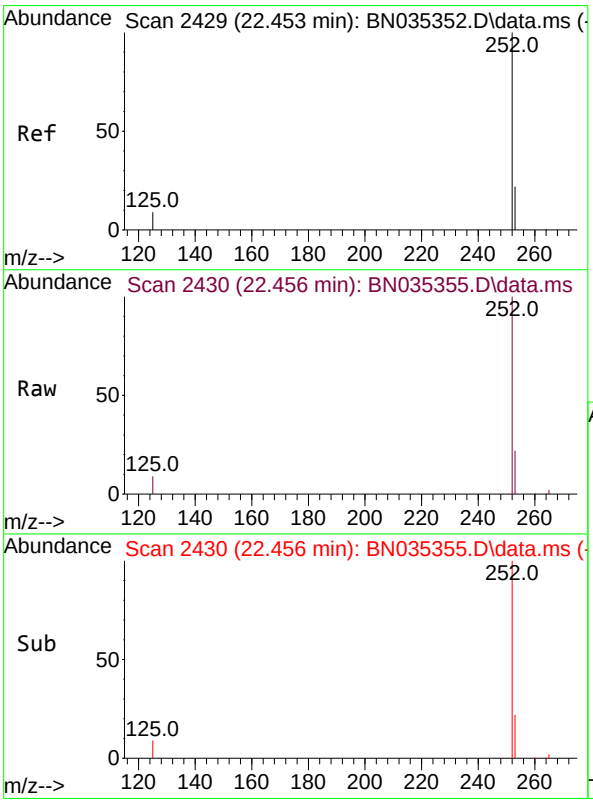
#36
Indeno(1,2,3-cd)pyrene
Concen: 3.239 ng
RT: 25.108 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 150433

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.9	19.8	29.6

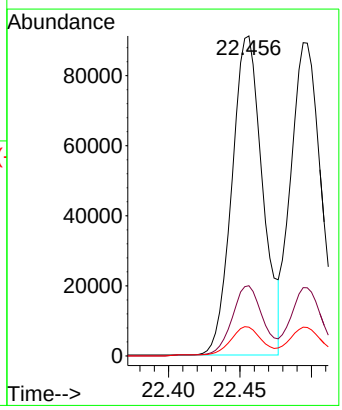


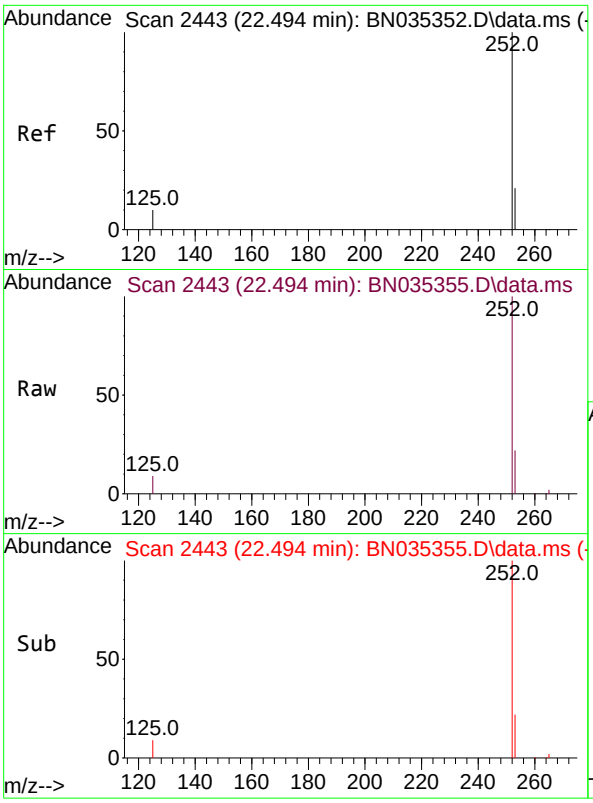


#37
Benzo(b)fluoranthene
Concen: 3.478 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 136261

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.0	9.6	14.4#



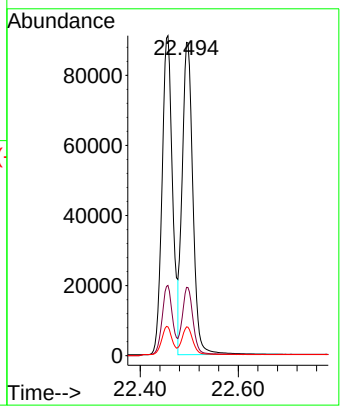


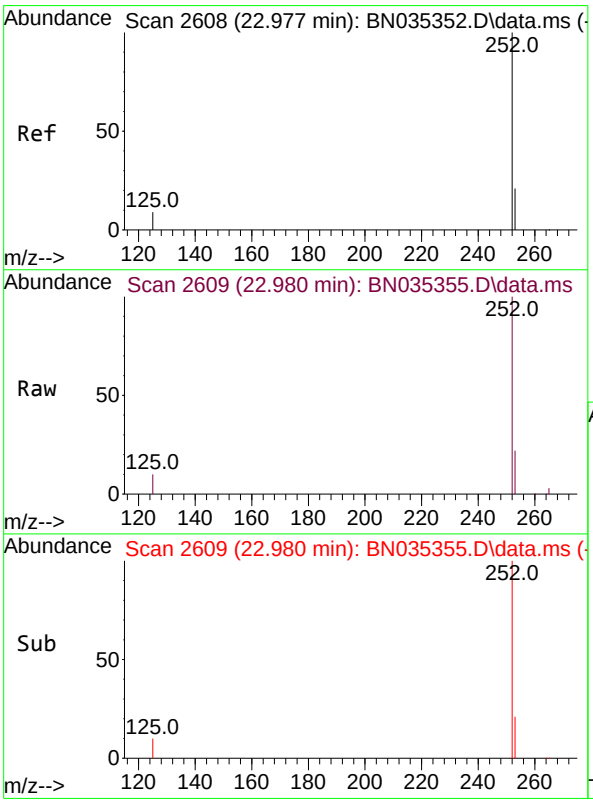
#38
Benzo(k)fluoranthene
Concen: 3.439 ng
RT: 22.494 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 134789

Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.5	29.3
125	9.2	10.2	15.4#

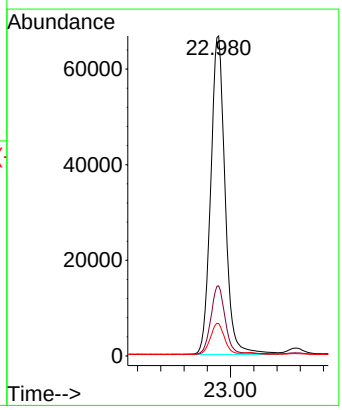


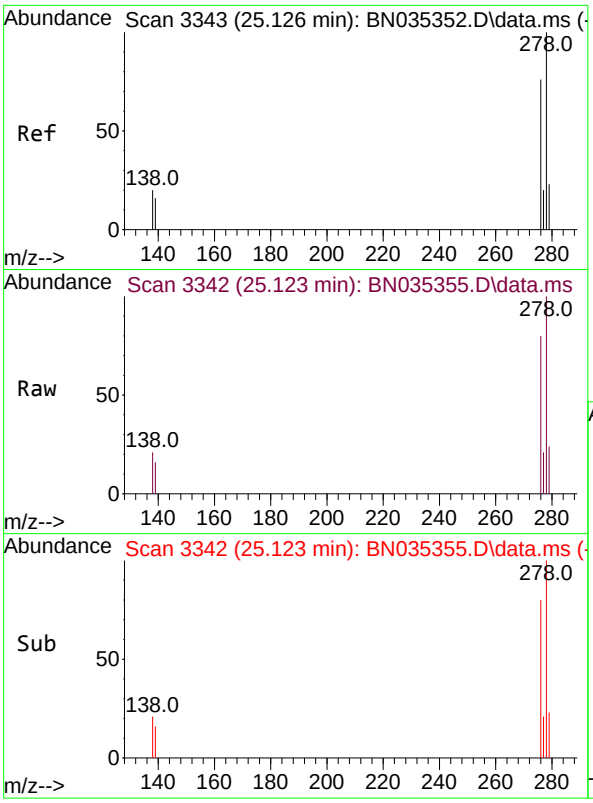


#39
Benzo(a)pyrene
Concen: 3.328 ng
RT: 22.980 min Scan# 2609
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 114719

Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.2	30.4
125	10.1	10.9	16.3#



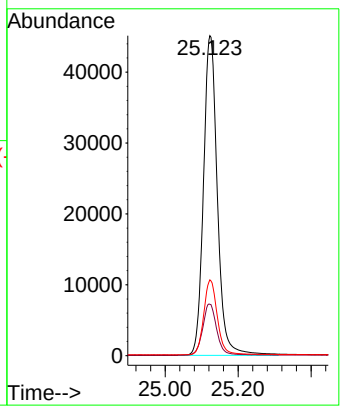


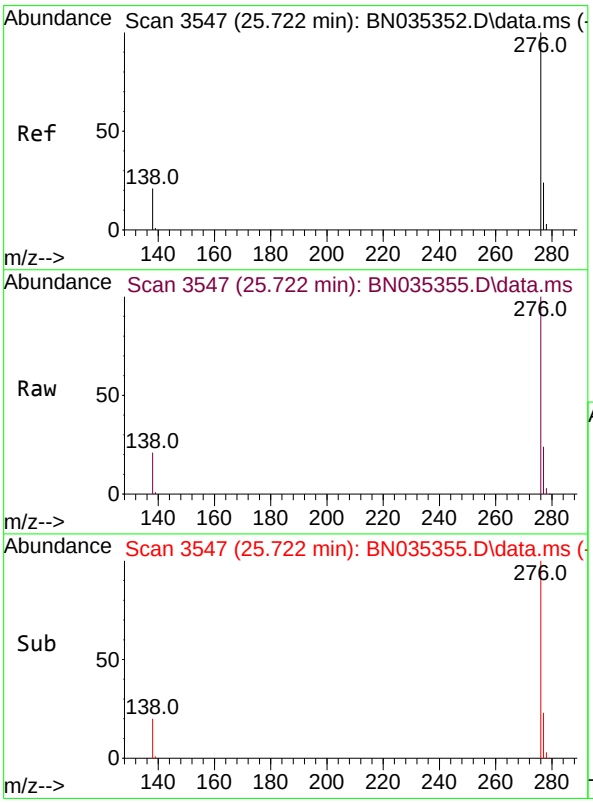
#40
Dibenzo(a,h)anthracene
Concen: 3.240 ng
RT: 25.123 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:278 Resp: 119216

Ion	Ratio	Lower	Upper
278	100		
139	16.1	14.2	21.4
279	23.7	20.5	30.7

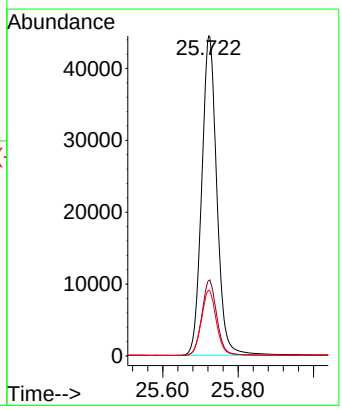




#41
Benzo(g,h,i)perylene
Concen: 3.164 ng
RT: 25.722 min Scan# 3547
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:276 Resp: 123841

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.9	29.9
138	20.6	17.8	26.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

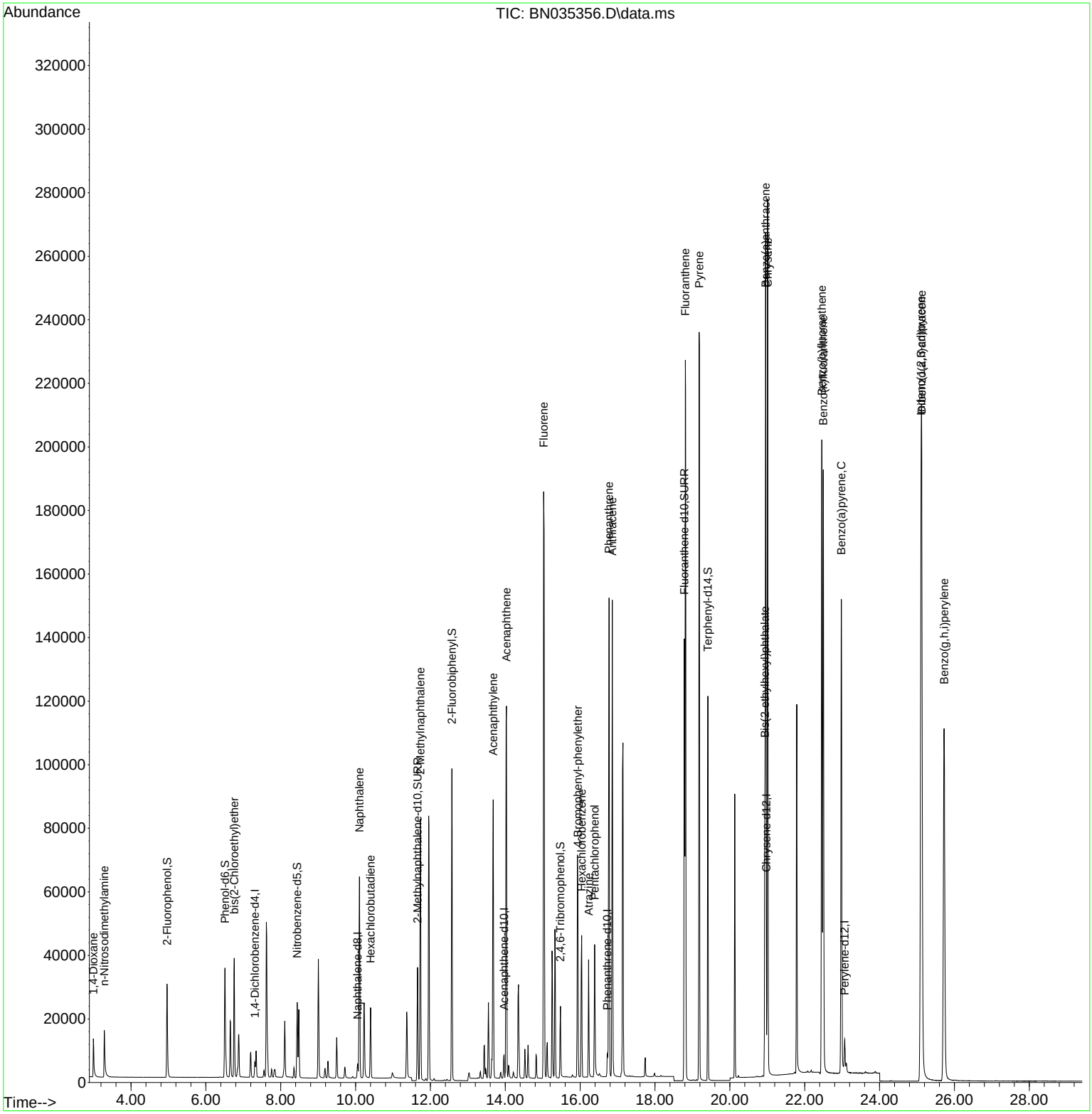
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2249	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5807	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4363	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	10479	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	11520	0.400	ng		0.00
35) Perylene-d12	23.067	264	12000	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	26472	4.637	ng		0.00
5) Phenol-d6	6.513	99	34560	4.828	ng		0.00
8) Nitrobenzene-d5	8.440	82	18911	3.741	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	47612	4.601	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	17905	5.689	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	82401	4.650	ng		0.00
27) Fluoranthene-d10	18.785	212	152416	4.748	ng		0.00
31) Terphenyl-d14	19.412	244	110737	4.581	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	9786	4.790	ng		99
3) n-Nitrosodimethylamine	3.285	42	8681	4.560	ng	#	96
6) bis(2-Chloroethyl)ether	6.759	93	27872	5.187	ng		99
9) Naphthalene	10.105	128	77668	5.123	ng		97
10) Hexachlorobutadiene	10.404	225	17273	3.887	ng	#	100
12) 2-Methylnaphthalene	11.732	142	57698	5.158	ng		98
16) Acenaphthylene	13.679	152	97129	5.209	ng		99
17) Acenaphthene	14.031	154	62170	5.088	ng		98
18) Fluorene	15.026	166	88648	4.932	ng		99
21) 4-Bromophenyl-phenylether	15.941	248	31947	4.785	ng	#	94
22) Hexachlorobenzene	16.040	284	36315	5.241	ng		100
23) Atrazine	16.227	200	25034	4.179	ng		96
24) Pentachlorophenol	16.388	266	19691	6.083	ng		86
25) Phenanthrene	16.773	178	147357	5.343	ng		100
26) Anthracene	16.860	178	139399	5.503	ng		99
28) Fluoranthene	18.812	202	199850	5.270	ng		99
30) Pyrene	19.179	202	206018	5.370	ng		100
32) Benzo(a)anthracene	20.956	228	205712	5.128	ng		99
33) Chrysene	21.009	228	204475	5.146	ng		99
34) Bis(2-ethylhexyl)phtha...	20.938	149	78322	3.721	ng		99
36) Indeno(1,2,3-cd)pyrene	25.108	276	252709	5.279	ng		99
37) Benzo(b)fluoranthene	22.456	252	241201	5.974	ng	#	94
38) Benzo(k)fluoranthene	22.497	252	220146	5.449	ng	#	93
39) Benzo(a)pyrene	22.977	252	190665	5.367	ng	#	92
40) Dibenzo(a,h)anthracene	25.126	278	199852	5.269	ng		96
41) Benzo(g,h,i)perylene	25.725	276	209119	5.183	ng		97

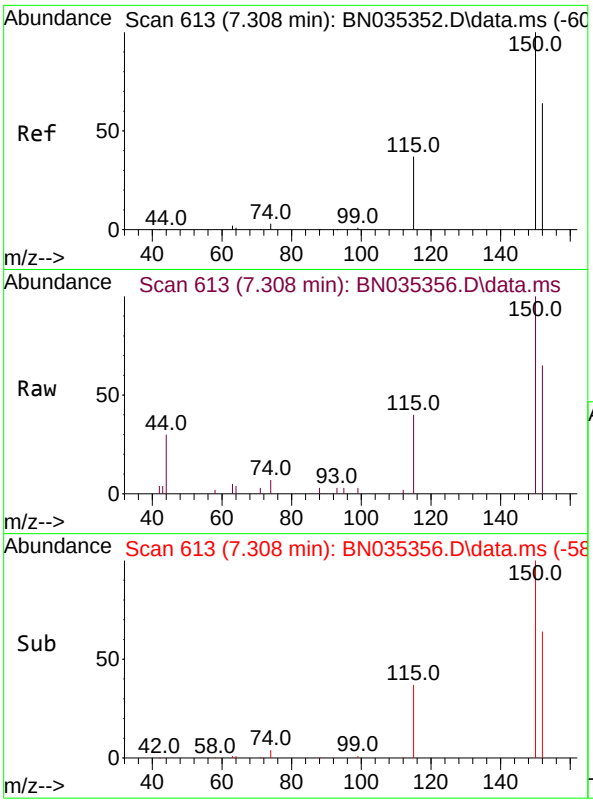
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



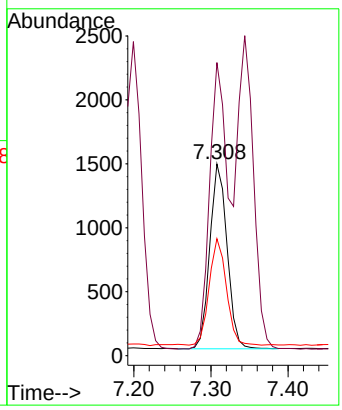


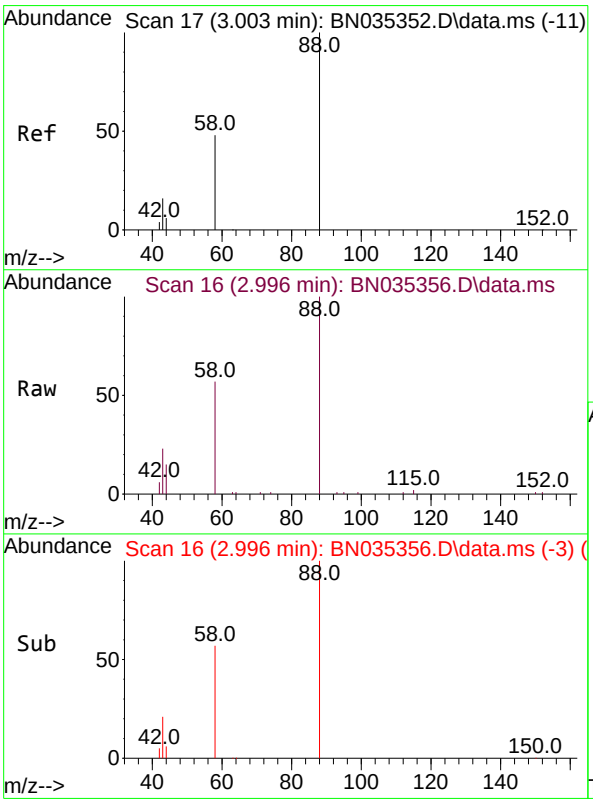
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 2249

Ion	Ratio	Lower	Upper
152	100		
150	152.9	124.0	186.0
115	61.0	49.6	74.4

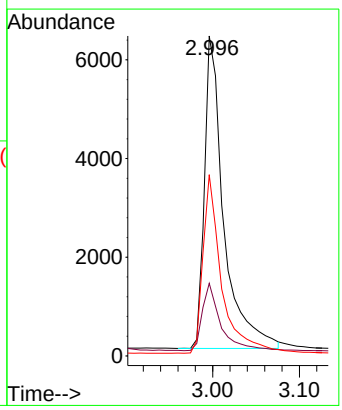


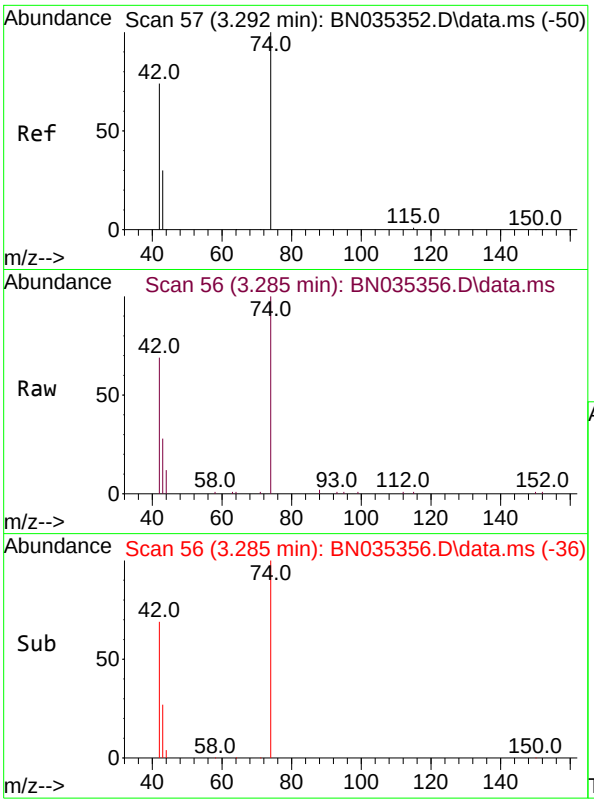


#2
1,4-Dioxane
Concen: 4.790 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 88 Resp: 9786

Ion	Ratio	Lower	Upper
88	100		
43	20.5	17.2	25.8
58	54.8	44.5	66.7



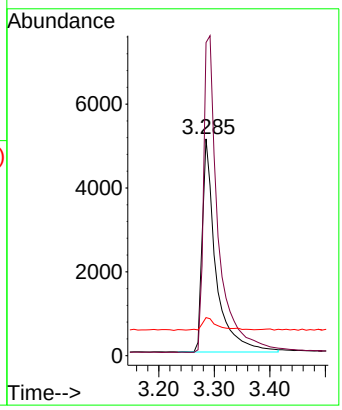


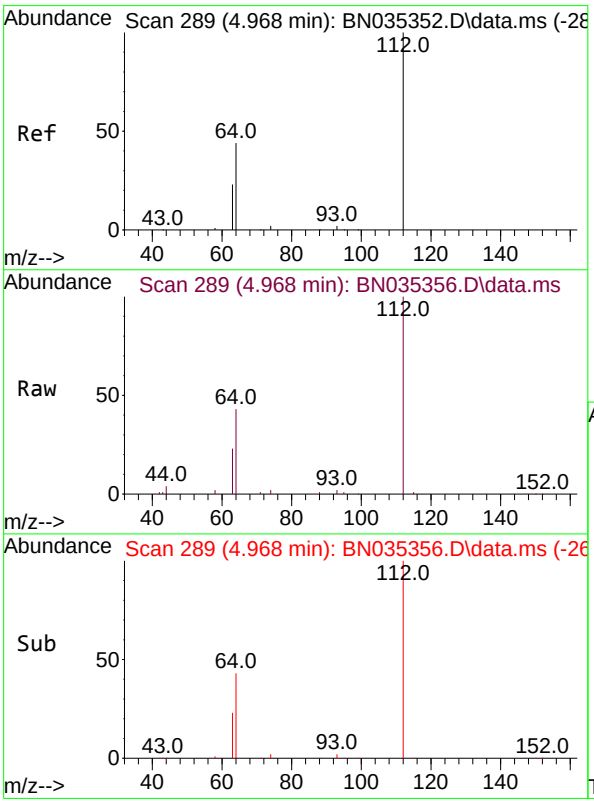
#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 8681

Ion	Ratio	Lower	Upper
42	100		
74	161.2	124.9	187.3
44	6.7	2.2	3.4#

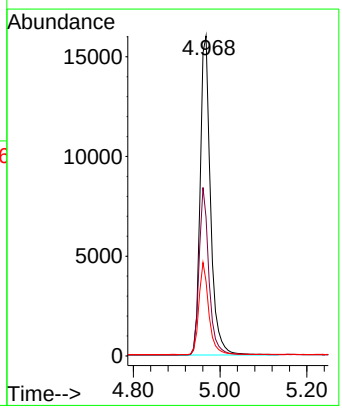


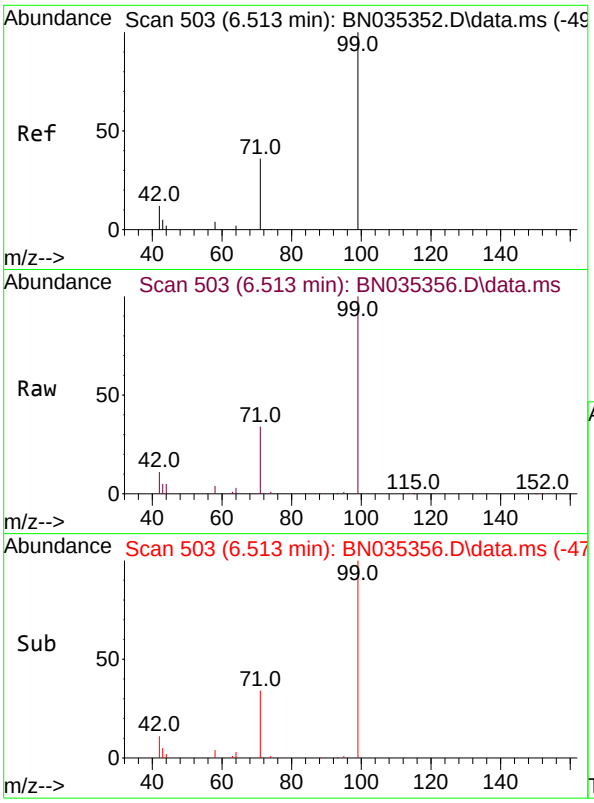


#4
2-Fluorophenol
Concen: 4.637 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:112 Resp: 26472

Ion	Ratio	Lower	Upper
112	100		
64	50.0	39.8	59.8
63	27.4	21.0	31.6



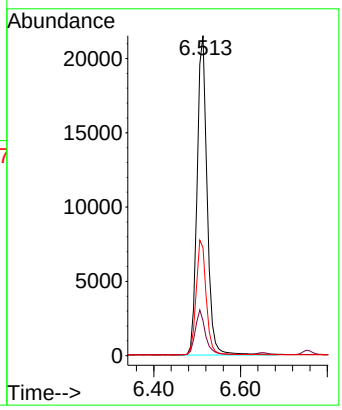


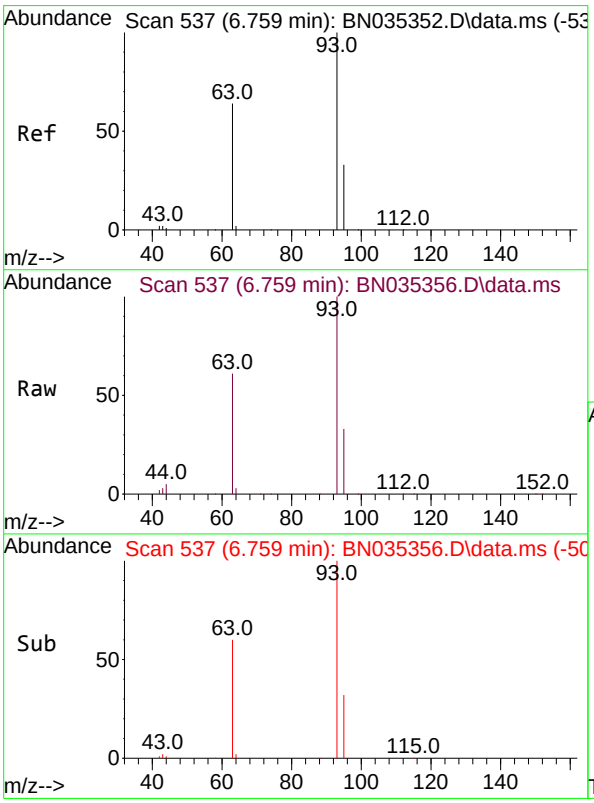
#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 34560

Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	36.4	29.3	43.9

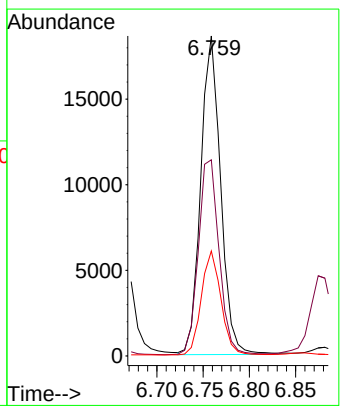


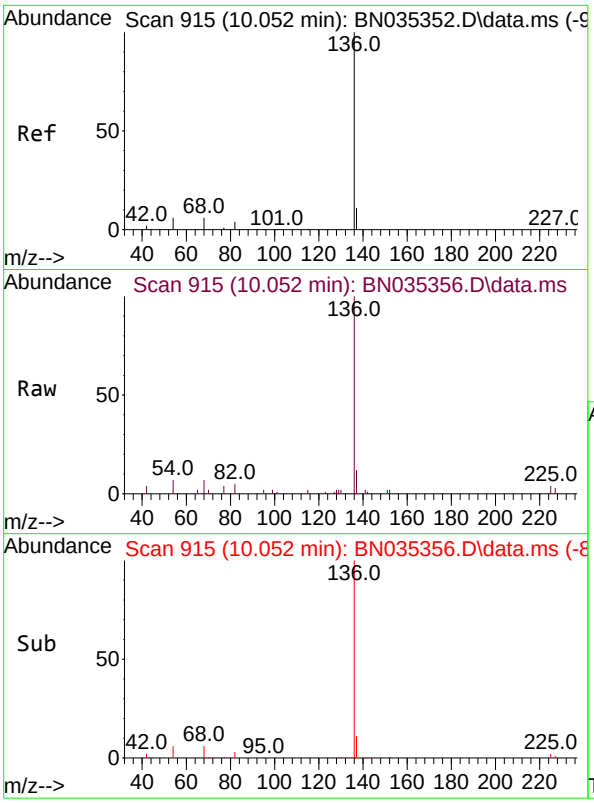


#6
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 93 Resp: 27872

Ion	Ratio	Lower	Upper
93	100		
63	63.7	50.4	75.6
95	32.1	25.7	38.5



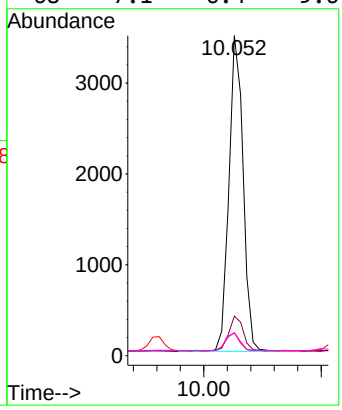


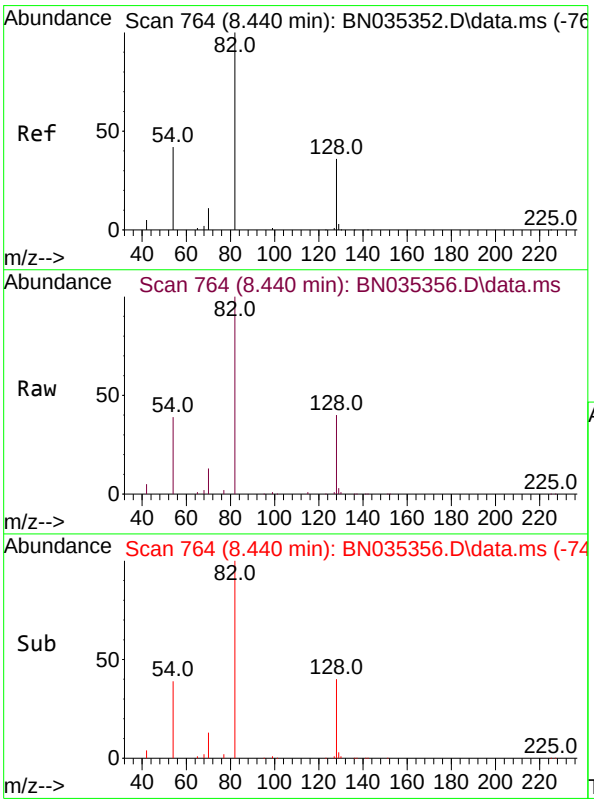
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 5807

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.1	6.1	9.1
68	7.1	6.4	9.6

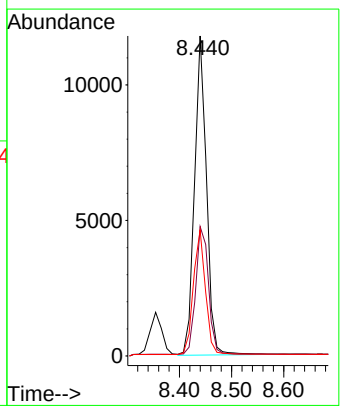


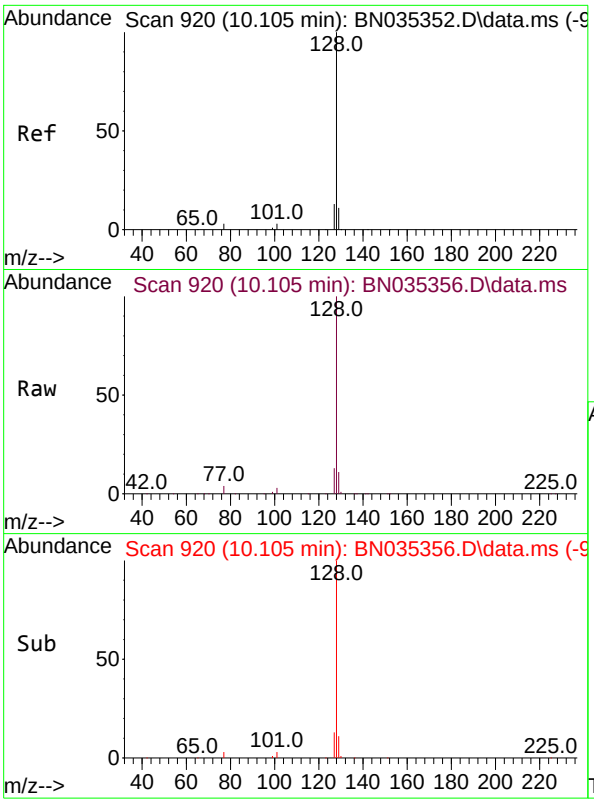


#8
Nitrobenzene-d5
Concen: 3.741 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 82 Resp: 18911

Ion	Ratio	Lower	Upper
82	100		
128	40.4	33.4	50.0
54	39.4	36.7	55.1



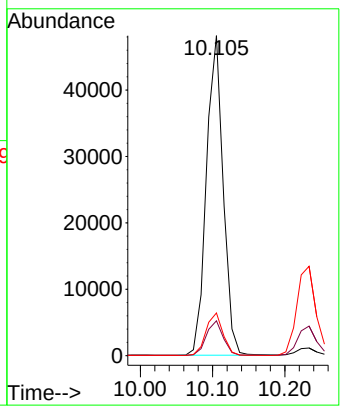


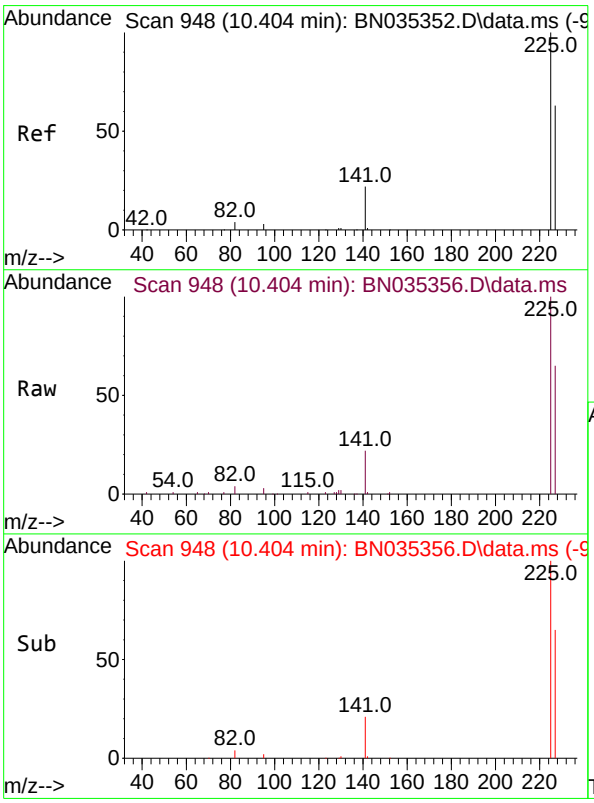
#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 77668

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.6
127	13.4	11.4	17.2

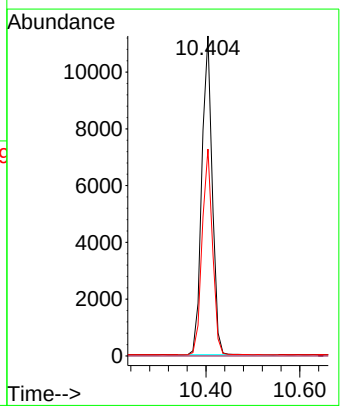


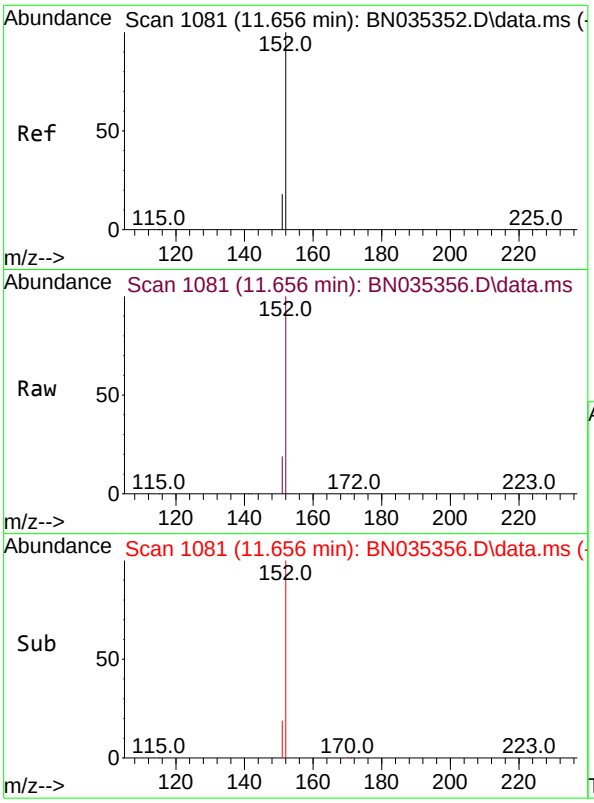


#10
Hexachlorobutadiene
Concen: 3.887 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:225 Resp: 17273

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	51.3	76.9



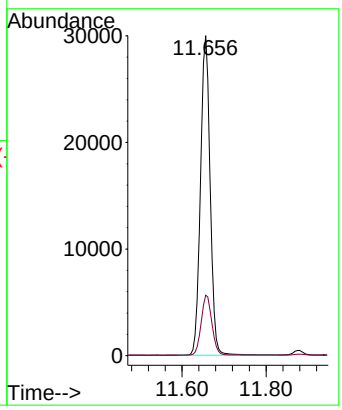


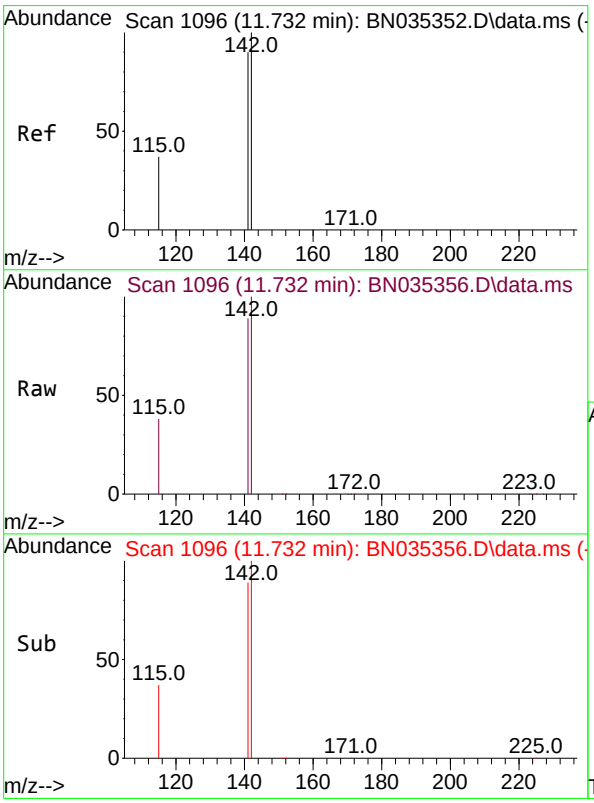
#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 47612

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

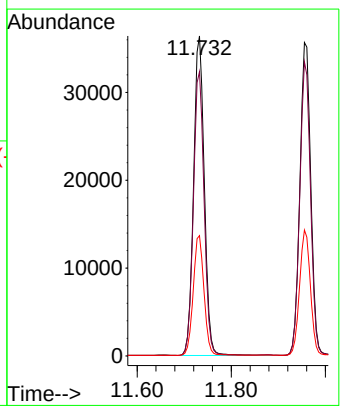


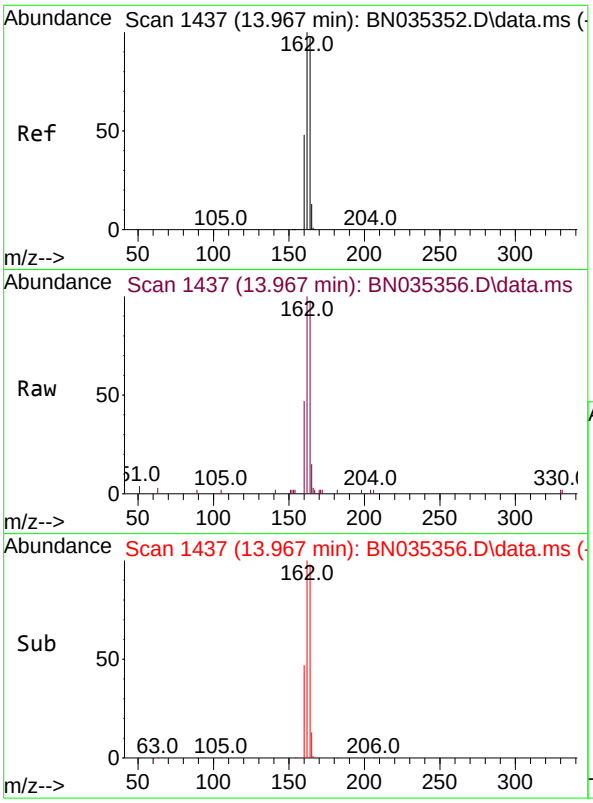


#12
2-Methylnaphthalene
Concen: 5.158 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:142 Resp: 57698

Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.2	108.4
115	37.6	31.4	47.0



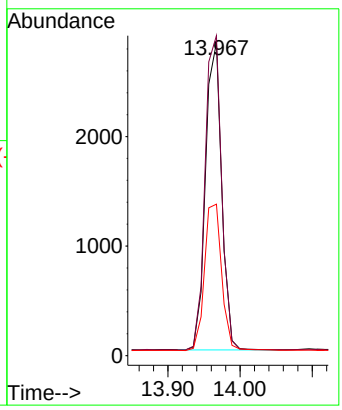


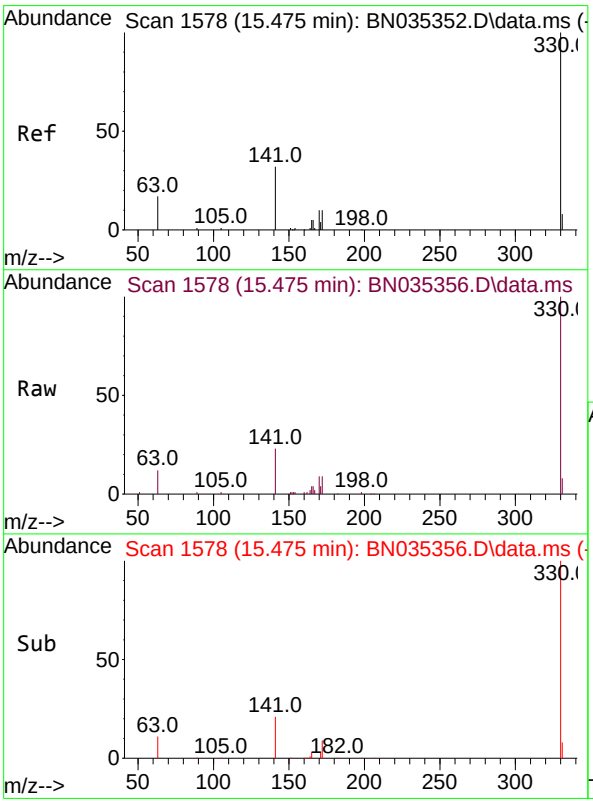
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 4363

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	48.4	40.1	60.1

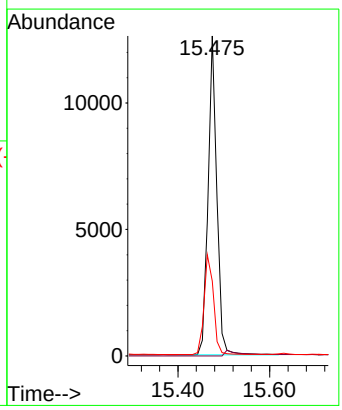


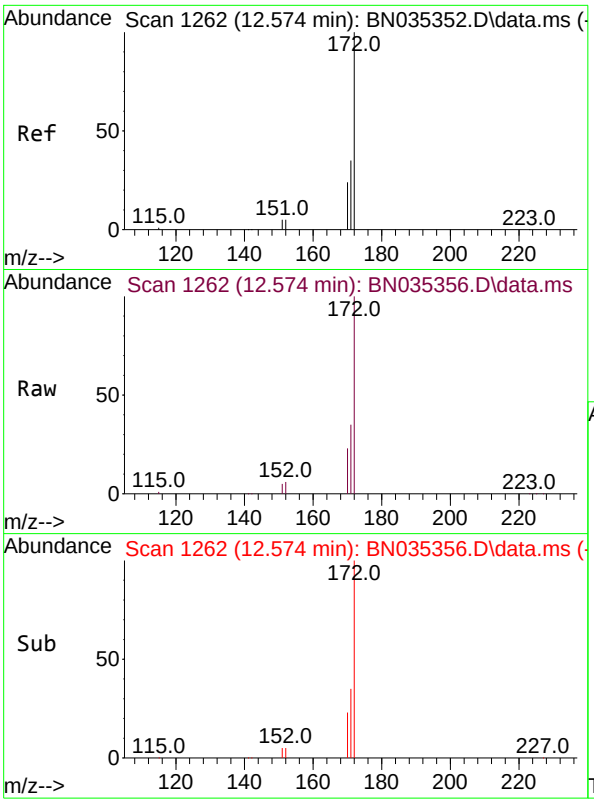


#14
2,4,6-Tribromophenol
Concen: 5.689 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:330 Resp: 17905

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.4	26.6	40.0



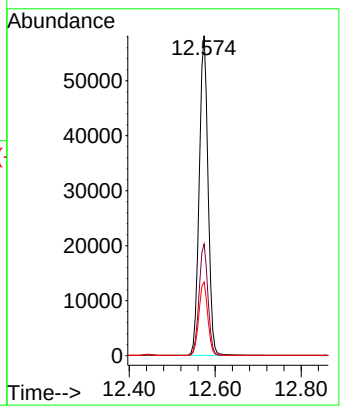


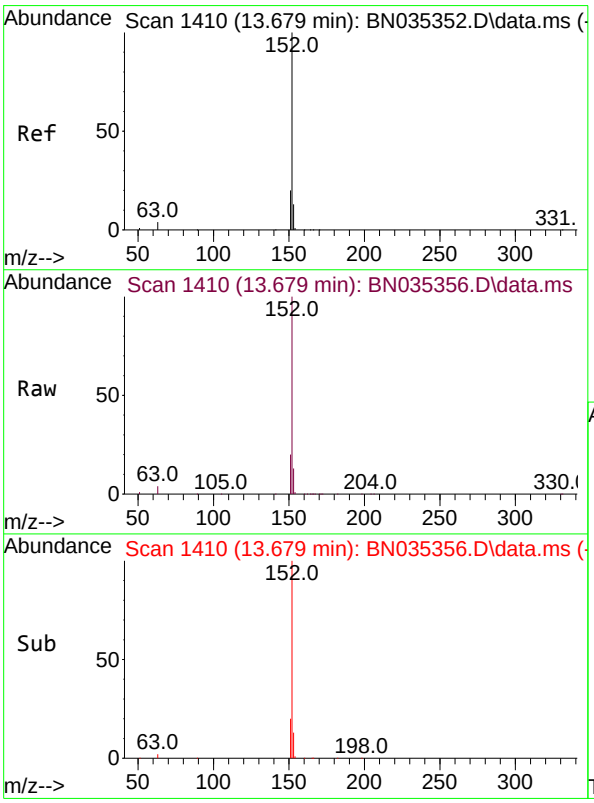
#15
2-Fluorobiphenyl
Concen: 4.650 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 82401

Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.0	43.4
170	23.0	19.8	29.8

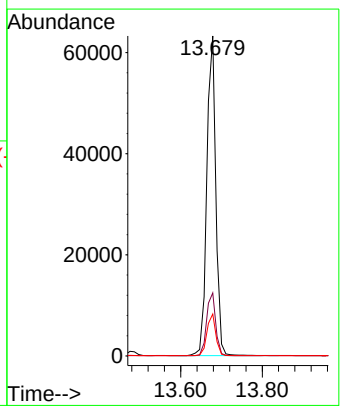


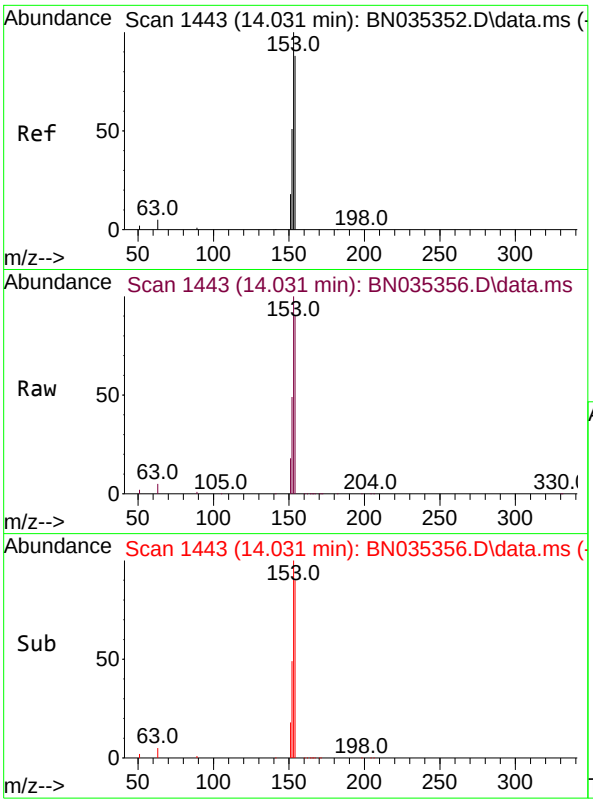


#16
Acenaphthylene
Concen: 5.209 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:152 Resp: 97129

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	12.9	10.4	15.6



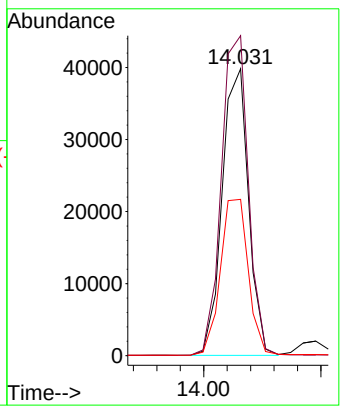


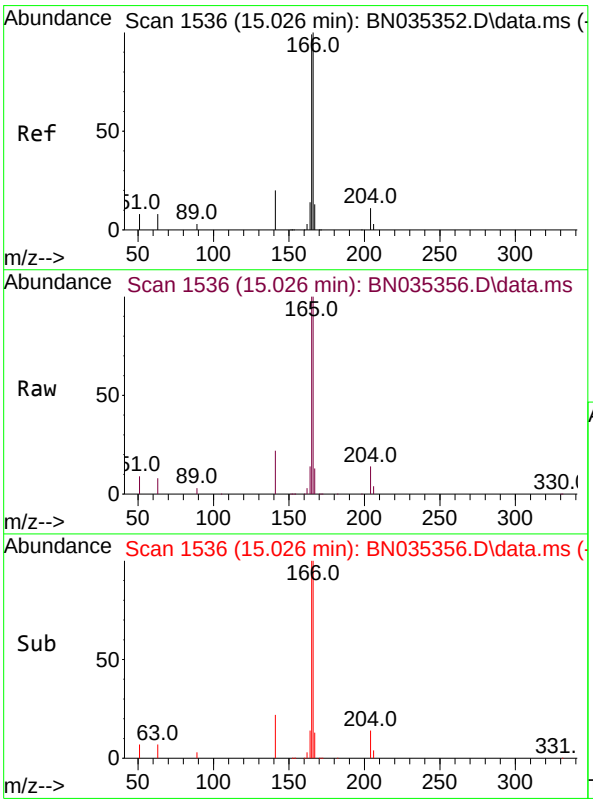
#17
Acenaphthene
Concen: 5.088 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 62170

Ion	Ratio	Lower	Upper
154	100		
153	114.7	92.6	139.0
152	58.1	49.0	73.6

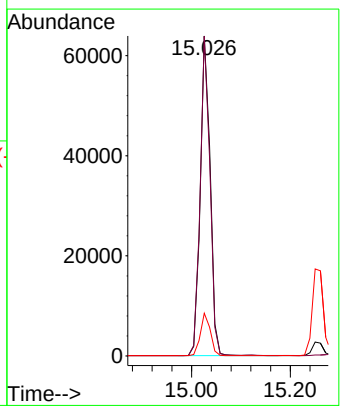


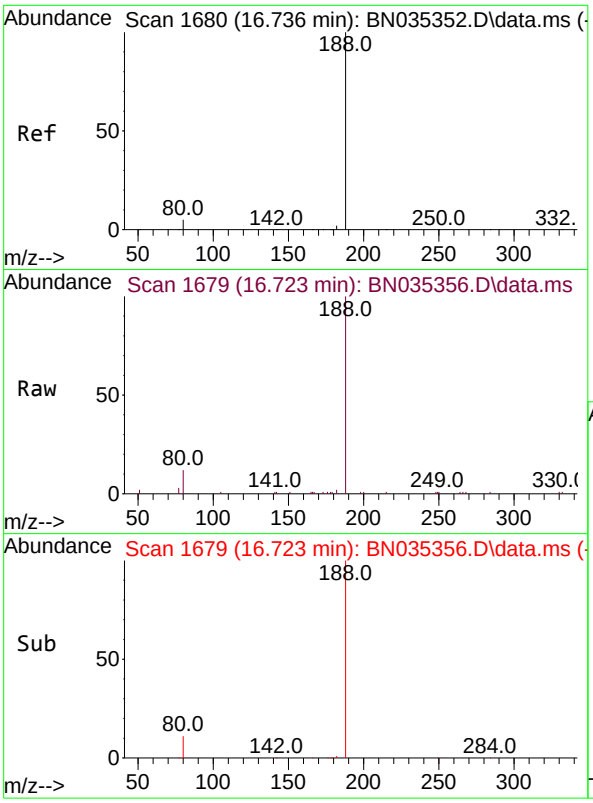


#18
Fluorene
Concen: 4.932 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:166 Resp: 88648

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.4	10.8	16.2



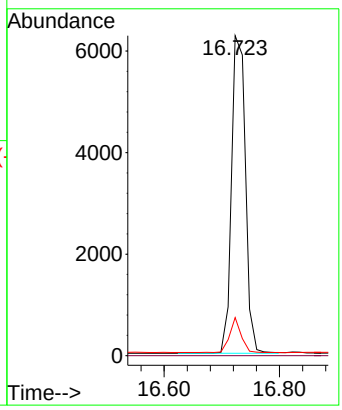


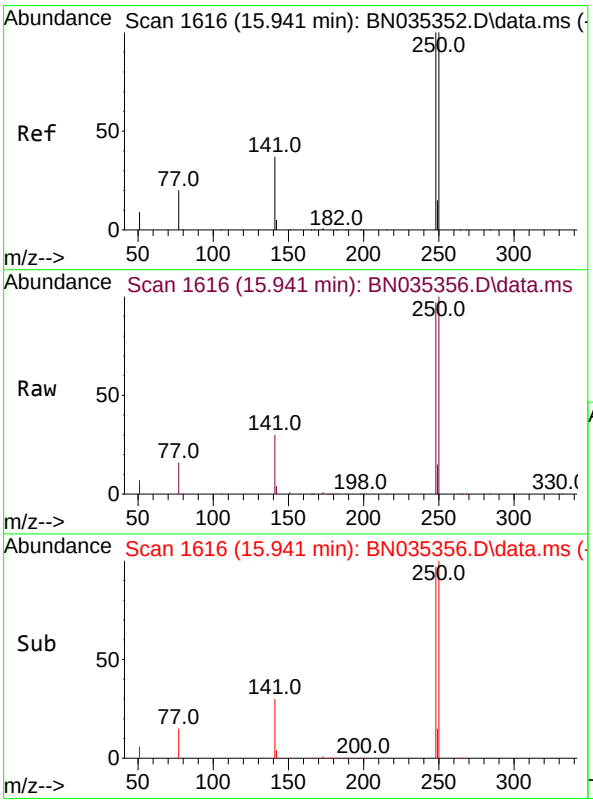
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 10479

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	4.6	6.8#

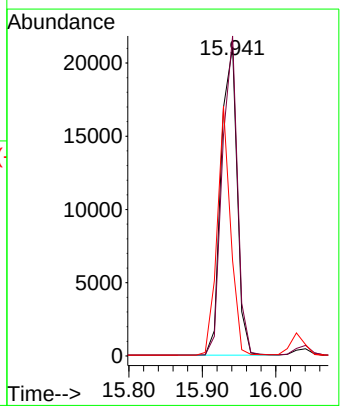


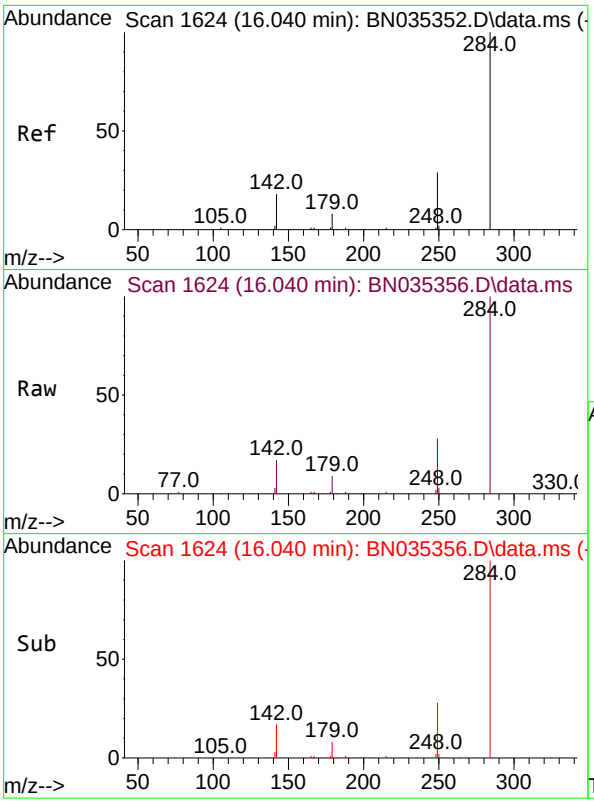


#21
4-Bromophenyl-phenylether
Concen: 4.785 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:248 Resp: 31947

Ion	Ratio	Lower	Upper
248	100		
250	103.5	80.6	120.8
141	30.8	31.5	47.3#



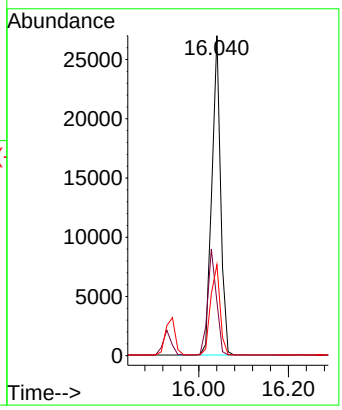


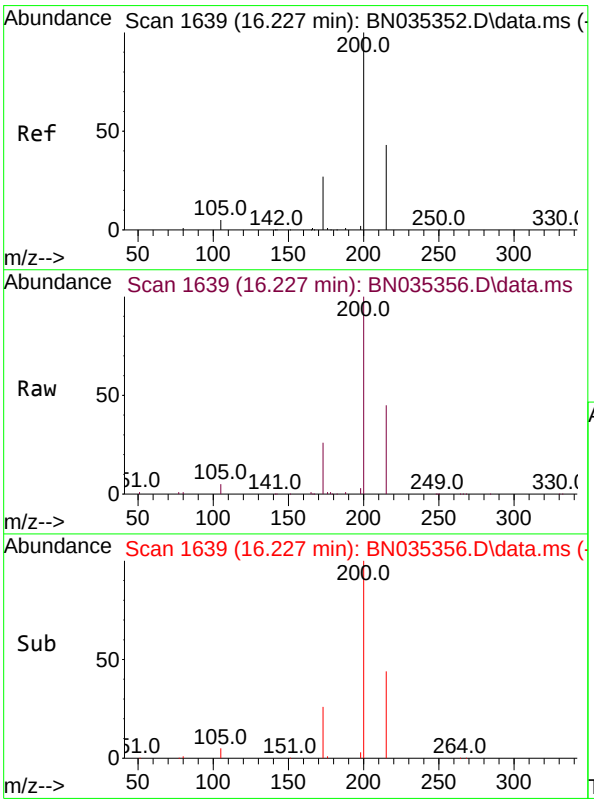
#22
Hexachlorobenzene
Concen: 5.241 ng
RT: 16.040 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:284 Resp: 36315

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.4	24.6	36.8

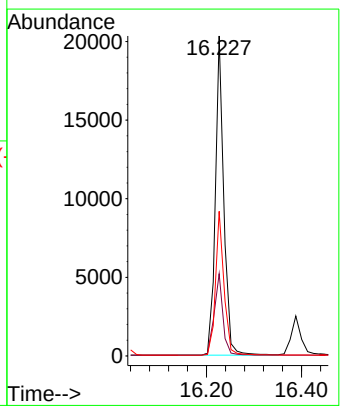


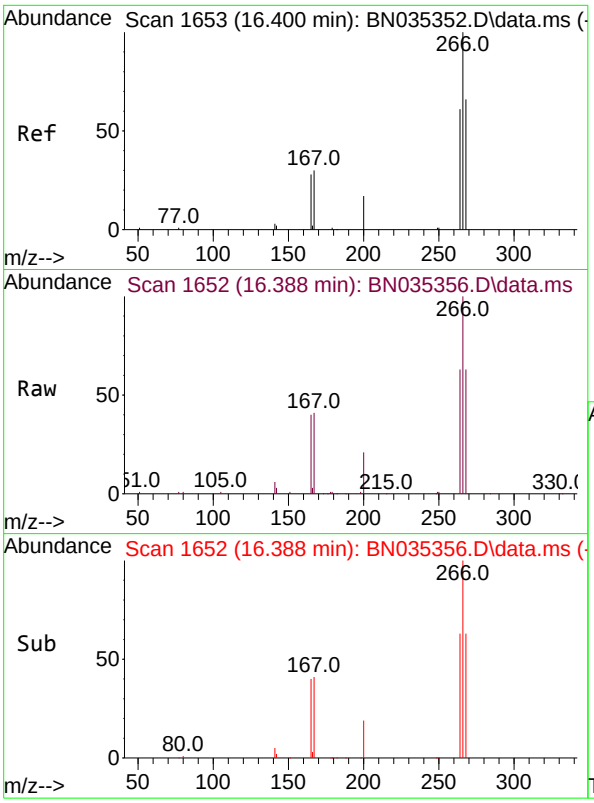


#23
Atrazine
Concen: 4.179 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:200 Resp: 25034

Ion	Ratio	Lower	Upper
200	100		
173	25.7	24.1	36.1
215	45.2	36.9	55.3



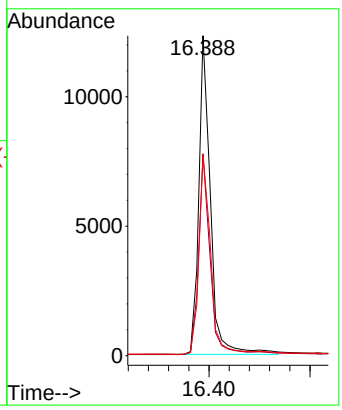


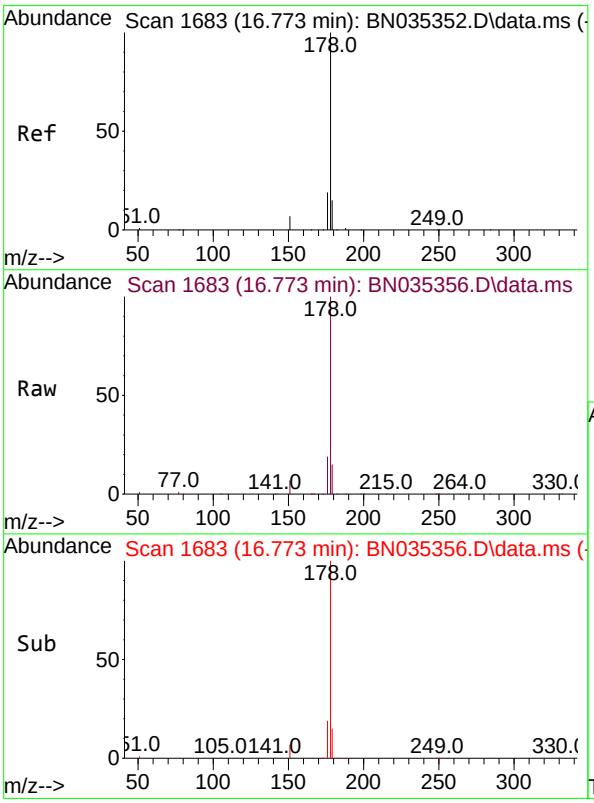
#24
Pentachlorophenol
Concen: 6.083 ng
RT: 16.388 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:266 Resp: 19691

Ion	Ratio	Lower	Upper
266	100		
264	62.6	42.3	63.5
268	64.1	43.3	64.9

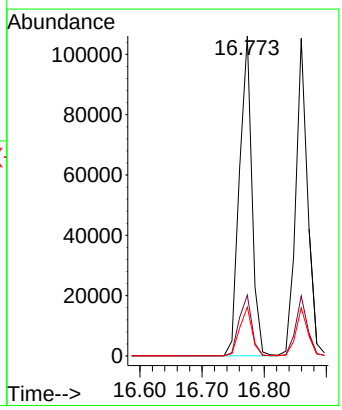


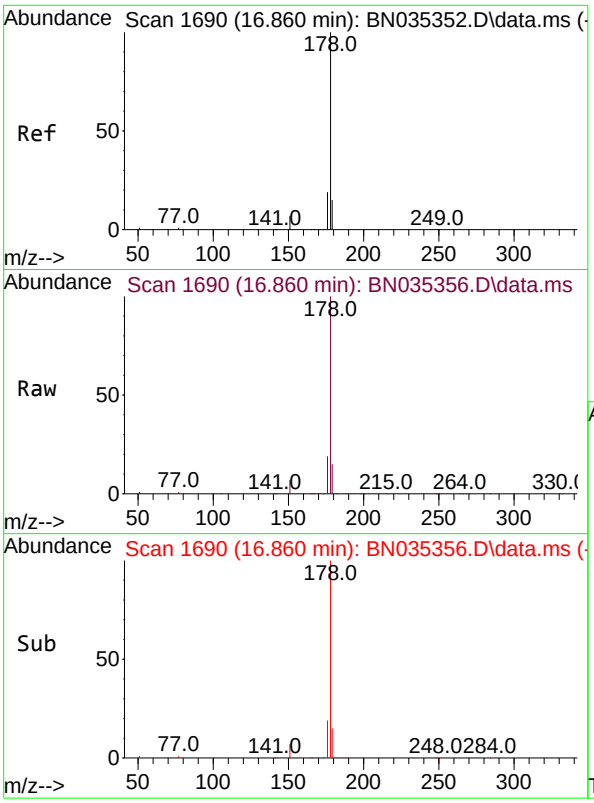


#25
Phenanthrene
Concen: 5.343 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:178 Resp: 147357

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.2	12.3	18.5



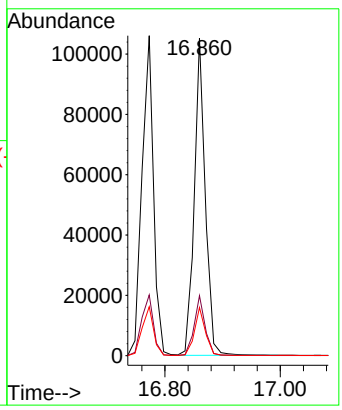


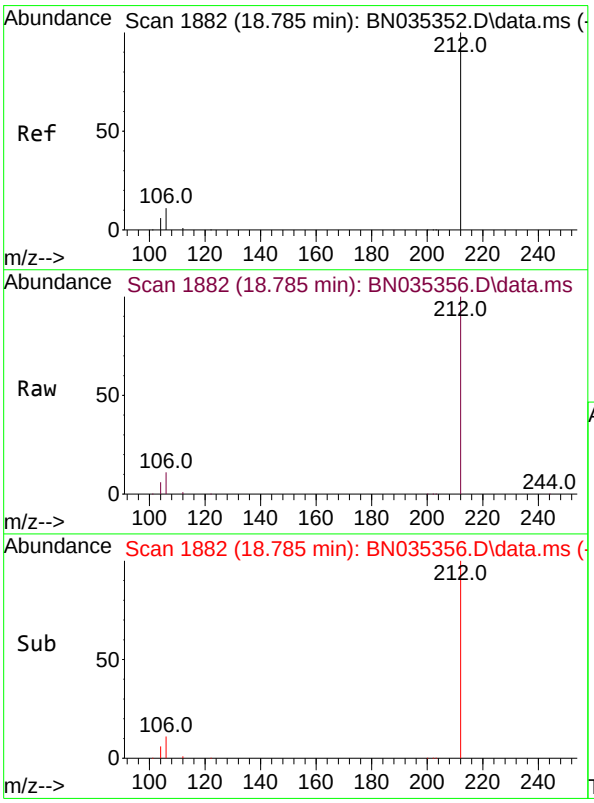
#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 139399

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.1	12.6	18.8

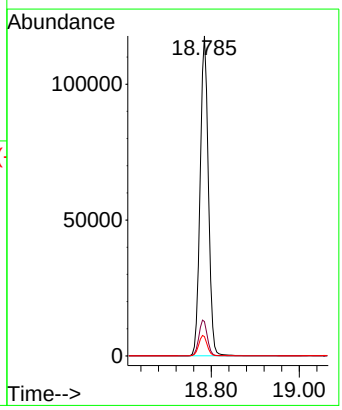


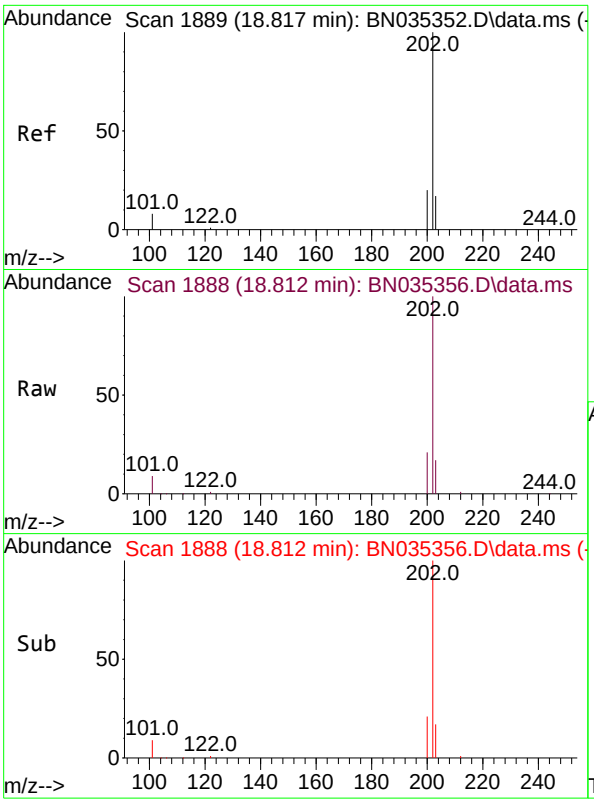


#27
Fluoranthene-d10
Concen: 4.748 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:212 Resp: 152416

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.5	5.3	7.9



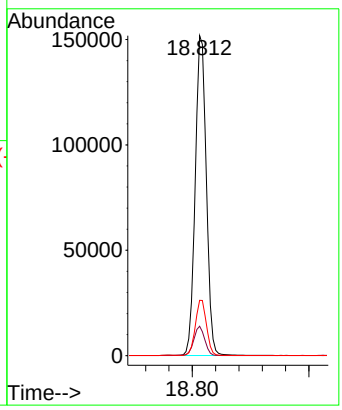


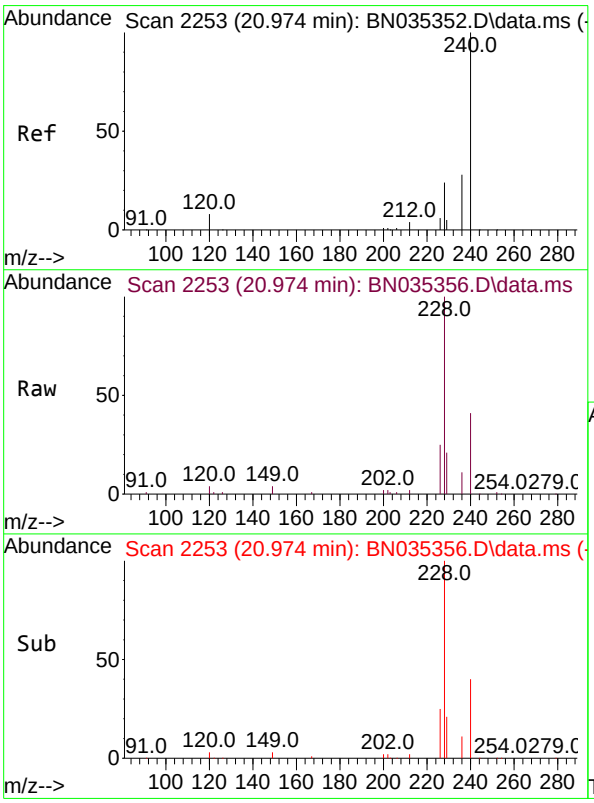
#28
Fluoranthene
Concen: 5.270 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 199850

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.4	13.7	20.5

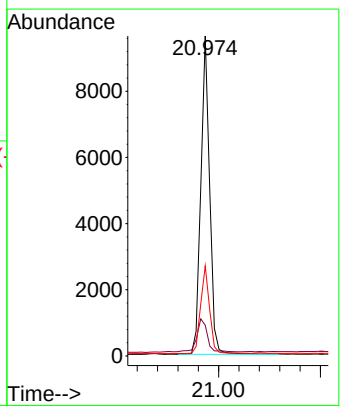


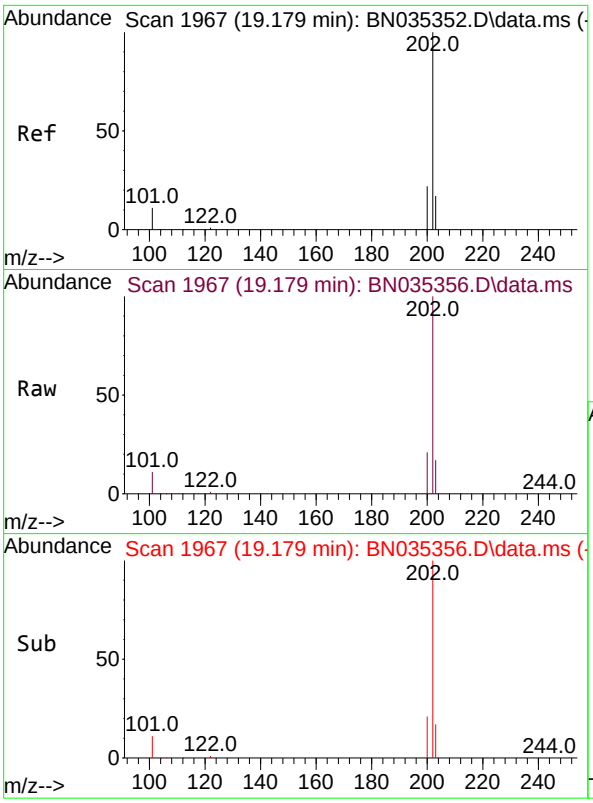


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:240 Resp: 11520

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.9	11.9
236	28.1	22.9	34.3



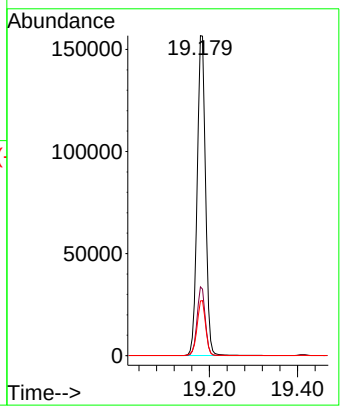


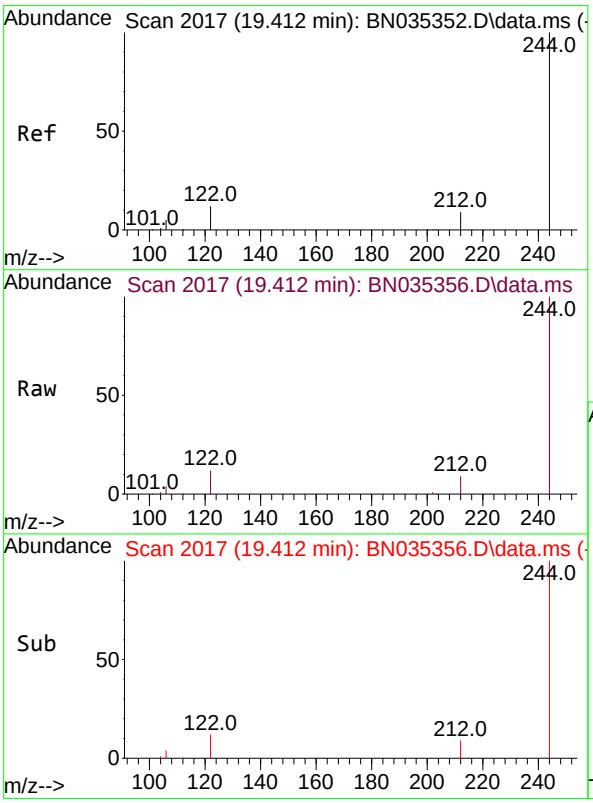
#30
Pyrene
Concen: 5.370 ng
RT: 19.179 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 206018

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5

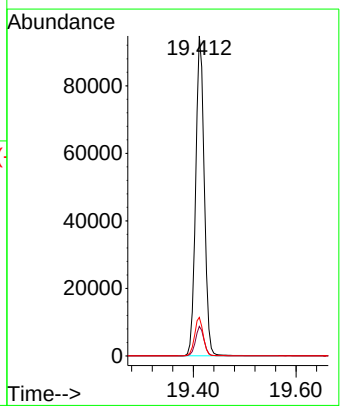


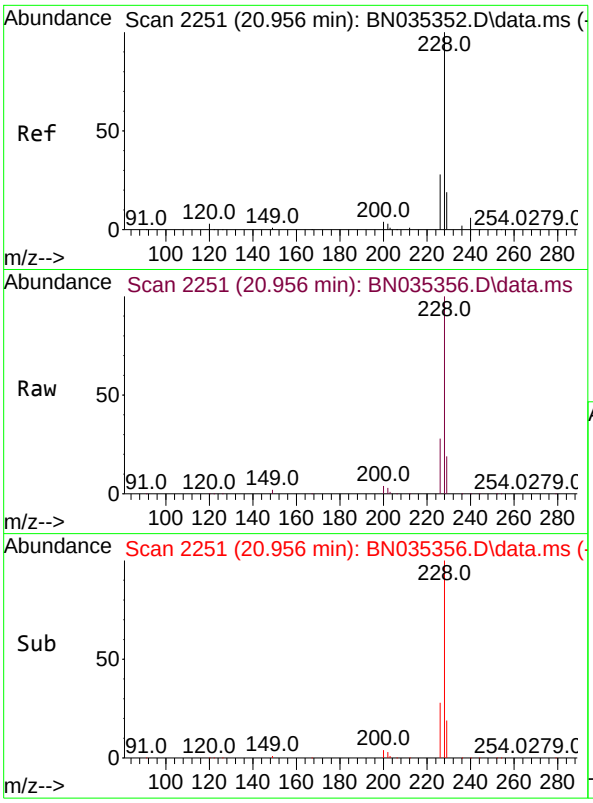


#31
Terphenyl-d14
Concen: 4.581 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:244 Resp: 110737

Ion	Ratio	Lower	Upper
244	100		
212	9.2	8.1	12.1
122	12.1	10.3	15.5



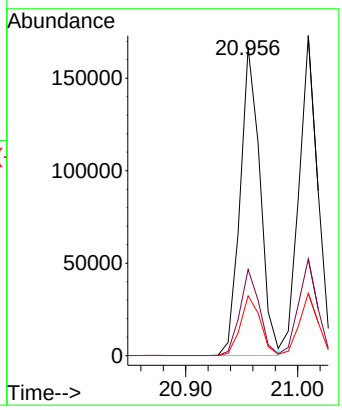


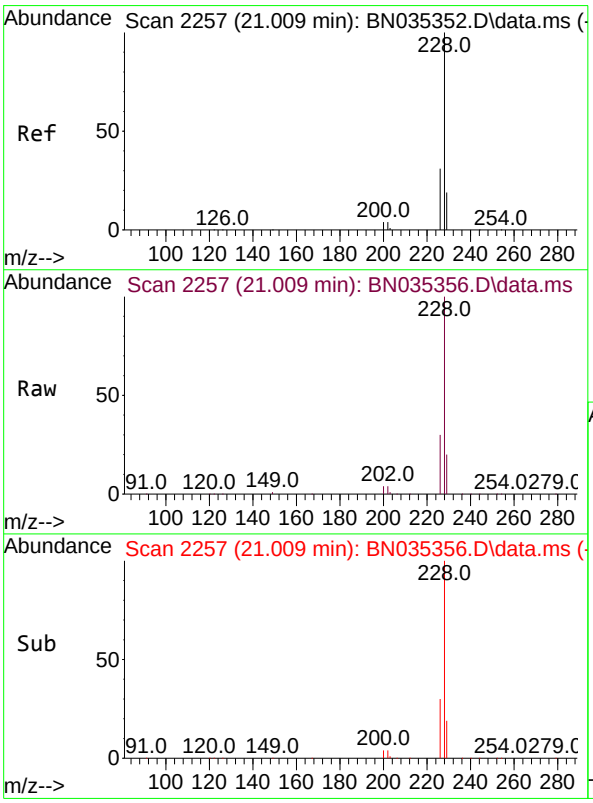
#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 205712

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.5	33.7
229	19.4	15.8	23.8

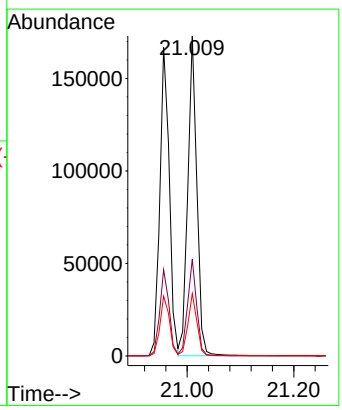


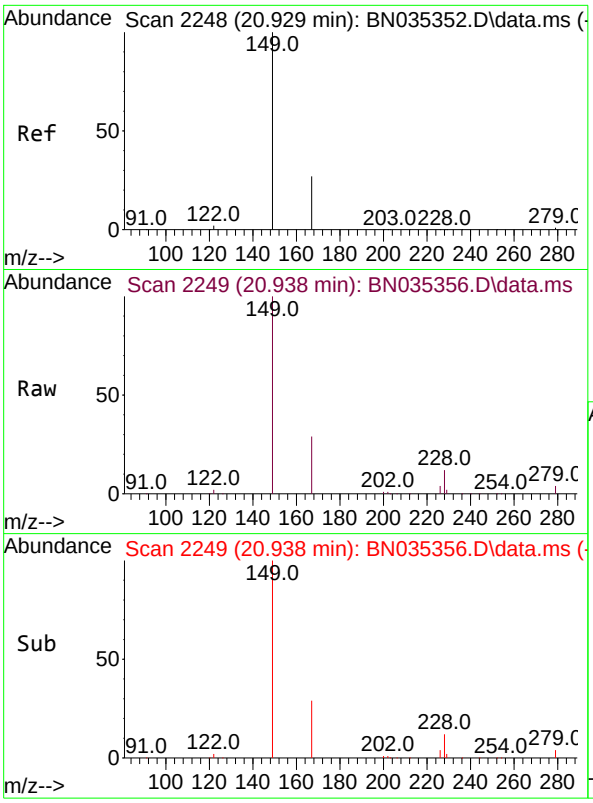


#33
Chrysene
Concen: 5.146 ng
RT: 21.009 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:228 Resp: 204475

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.5	15.9	23.9



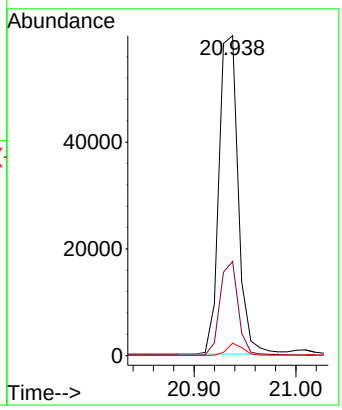


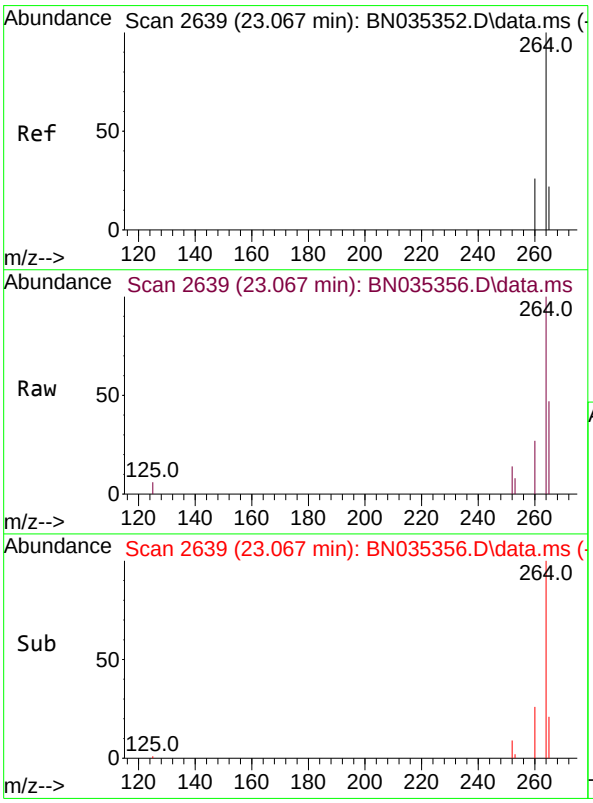
#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:149 Resp: 78322

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.2	2.7	4.1

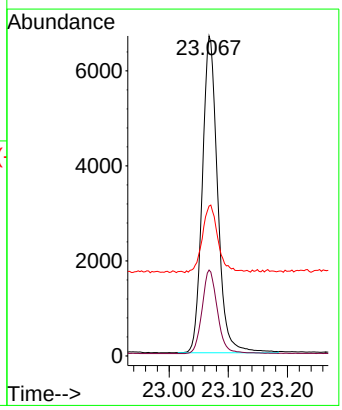


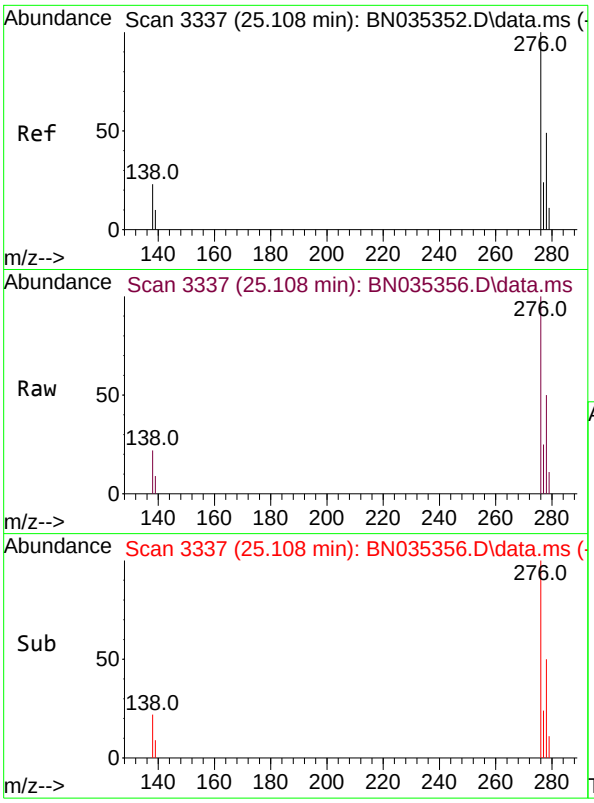


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:264 Resp: 12000

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	46.8	40.2	60.4



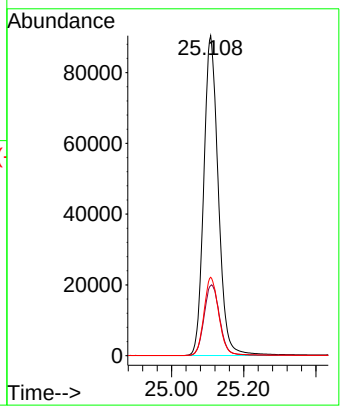


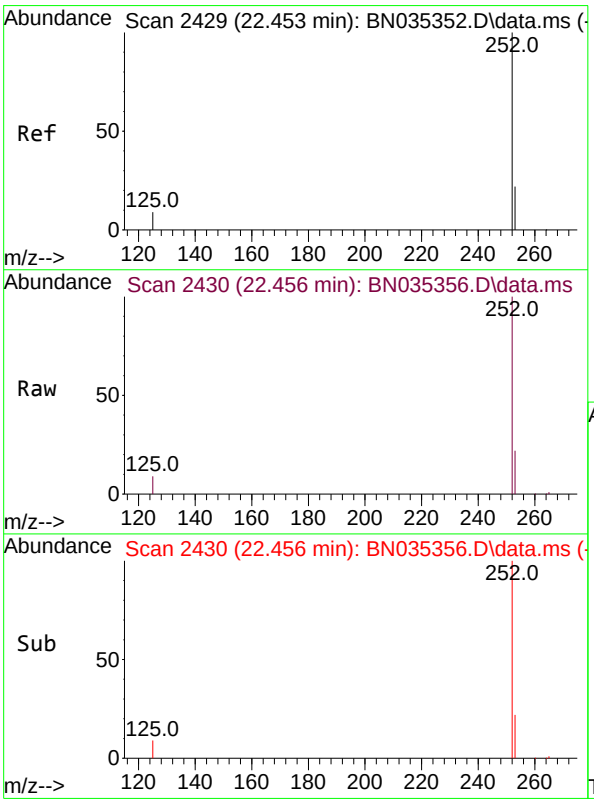
#36
Indeno(1,2,3-cd)pyrene
Concen: 5.279 ng
RT: 25.108 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 252709

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	25.0	19.8	29.6

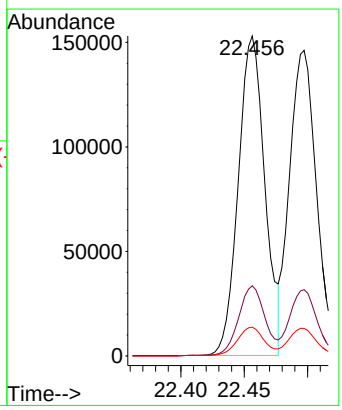


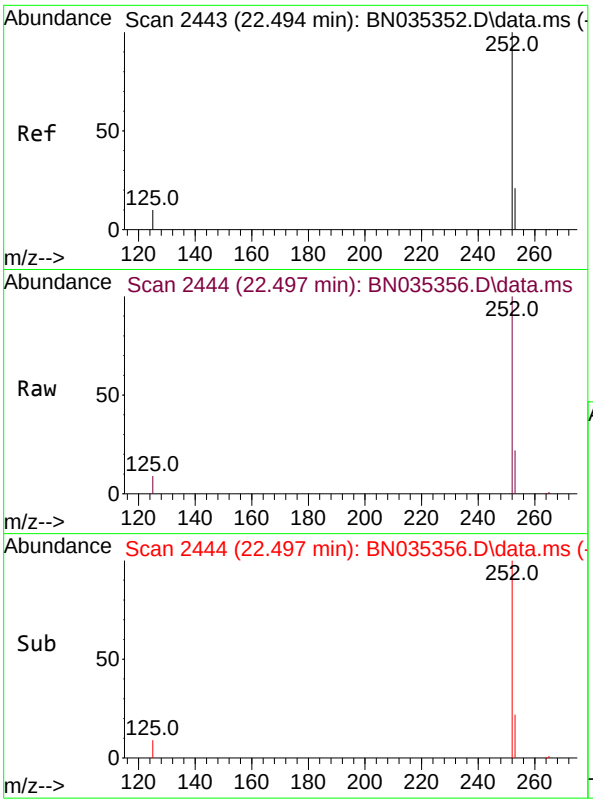


#37
Benzo(b)fluoranthene
Concen: 5.974 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 241201

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.0	9.6	14.4#



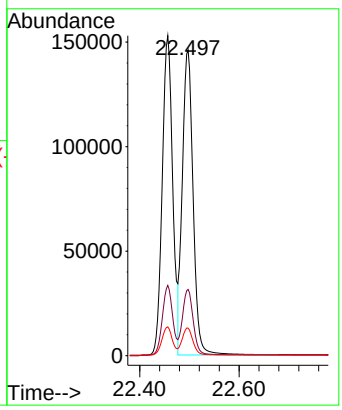


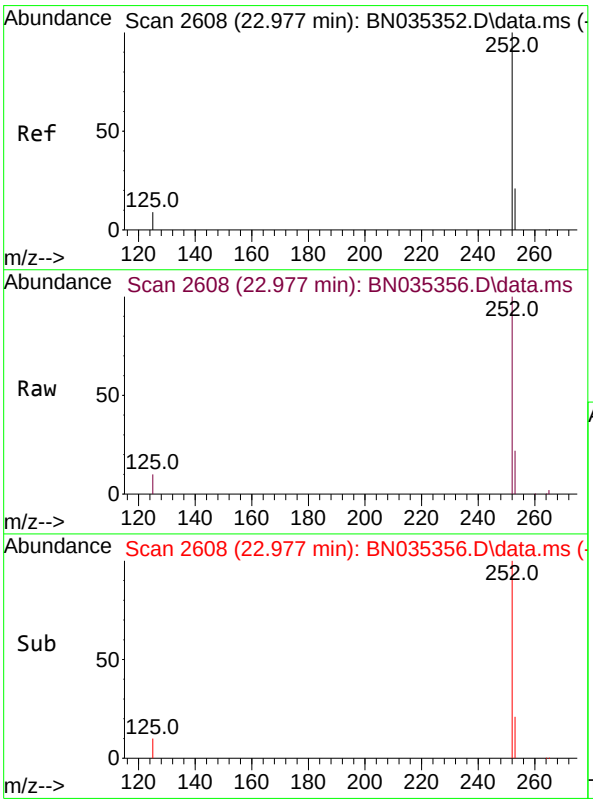
#38
Benzo(k)fluoranthene
Concen: 5.449 ng
RT: 22.497 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 220146

Ion	Ratio	Lower	Upper
252	100		
253	21.7	19.5	29.3
125	9.0	10.2	15.4#

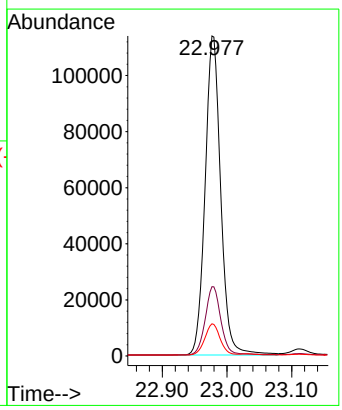


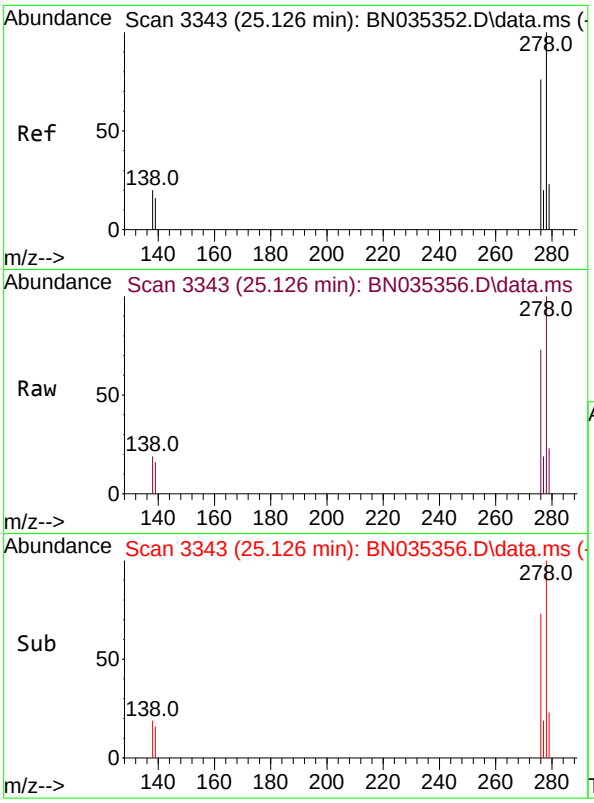


#39
Benzo(a)pyrene
Concen: 5.367 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 190665

Ion	Ratio	Lower	Upper
252	100		
253	21.6	20.2	30.4
125	10.0	10.9	16.3#



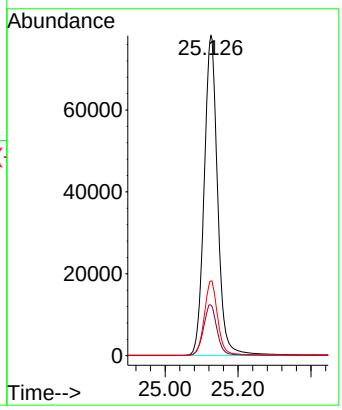


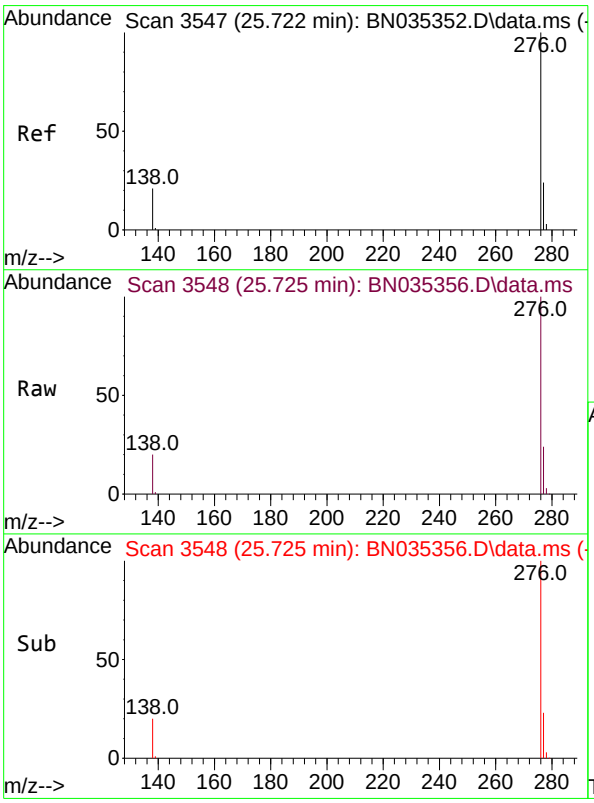
#40
Dibenzo(a,h)anthracene
Concen: 5.269 ng
RT: 25.126 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:278 Resp: 199852

Ion	Ratio	Lower	Upper
278	100		
139	15.8	14.2	21.4
279	23.3	20.5	30.7

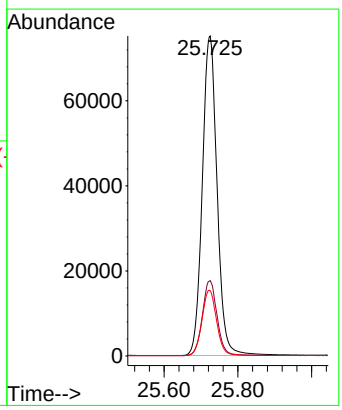




#41
Benzo(g,h,i)perylene
Concen: 5.183 ng
RT: 25.725 min Scan# 3548
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:276 Resp: 209119

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.9	29.9
138	20.4	17.8	26.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

11/29/2024
Supervised By :mohammad ahmed

11/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng	0.00
35) Perylene-d12	23.067	264	8338	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1280	0.332	ng	0.00
5) Phenol-d6	6.513	99	1437	0.310	ng	0.00
8) Nitrobenzene-d5	8.440	82	938m	0.393	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng	0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng	0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng	99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	# 88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng	99
9) Naphthalene	10.105	128	4364	0.424	ng	99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	# 100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng	98
16) Acenaphthylene	13.679	152	5261	0.435	ng	100
17) Acenaphthene	14.031	154	3421	0.426	ng	99
18) Fluorene	15.026	166	4825	0.420	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	# 86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng	99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng	99
23) Atrazine	16.227	200	1227	0.401	ng	99
24) Pentachlorophenol	16.400	266	662	0.301	ng	# 83
25) Phenanthrene	16.773	178	8509	0.421	ng	100
26) Anthracene	16.860	178	7849	0.430	ng	100
28) Fluoranthene	18.812	202	10941	0.402	ng	100
30) Pyrene	19.179	202	11476	0.410	ng	100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng	100
33) Chrysene	21.009	228	11926	0.436	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng	99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng	99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng	99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng	99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng	100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng	99

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

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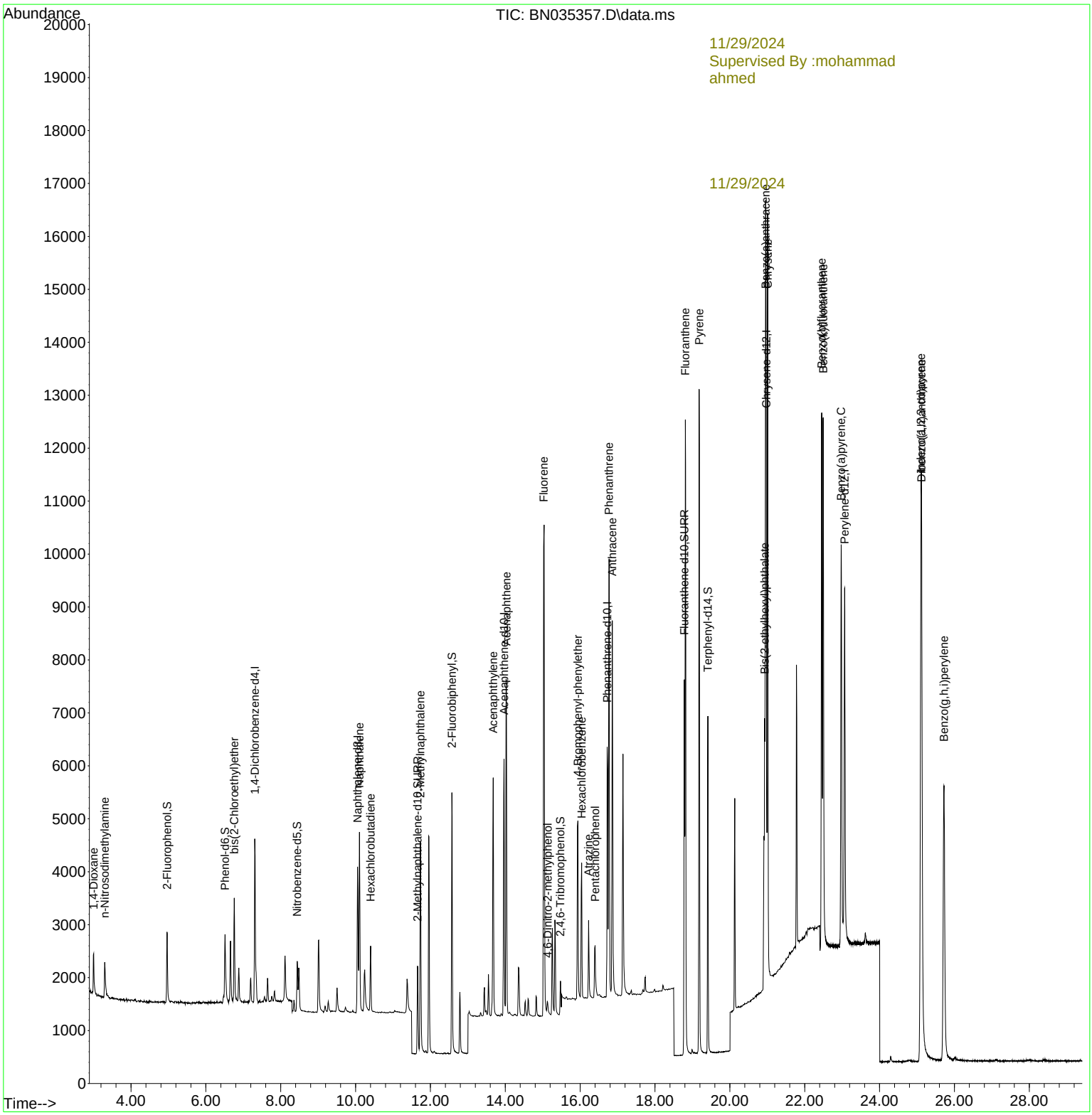
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

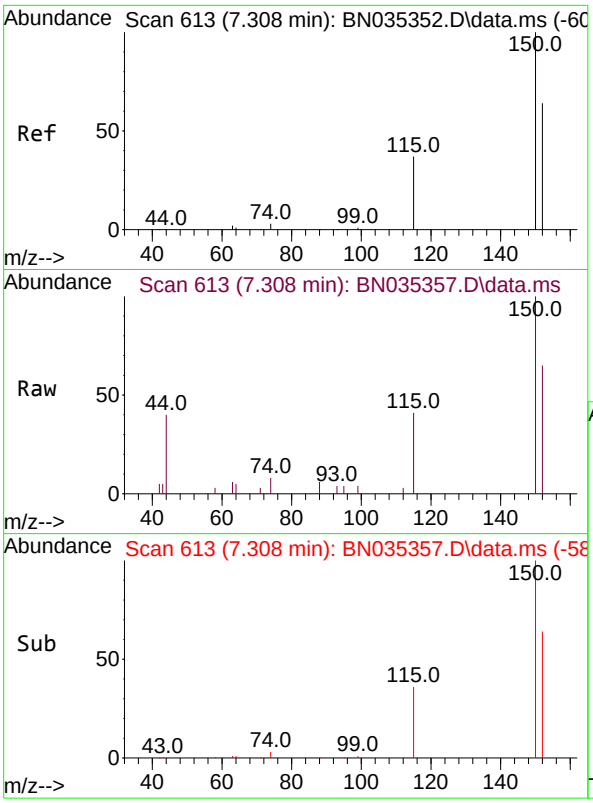
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

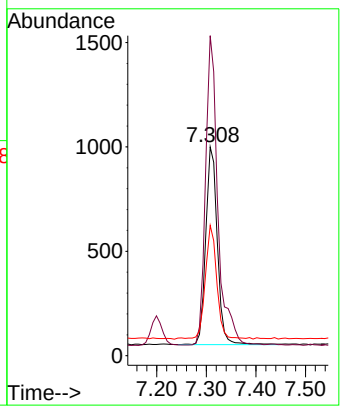




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 154

Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.0	186.0
115	62.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
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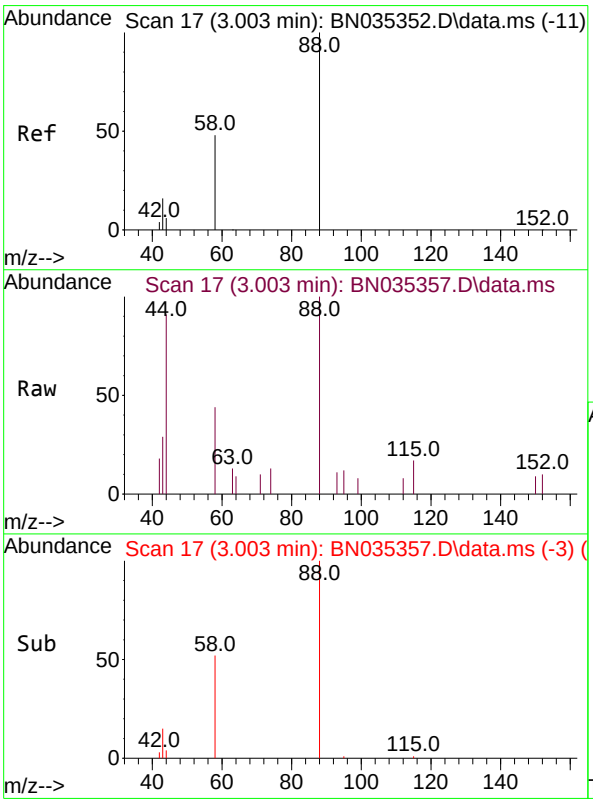
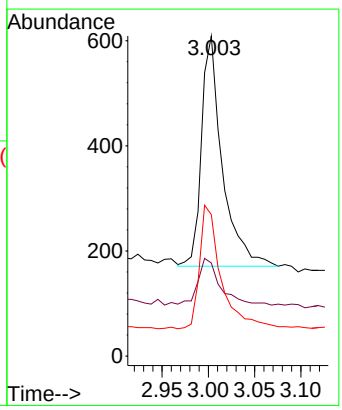
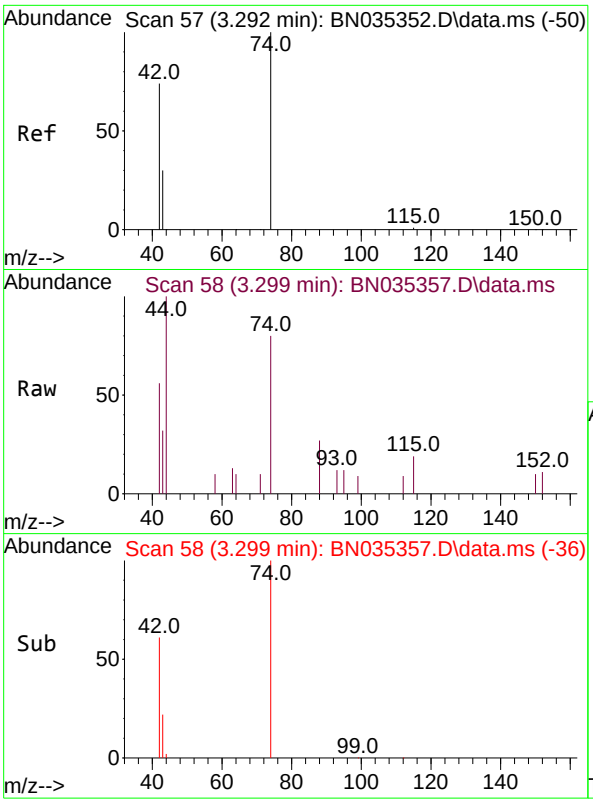


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

Ion	Ratio	Lower	Upper
88	100		
43	21.8	17.2	25.8
58	56.0	44.5	66.7

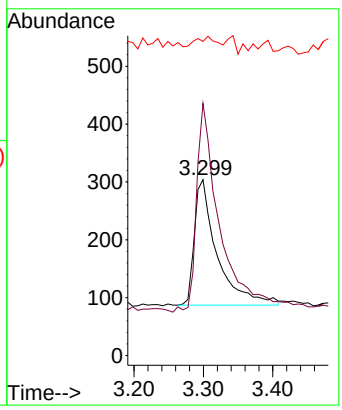




#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 42 Resp: 49

Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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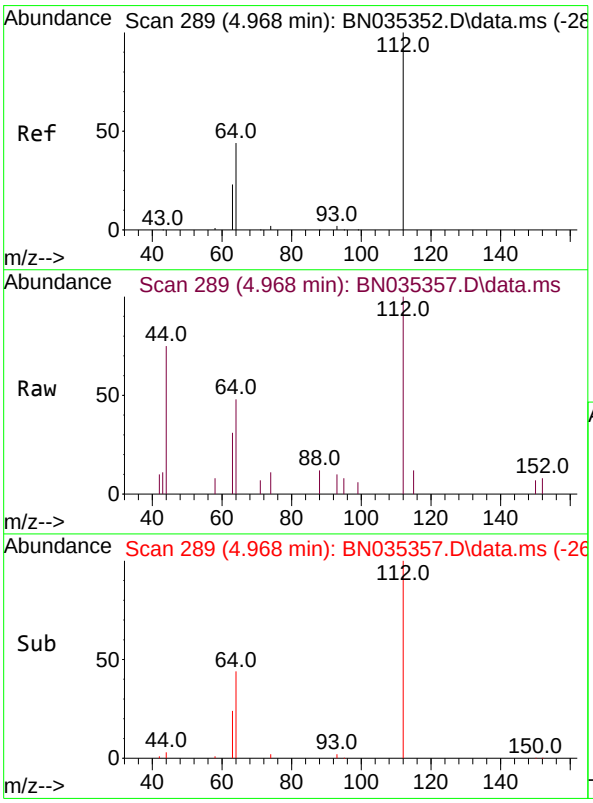
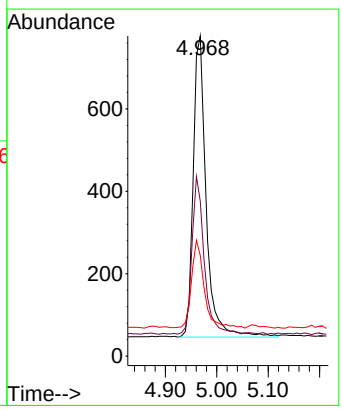
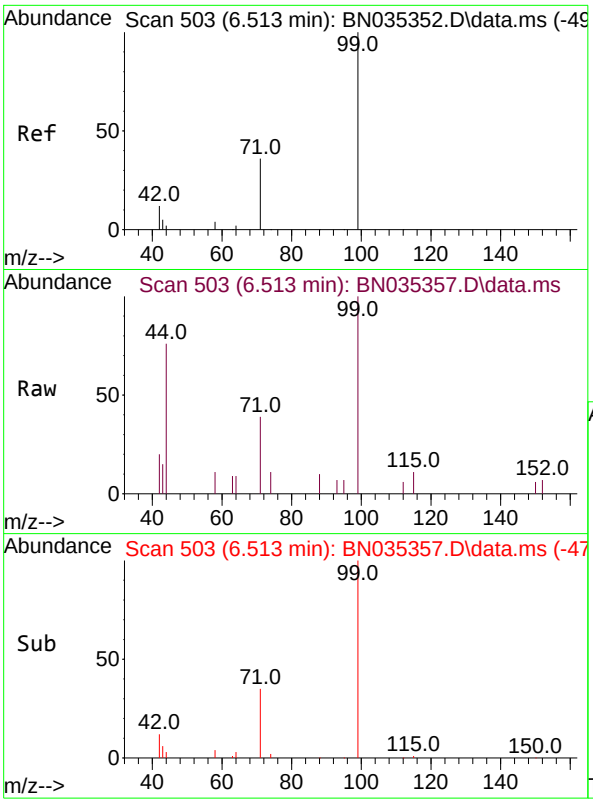


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	28.4	21.0	31.6

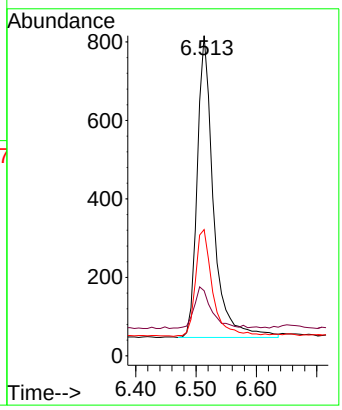




#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 99 Resp: 143

Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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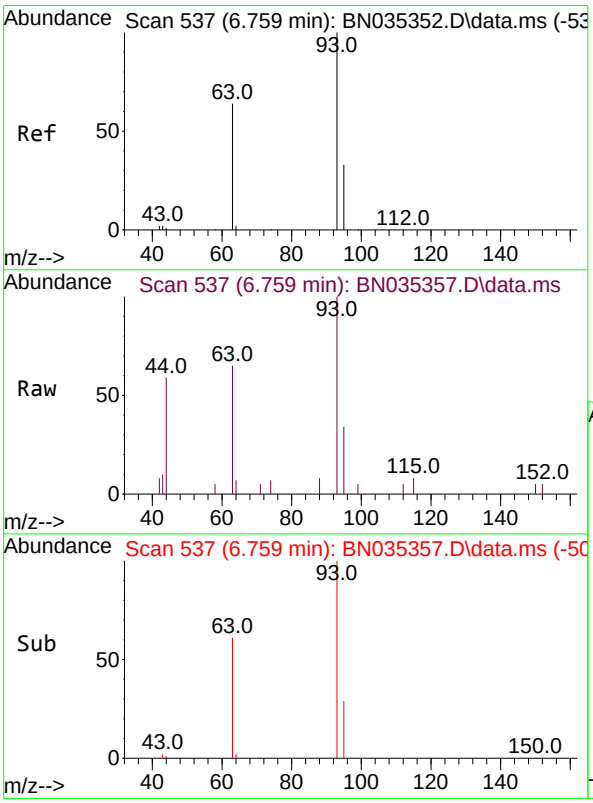
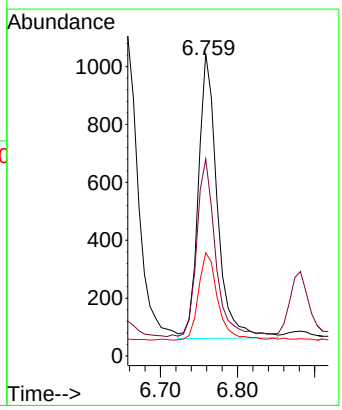
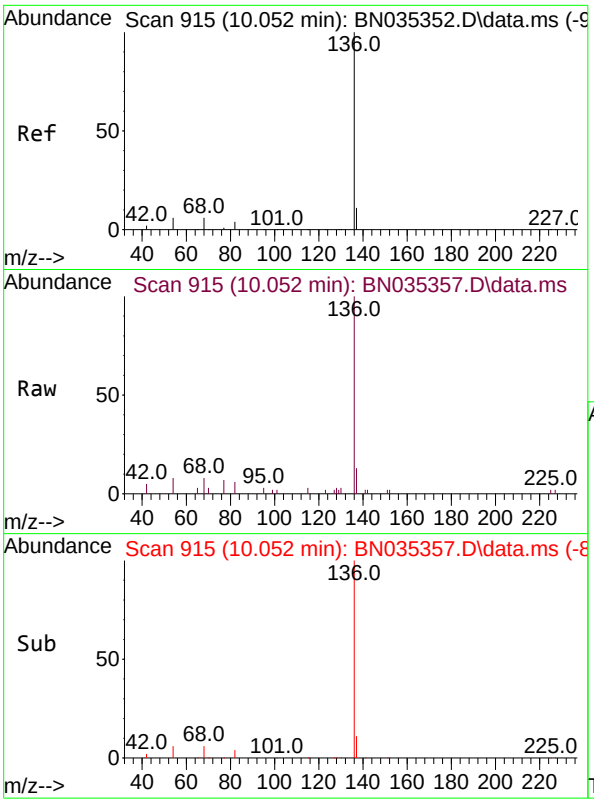


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

Ion	Ratio	Lower	Upper
93	100		
63	62.1	50.4	75.6
95	31.4	25.7	38.5

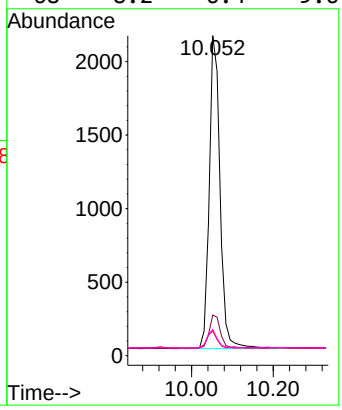




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:136 Resp: 390

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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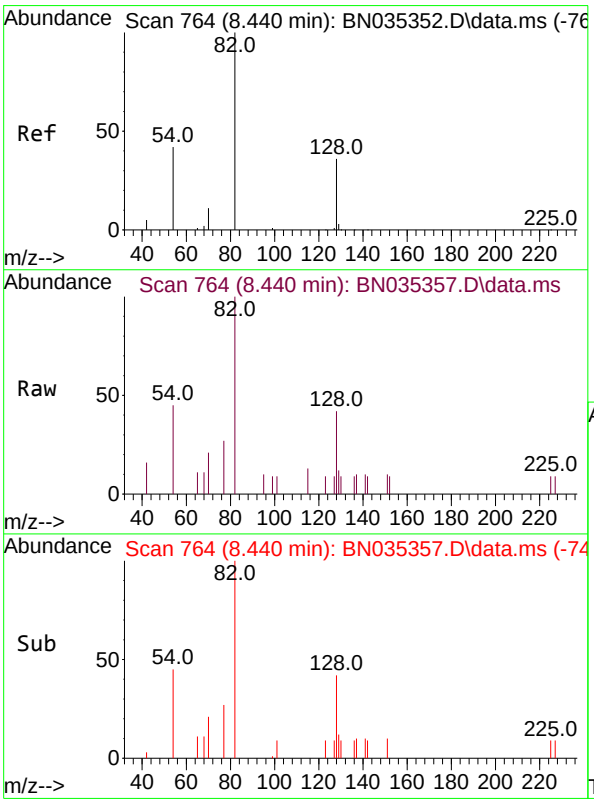
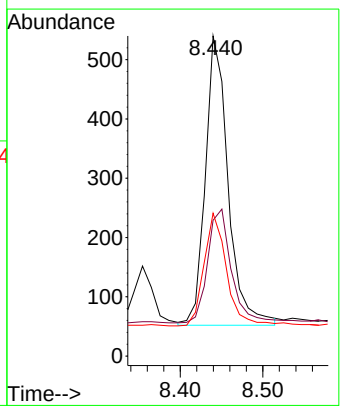
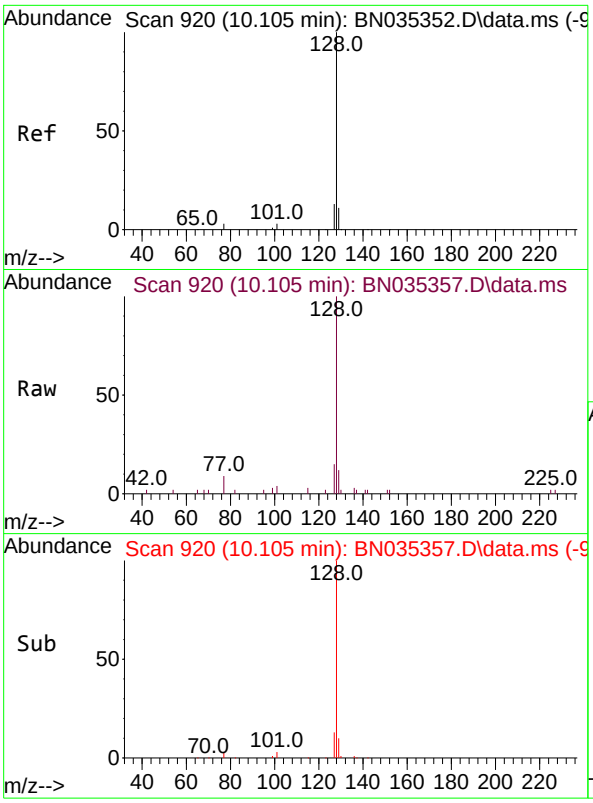


#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 938

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1

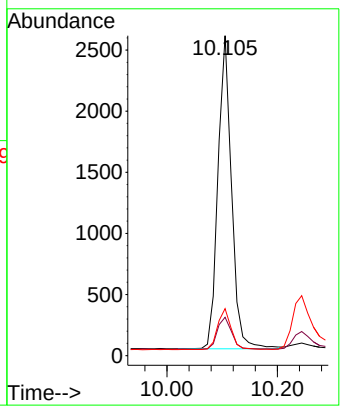




#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:128 Resp: 436

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.7	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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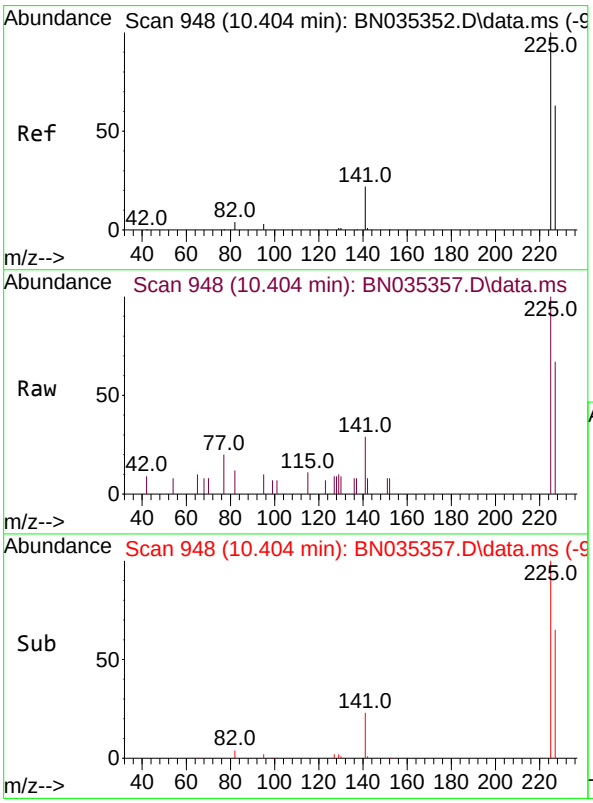
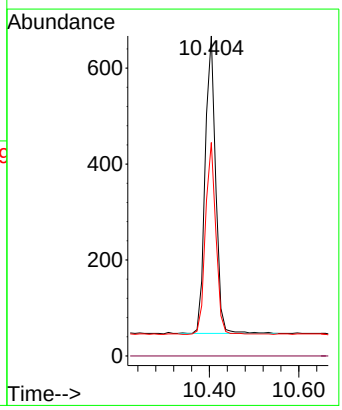
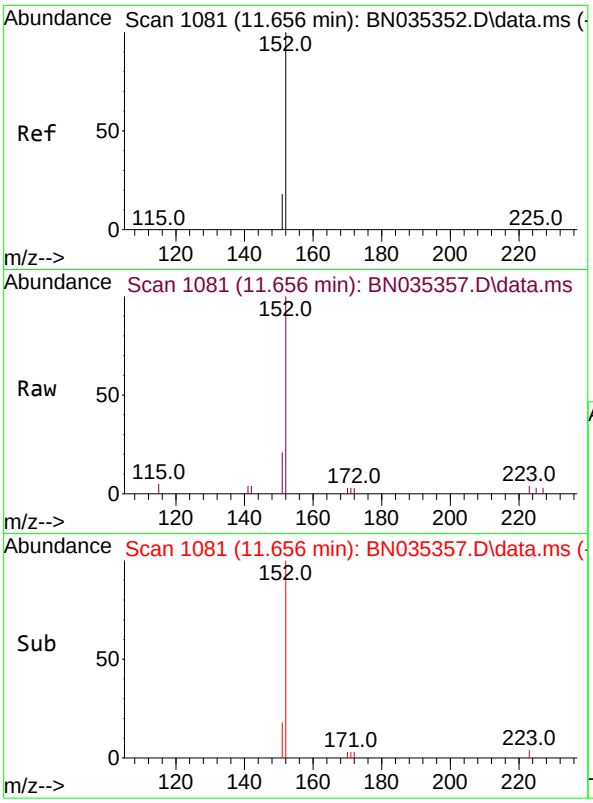


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9

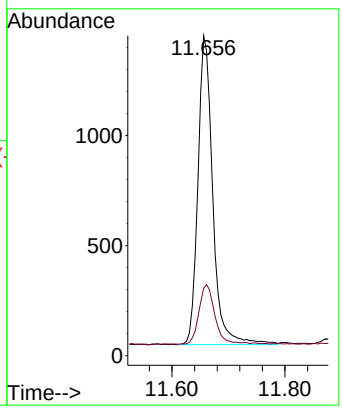




#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 256

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0



Instrument :
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ClientSampleId :
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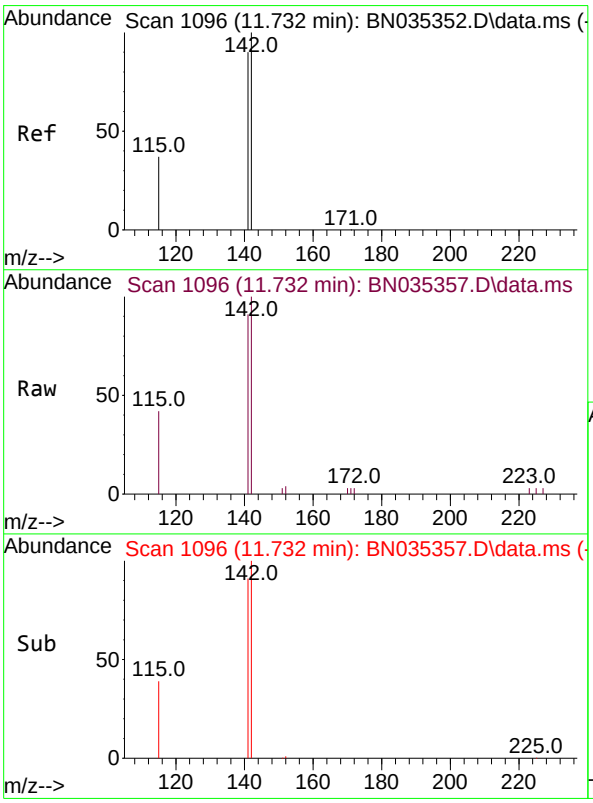
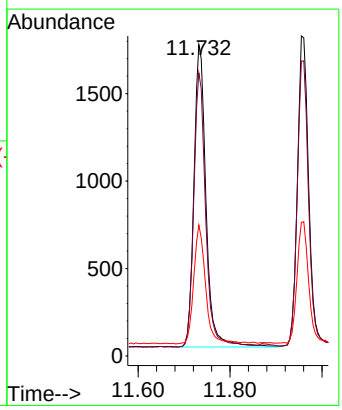
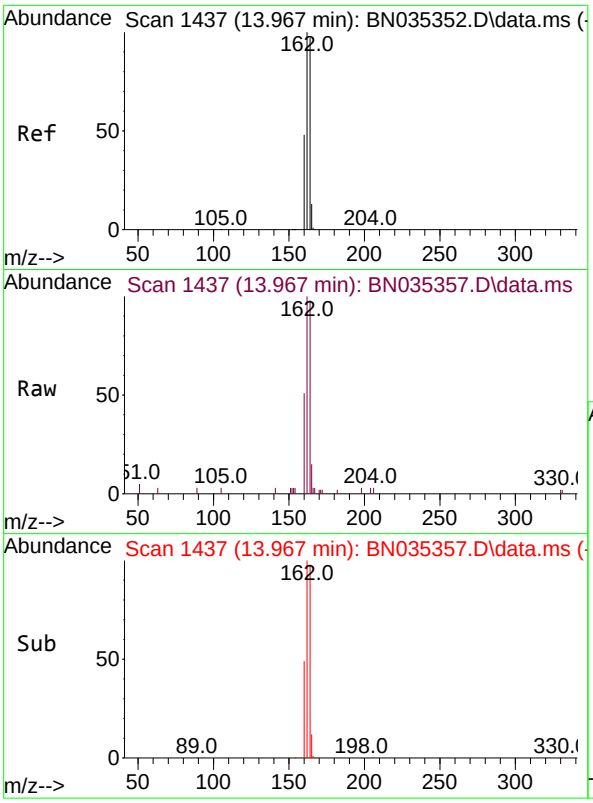


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	42.0	31.4	47.0

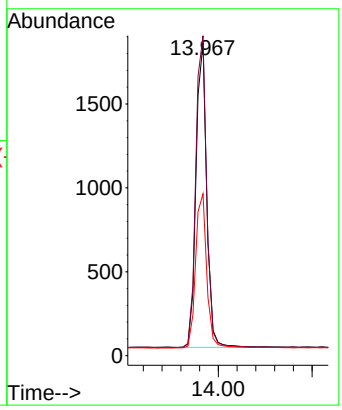




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:164 Resp: 287

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.8	40.1	60.1



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ClientSampleId :
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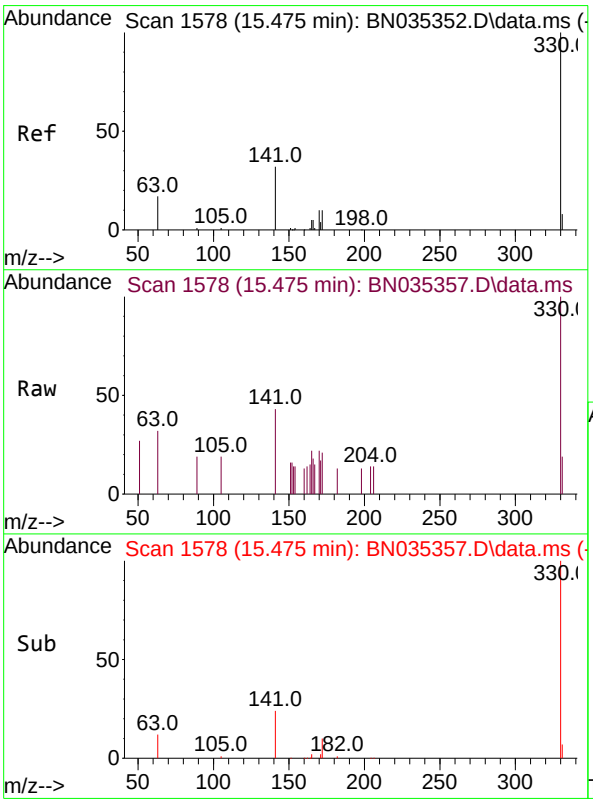
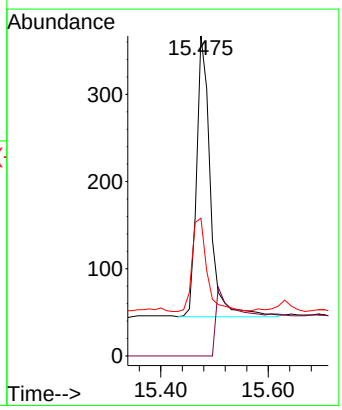
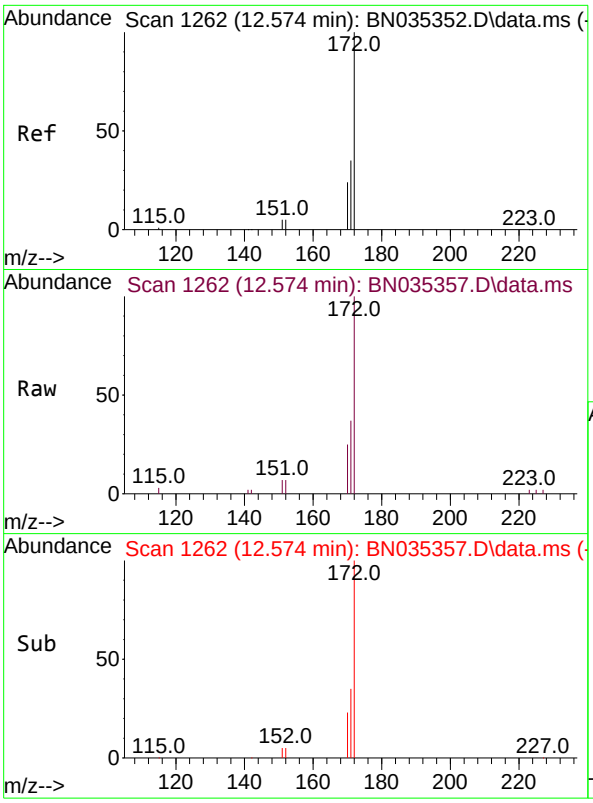


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0

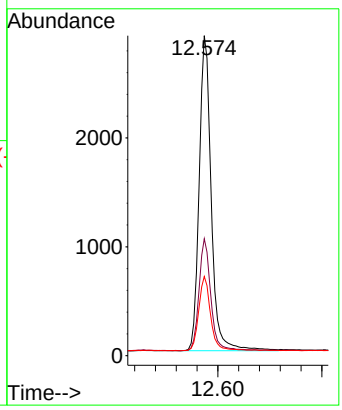




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:172 Resp: 464

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

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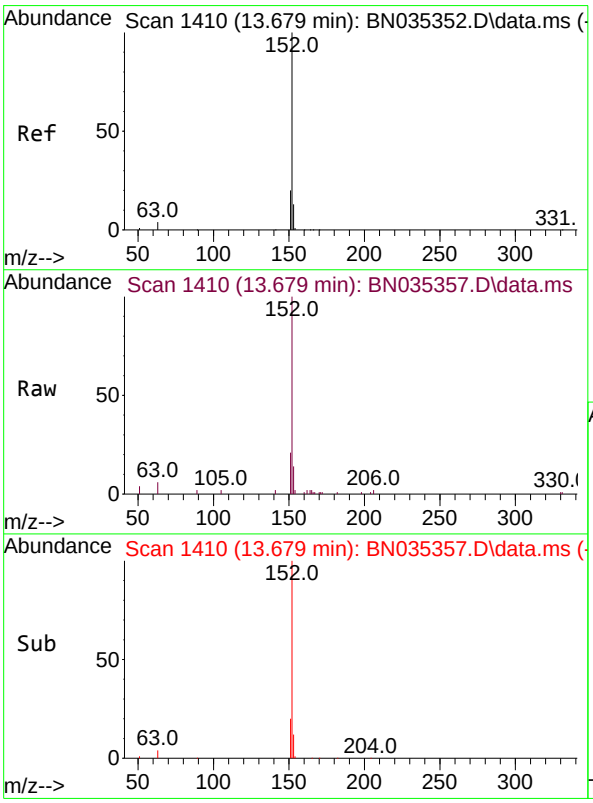
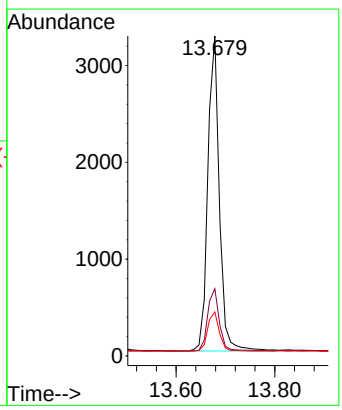
11/29/2024

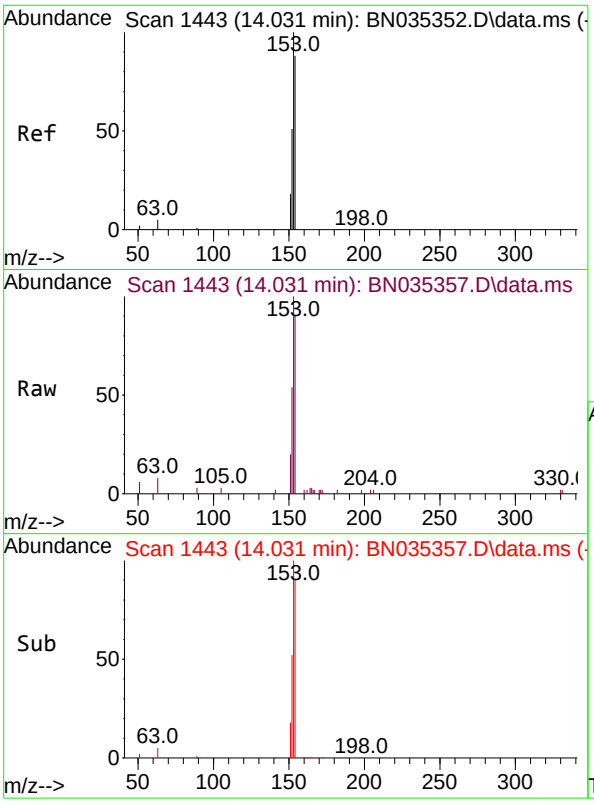


#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.7	10.4	15.6

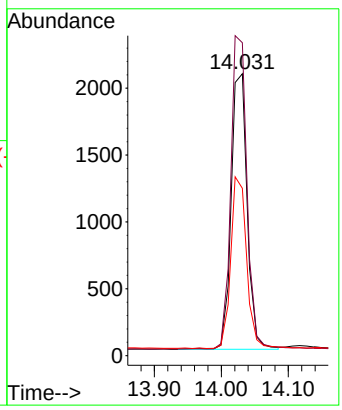




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:154 Resp: 342

Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6



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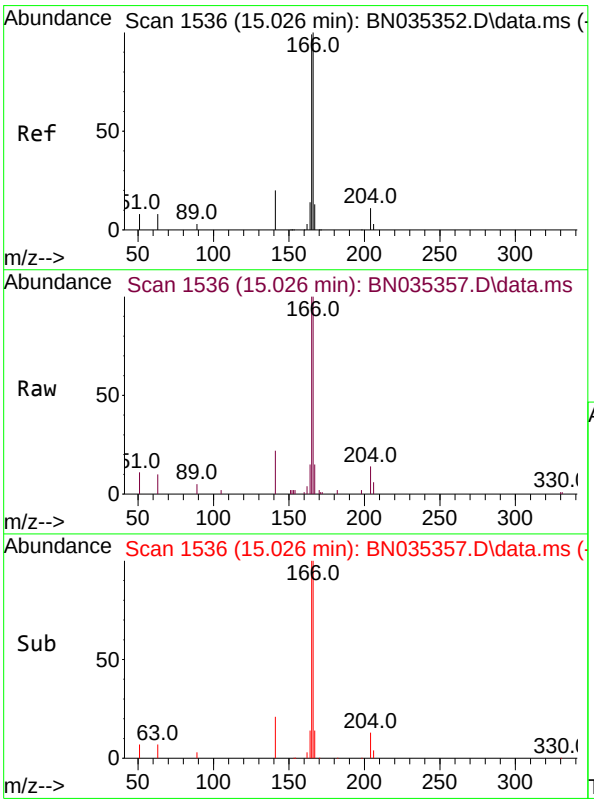
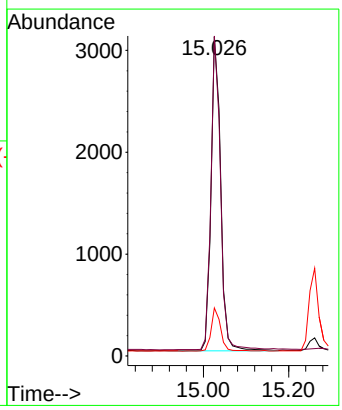
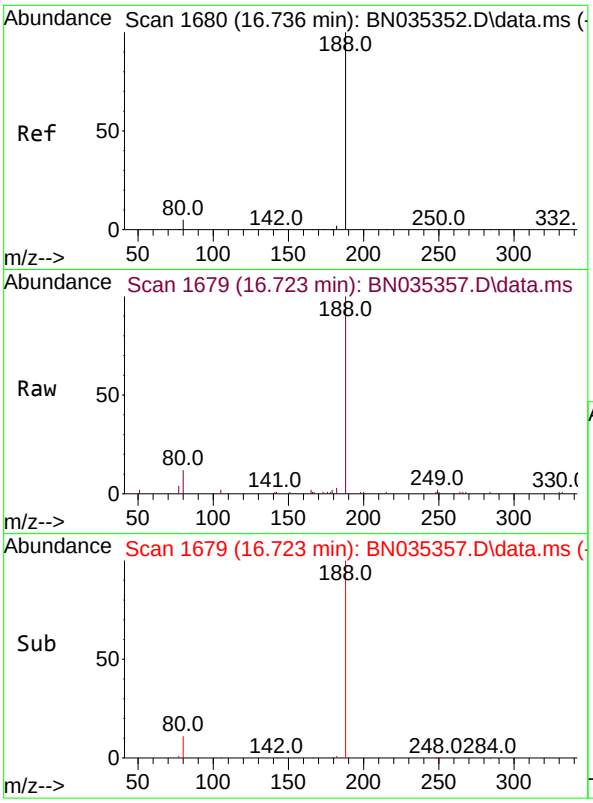


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2

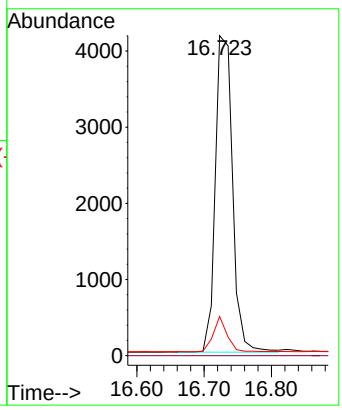




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:188 Resp: 735(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8#



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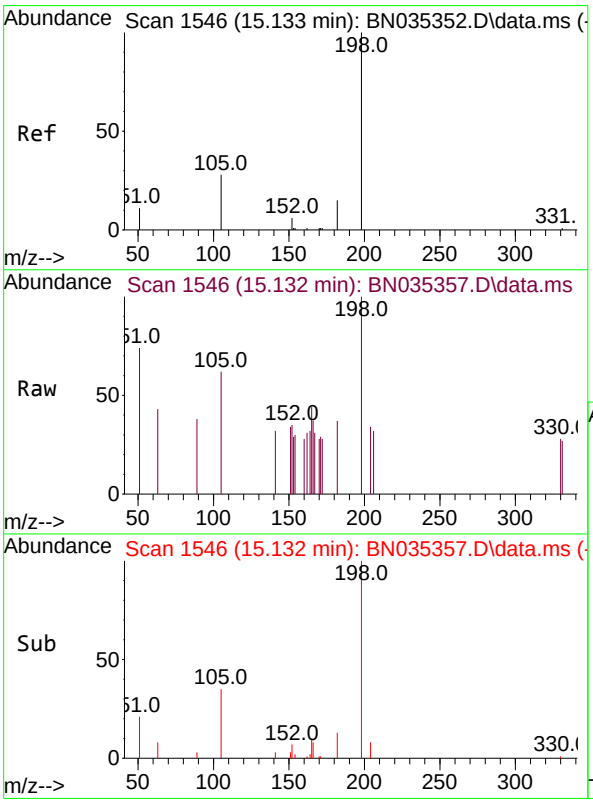
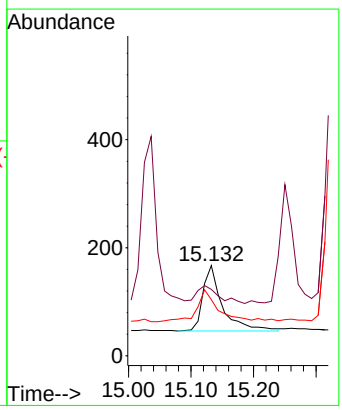
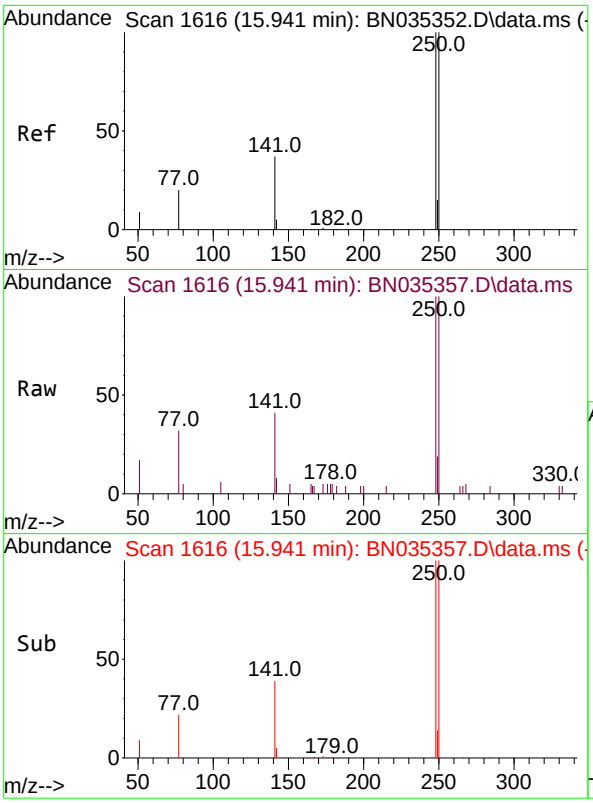


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

Ion	Ratio	Lower	Upper
198	100		
51	73.7	46.5	69.7#
105	62.3	45.3	67.9

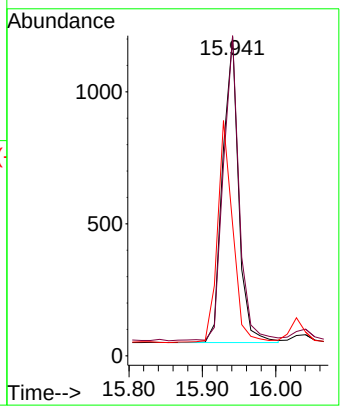




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:248 Resp: 174

Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3



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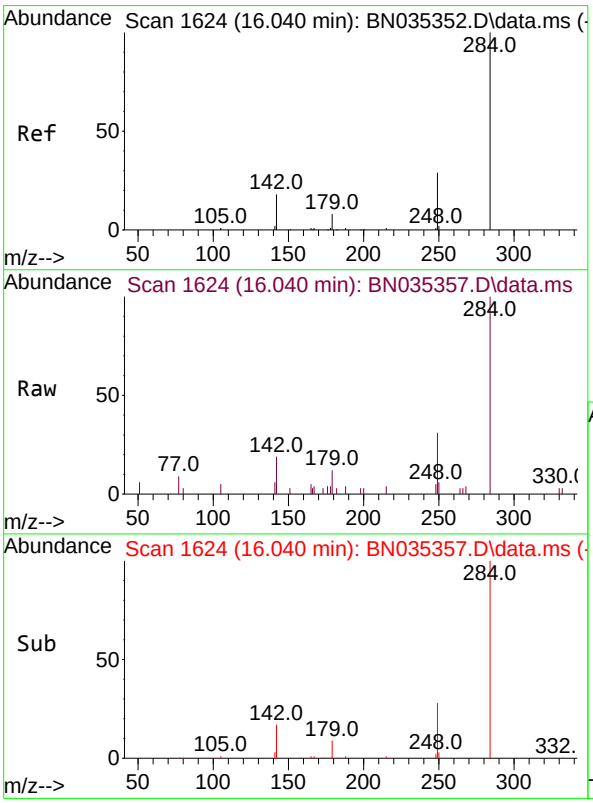
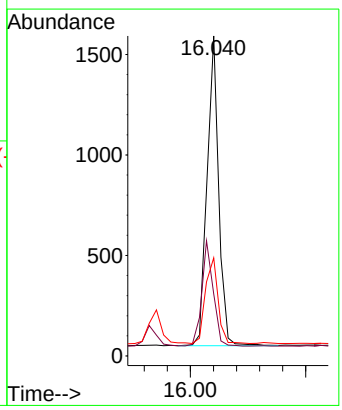
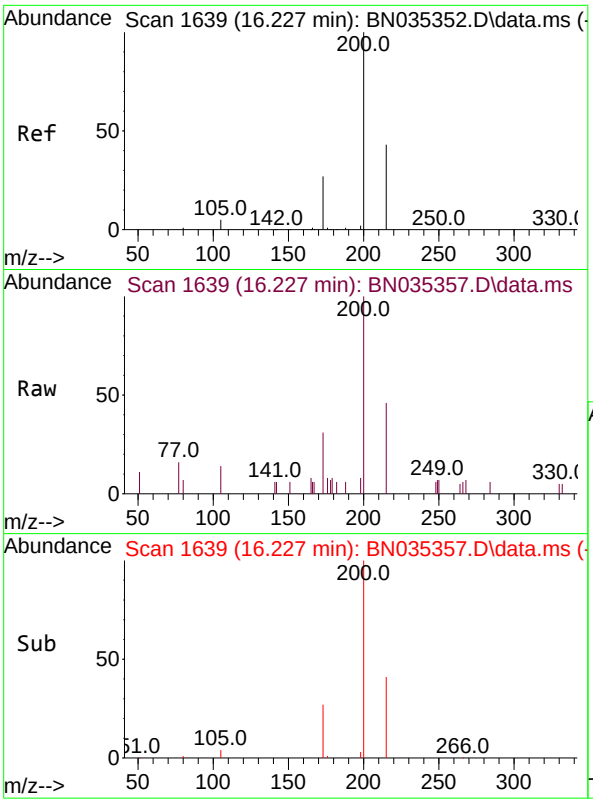


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8

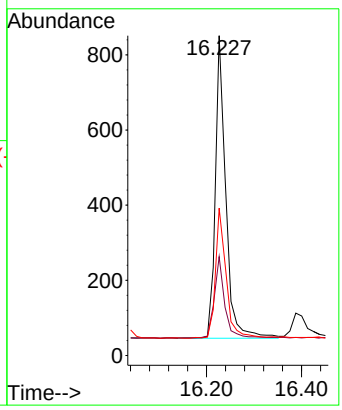




#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:200 Resp: 122

Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3



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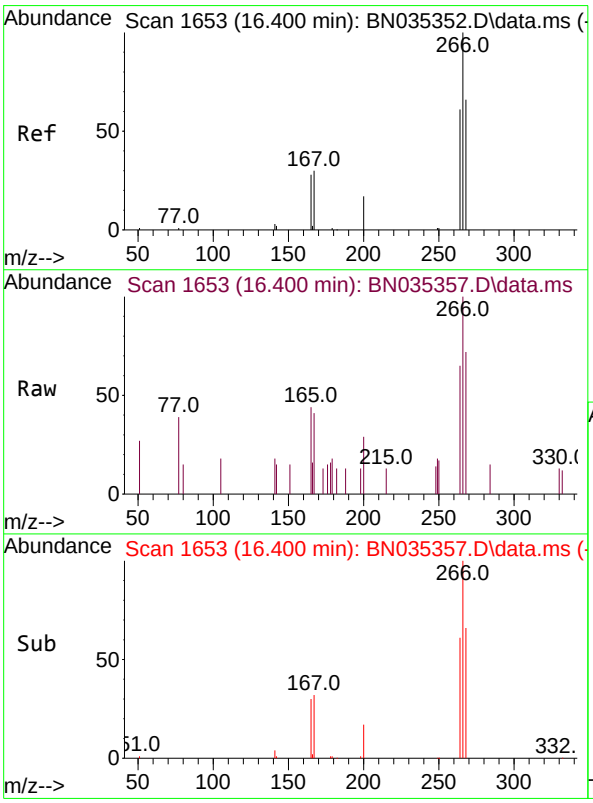
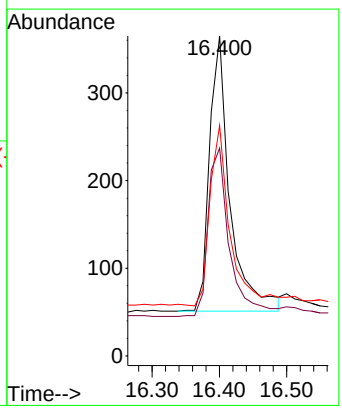
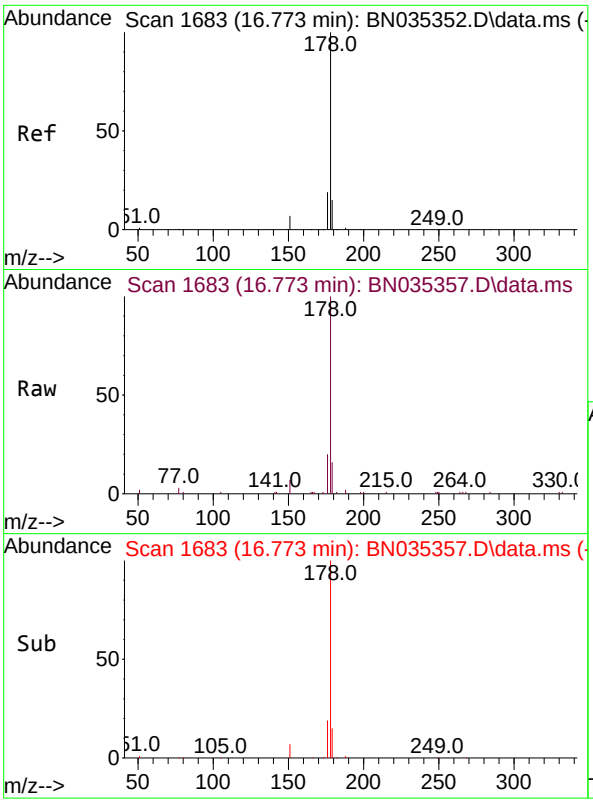


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	65.0	42.3	63.5#
268	66.8	43.3	64.9#

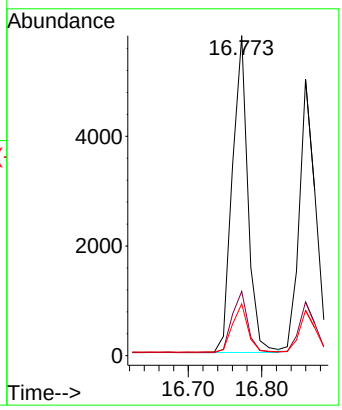




#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 850

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.4	12.3	18.5



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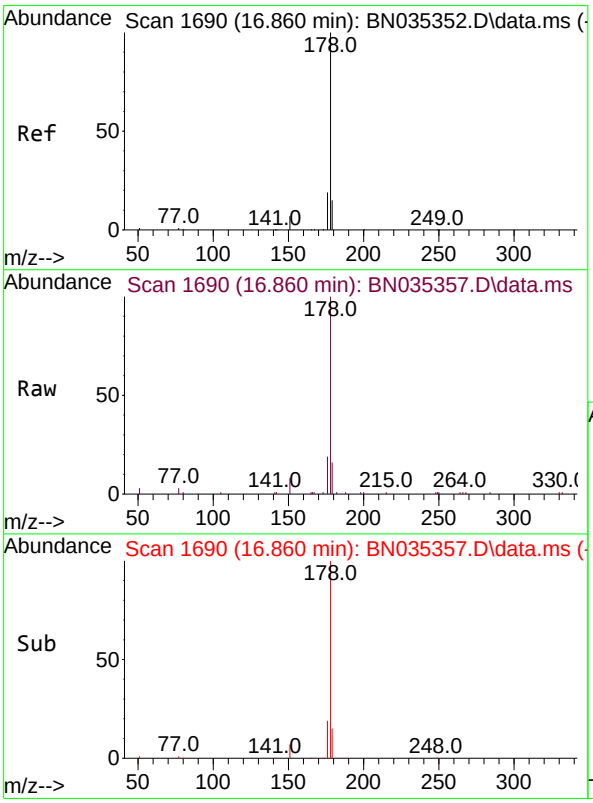
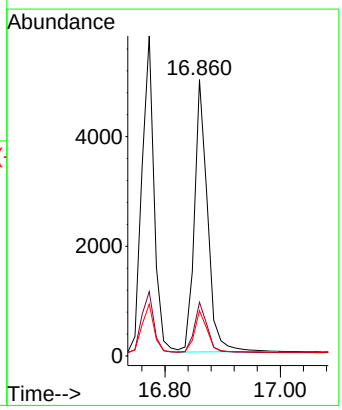
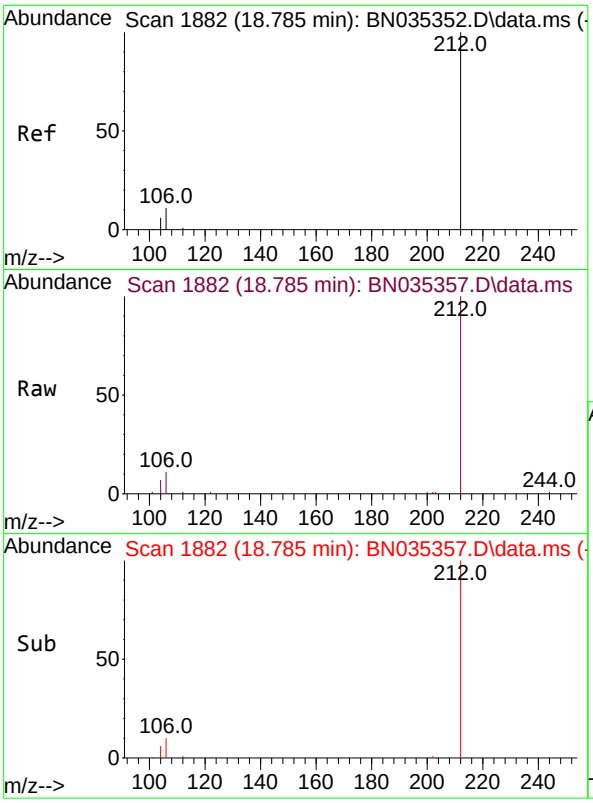


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8

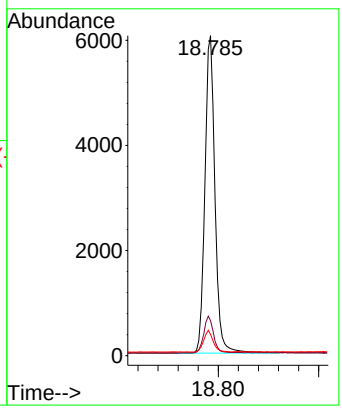




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:212 Resp: 841

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9



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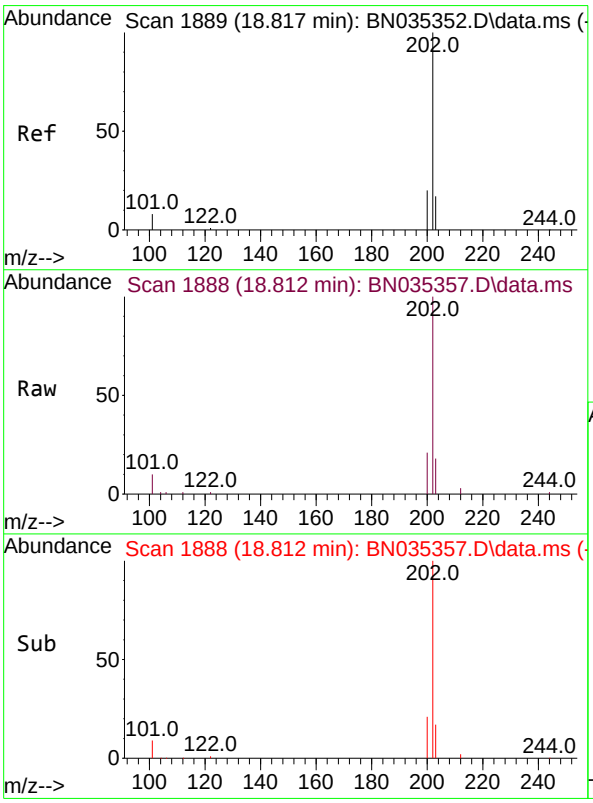
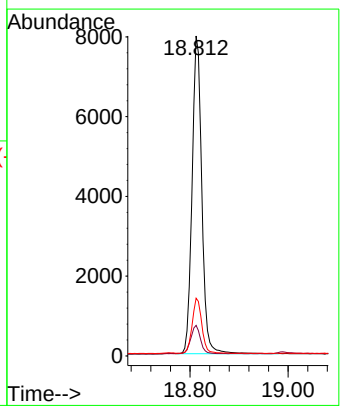
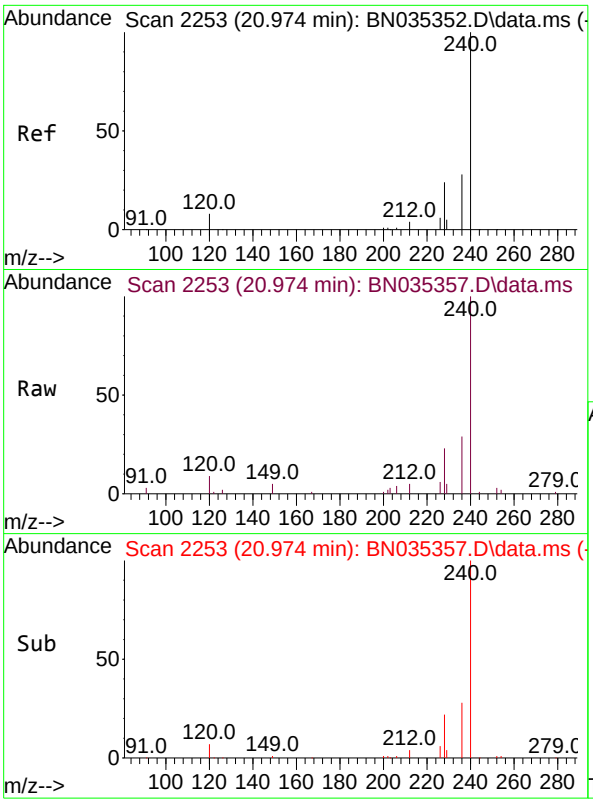


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5

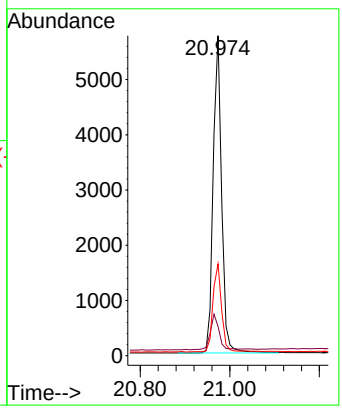




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:240 Resp: 757

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3



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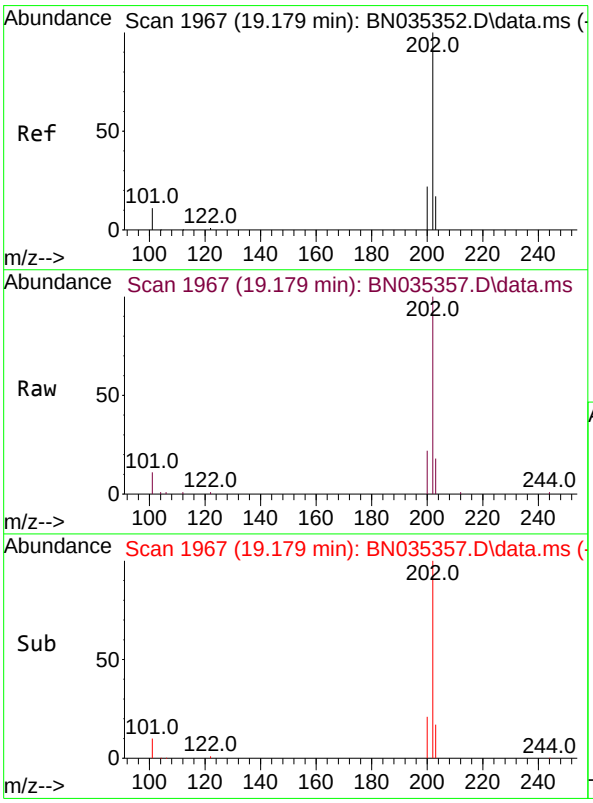
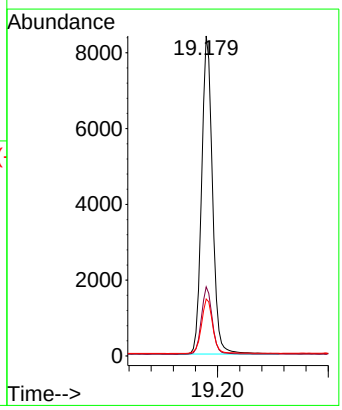
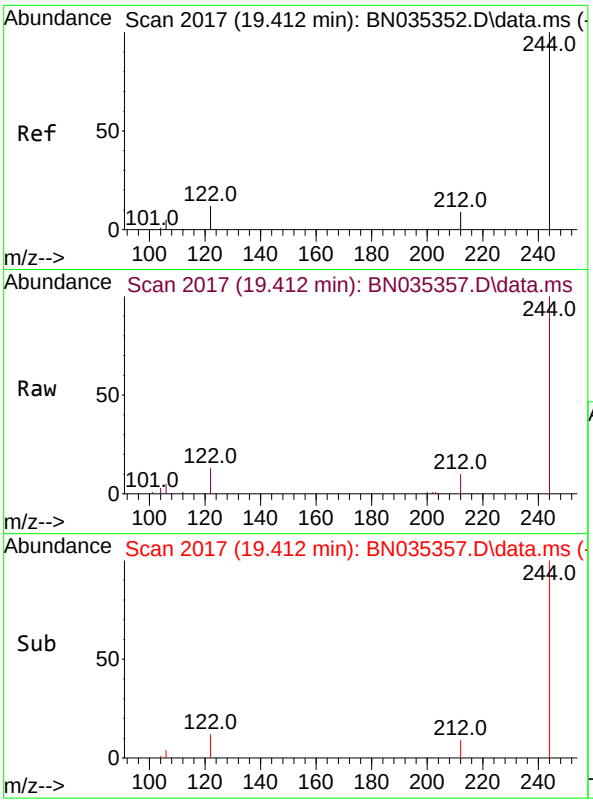


#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5

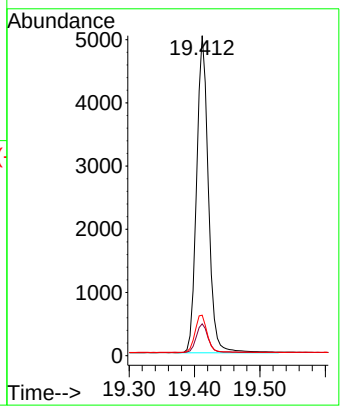




#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:244 Resp: 627

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5



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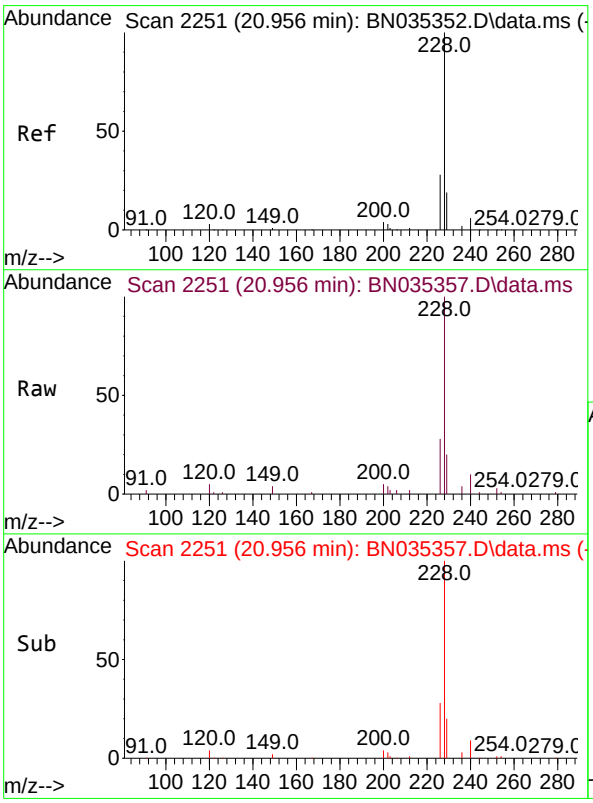
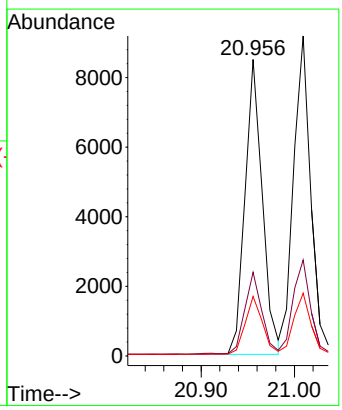
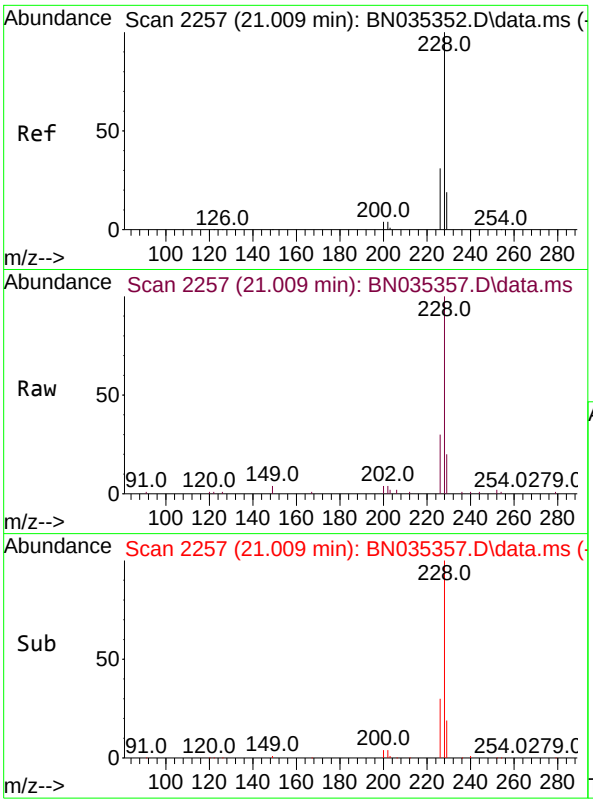


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.1	15.8	23.8

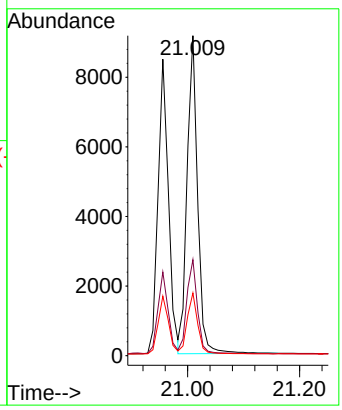




#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 1192

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9



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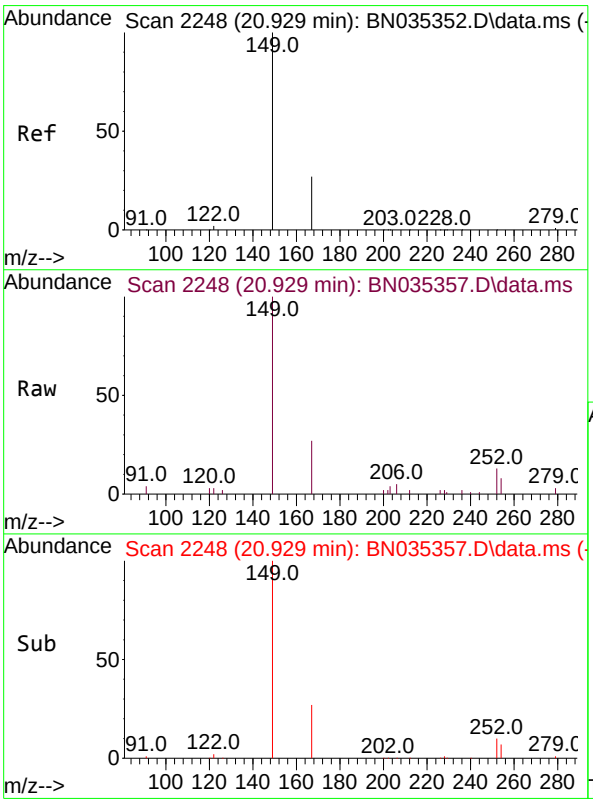
11/29/2024
Supervised By :mohammad ahmed

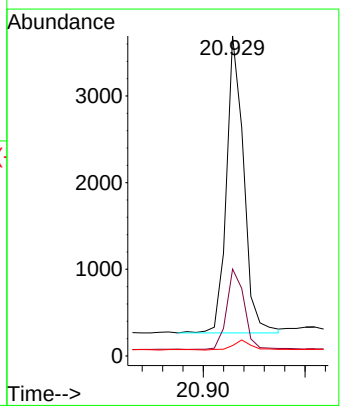
11/29/2024

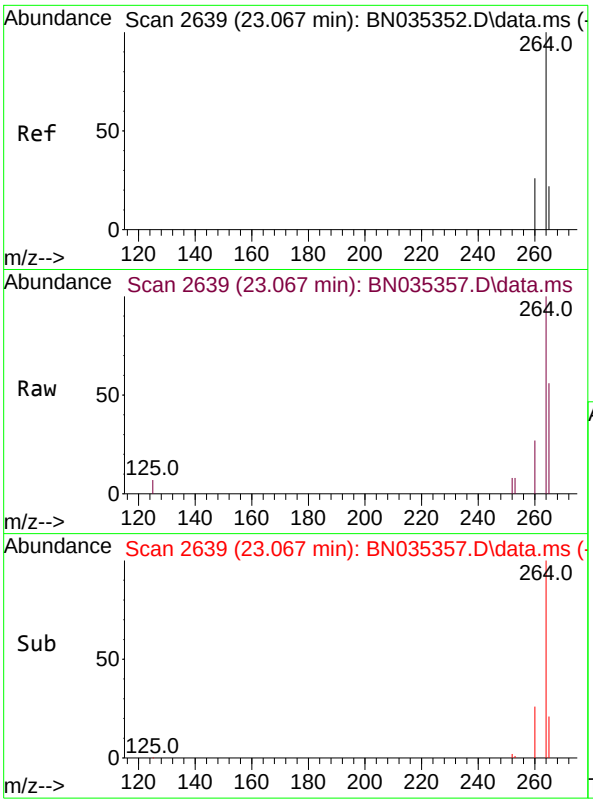


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1

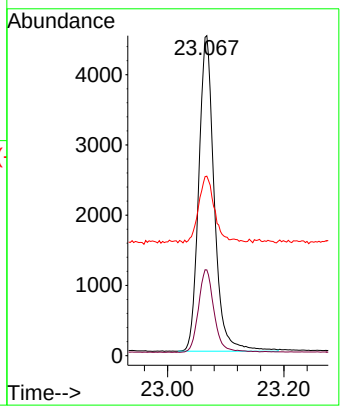




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:264 Resp: 833

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4



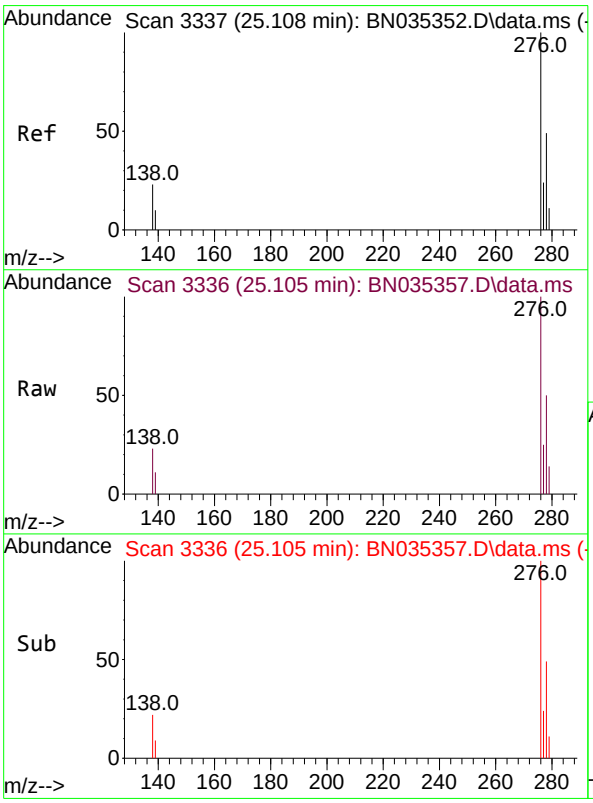
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

11/29/2024
Supervised By :mohammad ahmed

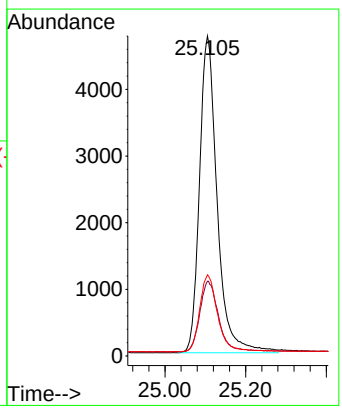
11/29/2024

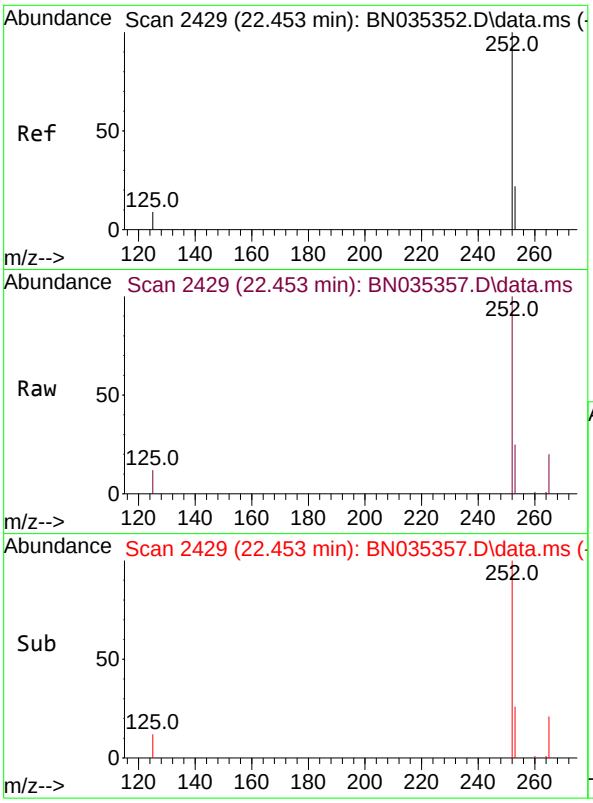


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

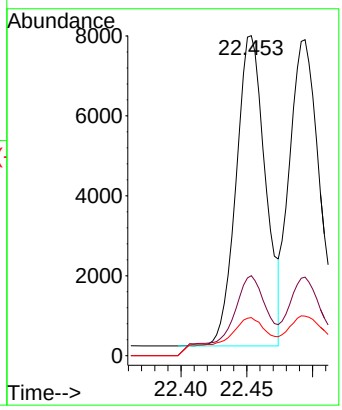
Tgt Ion:252 Resp: 1298

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

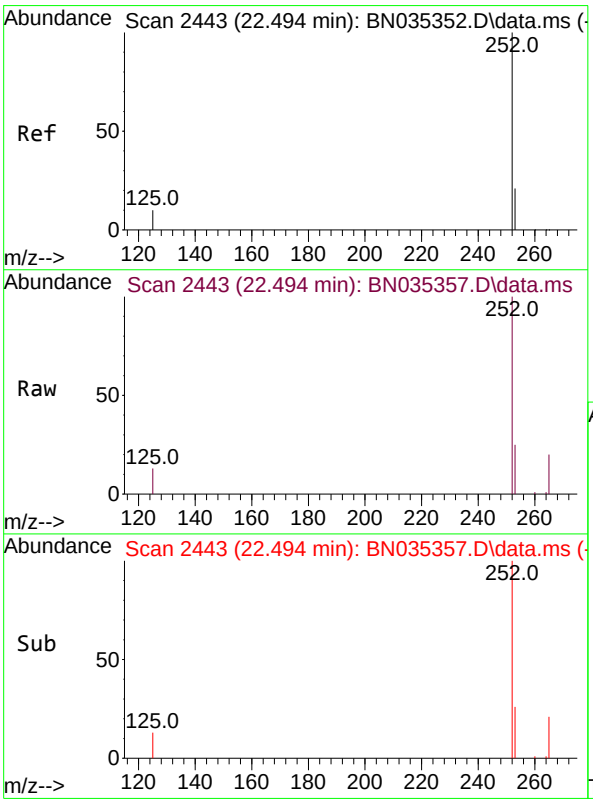
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024



11/29/2024
Supervised By :mohammad ahmed

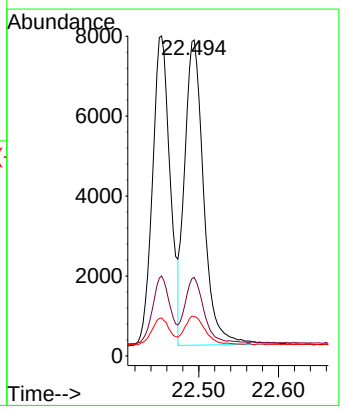
11/29/2024

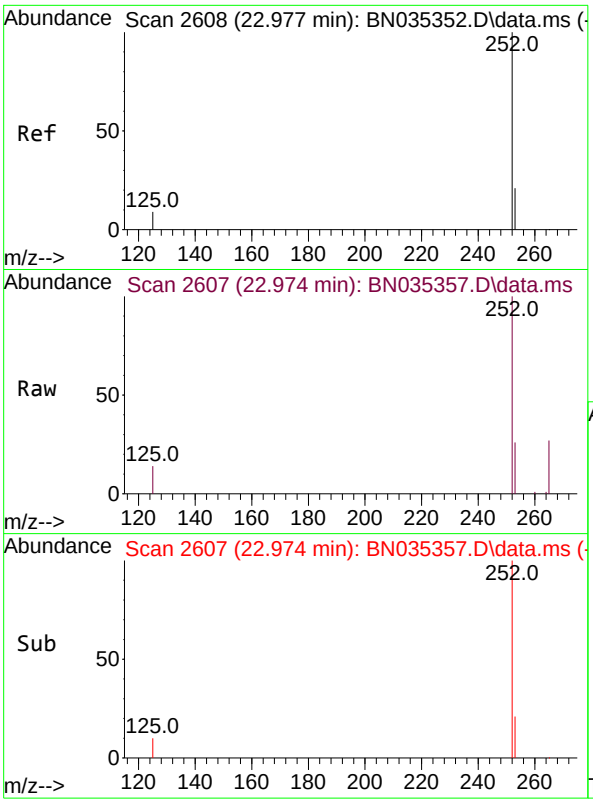


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.5	10.2	15.4

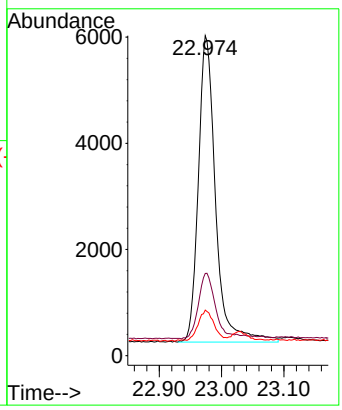




#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 1109

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3



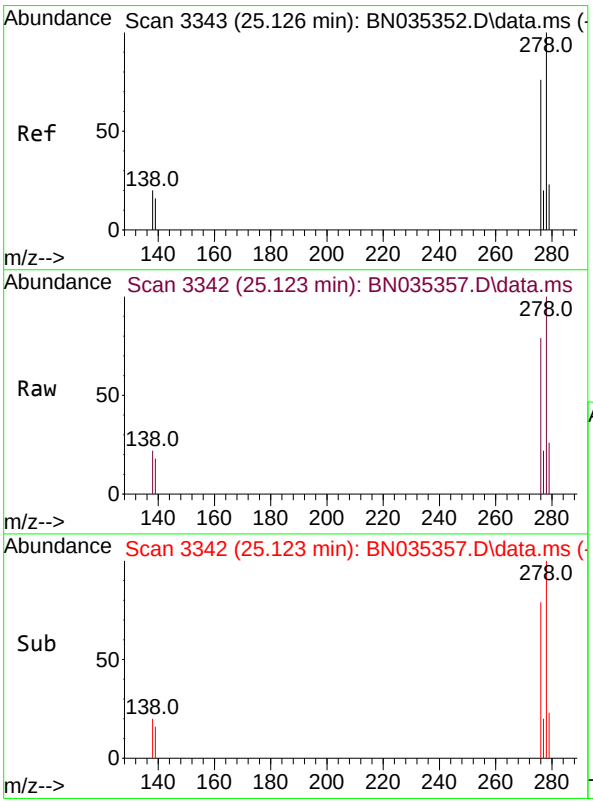
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

11/29/2024
Supervised By :mohammad ahmed

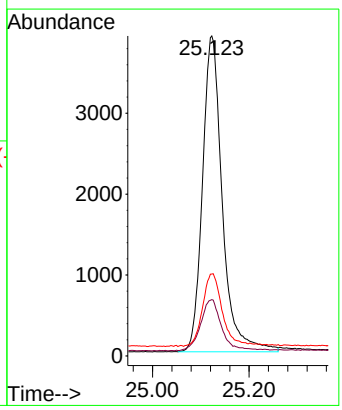
11/29/2024

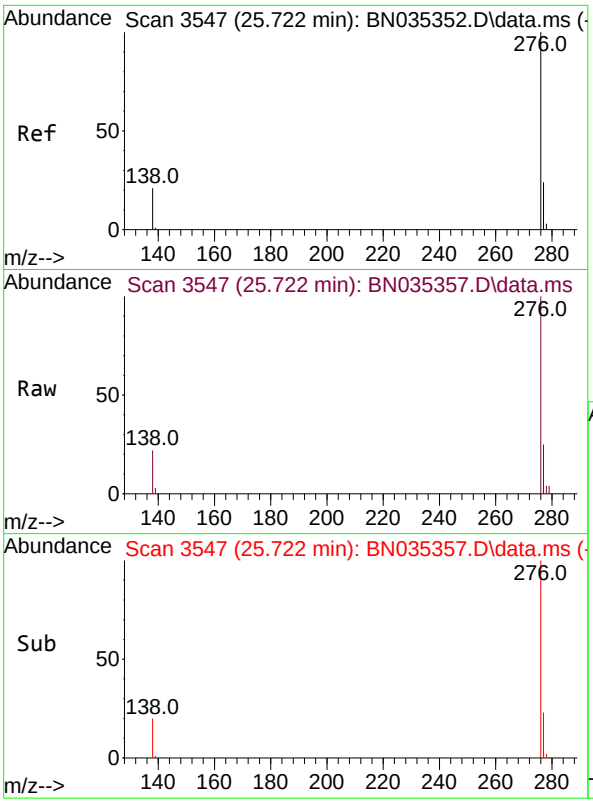


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7

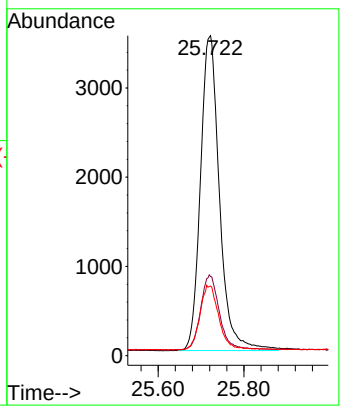




#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 1087

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	21.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

11/29/2024
Supervised By :mohammad ahmed

11/29/2024

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 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	75	0.00
2		1,4-Dioxane	0.382	0.444	-16.2	89	0.00
3		n-Nitrosodimethylamine	0.319	0.321	-0.6	74	0.00
4	S	2-Fluorophenol	1.001	0.831	17.0	61	0.00
5	S	Phenol-d6	1.204	0.933	22.5	59	0.00
6		bis(2-Chloroethyl)ether	1.012	1.088	-7.5	82	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	75	0.00
8	S	Nitrobenzene-d5	0.244	0.240	1.6	76	0.00
9		Naphthalene	1.055	1.118	-6.0	80	0.00
10		Hexachlorobutadiene	0.243	0.257	-5.8	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.626	0.657	-5.0	79	0.00
12		2-Methylnaphthalene	0.755	0.809	-7.2	82	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.284	0.214	24.6	63	0.00
15	S	2-Fluorobiphenyl	1.512	1.614	-6.7	81	0.00
16		Acenaphthylene	1.680	1.827	-8.8	87	0.00
17		Acenaphthene	1.115	1.188	-6.5	83	0.00
18		Fluorene	1.596	1.676	-5.0	82	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.036	7.7	78	0.00
21		4-Bromophenyl-phenylether	0.234	0.237	-1.3	81	0.00
22		Hexachlorobenzene	0.275	0.293	-6.5	83	0.00
23		Atrazine	0.167	0.167	0.0	84	0.00
24		Pentachlorophenol	0.120	0.090	25.0	73	0.00
25		Phenanthrene	1.099	1.158	-5.4	84	0.00
26		Anthracene	0.994	1.068	-7.4	88	0.00
27	SURR	Fluoranthene-d10	1.134	1.145	-1.0	82	0.00
28		Fluoranthene	1.481	1.489	-0.5	81	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	80	0.00
30		Pyrene	1.477	1.515	-2.6	82	0.00
31	S	Terphenyl-d14	0.789	0.828	-4.9	83	0.00
32		Benzo(a)anthracene	1.399	1.443	-3.1	85	0.00
33		Chrysene	1.443	1.574	-9.1	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.530	4.2	82	0.00
35	I	Perylene-d12	1.000	1.000	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.731	-10.7	87	0.00
37		Benzo(b)fluoranthene	1.463	1.558	-6.5	91	0.00
38		Benzo(k)fluoranthene	1.440	1.519	-5.5	83	0.00
39	C	Benzo(a)pyrene	1.205	1.331	-10.5	89	0.00
40		Dibenzo(a,h)anthracene	1.234	1.336	-8.3	86	0.00
41		Benzo(g,h,i)perylene	1.289	1.304	-1.2	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 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	75	0.00
2		1,4-Dioxane	0.400	0.465	-16.3	89	0.00
3		n-Nitrosodimethylamine	0.400	0.404	-1.0	74	0.00
4	S	2-Fluorophenol	0.400	0.332	17.0	61	0.00
5	S	Phenol-d6	0.400	0.310	22.5	59	0.00
6		bis(2-Chloroethyl)ether	0.400	0.430	-7.5	82	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	75	0.00
8	S	Nitrobenzene-d5	0.400	0.393	1.8	76	0.00
9		Naphthalene	0.400	0.424	-6.0	80	0.00
10		Hexachlorobutadiene	0.400	0.423	-5.7	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.420	-5.0	79	0.00
12		2-Methylnaphthalene	0.400	0.428	-7.0	82	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.400	0.302	24.5	63	0.00
15	S	2-Fluorobiphenyl	0.400	0.427	-6.7	81	0.00
16		Acenaphthylene	0.400	0.435	-8.7	87	0.00
17		Acenaphthene	0.400	0.426	-6.5	83	0.00
18		Fluorene	0.400	0.420	-5.0	82	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	77	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	78	0.00
21		4-Bromophenyl-phenylether	0.400	0.405	-1.3	81	0.00
22		Hexachlorobenzene	0.400	0.426	-6.5	83	0.00
23		Atrazine	0.400	0.401	-0.3	84	0.00
24		Pentachlorophenol	0.400	0.301	24.8	73	0.00
25		Phenanthrene	0.400	0.421	-5.2	84	0.00
26		Anthracene	0.400	0.430	-7.5	88	0.00
27	SURR	Fluoranthene-d10	0.400	0.404	-1.0	82	0.00
28		Fluoranthene	0.400	0.402	-0.5	81	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	80	0.00
30		Pyrene	0.400	0.410	-2.5	82	0.00
31	S	Terphenyl-d14	0.400	0.420	-5.0	83	0.00
32		Benzo(a)anthracene	0.400	0.413	-3.2	85	0.00
33		Chrysene	0.400	0.436	-9.0	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.384	4.0	82	0.00
35	I	Perylene-d12	0.400	0.400	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.443	-10.7	87	0.00
37		Benzo(b)fluoranthene	0.400	0.426	-6.5	91	0.00
38		Benzo(k)fluoranthene	0.400	0.422	-5.5	83	0.00
39	C	Benzo(a)pyrene	0.400	0.442	-10.5	89	0.00
40		Dibenzo(a,h)anthracene	0.400	0.433	-8.2	86	0.00
41		Benzo(g,h,i)perylene	0.400	0.404	-1.0	80	0.00

(#) = 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: TETR06

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG No.: P4959

Instrument ID: BNA_N Calibration Date/Time: 11/25/2024 23:02

Lab File ID: BN035293.D Init. Calib. Date(s): 11/25/2024 11/25/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 10:16 13:52

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.560	0.590		5.4	20.0
Fluoranthene-d10	1.070	0.923		-13.7	20.0
2-Fluorophenol	0.756	0.976		29.1	20.0
Phenol-d6	1.056	1.259		19.2	20.0
Nitrobenzene-d5	0.324	0.198		-38.9	20.0
2-Fluorobiphenyl	0.221	0.145		-34.4	20.0
2,4,6-Tribromophenol	0.204	0.212		3.9	20.0
Terphenyl-d14	7.392	8.364		13.1	20.0
1,4-Dioxane	0.288	0.361		25.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035293.D
Acq On : 25 Nov 2024 23:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

Quant Time: Nov 26 02:53:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.315	152	3724	0.400	ng		0.00
7) Naphthalene-d8	10.063	136	9273	0.400	ng	#	0.00
13) Acenaphthene-d10	13.973	164	5865	0.400	ng	#	0.00
19) Phenanthrene-d10	16.741	188	12563	0.400	ng	#	0.00
29) Chrysene-d12	21.006	240	932	0.400	ng	#	0.00
35) Perylene-d12	23.078	264	7119	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	3633	0.516	ng		0.00
5) Phenol-d6	6.513	99	4690	0.477	ng		0.00
8) Nitrobenzene-d5	8.450	82	1837m	0.244	ng		0.00
11) 2-Methylnaphthalene-d10	11.663	152	5475	0.422	ng		0.00
14) 2,4,6-Tribromophenol	15.480	330	1245	0.416	ng		0.00
15) 2-Fluorobiphenyl	12.604	172	851	0.263	ng		0.00
27) Fluoranthene-d10	18.790	212	11601	0.345	ng		0.00
31) Terphenyl-d14	19.422	244	7795	0.453	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	1344	0.502	ng	#	72
3) n-Nitrosodimethylamine	3.299	42	1095	0.395	ng	#	72
6) bis(2-Chloroethyl)ether	6.766	93	3610	0.436	ng		98
9) Naphthalene	10.105	128	9911	0.385	ng		100
10) Hexachlorobutadiene	10.404	225	2320	0.321	ng	#	100
12) 2-Methylnaphthalene	11.742	142	6764	0.402	ng		98
16) Acenaphthylene	13.684	152	9720	0.329	ng		99
17) Acenaphthene	14.037	154	6539	0.352	ng	#	85
18) Fluorene	15.031	166	8779	0.337	ng		98
20) 4,6-Dinitro-2-methylph...	15.127	198	368	0.392	ng		96
21) 4-Bromophenyl-phenylether	15.946	248	3083	0.387	ng	#	78
22) Hexachlorobenzene	16.046	284	3763	0.330	ng		99
23) Atrazine	16.232	200	1428	0.425	ng		99
24) Pentachlorophenol	16.393	266	1142	0.417	ng		98
25) Phenanthrene	16.778	178	13726	0.356	ng		100
26) Anthracene	16.865	178	11907	0.359	ng		100
28) Fluoranthene	18.822	202	15419	0.317	ng		100
30) Pyrene	19.189	202	14952	0.441	ng		100
32) Benzo(a)anthracene	21.015	228	11234	0.346	ng		99
33) Chrysene	21.015	228	11234	0.346	ng		99
34) Bis(2-ethylhexyl)phtha...	21.006	149	416	0.233	ng	#	64
36) Indeno(1,2,3-cd)pyrene	25.119	276	11225	0.385	ng		99
37) Benzo(b)fluoranthene	22.464	252	9762	0.316	ng		98
38) Benzo(k)fluoranthene	22.505	252	10556	0.323	ng		98
39) Benzo(a)pyrene	22.991	252	8259	0.349	ng		97
40) Dibenzo(a,h)anthracene	25.140	278	8482	0.385	ng		96
41) Benzo(g,h,i)perylene	25.742	276	9609	0.377	ng		97

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

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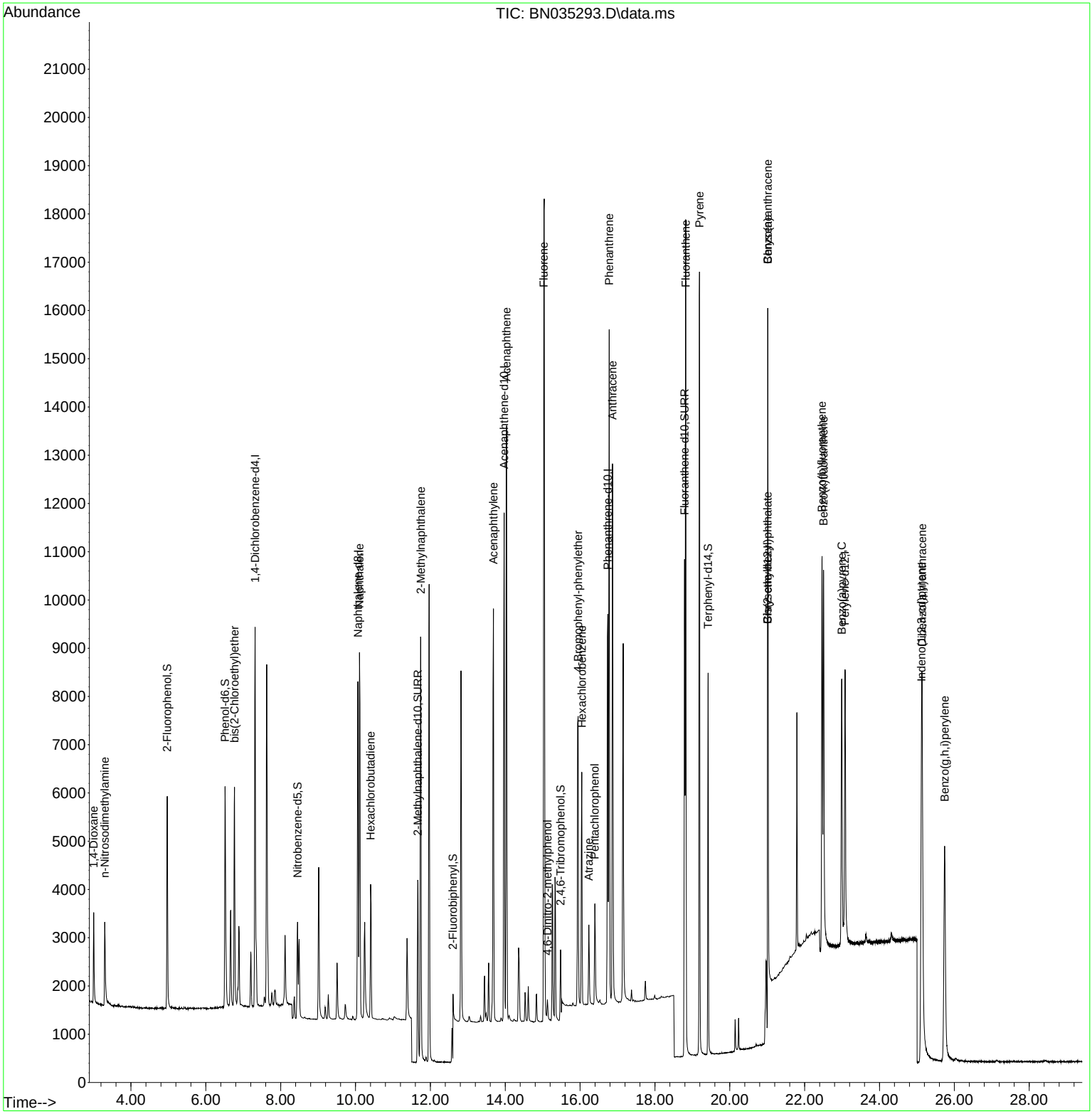
Data File : BN035293.D
Acq On : 25 Nov 2024 23:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

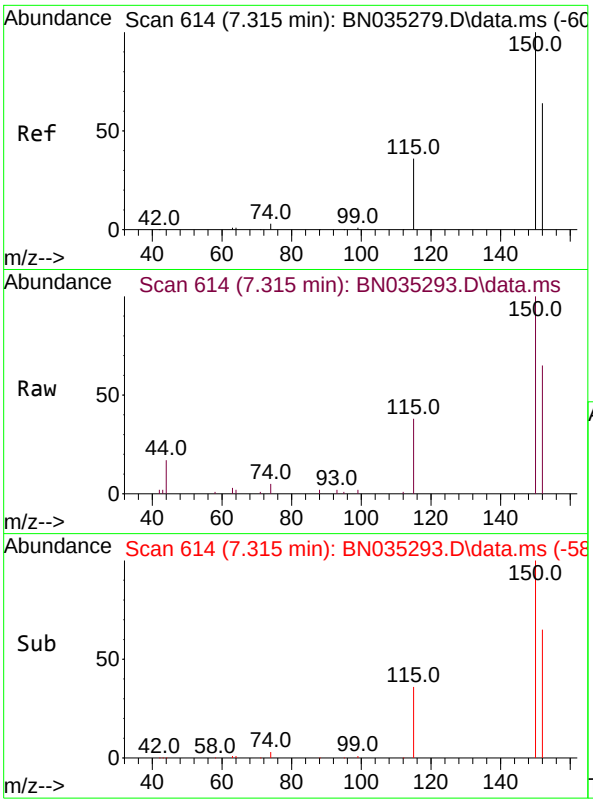
Quant Time: Nov 26 02:53:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

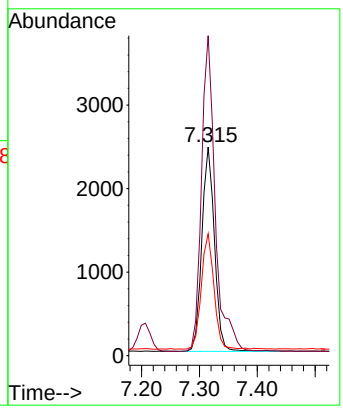




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:152 Resp: 372

Ion	Ratio	Lower	Upper
152	100		
150	153.4	124.5	186.7
115	58.4	47.8	71.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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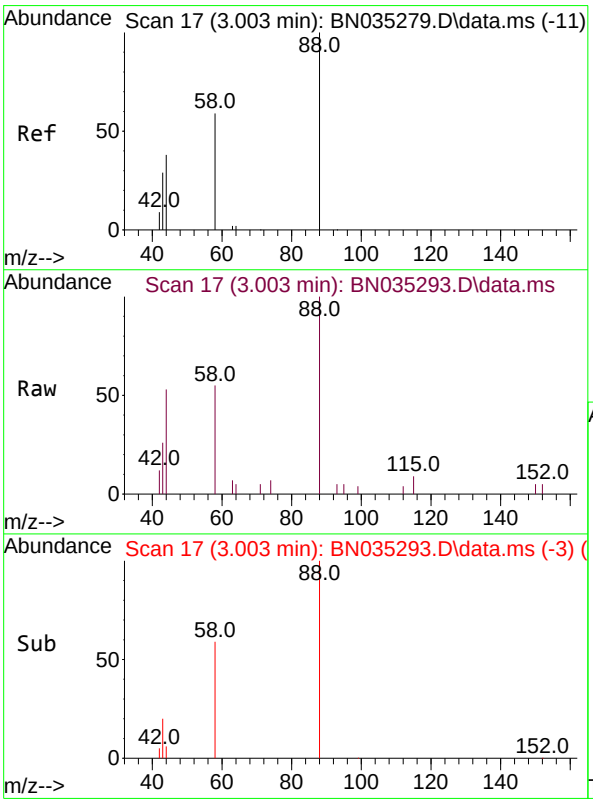
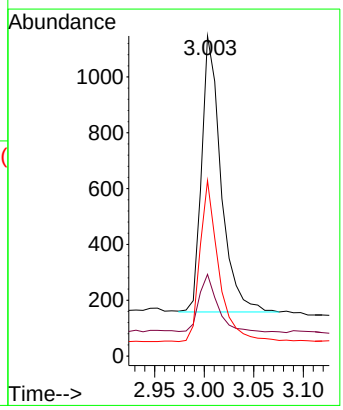
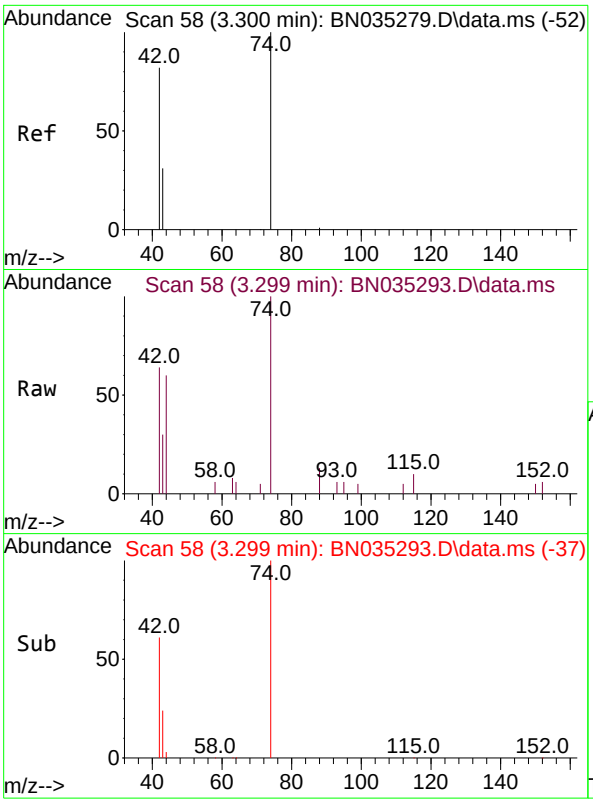


#2
1,4-Dioxane
Concen: 0.502 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion: 88 Resp: 1344

Ion	Ratio	Lower	Upper
88	100		
43	19.7	48.1	72.1#
58	56.6	46.9	70.3

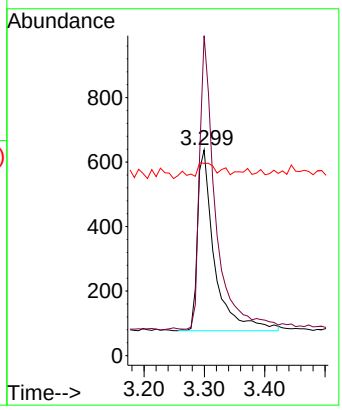




#3
n-Nitrosodimethylamine
Concen: 0.395 ng
RT: 3.299 min Scan# 5
Delta R.T. -0.001 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion: 42 Resp: 109

Ion	Ratio	Lower	Upper
42	100		
74	151.0	102.7	154.1
44	9.1	34.1	51.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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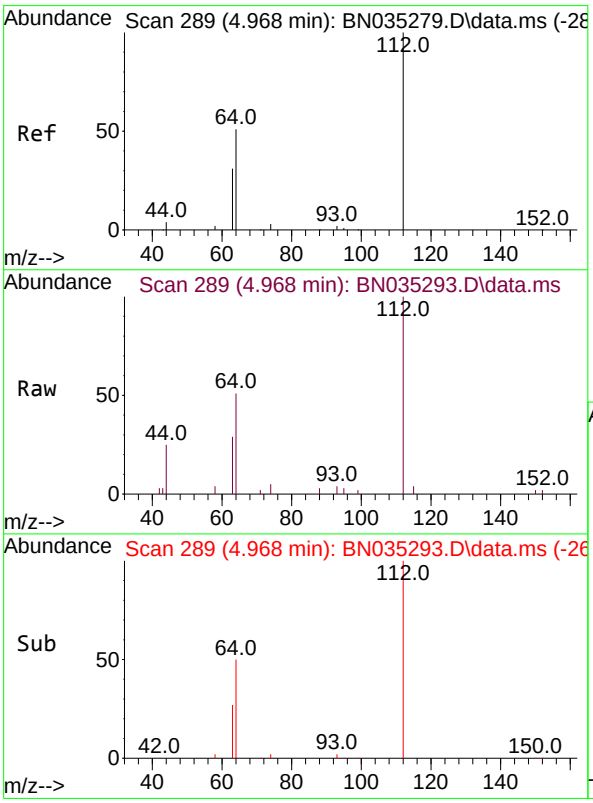
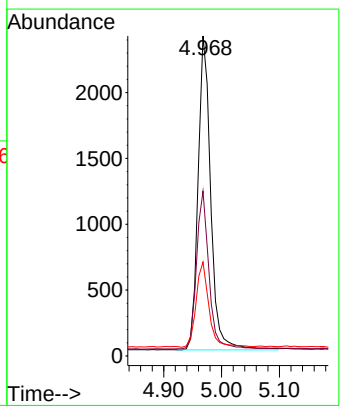
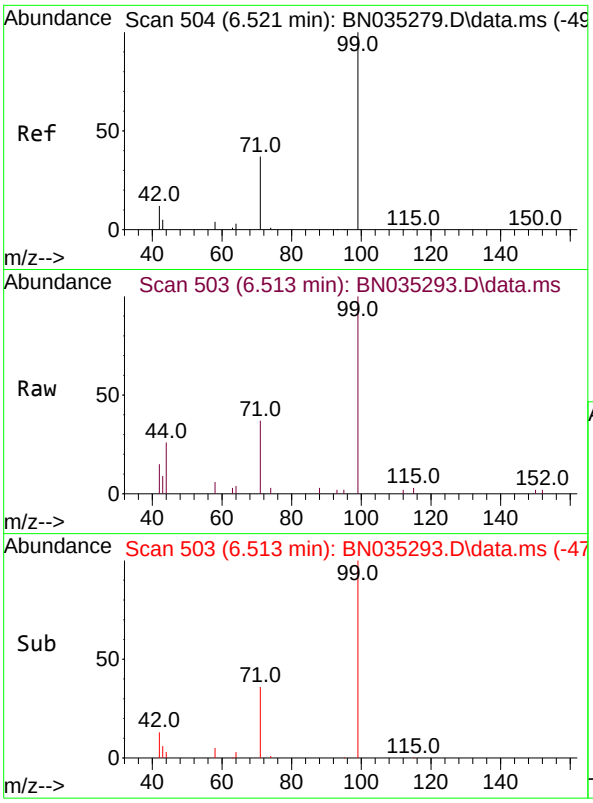


#4
2-Fluorophenol
Concen: 0.516 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:112 Resp: 3633

Ion	Ratio	Lower	Upper
112	100		
64	49.6	40.4	60.6
63	27.7	23.8	35.8

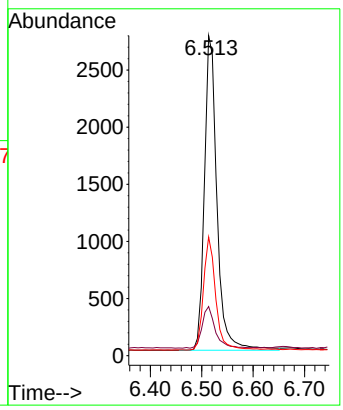




#5
Phenol-d6
Concen: 0.477 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.007 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion: 99 Resp: 469(

Ion	Ratio	Lower	Upper
99	100		
42	13.7	12.8	19.2
71	35.0	31.4	47.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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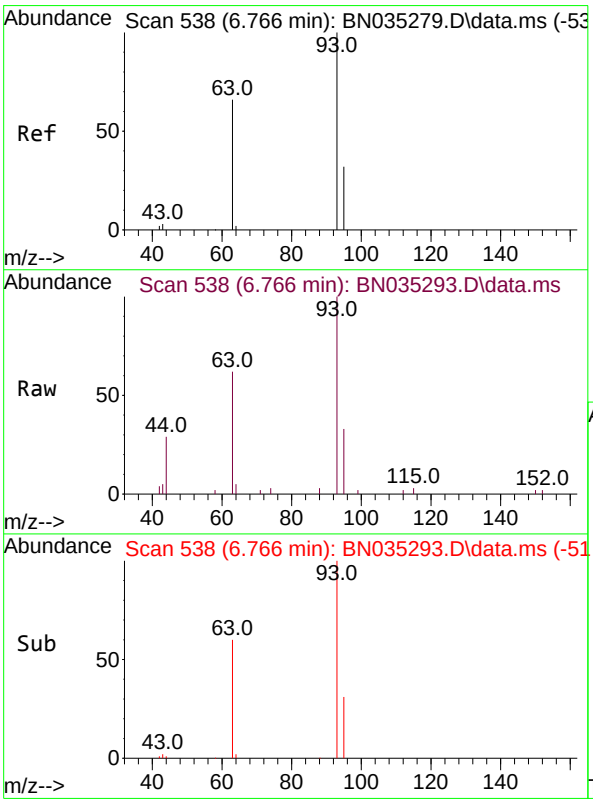
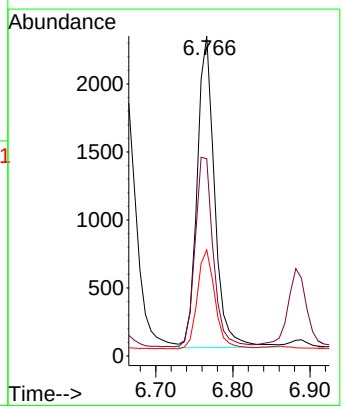
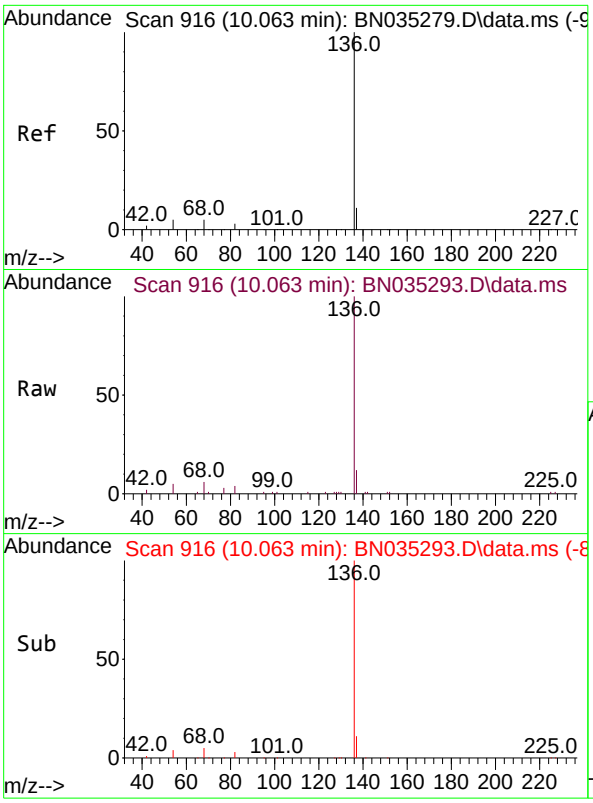


#6
bis(2-Chloroethyl)ether
Concen: 0.436 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion: 93 Resp: 3610

Ion	Ratio	Lower	Upper
93	100		
63	63.1	52.3	78.5
95	31.8	25.5	38.3

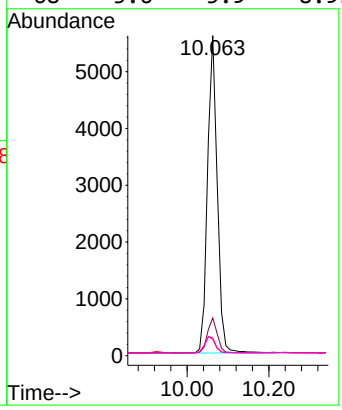




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:136 Resp: 927

Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.7	14.5
54	5.2	5.3	7.9#
68	5.6	5.9	8.9#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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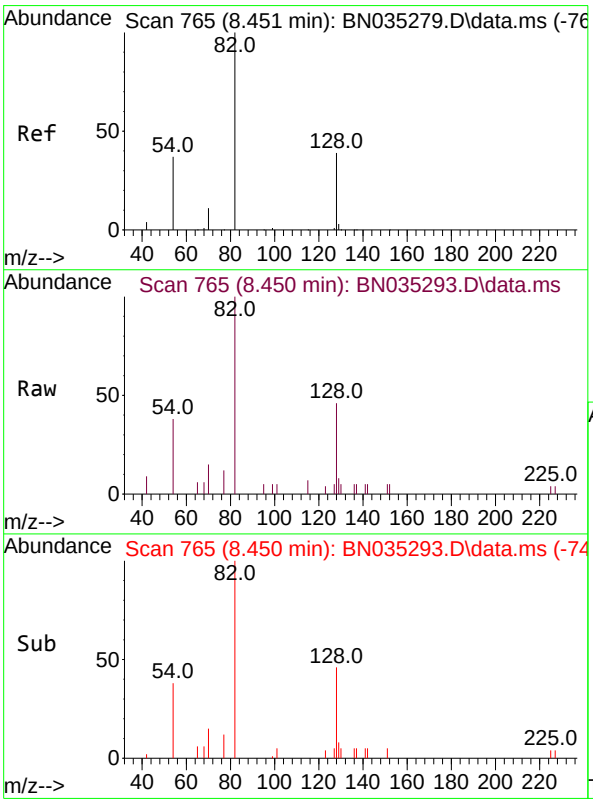
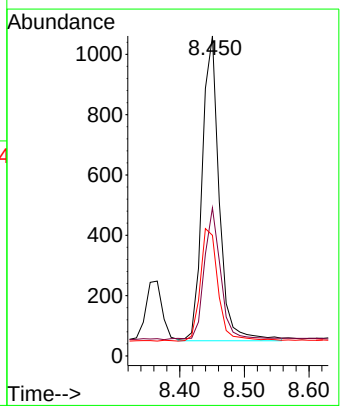
Supervised By :mohammad ahmed 11/27/2024

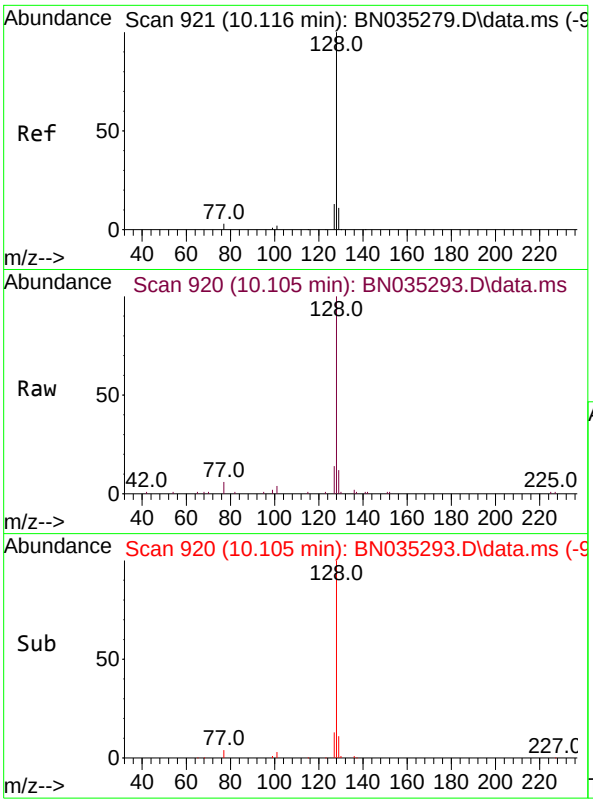


#8
Nitrobenzene-d5
Concen: 0.244 ng m
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion: 82 Resp: 1837

Ion	Ratio	Lower	Upper
82	100		
128	46.3	33.0	49.4
54	37.7	33.3	49.9

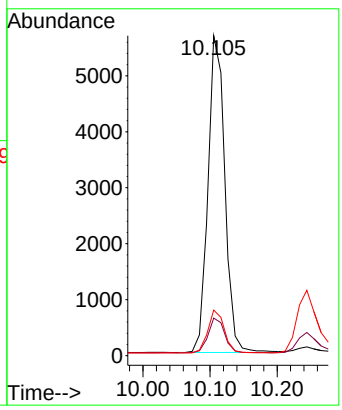




#9
Naphthalene
Concen: 0.385 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:128 Resp: 991

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.6	14.4
127	14.2	11.3	16.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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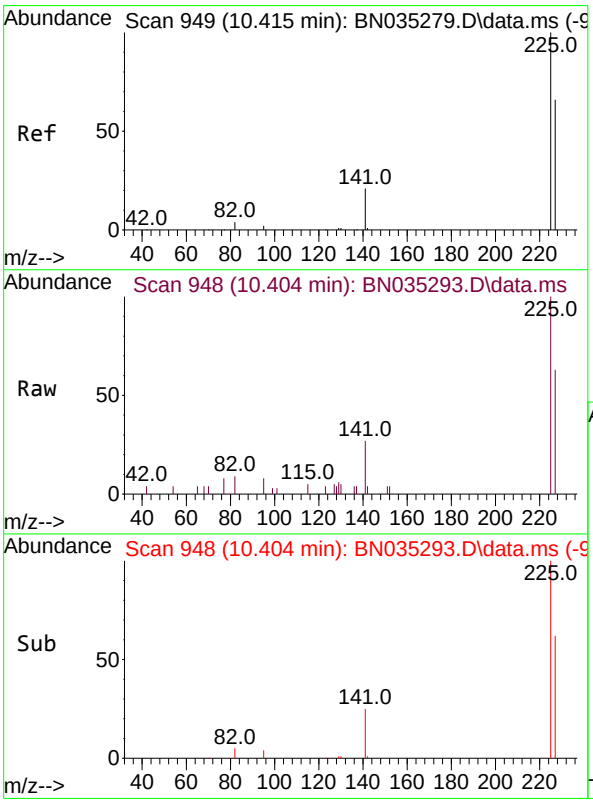
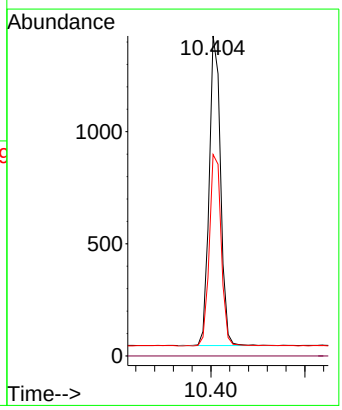
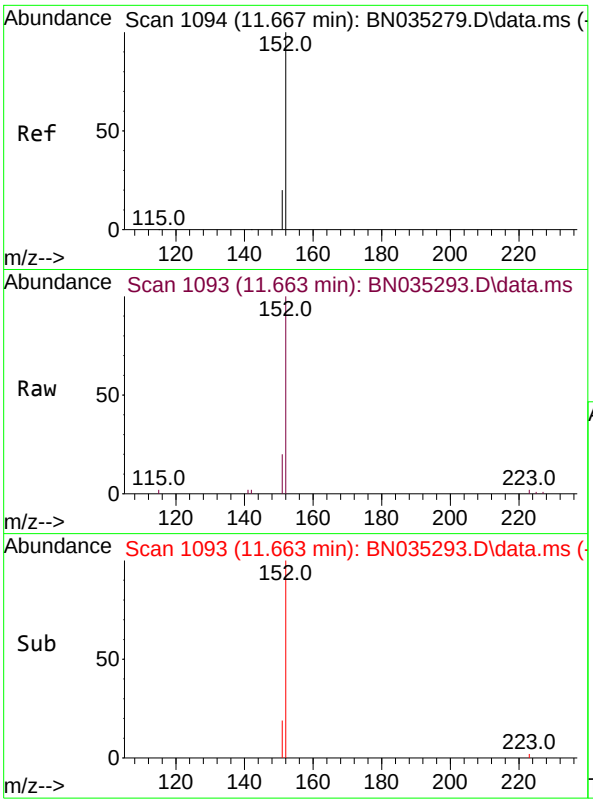


#10
Hexachlorobutadiene
Concen: 0.321 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:225 Resp: 2320

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.422 ng
RT: 11.663 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:152 Resp: 547

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.2	25.8

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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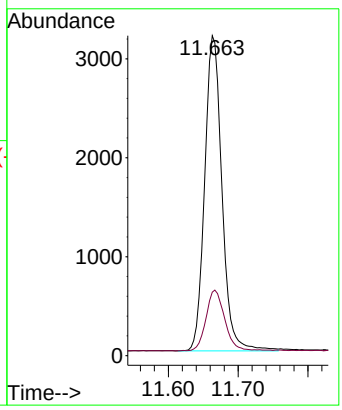
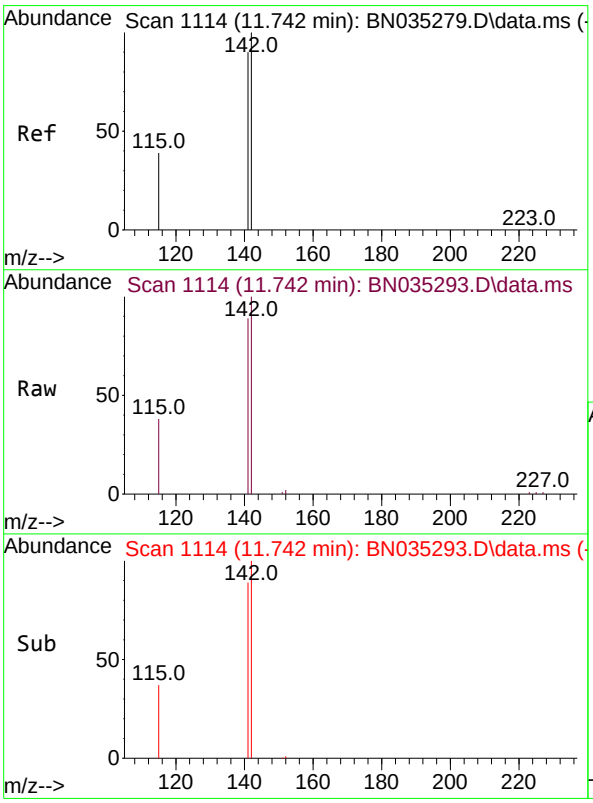
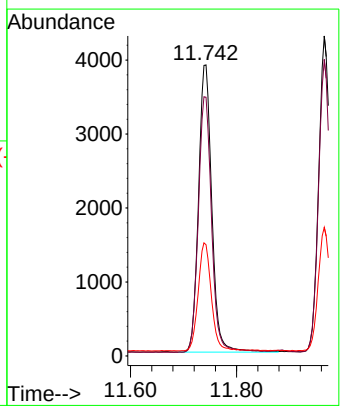


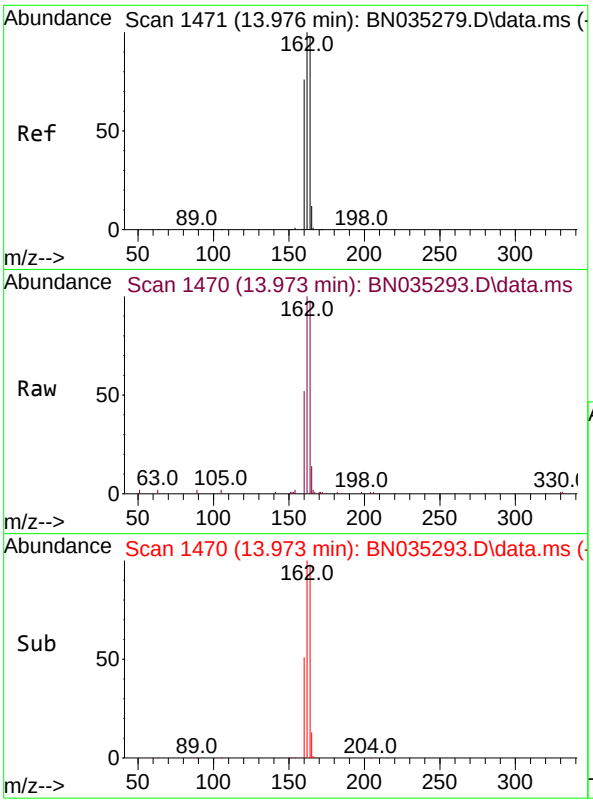


#12
2-Methylnaphthalene
Concen: 0.402 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:142 Resp: 6764

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.8	107.8
115	38.2	32.6	49.0

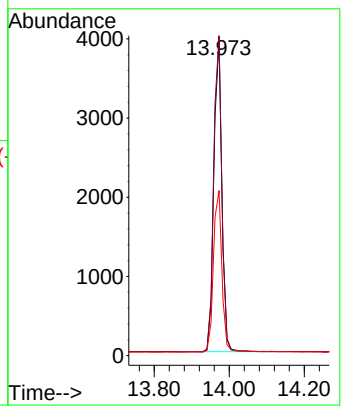




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.973 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:164 Resp: 586

Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.0	123.0
160	52.4	63.0	94.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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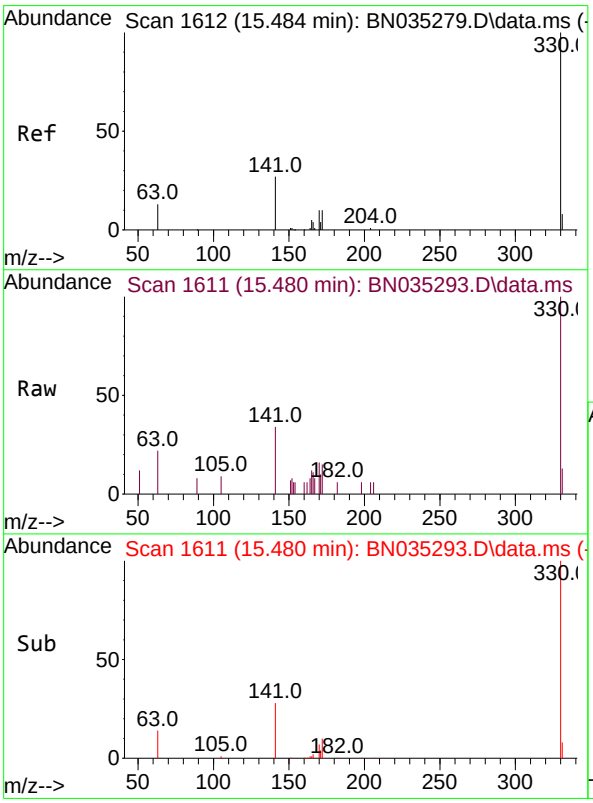
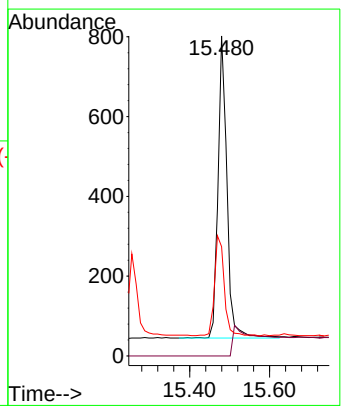
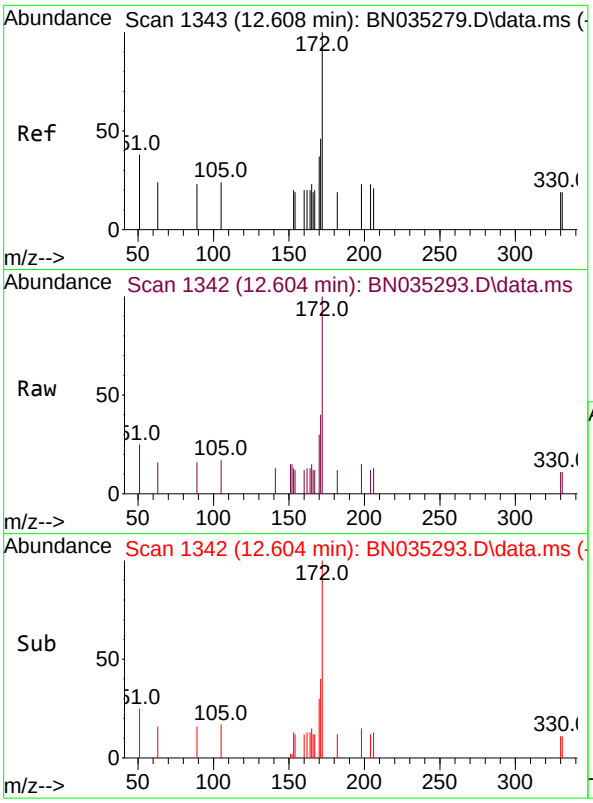


#14
2,4,6-Tribromophenol
Concen: 0.416 ng
RT: 15.480 min Scan# 1611
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:330 Resp: 1245

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	36.1	32.4	48.6

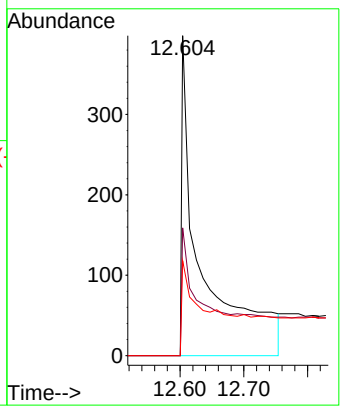




#15
2-Fluorobiphenyl
Concen: 0.263 ng
RT: 12.604 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:172 Resp: 85

Ion	Ratio	Lower	Upper
172	100		
171	39.9	36.6	55.0
170	29.6	29.7	44.5#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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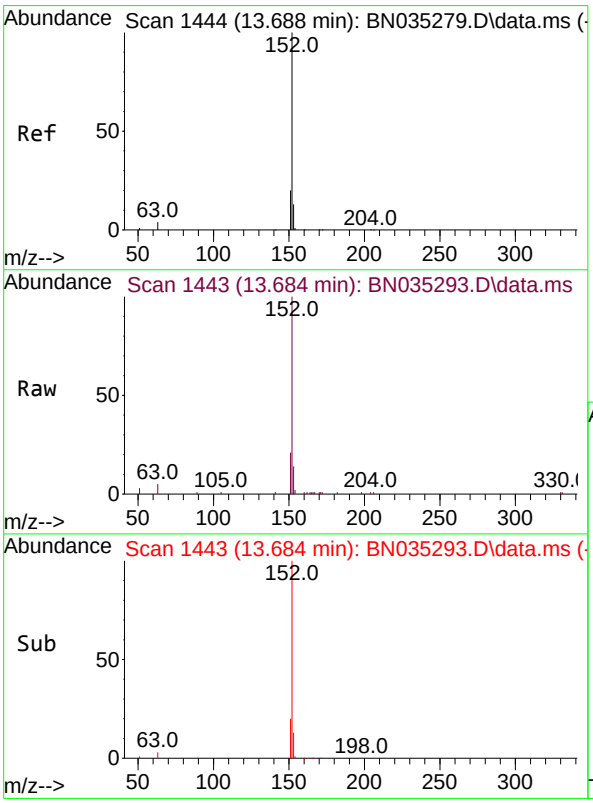
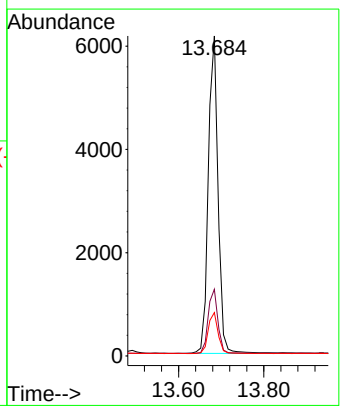
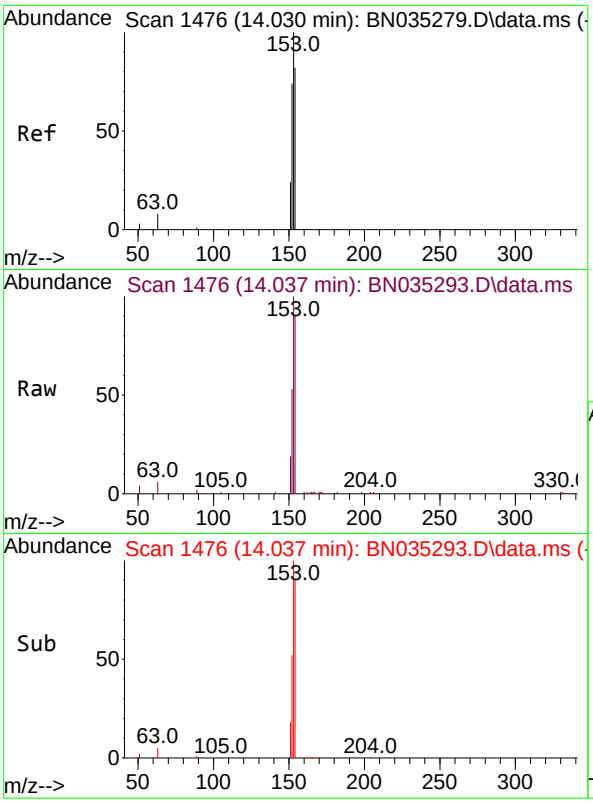


#16
Acenaphthylene
Concen: 0.329 ng
RT: 13.684 min Scan# 1443
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:152 Resp: 9720

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.9	23.9
153	13.1	10.2	15.4

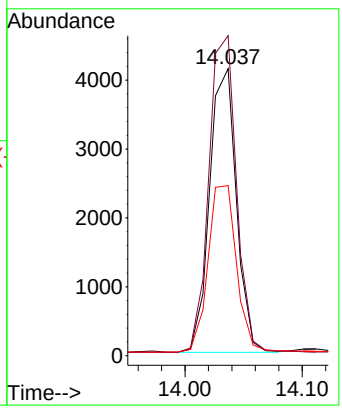




#17
Acenaphthene
Concen: 0.352 ng
RT: 14.037 min Scan# 14
Delta R.T. 0.007 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:154 Resp: 653

Ion	Ratio	Lower	Upper
154	100		
153	115.4	96.1	144.1
152	63.2	72.2	108.2#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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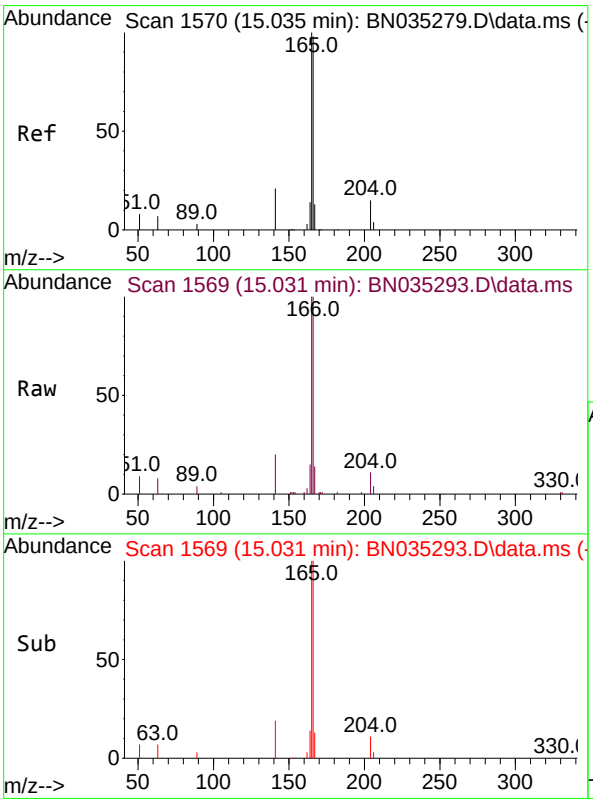
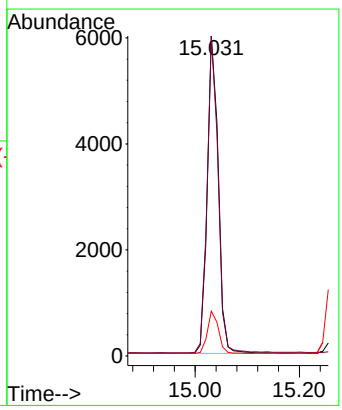
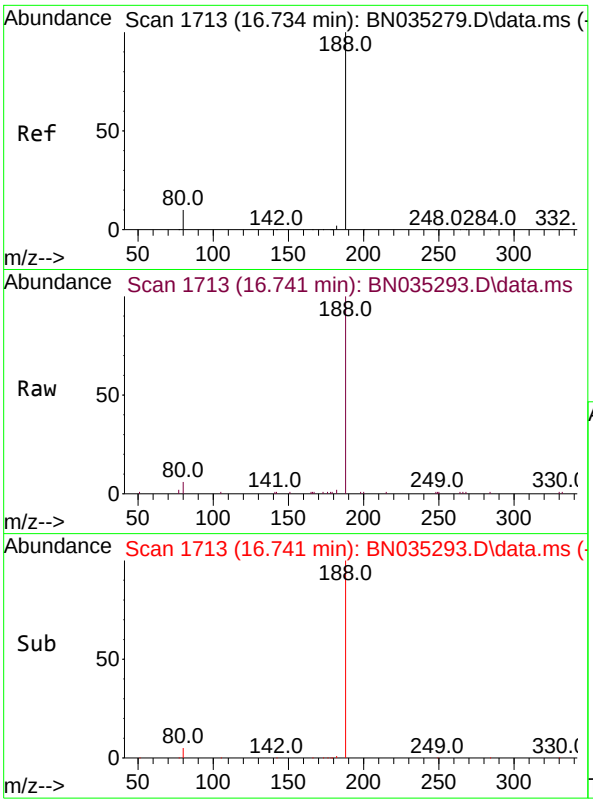


#18
Fluorene
Concen: 0.337 ng
RT: 15.031 min Scan# 1569
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:166 Resp: 8779

Ion	Ratio	Lower	Upper
166	100		
165	98.8	81.2	121.8
167	13.3	10.5	15.7

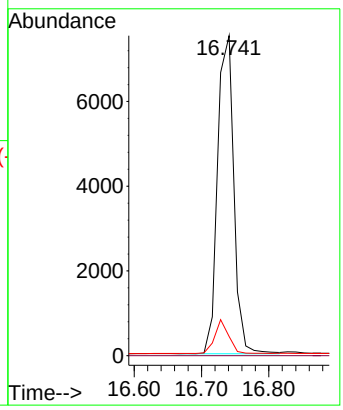




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.741 min Scan# 1
Delta R.T. 0.007 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:188 Resp: 1256

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.0	8.9	13.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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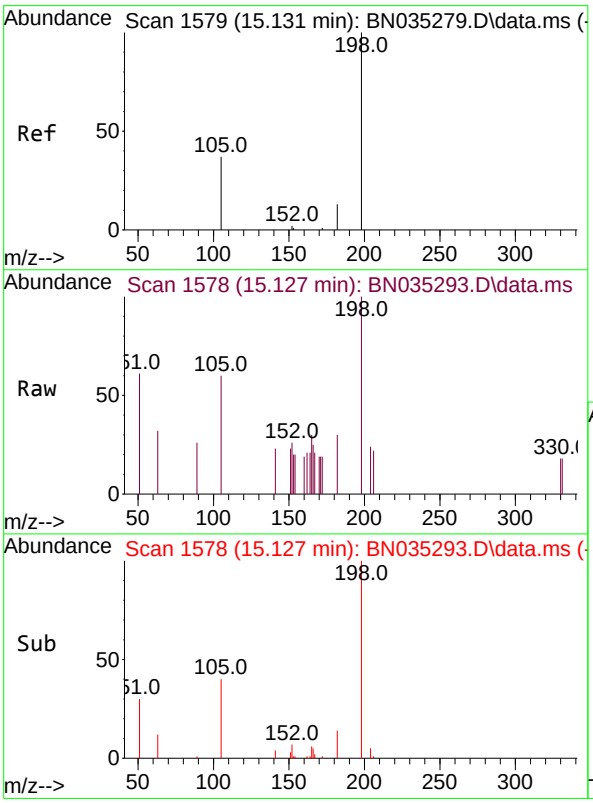
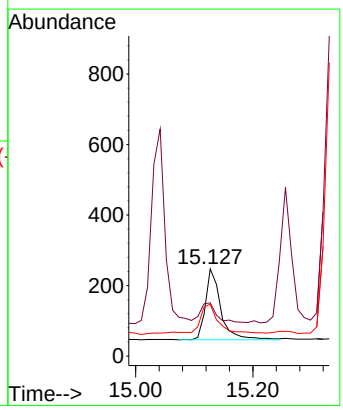
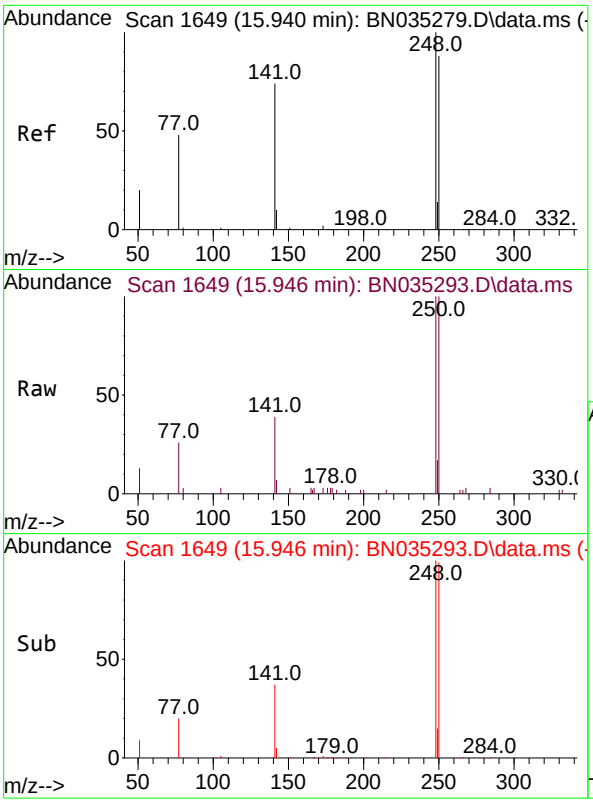


#20
4,6-Dinitro-2-methylphenol
Concen: 0.392 ng
RT: 15.127 min Scan# 1578
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:198 Resp: 368

Ion	Ratio	Lower	Upper
198	100		
51	61.1	53.6	80.4
105	59.5	47.4	71.2

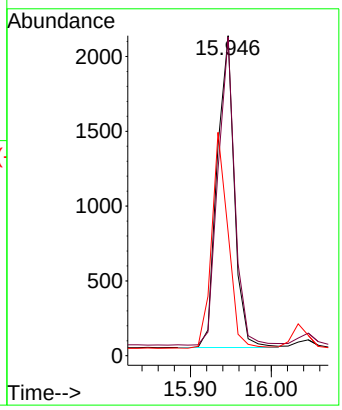




#21
4-Bromophenyl-phenylether
Concen: 0.387 ng
RT: 15.946 min Scan# 1
Delta R.T. 0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:248 Resp: 308

Ion	Ratio	Lower	Upper
248	100		
250	99.6	74.8	112.2
141	38.7	59.0	88.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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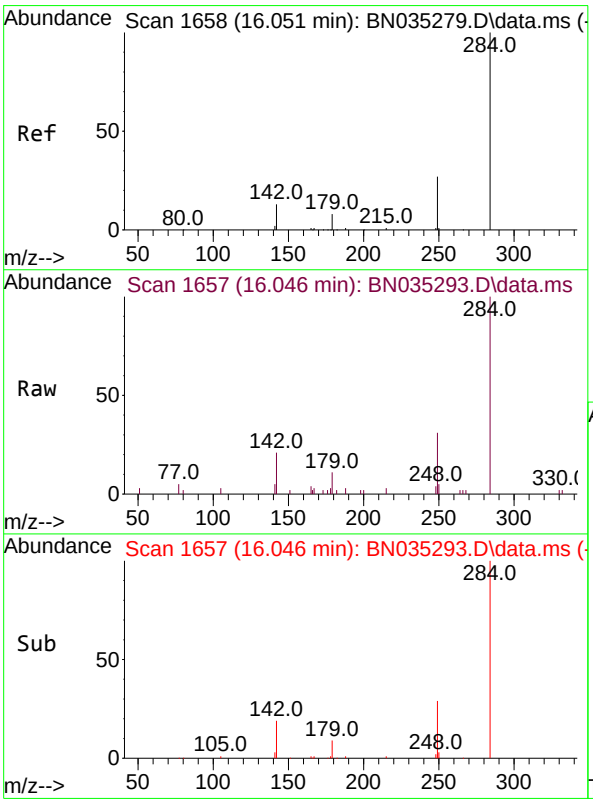
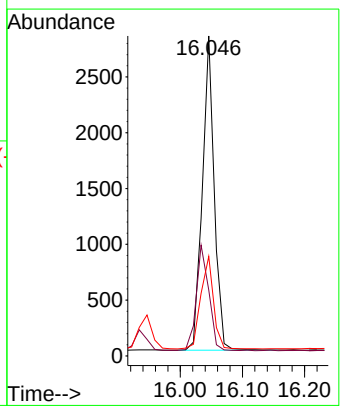
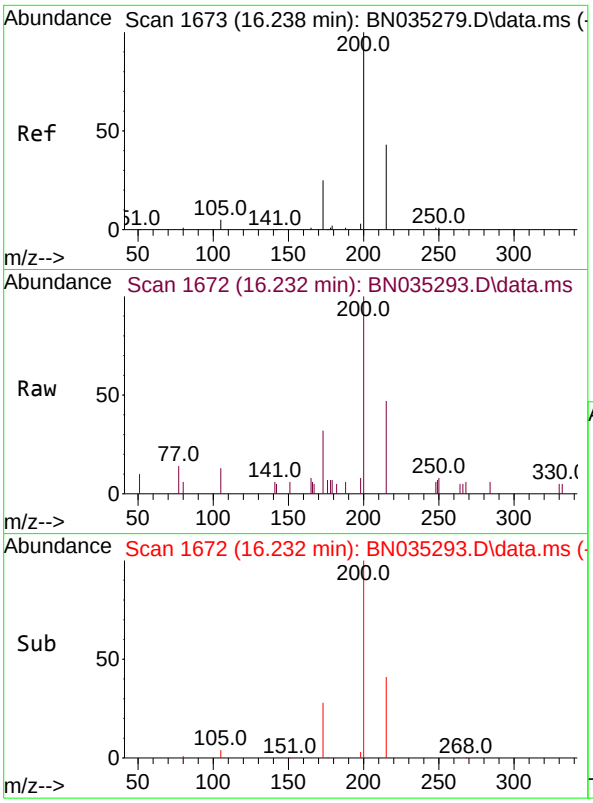


#22
Hexachlorobenzene
Concen: 0.330 ng
RT: 16.046 min Scan# 1657
Delta R.T. -0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:284 Resp: 3763

Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.7	43.1
249	31.5	25.4	38.0

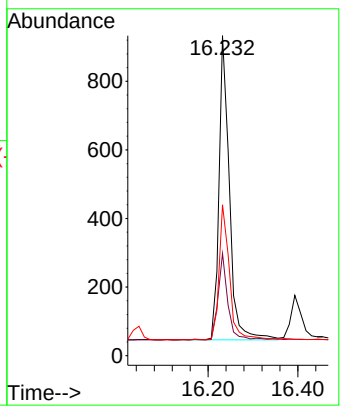




#23
Atrazine
Concen: 0.425 ng
RT: 16.232 min Scan# 1
Delta R.T. -0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:200 Resp: 142

Ion	Ratio	Lower	Upper
200	100		
173	31.9	25.8	38.8
215	47.2	38.6	58.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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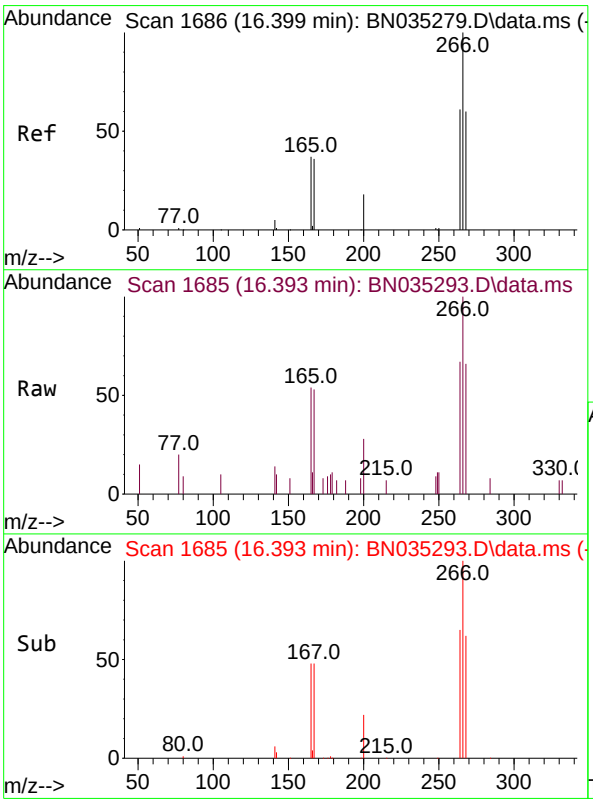
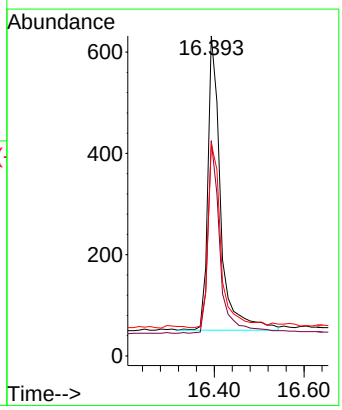
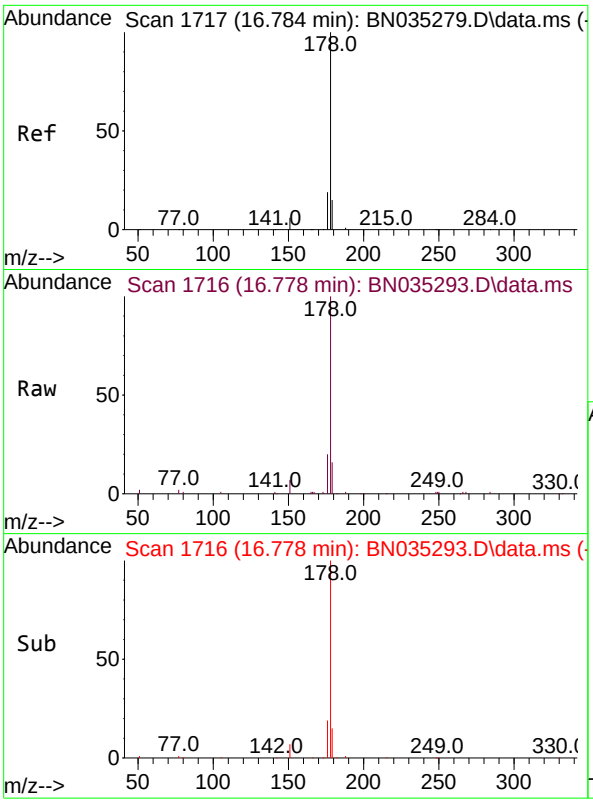


#24
Pentachlorophenol
Concen: 0.417 ng
RT: 16.393 min Scan# 1685
Delta R.T. -0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:266 Resp: 1142

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.3	73.9
268	63.6	48.6	73.0

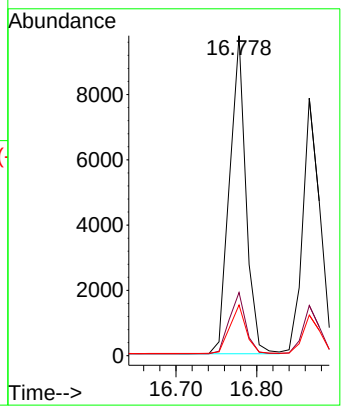




#25
Phenanthrene
Concen: 0.356 ng
RT: 16.778 min Scan# 1
Delta R.T. -0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:178 Resp: 1372

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.5	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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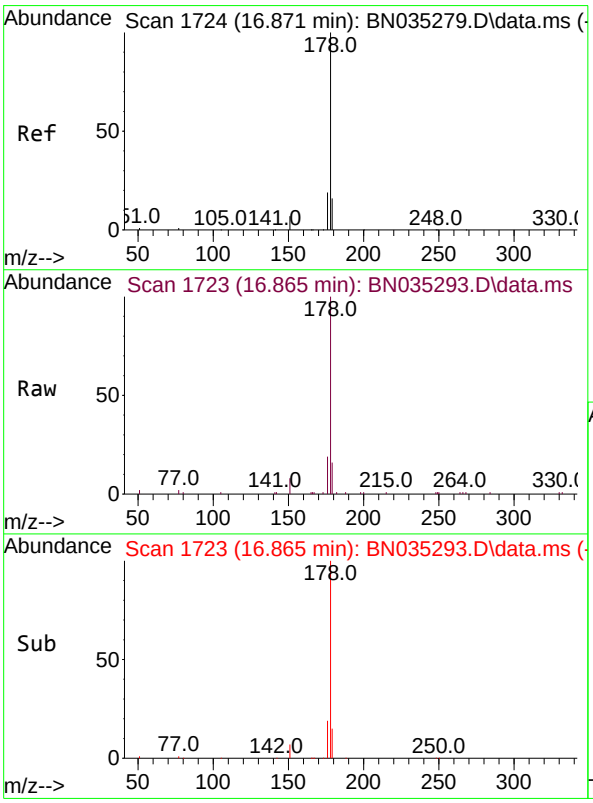
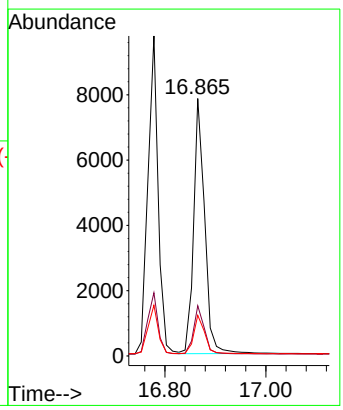
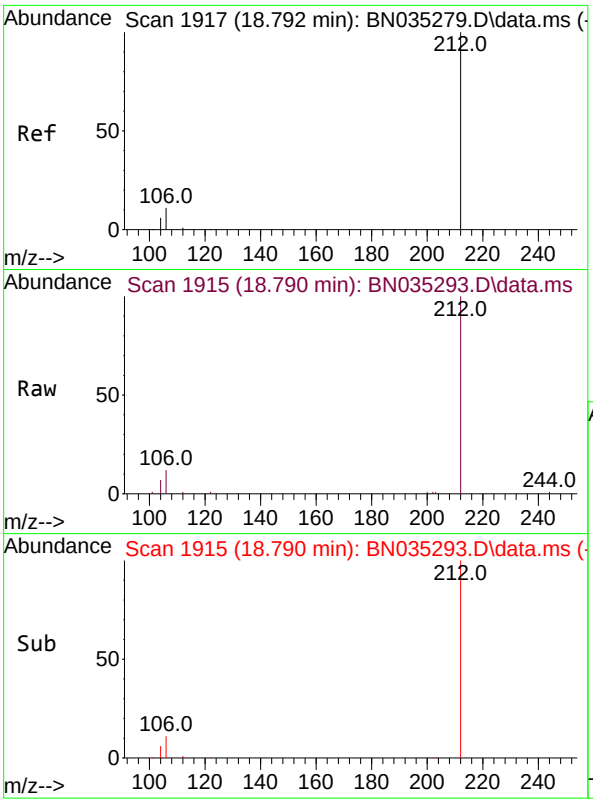


#26
Anthracene
Concen: 0.359 ng
RT: 16.865 min Scan# 1723
Delta R.T. -0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:178 Resp: 11907

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.1	12.4	18.6

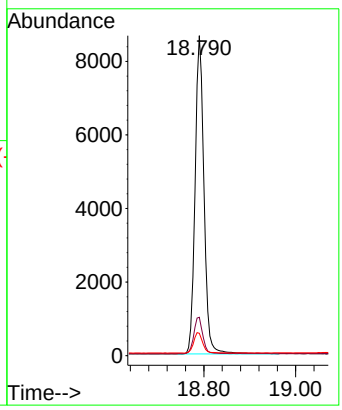




#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 18.790 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:212 Resp: 1160

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.8	14.8
104	6.6	5.6	8.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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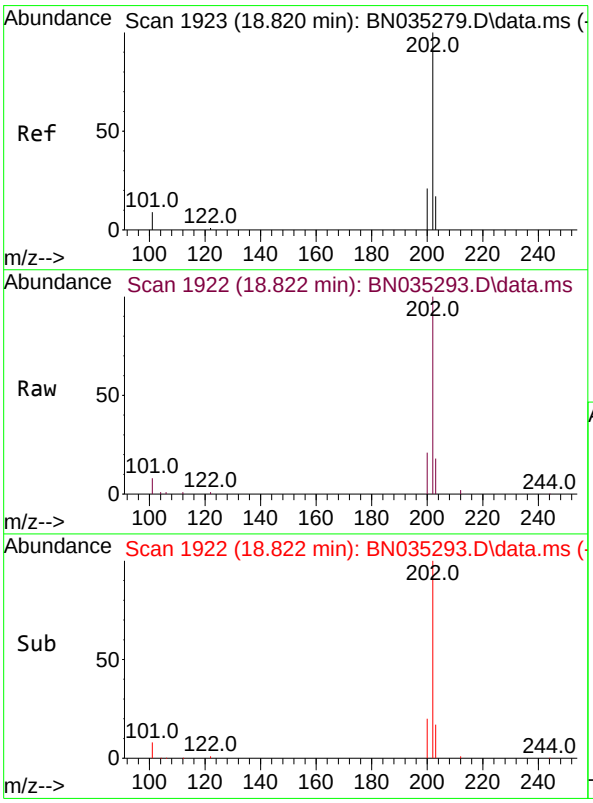
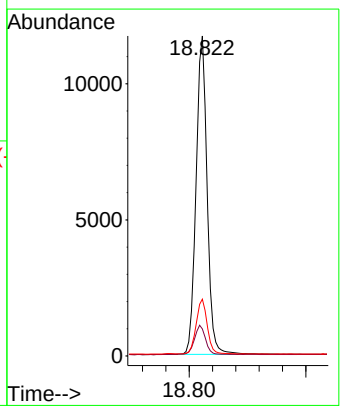
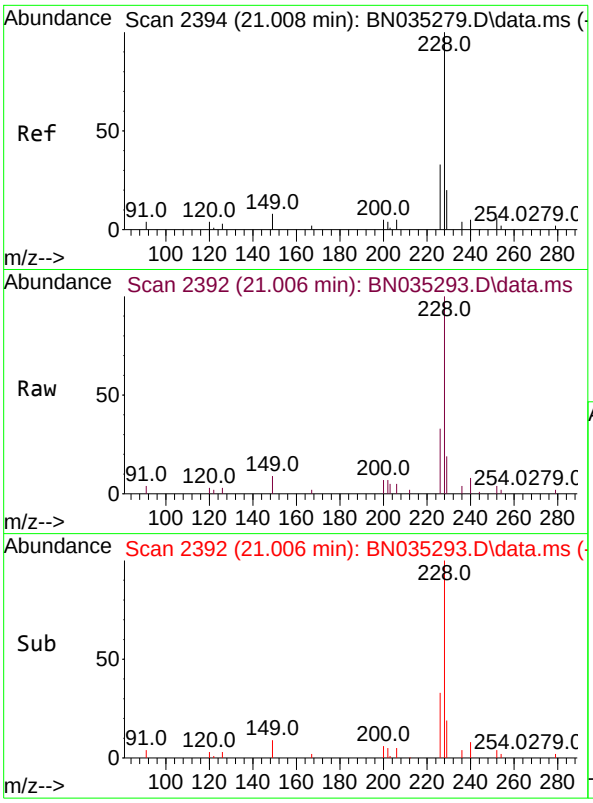


#28
Fluoranthene
Concen: 0.317 ng
RT: 18.822 min Scan# 1922
Delta R.T. 0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:202 Resp: 15419

Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.6	11.4
203	17.1	13.8	20.8

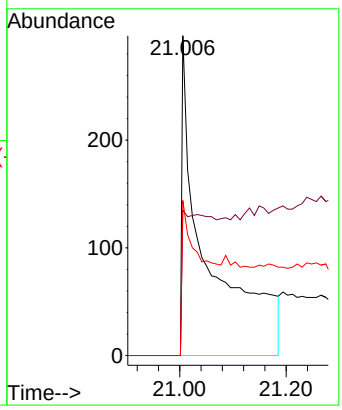




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.006 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:240 Resp: 93

Ion	Ratio	Lower	Upper
240	100		
120	45.5	54.9	82.3#
236	48.5	54.0	81.0#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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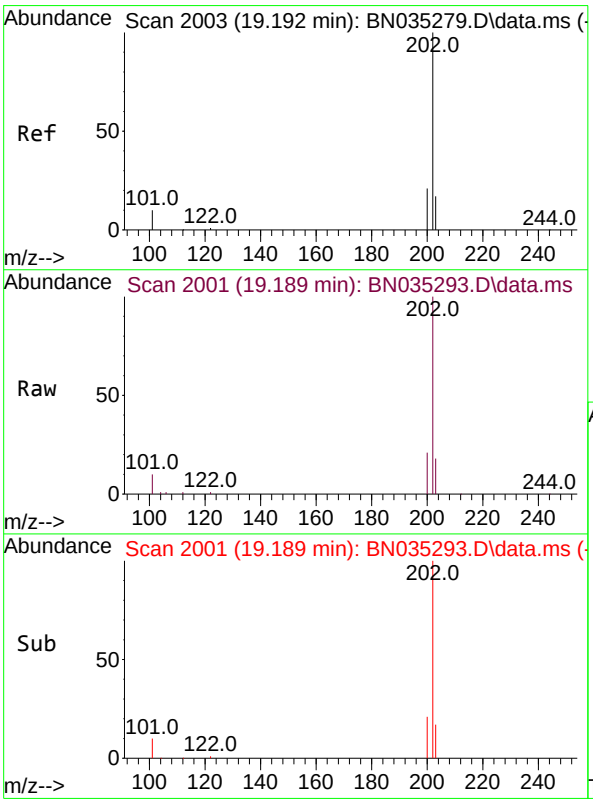
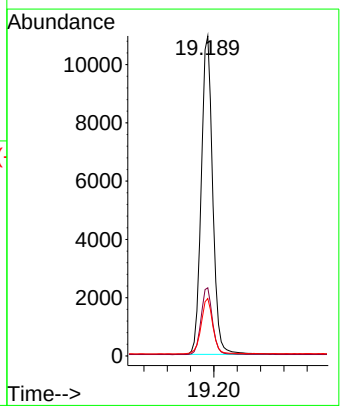
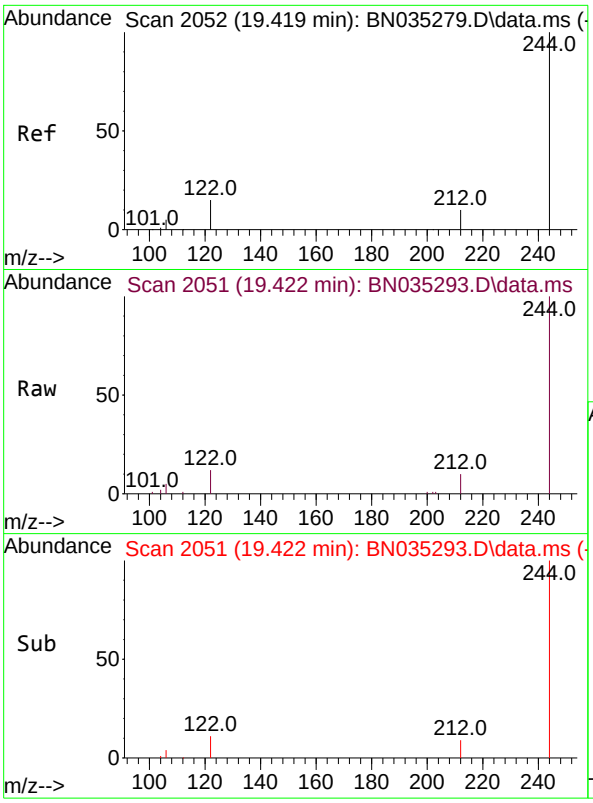


#30
Pyrene
Concen: 0.441 ng
RT: 19.189 min Scan# 2001
Delta R.T. -0.003 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:202 Resp: 14952

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.7	14.4	21.6

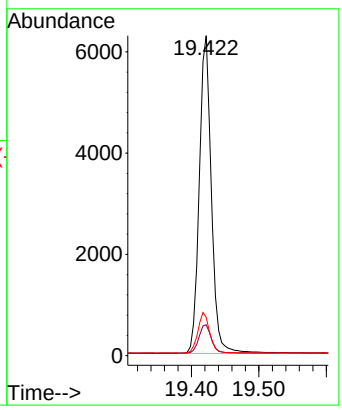




#31
Terphenyl-d14
Concen: 0.453 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:244 Resp: 779

Ion	Ratio	Lower	Upper
244	100		
212	9.6	9.4	14.0
122	12.0	13.0	19.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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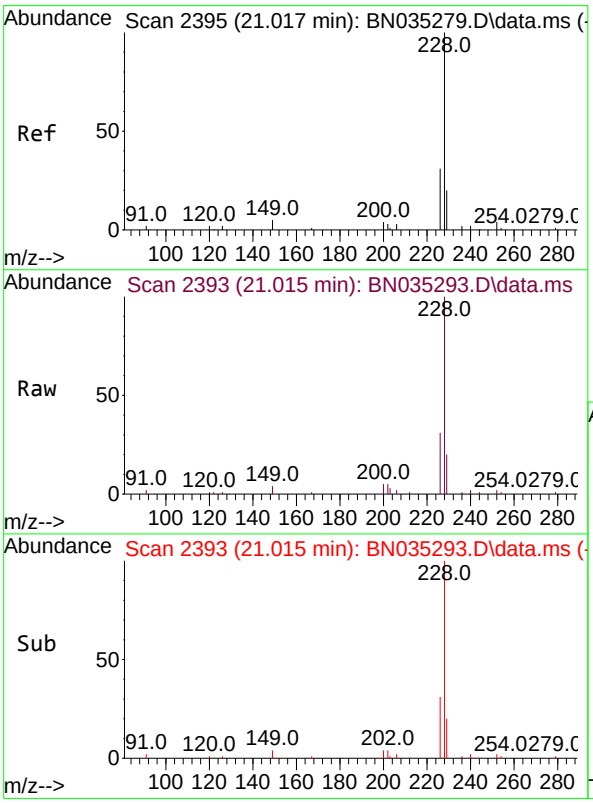
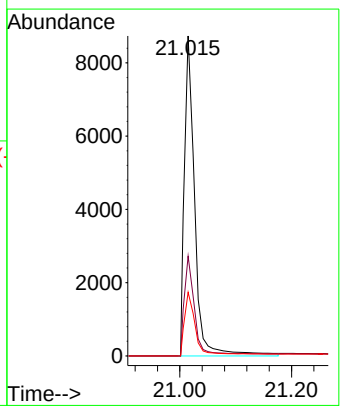
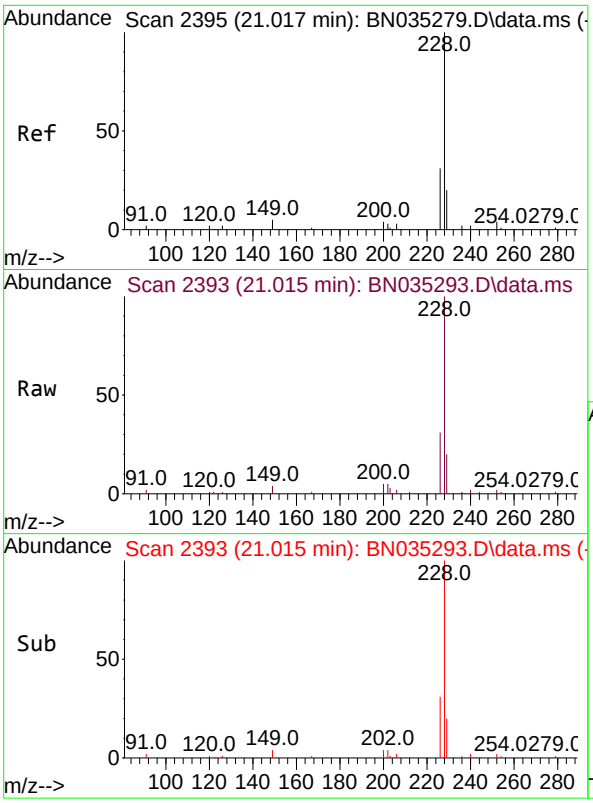


#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 21.015 min Scan# 2393
Delta R.T. -0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:228 Resp: 11234

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.7	37.1
229	19.9	16.2	24.2

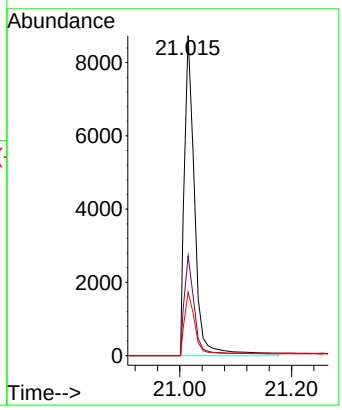




#33
Chrysene
Concen: 0.346 ng
RT: 21.015 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:228 Resp: 1123

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.7	37.1
229	19.9	16.2	24.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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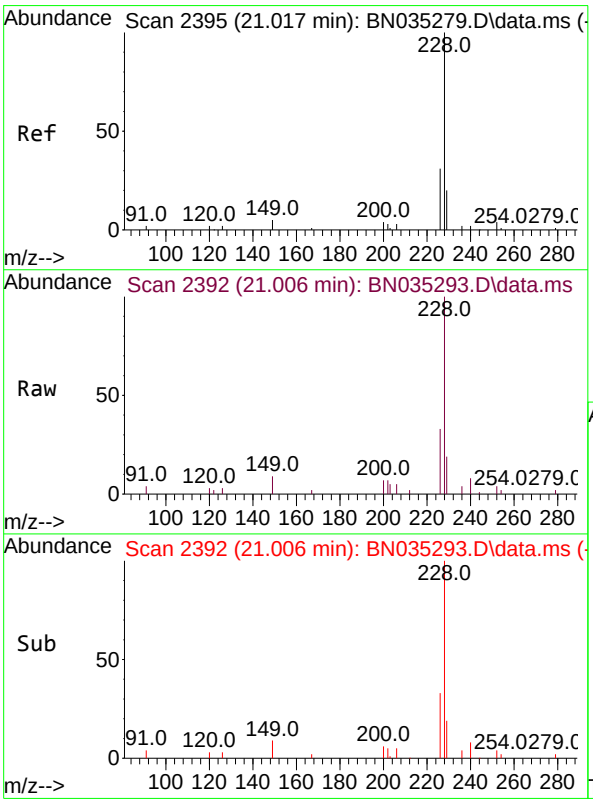
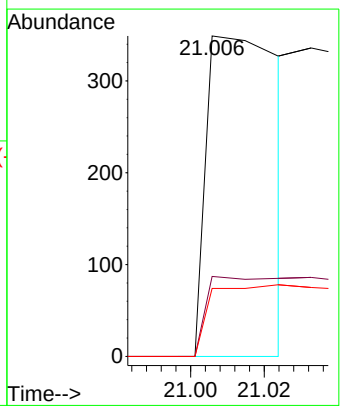
Supervised By :mohammad ahmed 11/27/2024

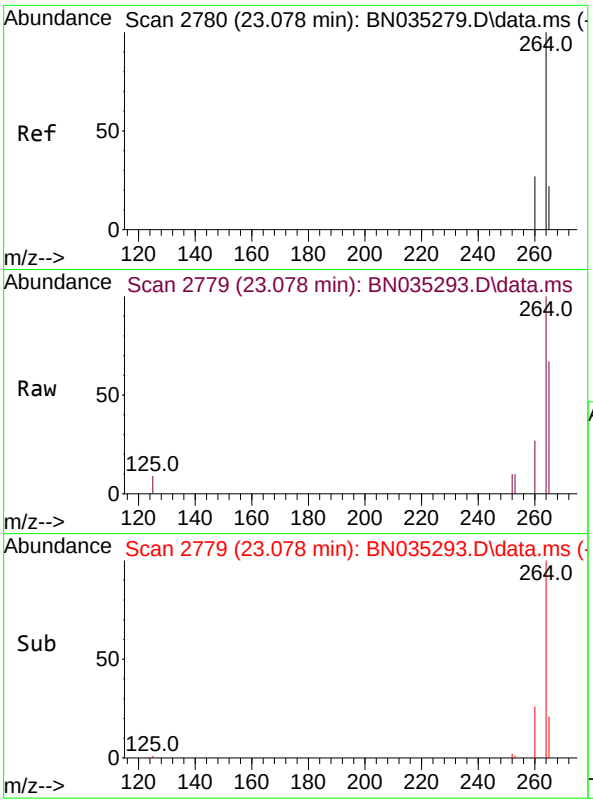


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.233 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.011 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:149 Resp: 416

Ion	Ratio	Lower	Upper
149	100		
167	77.9	0.0	0.0#
279	31.5	13.0	19.6#

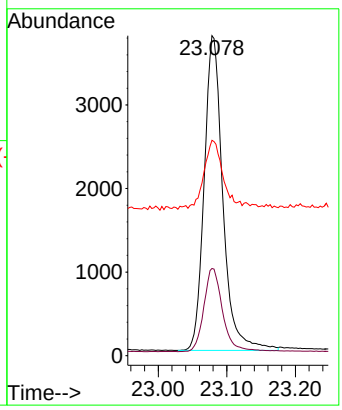




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:264 Resp: 711

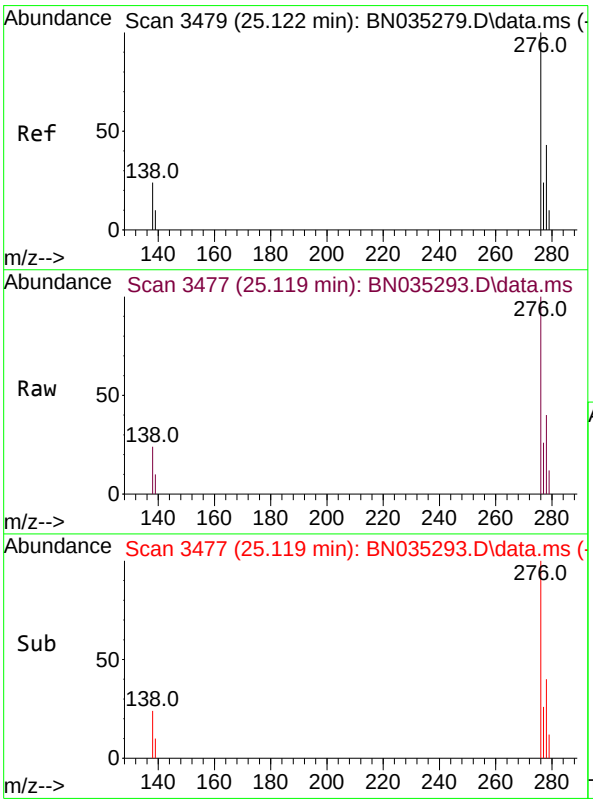
Ion	Ratio	Lower	Upper
264	100		
260	27.3	22.3	33.5
265	67.3	68.6	103.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

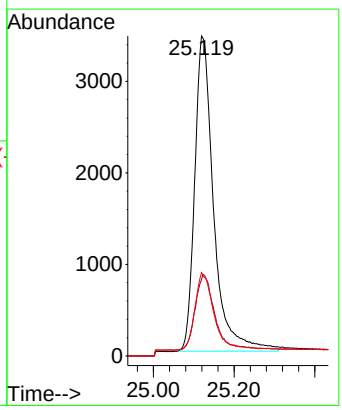
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

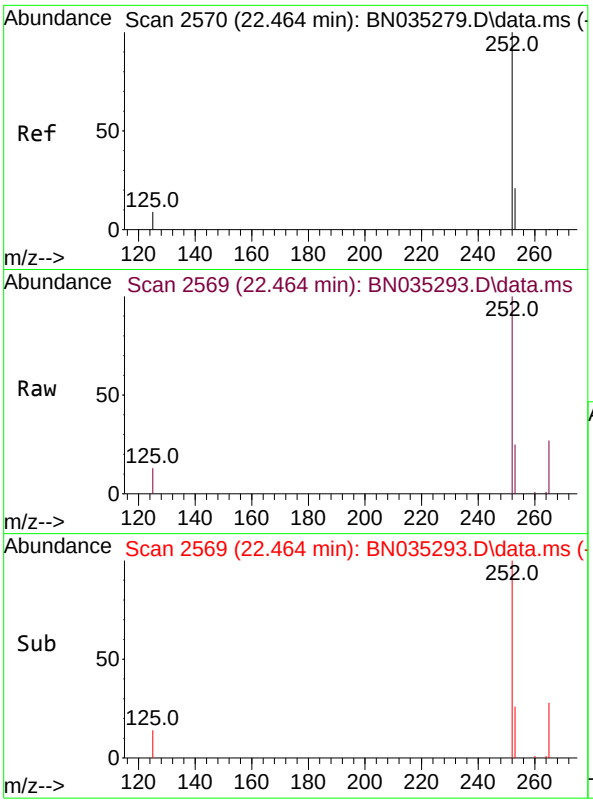


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.385 ng
RT: 25.119 min Scan# 3477
Delta R.T. -0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:276 Resp: 11225

Ion	Ratio	Lower	Upper
276	100		
138	23.2	18.8	28.2
277	23.8	18.2	27.4

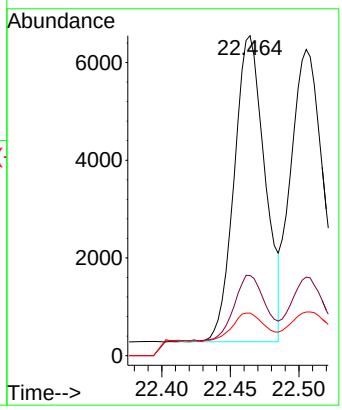




#37
Benzo(b)fluoranthene
Concen: 0.316 ng
RT: 22.464 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:252 Resp: 976

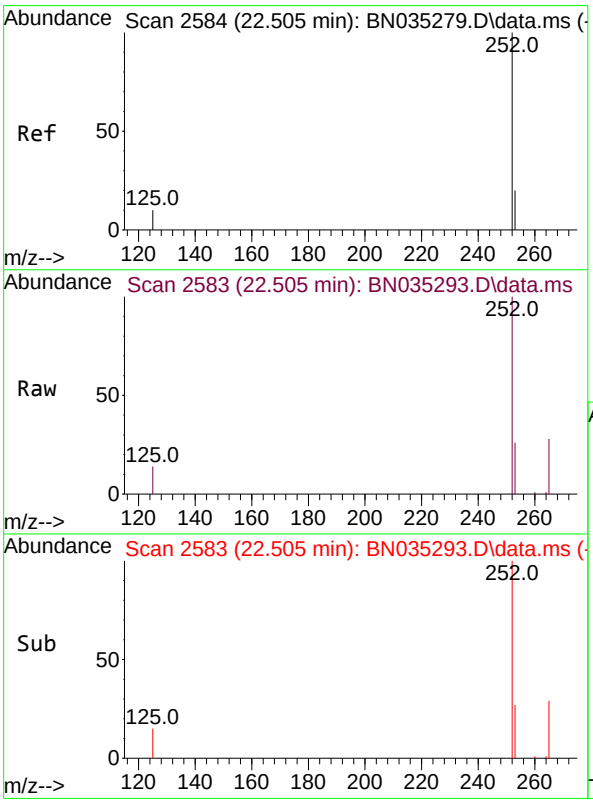
Ion	Ratio	Lower	Upper
252	100		
253	25.0	20.2	30.2
125	13.3	12.0	18.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

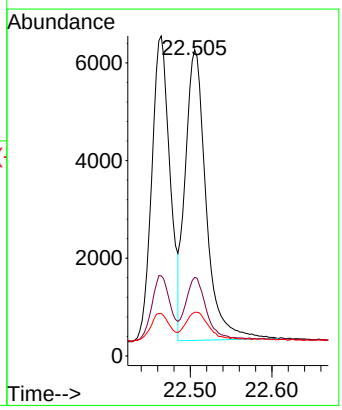
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

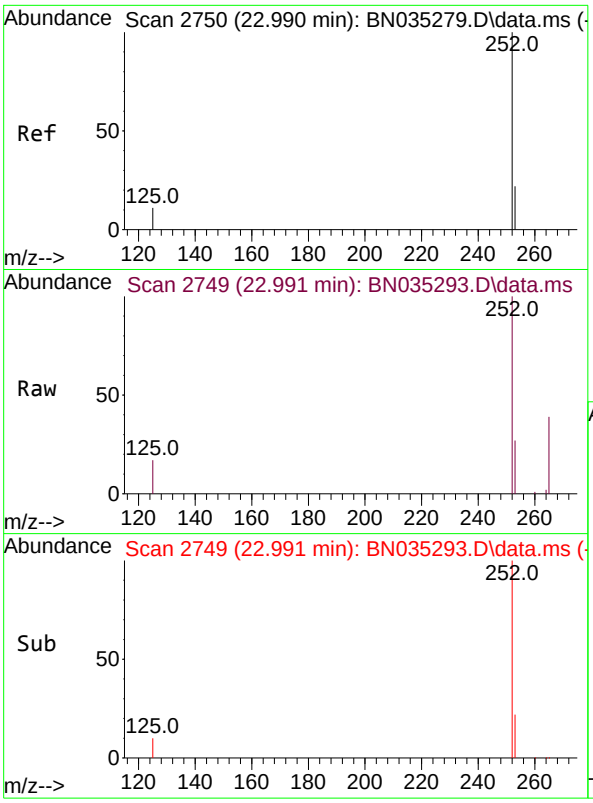


#38
Benzo(k)fluoranthene
Concen: 0.323 ng
RT: 22.505 min Scan# 2583
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:252 Resp: 10556

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.1	30.1
125	14.3	12.7	19.1

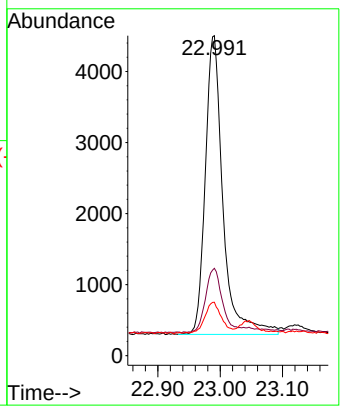




#39
Benzo(a)pyrene
Concen: 0.349 ng
RT: 22.991 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:252 Resp: 825

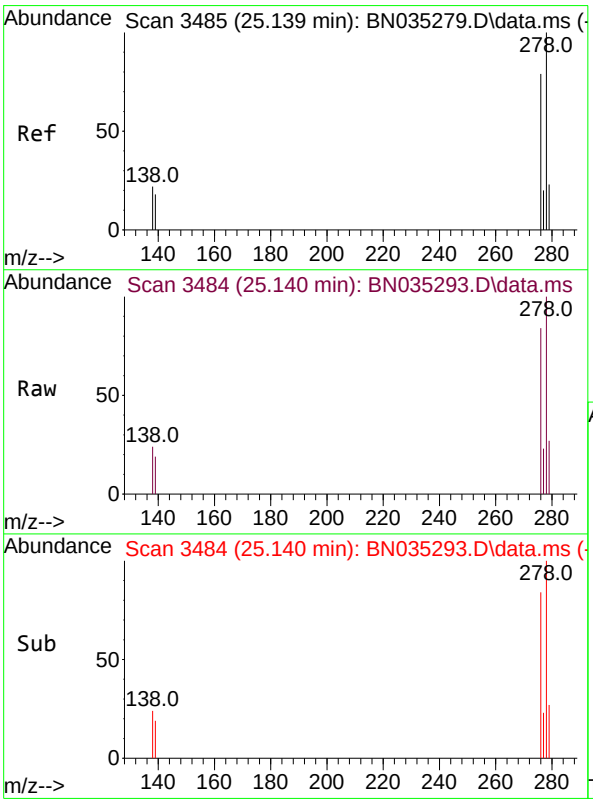
Ion	Ratio	Lower	Upper
252	100		
253	27.3	22.3	33.5
125	16.7	15.3	22.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

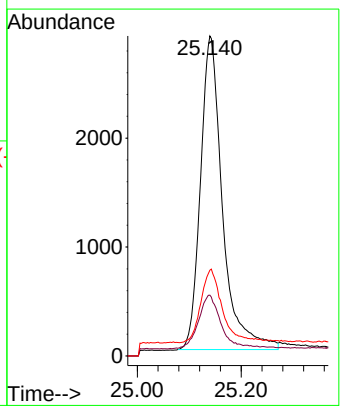
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

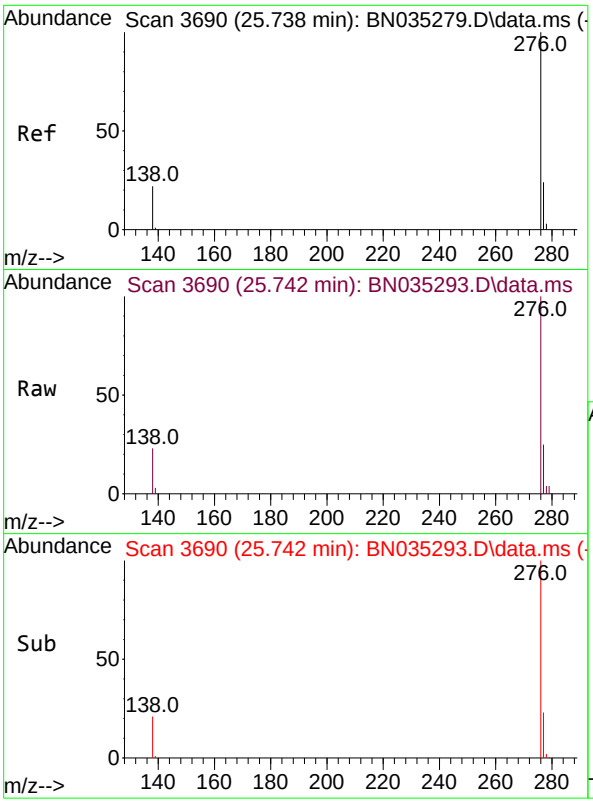


#40
Dibenzo(a,h)anthracene
Concen: 0.385 ng
RT: 25.140 min Scan# 3484
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:278 Resp: 8482

Ion	Ratio	Lower	Upper
278	100		
139	19.0	17.0	25.6
279	26.8	23.0	34.4

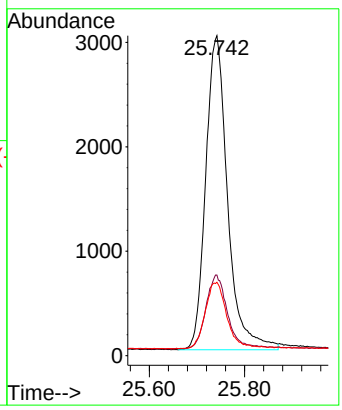




#41
Benzo(g,h,i)perylene
Concen: 0.377 ng
RT: 25.742 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:276 Resp: 960

Ion	Ratio	Lower	Upper
276	100		
277	25.2	21.1	31.7
138	23.0	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035293.D
Acq On : 25 Nov 2024 23:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 26 02:53:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 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	169#	0.00
2		1,4-Dioxane	0.288	0.361	-25.3#	213#	0.00
3		n-Nitrosodimethylamine	0.298	0.294	1.3	175#	0.00
4	S	2-Fluorophenol	0.756	0.976	-29.1#	209#	0.00
5	S	Phenol-d6	1.056	1.259	-19.2	193#	0.00
6		bis(2-Chloroethyl)ether	0.889	0.969	-9.0	183#	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	174#	0.00
8	S	Nitrobenzene-d5	0.324	0.198	38.9#	100	0.00
9		Naphthalene	1.110	1.069	3.7	171#	-0.01
10		Hexachlorobutadiene	0.312	0.250	19.9	139	-0.01
11	SURR	2-Methylnaphthalene-d10	0.560	0.590	-5.4	191#	0.00
12		2-Methylnaphthalene	0.726	0.729	-0.4	187#	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	199#	0.00
14	S	2,4,6-Tribromophenol	0.204	0.212	-3.9	234#	0.00
15	S	2-Fluorobiphenyl	0.221	0.145	34.4#	118	0.00
16		Acenaphthylene	2.013	1.657	17.7	175#	0.00
17		Acenaphthene	1.267	1.115	12.0	189#	0.00
18		Fluorene	1.777	1.497	15.8	182#	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	182#	0.00
20		4,6-Dinitro-2-methylphenol	0.041	0.029	29.3#	158#	0.00
21		4-Bromophenyl-phenylether	0.254	0.245	3.5	190#	0.00
22		Hexachlorobenzene	0.363	0.300	17.4	155#	0.00
23		Atrazine	0.107	0.114	-6.5	207#	0.00
24		Pentachlorophenol	0.087	0.091	-4.6	210#	0.00
25		Phenanthrene	1.229	1.093	11.1	176#	0.00
26		Anthracene	1.055	0.948	10.1	190#	0.00
27	SURR	Fluoranthene-d10	1.070	0.923	13.7	174#	0.00
28		Fluoranthene	1.550	1.227	20.8	167#	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	159#	0.00
30		Pyrene	14.551	16.043	-10.3	167#	0.00
31	S	Terphenyl-d14	7.392	8.364	-13.1	183#	0.00
32		Benzo(a)anthracene	13.920	12.054	13.4	139	0.00
33		Chrysene	13.920	12.054	13.4	139	0.00
34		Bis(2-ethylhexyl)phthalate	0.765	0.446	41.7#	78	-0.01
35	I	Perylene-d12	1.000	1.000	0.0	152#	0.00
36		Indeno(1,2,3-cd)pyrene	1.638	1.577	3.7	157#	0.00
37		Benzo(b)fluoranthene	1.738	1.371	21.1	143	0.00
38		Benzo(k)fluoranthene	1.839	1.483	19.4	138	0.00
39	C	Benzo(a)pyrene	1.329	1.160	12.7	154#	0.00
40		Dibenzo(a,h)anthracene	1.238	1.191	3.8	163#	0.00
41		Benzo(g,h,i)perylene	1.432	1.350	5.7	165#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035293.D
Acq On : 25 Nov 2024 23:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 26 02:53:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 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	169	0.00
2		1,4-Dioxane	0.400	0.502	-25.5#	213	0.00
3		n-Nitrosodimethylamine	0.400	0.395	1.3	175	0.00
4	S	2-Fluorophenol	0.400	0.516	-29.0#	209	0.00
5	S	Phenol-d6	0.400	0.477	-19.2	193	0.00
6		bis(2-Chloroethyl)ether	0.400	0.436	-9.0	183	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	174	0.00
8	S	Nitrobenzene-d5	0.400	0.244	39.0#	100	0.00
9		Naphthalene	0.400	0.385	3.8	171	-0.01
10		Hexachlorobutadiene	0.400	0.321	19.8	139	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.422	-5.5	191	0.00
12		2-Methylnaphthalene	0.400	0.402	-0.5	187	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	199	0.00
14	S	2,4,6-Tribromophenol	0.400	0.416	-4.0	234	0.00
15	S	2-Fluorobiphenyl	0.400	0.263	34.3#	118	0.00
16		Acenaphthylene	0.400	0.329	17.8	175	0.00
17		Acenaphthene	0.400	0.352	12.0	189	0.00
18		Fluorene	0.400	0.337	15.8	182	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	182	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.392	2.0	158	0.00
21		4-Bromophenyl-phenylether	0.400	0.387	3.3	190	0.00
22		Hexachlorobenzene	0.400	0.330	17.5	155	0.00
23		Atrazine	0.400	0.425	-6.2	207	0.00
24		Pentachlorophenol	0.400	0.417	-4.2	210	0.00
25		Phenanthrene	0.400	0.356	11.0	176	0.00
26		Anthracene	0.400	0.359	10.3	190	0.00
27	SURR	Fluoranthene-d10	0.400	0.345	13.8	174	0.00
28		Fluoranthene	0.400	0.317	20.8	167	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	159	0.00
30		Pyrene	0.400	0.441	-10.2	167	0.00
31	S	Terphenyl-d14	0.400	0.453	-13.2	183	0.00
32		Benzo(a)anthracene	0.400	0.346	13.5	139	0.00
33		Chrysene	0.400	0.346	13.5	139	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.233	41.8#	78	-0.01
35	I	Perylene-d12	0.400	0.400	0.0	152	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.385	3.8	157	0.00
37		Benzo(b)fluoranthene	0.400	0.316	21.0	143	0.00
38		Benzo(k)fluoranthene	0.400	0.323	19.3	138	0.00
39	C	Benzo(a)pyrene	0.400	0.349	12.8	154	0.00
40		Dibenzo(a,h)anthracene	0.400	0.385	3.8	163	0.00
41		Benzo(g,h,i)perylene	0.400	0.377	5.8	165	0.00

(#) = 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: TETR06

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG No.: P4959

Instrument ID: BNA_N Calibration Date/Time: 11/26/2024 03:14

Lab File ID: BN035300.D Init. Calib. Date(s): 11/25/2024 11/25/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 10:16 13:52

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.560	0.555		-0.9	50.0
Fluoranthene-d10	1.070	0.944		-11.8	50.0
2-Fluorophenol	0.756	1.011		33.7	50.0
Phenol-d6	1.056	1.202		13.8	50.0
Nitrobenzene-d5	0.324	0.212		-34.6	50.0
2-Fluorobiphenyl	0.221	0.171		-22.6	50.0
2,4,6-Tribromophenol	0.204	0.208		2.0	50.0
Terphenyl-d14	7.392	6.672		-9.7	50.0
1,4-Dioxane	0.288	0.391		35.8	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035300.D
Acq On : 26 Nov 2024 03:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

Quant Time: Nov 26 04:38:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3805	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8746	0.400	ng	# 0.00
13) Acenaphthene-d10	13.973	164	4650	0.400	ng	# 0.00
19) Phenanthrene-d10	16.741	188	8944	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	871	0.400	ng	# 0.00
35) Perylene-d12	23.075	264	8001	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	3847	0.535	ng	0.00
5) Phenol-d6	6.513	99	4573	0.455	ng	0.00
8) Nitrobenzene-d5	8.450	82	1856m	0.262	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	4853	0.396	ng	0.00
14) 2,4,6-Tribromophenol	15.480	330	969	0.408	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	795	0.310	ng	0.00
27) Fluoranthene-d10	18.790	212	8444	0.353	ng	0.00
31) Terphenyl-d14	19.422	244	5811	0.361	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	1488	0.544	ng	# 71
3) n-Nitrosodimethylamine	3.299	42	1097	0.387	ng	# 64
6) bis(2-Chloroethyl)ether	6.766	93	3676	0.435	ng	98
9) Naphthalene	10.105	128	9278	0.382	ng	99
10) Hexachlorobutadiene	10.404	225	2190	0.321	ng	# 99
12) 2-Methylnaphthalene	11.738	142	5885	0.371	ng	99
16) Acenaphthylene	13.684	152	7671	0.328	ng	100
17) Acenaphthene	14.037	154	5129	0.348	ng	# 85
18) Fluorene	15.031	166	6559	0.318	ng	97
20) 4,6-Dinitro-2-methylph...	15.127	198	319	0.436	ng	93
21) 4-Bromophenyl-phenylether	15.946	248	2233	0.394	ng	# 78
22) Hexachlorobenzene	16.046	284	2720	0.335	ng	98
23) Atrazine	16.232	200	1031	0.431	ng	98
24) Pentachlorophenol	16.393	266	878	0.450	ng	98
25) Phenanthrene	16.778	178	9774	0.356	ng	100
26) Anthracene	16.865	178	8425	0.357	ng	100
28) Fluoranthene	18.822	202	11052	0.319	ng	99
30) Pyrene	19.189	202	11118	0.351	ng	99
32) Benzo(a)anthracene	21.015	228	10362	0.342	ng	99
33) Chrysene	21.015	228	10362	0.342	ng	99
34) Bis(2-ethylhexyl)phtha...	21.015	149	596	0.358	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.122	276	12330	0.376	ng	99
37) Benzo(b)fluoranthene	22.461	252	10486	0.302	ng	98
38) Benzo(k)fluoranthene	22.502	252	11527	0.313	ng	98
39) Benzo(a)pyrene	22.988	252	8958	0.337	ng	96
40) Dibenzo(a,h)anthracene	25.137	278	9558	0.386	ng	95
41) Benzo(g,h,i)perylene	25.736	276	10647	0.372	ng	97

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

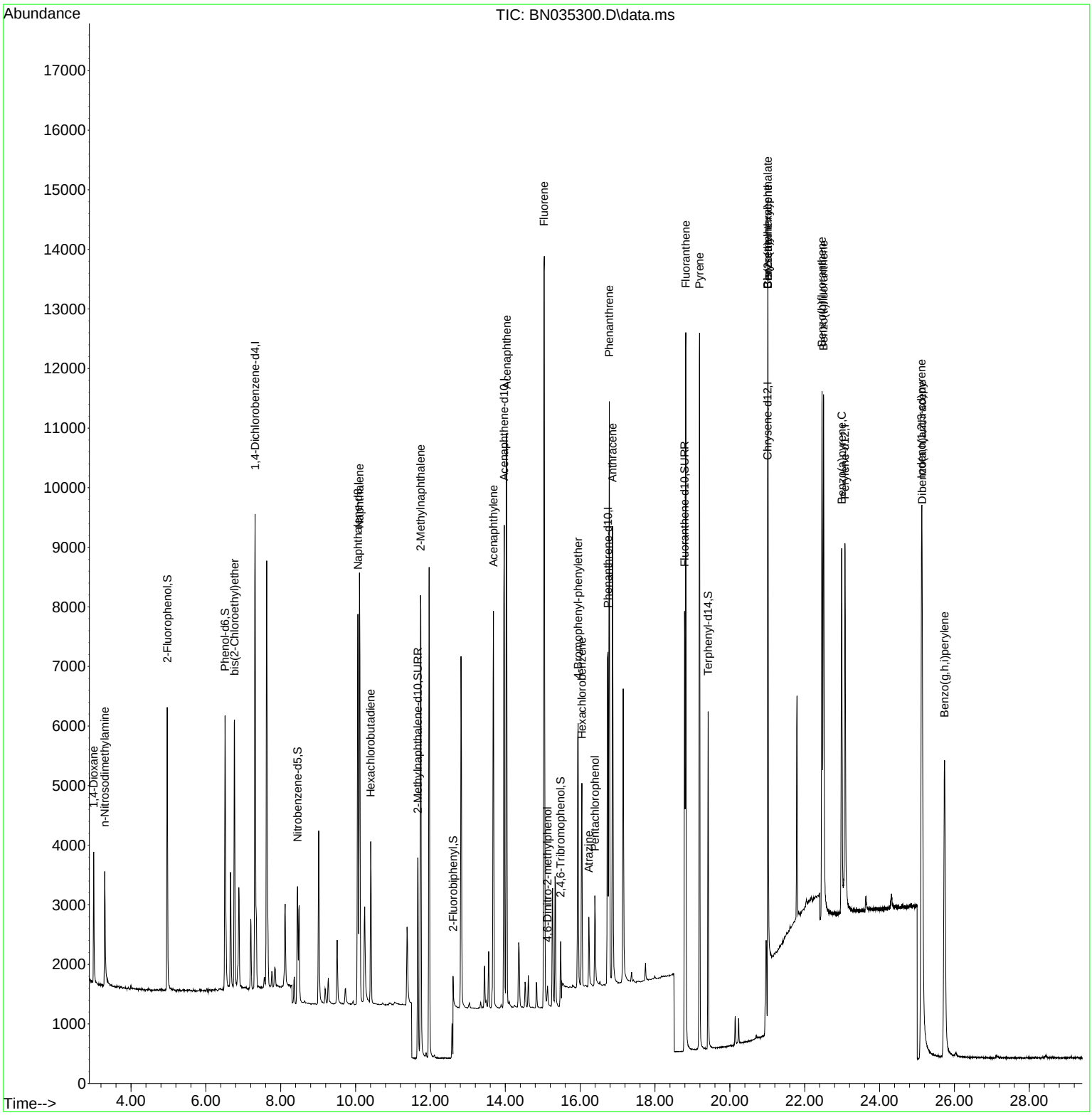
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035300.D
Acq On : 26 Nov 2024 03:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

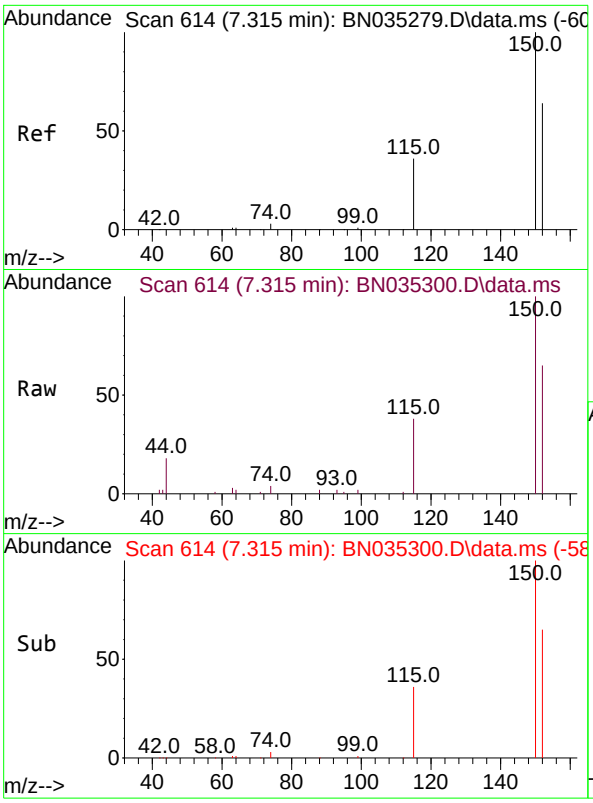
Quant Time: Nov 26 04:38:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

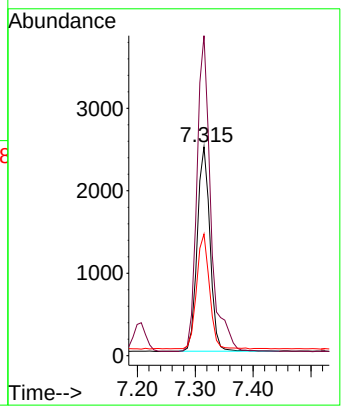




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:152 Resp: 380

Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.5	186.7
115	58.3	47.8	71.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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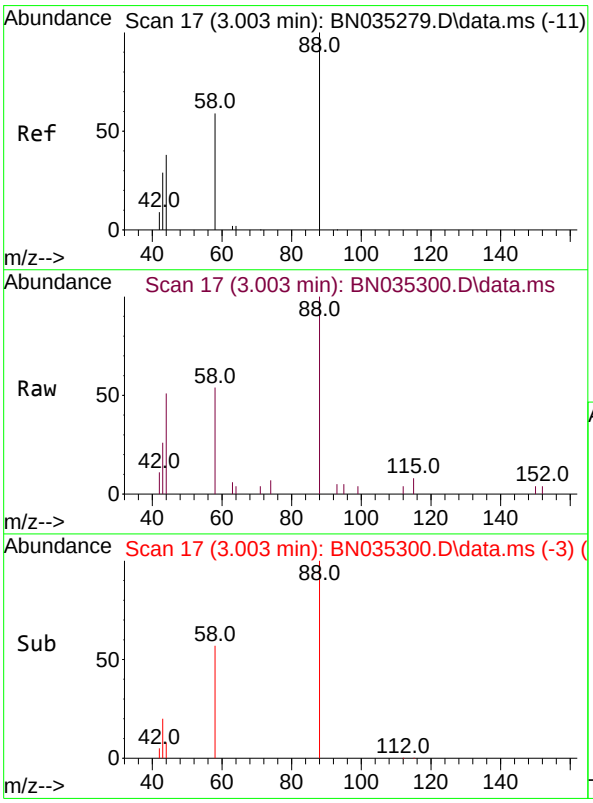
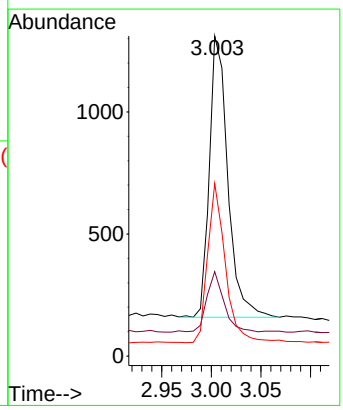
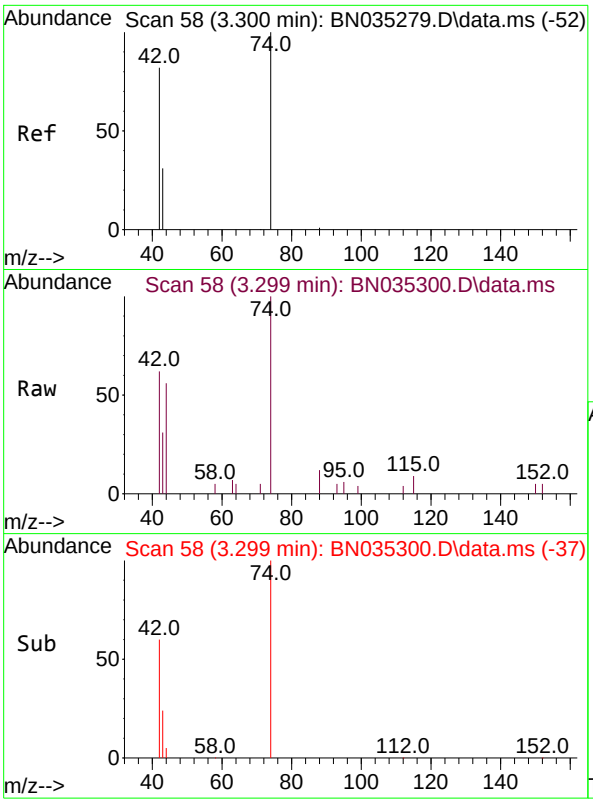


#2
1,4-Dioxane
Concen: 0.544 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion: 88 Resp: 1488

Ion	Ratio	Lower	Upper
88	100		
43	20.2	48.1	72.1#
58	54.6	46.9	70.3

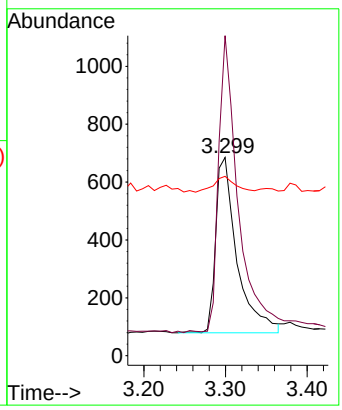




#3
n-Nitrosodimethylamine
Concen: 0.387 ng
RT: 3.299 min Scan# 5
Delta R.T. -0.001 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion: 42 Resp: 109

Ion	Ratio	Lower	Upper
42	100		
74	163.7	102.7	154.1#
44	9.3	34.1	51.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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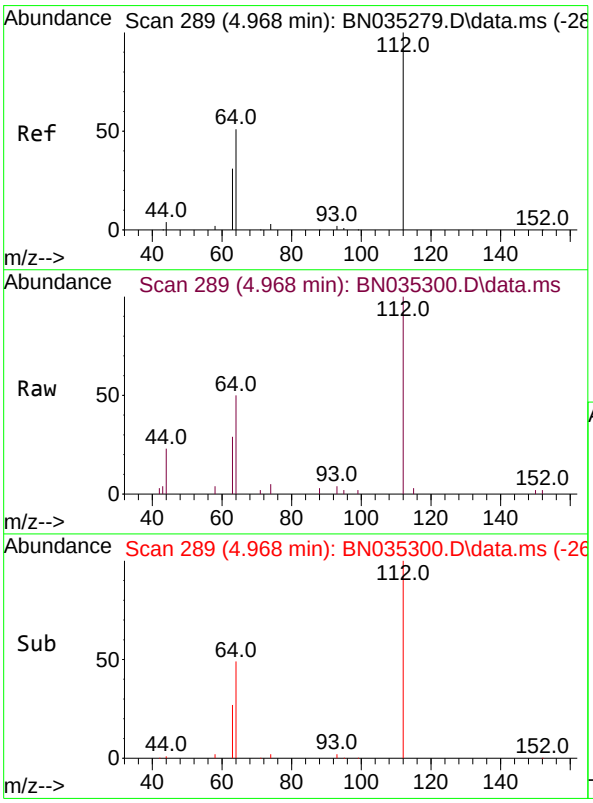
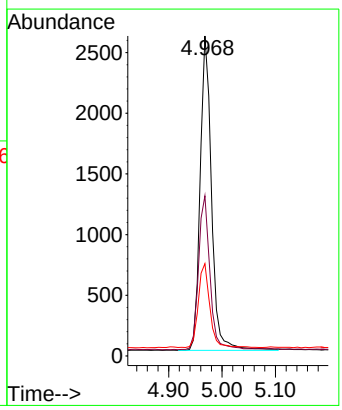
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

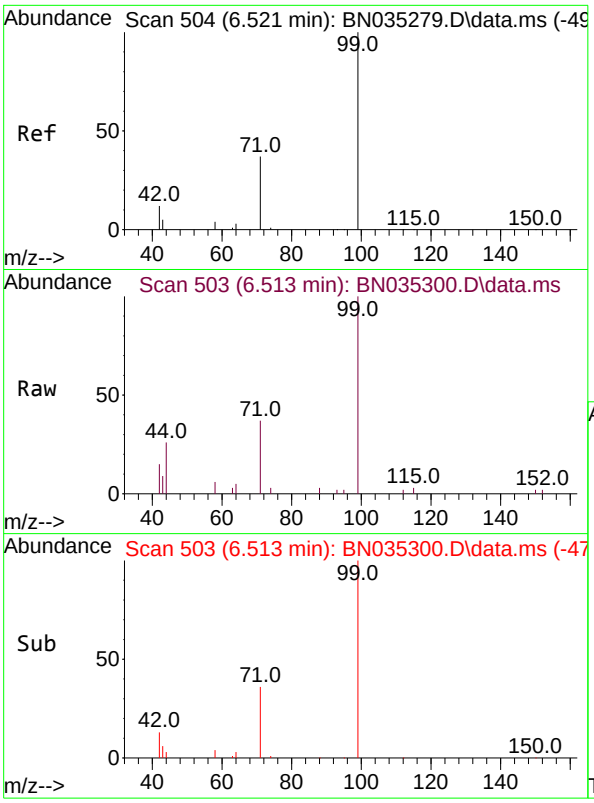


#4
2-Fluorophenol
Concen: 0.535 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:112 Resp: 3847

Ion	Ratio	Lower	Upper
112	100		
64	49.1	40.4	60.6
63	26.8	23.8	35.8

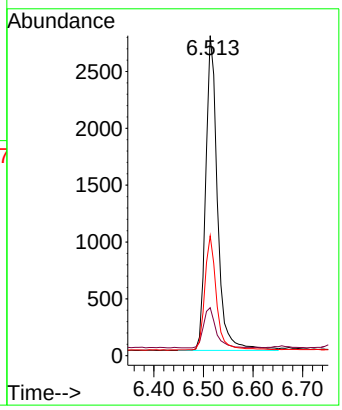




#5
Phenol-d6
Concen: 0.455 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.007 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion: 99 Resp: 457

Ion	Ratio	Lower	Upper
99	100		
42	13.6	12.8	19.2
71	35.7	31.4	47.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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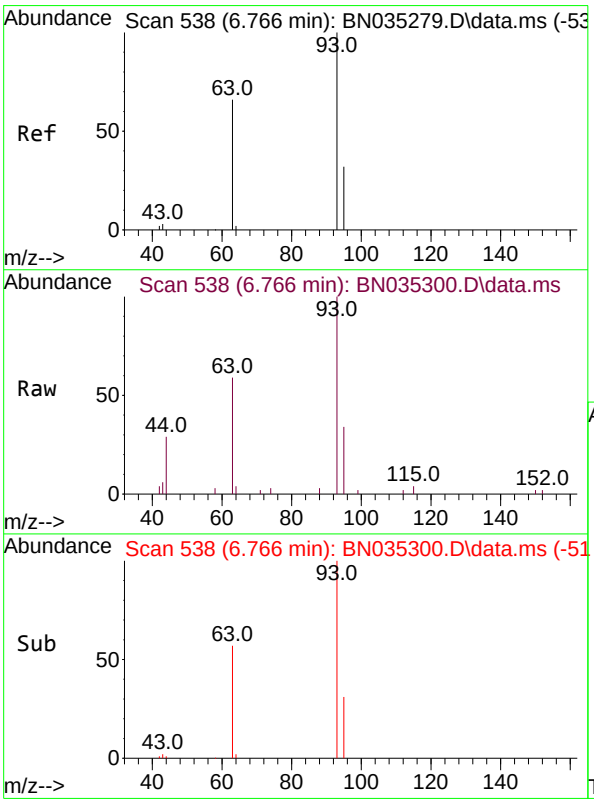
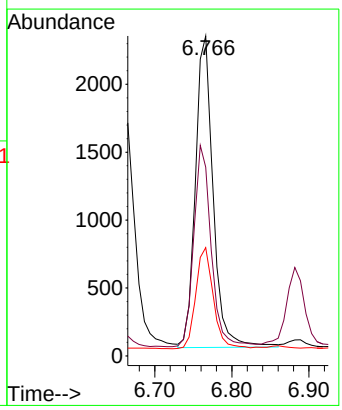
Supervised By :mohammad ahmed 11/27/2024

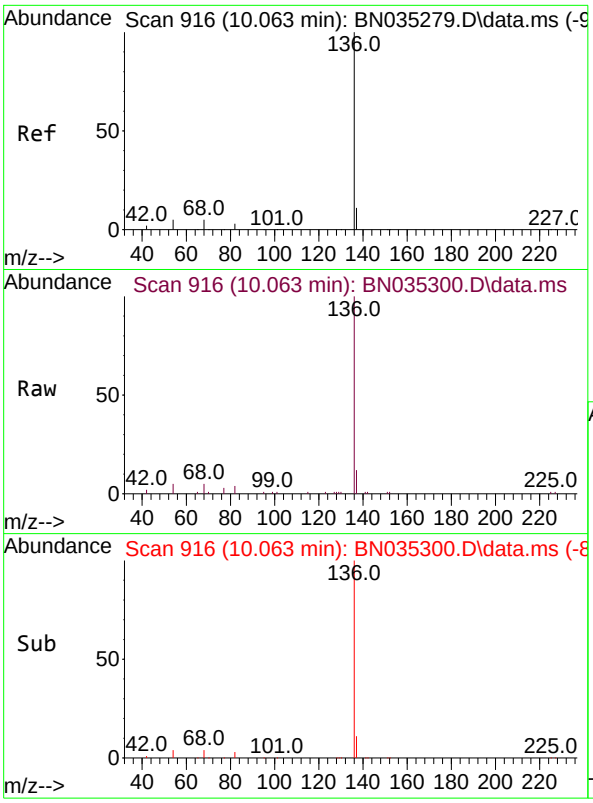


#6
bis(2-Chloroethyl)ether
Concen: 0.435 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion: 93 Resp: 3676

Ion	Ratio	Lower	Upper
93	100		
63	63.3	52.3	78.5
95	32.3	25.5	38.3

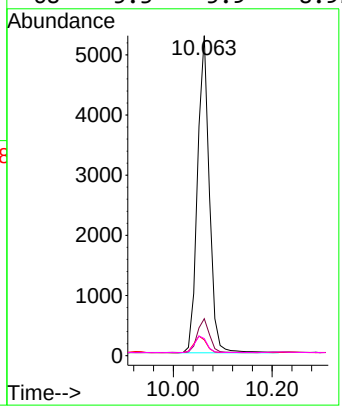




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:136 Resp: 874

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.7	14.5
54	5.0	5.3	7.9#
68	5.3	5.9	8.9#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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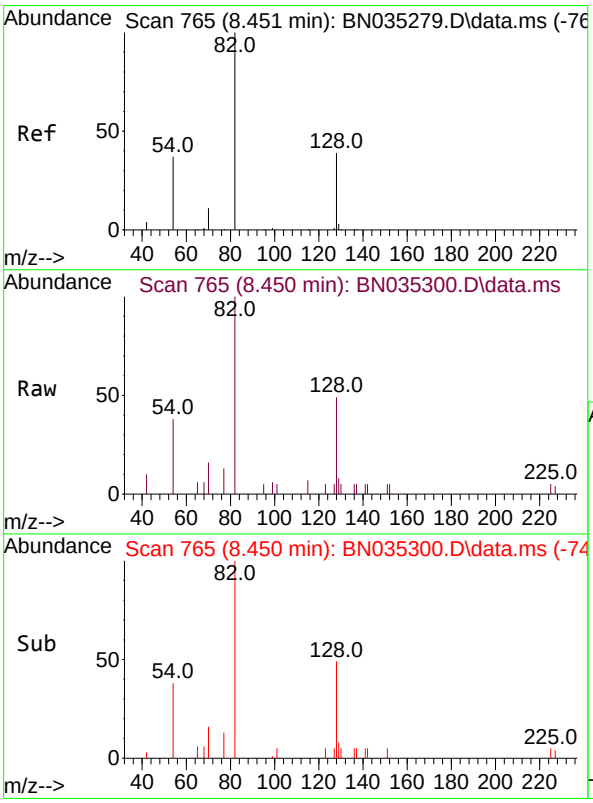
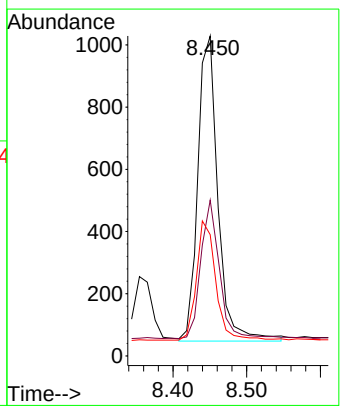
Supervised By :mohammad ahmed 11/27/2024

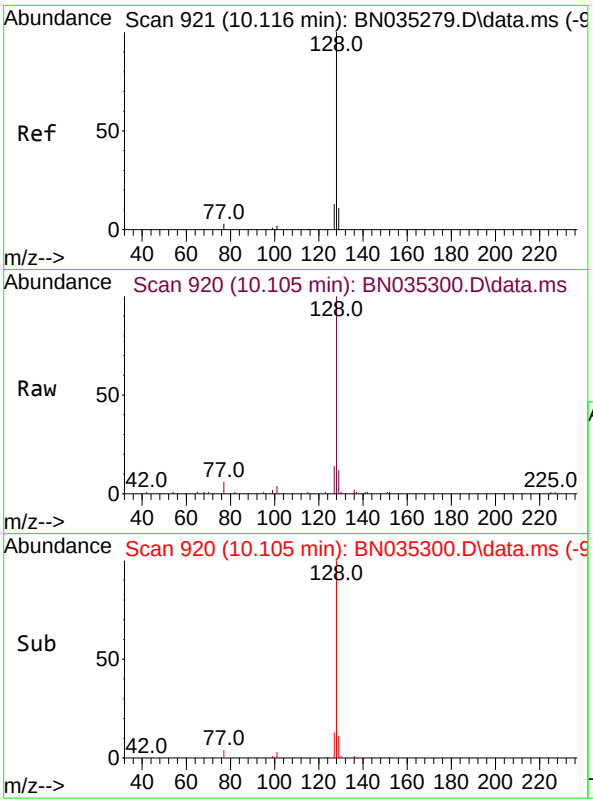


#8
Nitrobenzene-d5
Concen: 0.262 ng m
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion: 82 Resp: 1856

Ion	Ratio	Lower	Upper
82	100		
128	48.7	33.0	49.4
54	37.9	33.3	49.9

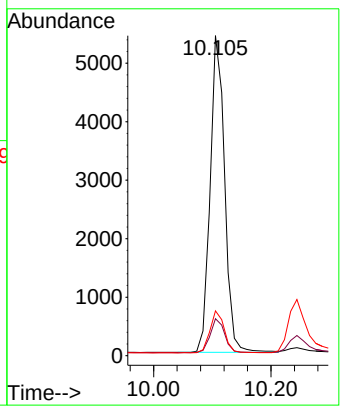




#9
Naphthalene
Concen: 0.382 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:128 Resp: 927

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.6	14.4
127	14.0	11.3	16.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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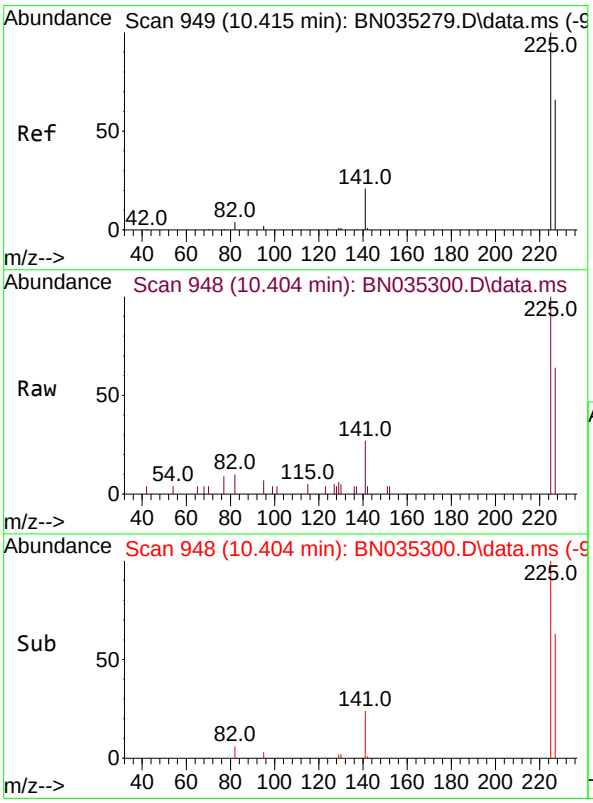
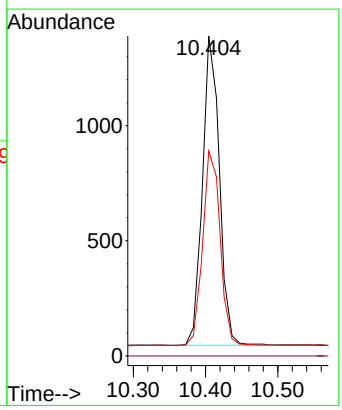
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

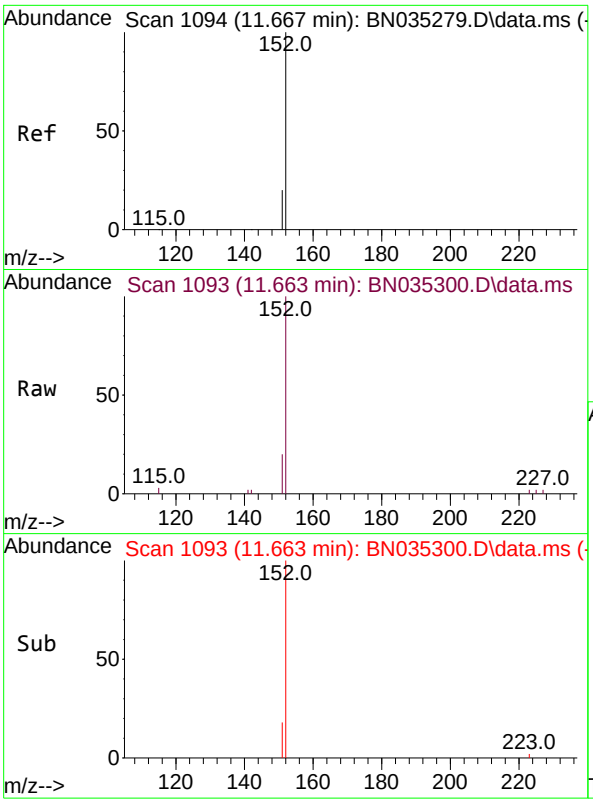


#10
Hexachlorobutadiene
Concen: 0.321 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:225 Resp: 2190

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.2	51.3	76.9

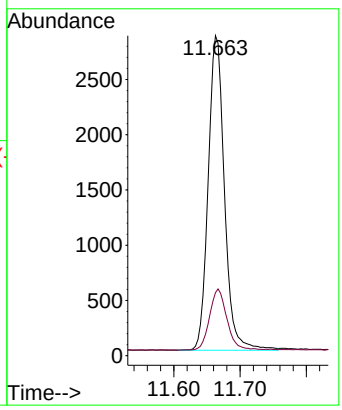




#11
2-Methylnaphthalene-d10
Concen: 0.396 ng
RT: 11.663 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:152 Resp: 485

Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.2	25.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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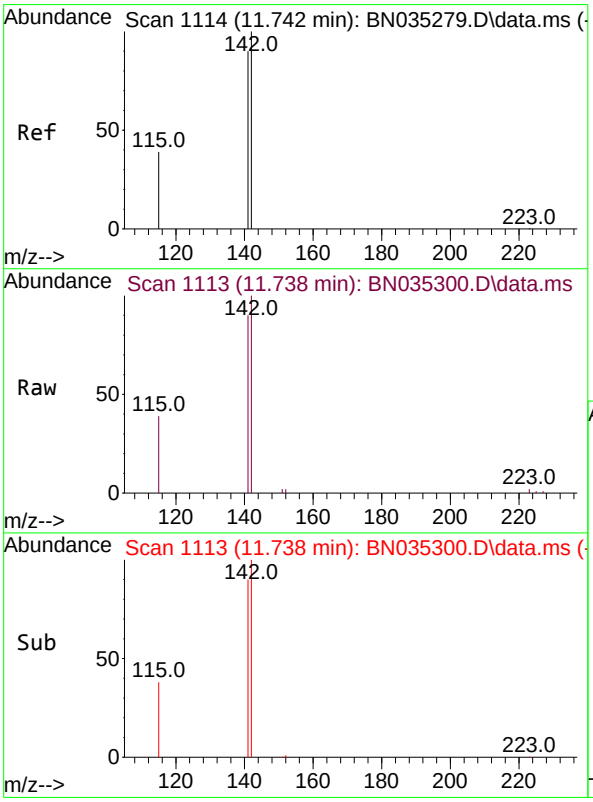
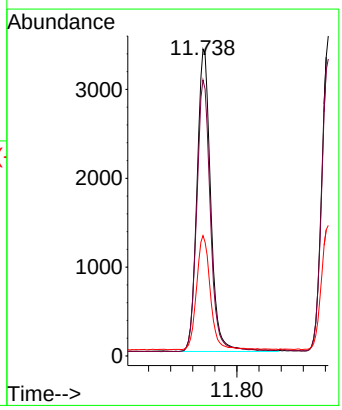
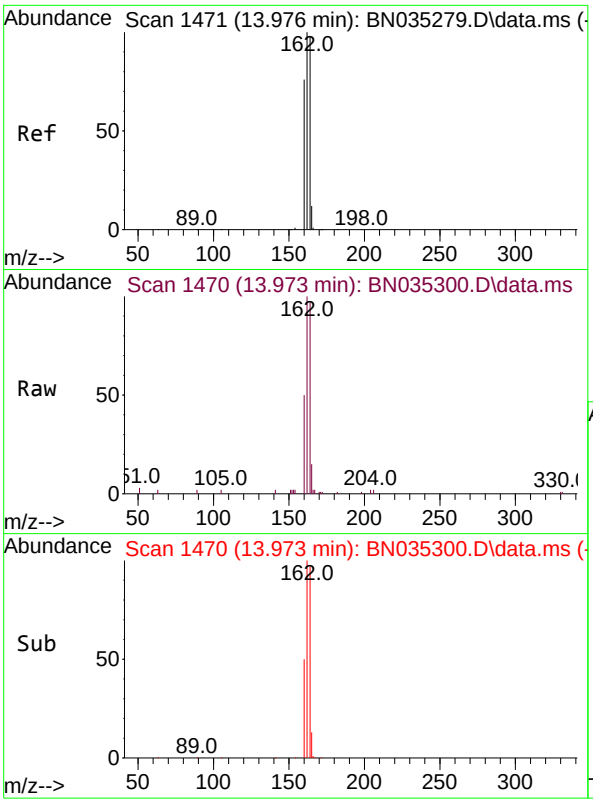


#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.738 min Scan# 1113
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:142 Resp: 5885

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.8	107.8
115	39.2	32.6	49.0

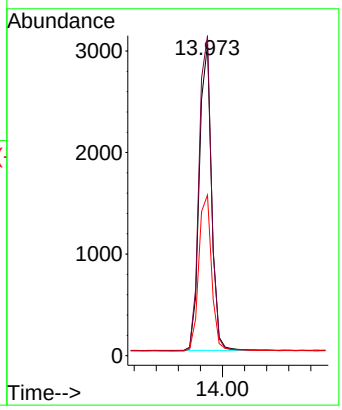




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.973 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:164 Resp: 465

Ion	Ratio	Lower	Upper
164	100		
162	102.8	82.0	123.0
160	51.6	63.0	94.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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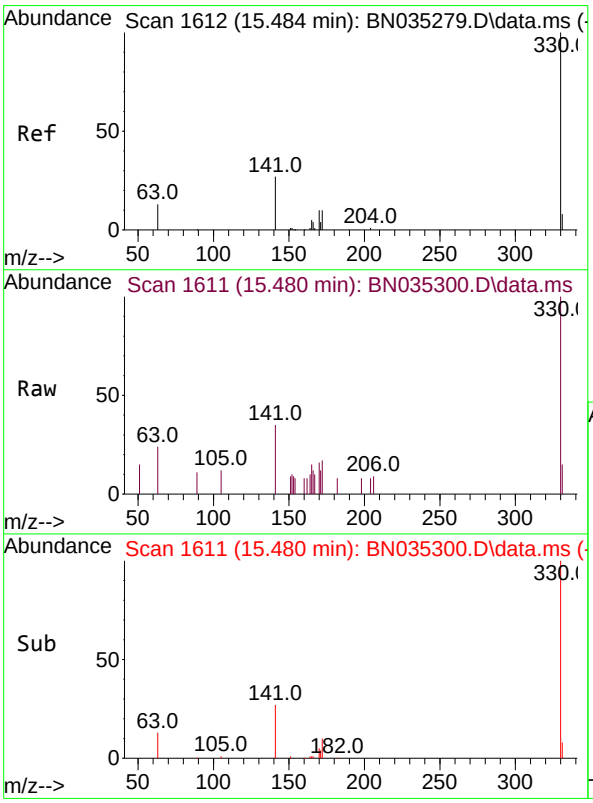
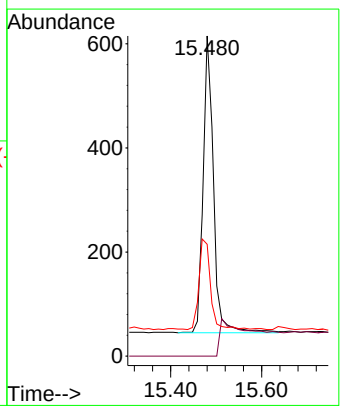
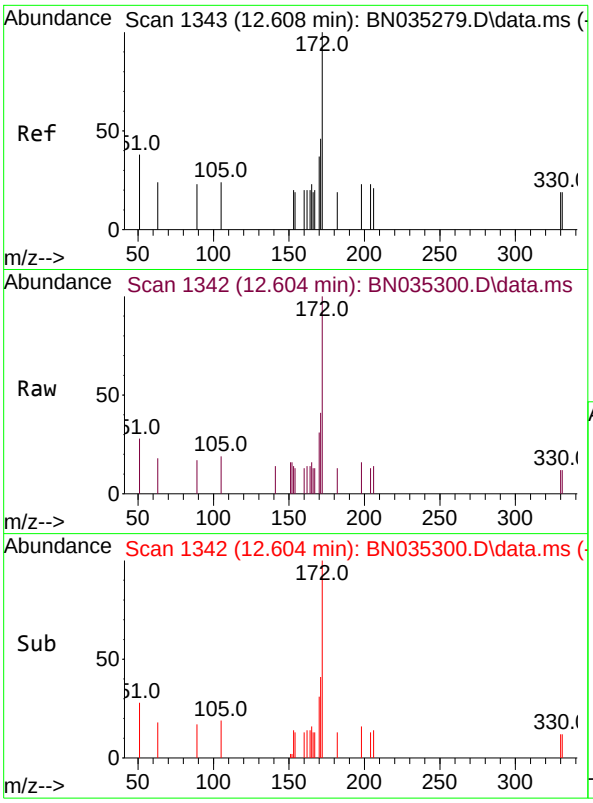


#14
2,4,6-Tribromophenol
Concen: 0.408 ng
RT: 15.480 min Scan# 1611
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:330 Resp: 969

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.5	32.4	48.6

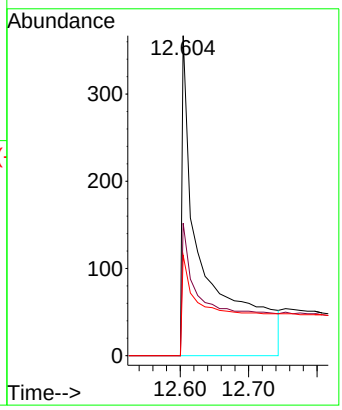




#15
2-Fluorobiphenyl
Concen: 0.310 ng
RT: 12.604 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:172 Resp: 79

Ion	Ratio	Lower	Upper
172	100		
171	41.4	36.6	55.0
170	31.3	29.7	44.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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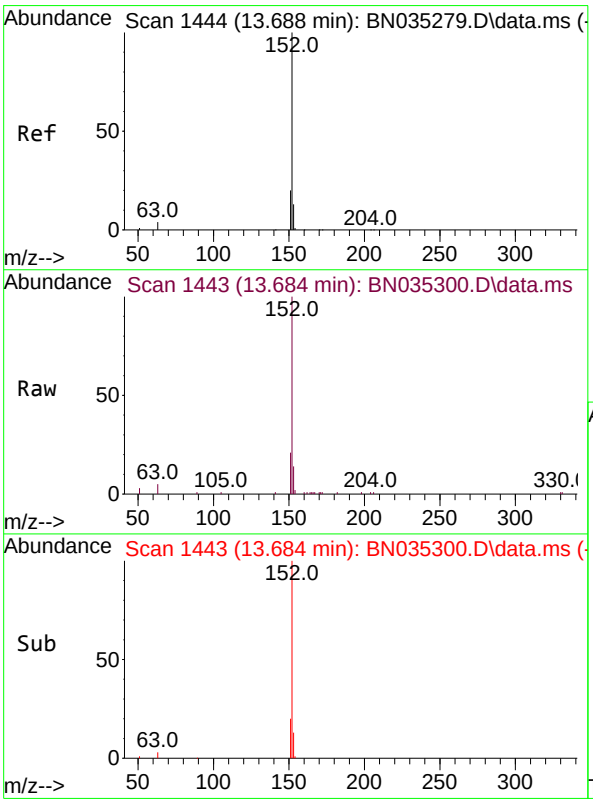
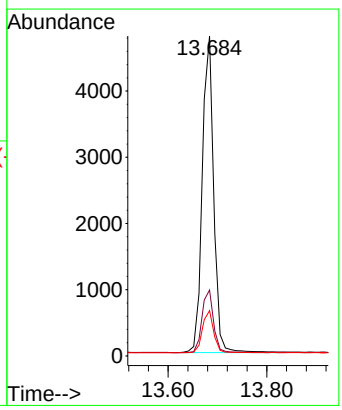
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

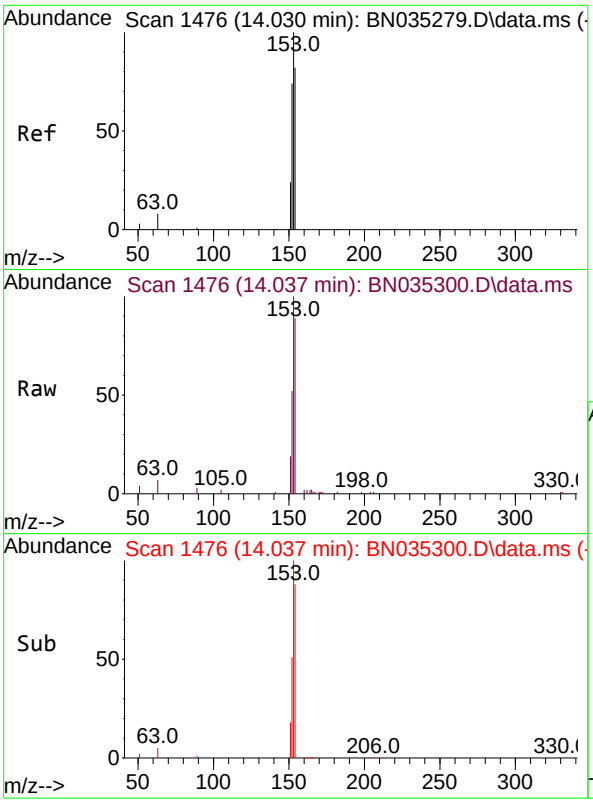


#16
Acenaphthylene
Concen: 0.328 ng
RT: 13.684 min Scan# 1443
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:152 Resp: 7671

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.9	23.9
153	13.1	10.2	15.4

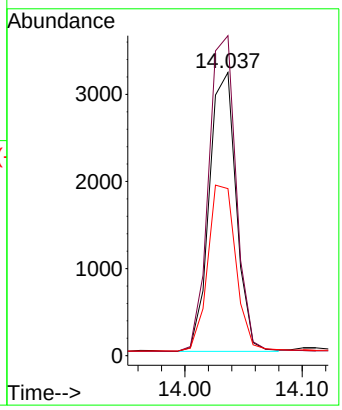




#17
Acenaphthene
Concen: 0.348 ng
RT: 14.037 min Scan# 14
Delta R.T. 0.007 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:154 Resp: 512

Ion	Ratio	Lower	Upper
154	100		
153	115.9	96.1	144.1
152	62.8	72.2	108.2



Instrument :
BNA_N
ClientSampleId :
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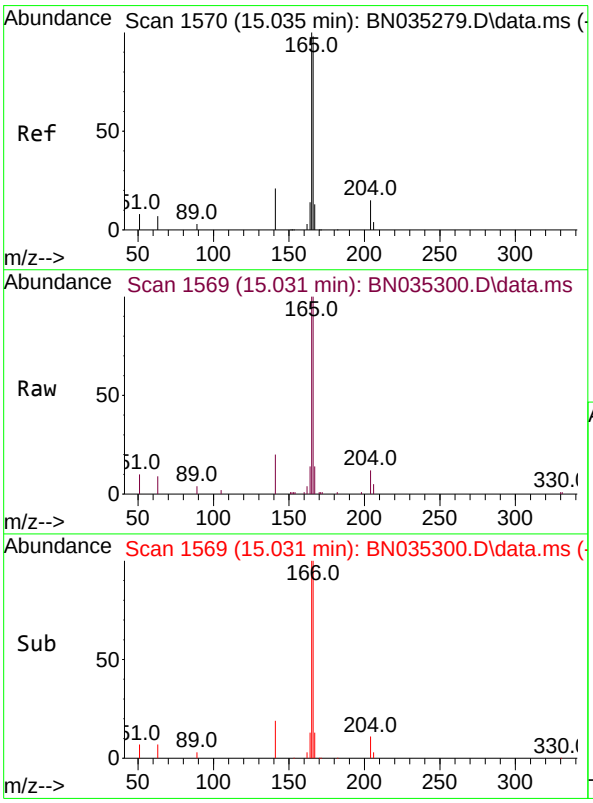
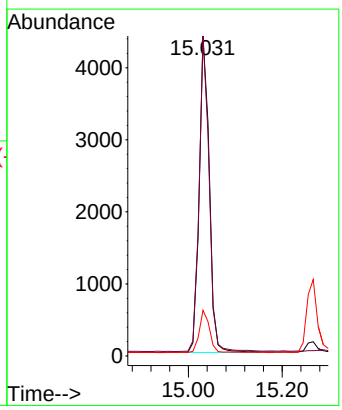
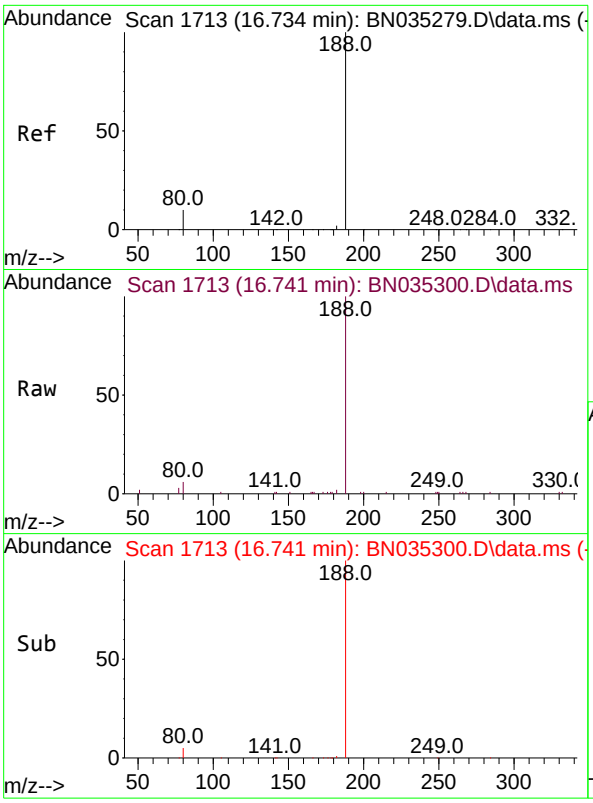


#18
Fluorene
Concen: 0.318 ng
RT: 15.031 min Scan# 1569
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:166 Resp: 6559

Ion	Ratio	Lower	Upper
166	100		
165	98.2	81.2	121.8
167	13.7	10.5	15.7

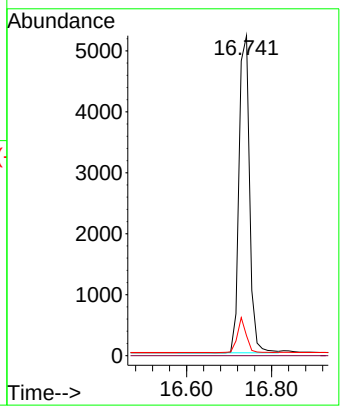




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.741 min Scan# 1
Delta R.T. 0.007 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:188 Resp: 894

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	8.9	13.3



Instrument :
BNA_N
ClientSampleId :
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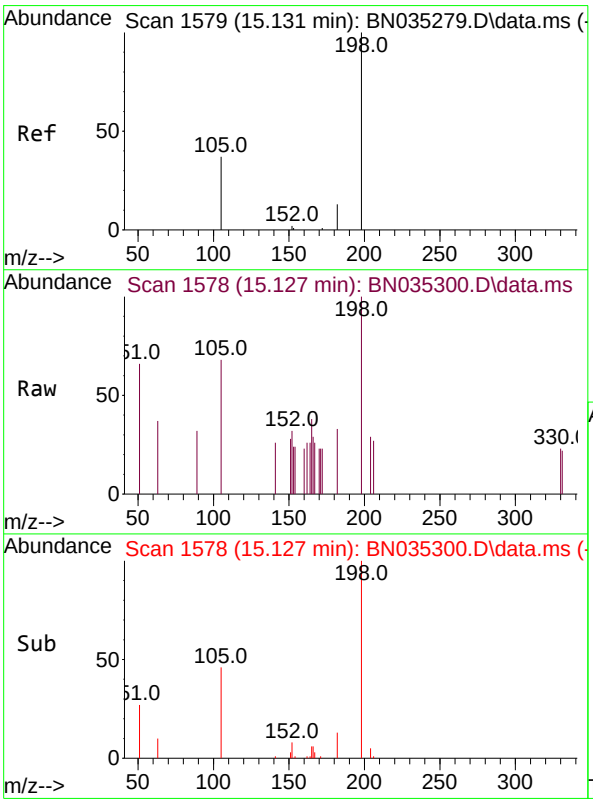
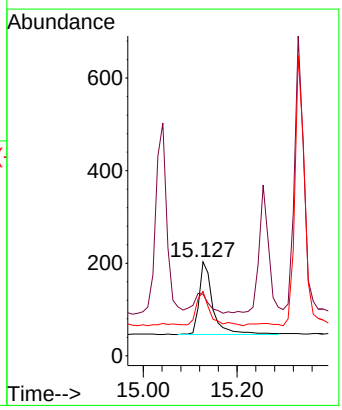
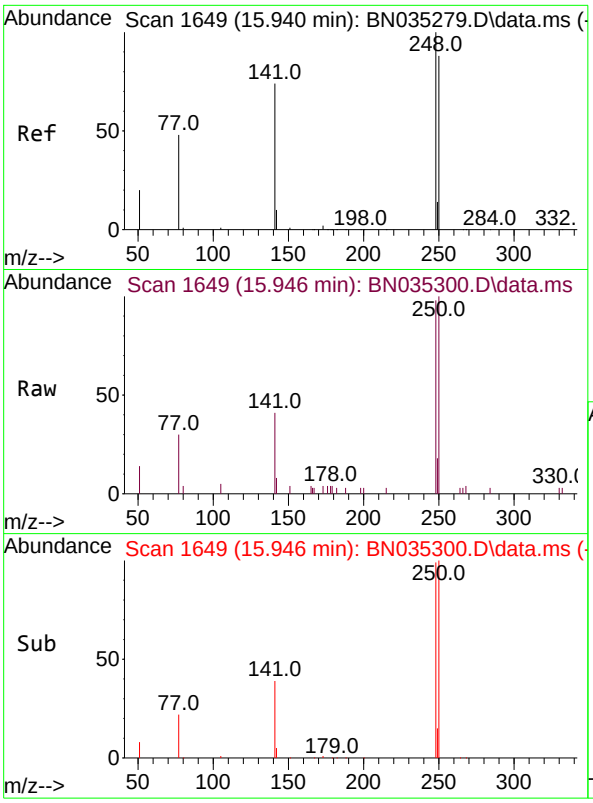


#20
4,6-Dinitro-2-methylphenol
Concen: 0.436 ng
RT: 15.127 min Scan# 1578
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:198 Resp: 319

Ion	Ratio	Lower	Upper
198	100		
51	65.5	53.6	80.4
105	68.5	47.4	71.2

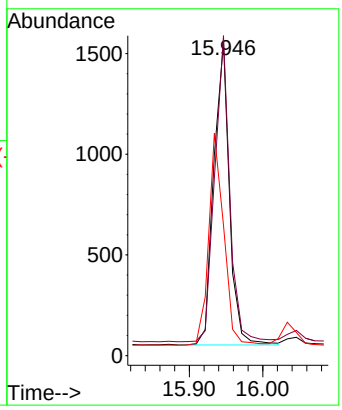




#21
4-Bromophenyl-phenylether
Concen: 0.394 ng
RT: 15.946 min Scan# 1(
Delta R.T. 0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:248 Resp: 223

Ion	Ratio	Lower	Upper
248	100		
250	102.1	74.8	112.2
141	41.6	59.0	88.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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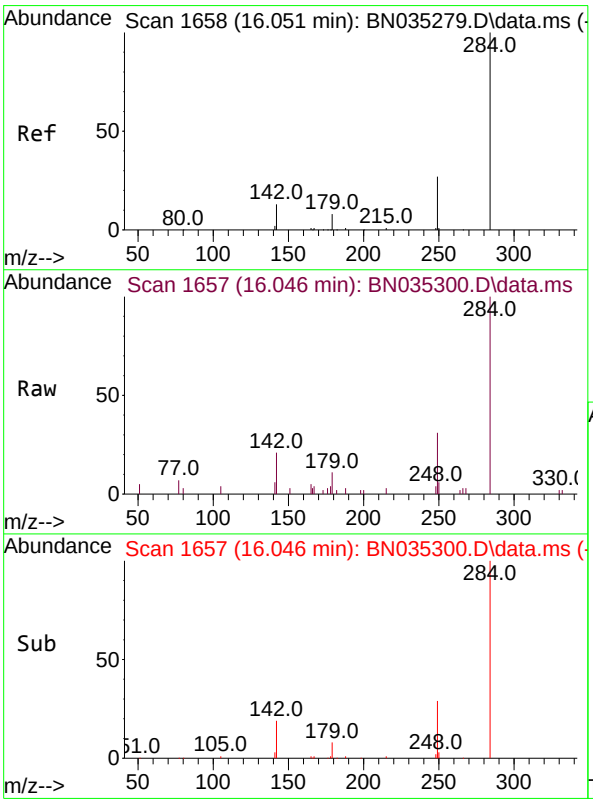
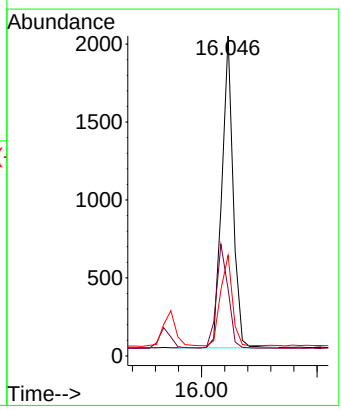
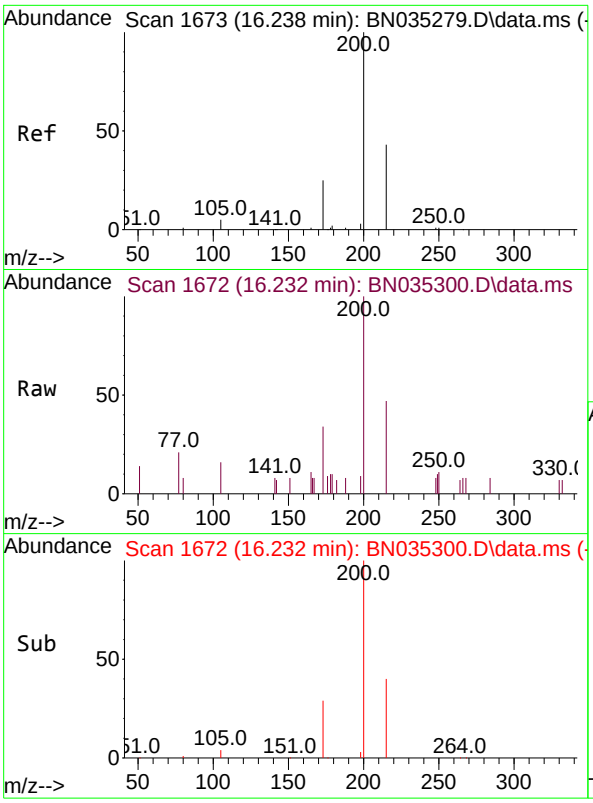


#22
Hexachlorobenzene
Concen: 0.335 ng
RT: 16.046 min Scan# 1657
Delta R.T. -0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:284 Resp: 2720

Ion	Ratio	Lower	Upper
284	100		
142	34.9	28.7	43.1
249	30.4	25.4	38.0





#23
Atrazine
Concen: 0.431 ng
RT: 16.232 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:200 Resp: 103

Ion	Ratio	Lower	Upper
200	100		
173	33.7	25.8	38.8
215	46.8	38.6	58.0

Instrument :
BNA_N
ClientSampleId :
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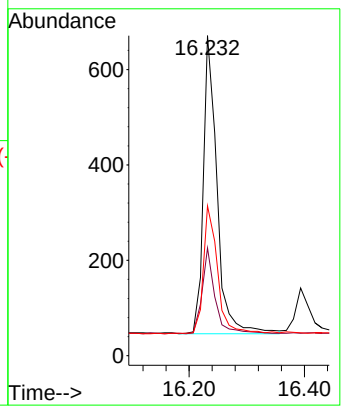
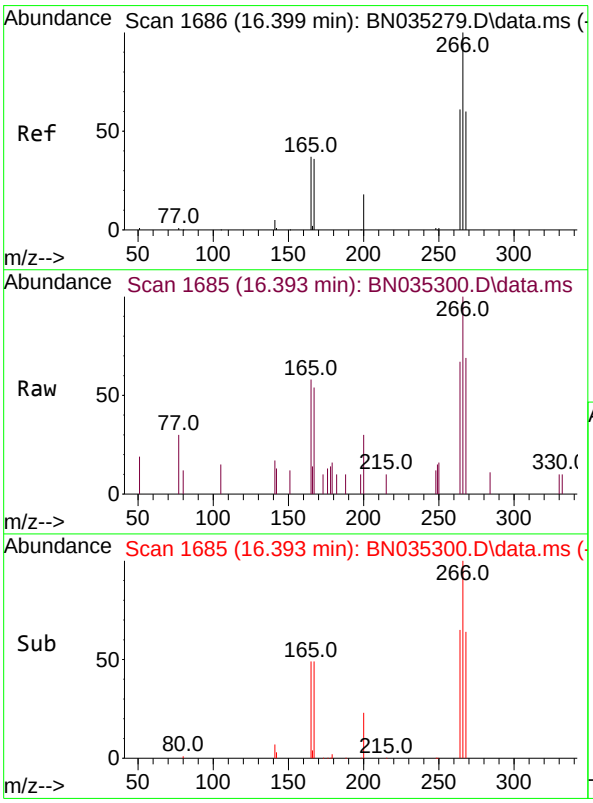
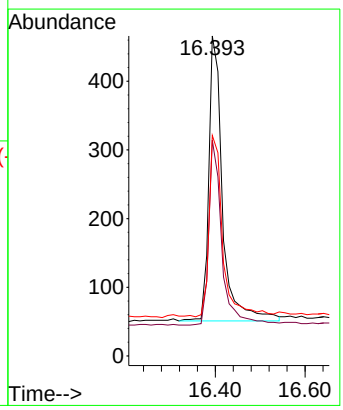


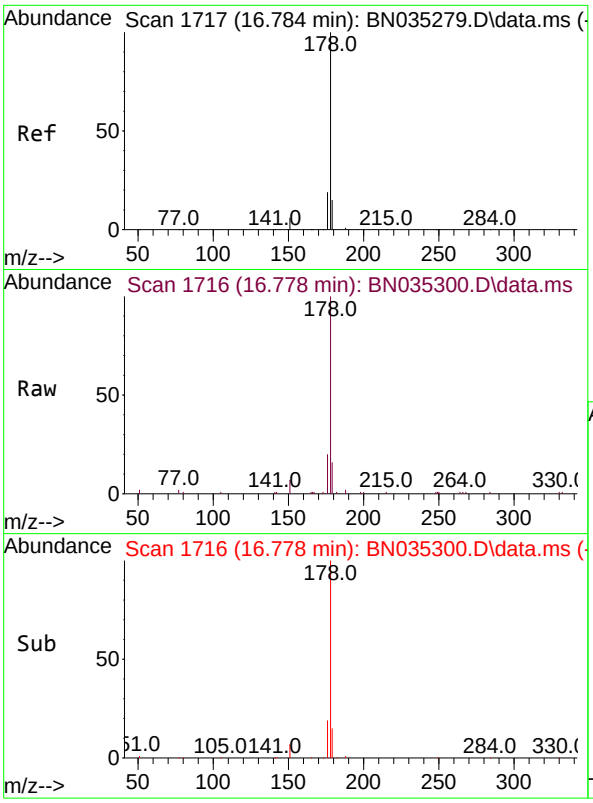


#24
Pentachlorophenol
Concen: 0.450 ng
RT: 16.393 min Scan# 1685
Delta R.T. -0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:266 Resp: 878

Ion	Ratio	Lower	Upper
266	100		
264	61.7	49.3	73.9
268	63.4	48.6	73.0

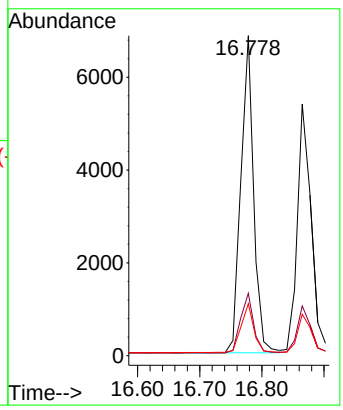




#25
Phenanthrene
Concen: 0.356 ng
RT: 16.778 min Scan# 1
Delta R.T. -0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:178 Resp: 977

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.5	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
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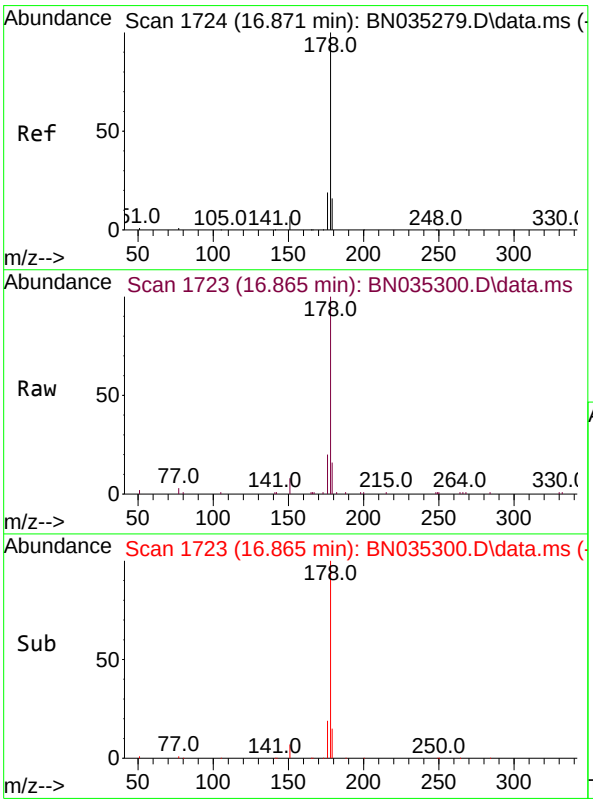
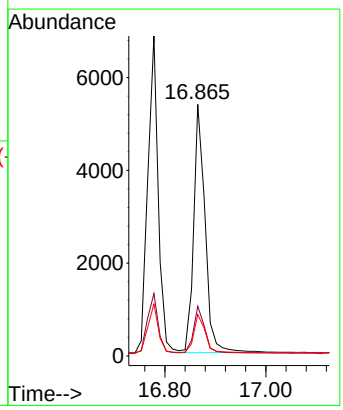
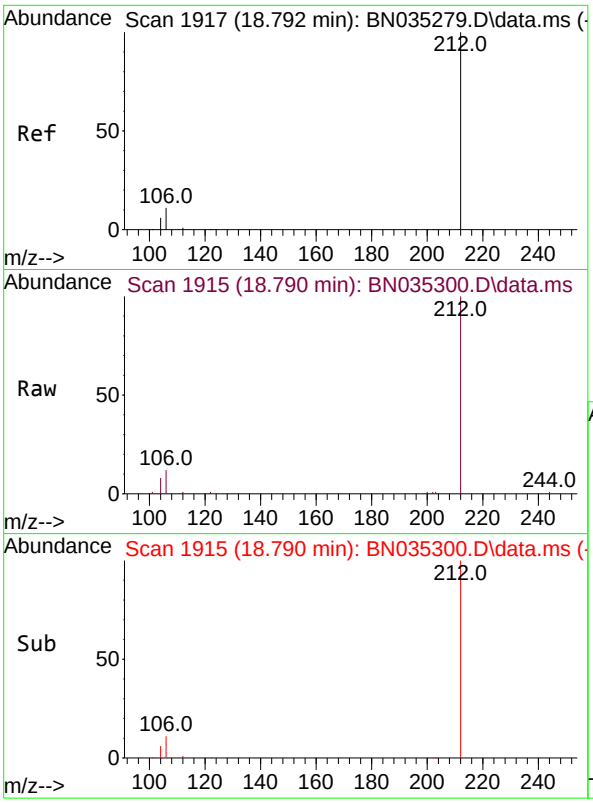


#26
Anthracene
Concen: 0.357 ng
RT: 16.865 min Scan# 1723
Delta R.T. -0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:178 Resp: 8425

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	15.5	12.4	18.6

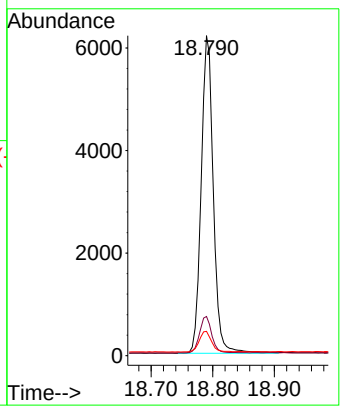




#27
Fluoranthene-d10
Concen: 0.353 ng
RT: 18.790 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:212 Resp: 844

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.8	14.8
104	6.8	5.6	8.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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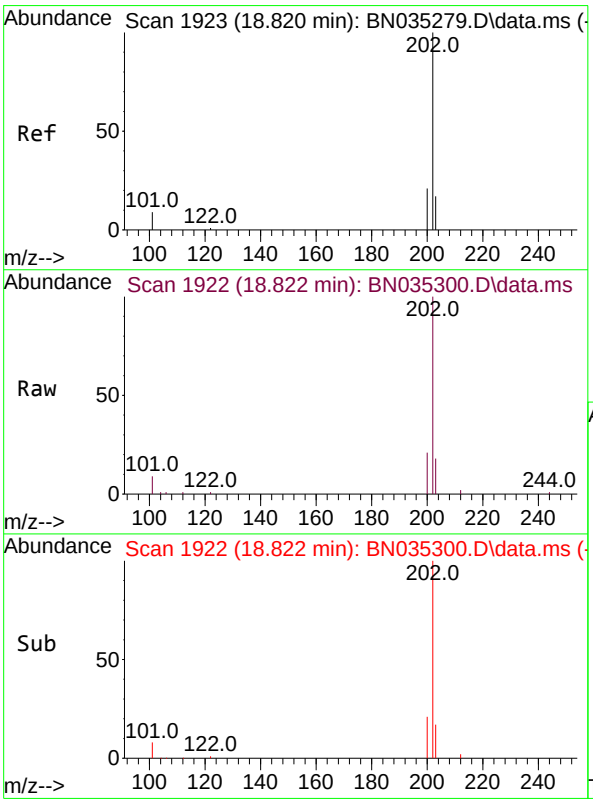
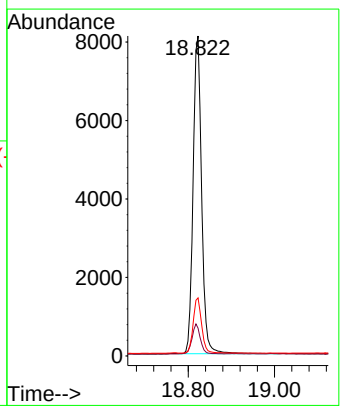
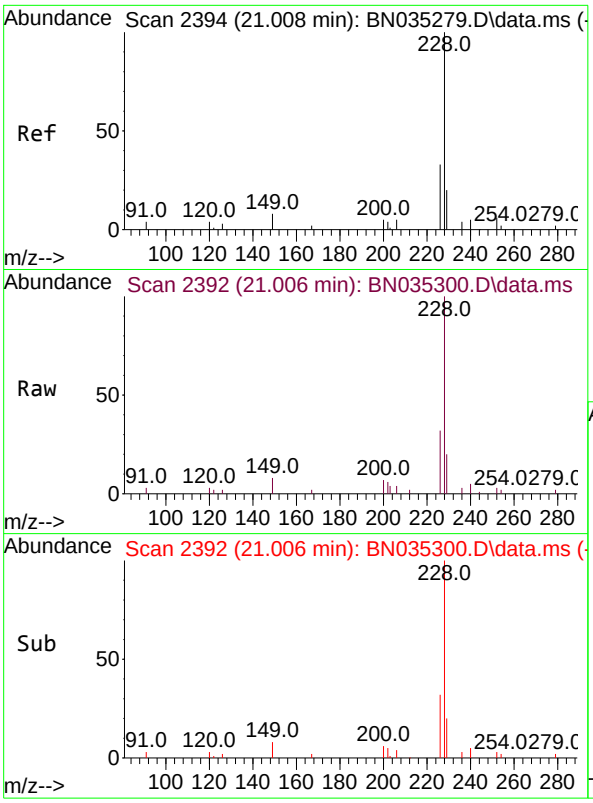


#28
Fluoranthene
Concen: 0.319 ng
RT: 18.822 min Scan# 1922
Delta R.T. 0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:202 Resp: 11052

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.6	11.4
203	17.1	13.8	20.8

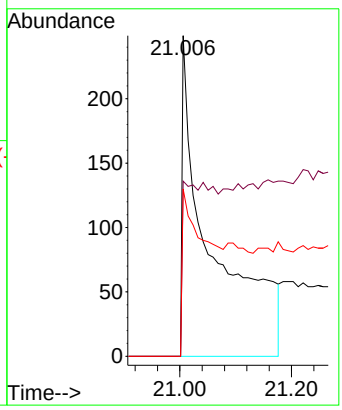




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.006 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:240 Resp: 87

Ion	Ratio	Lower	Upper
240	100		
120	54.6	54.9	82.3#
236	52.2	54.0	81.0#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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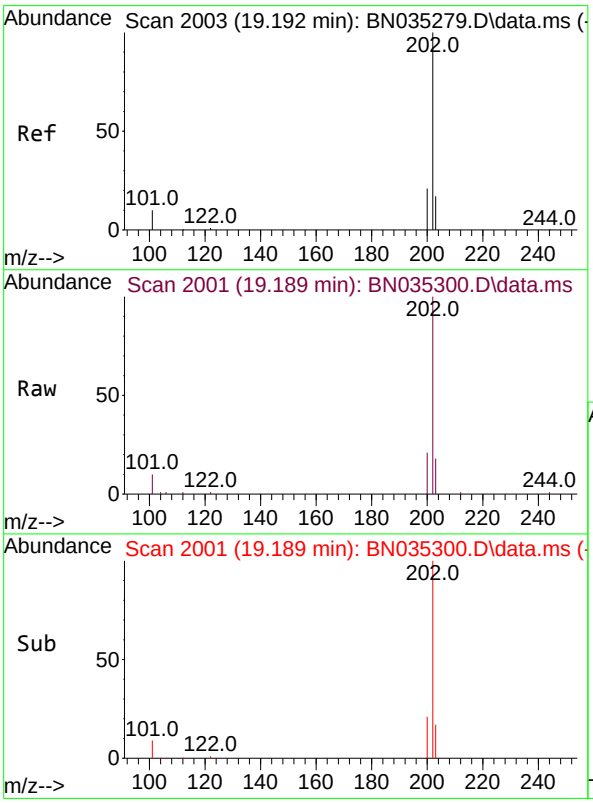
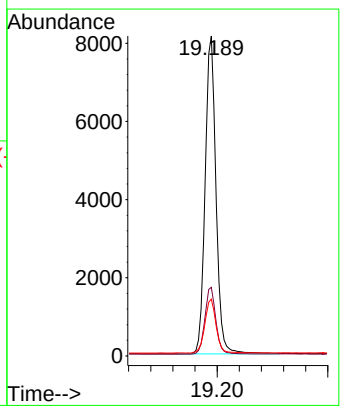
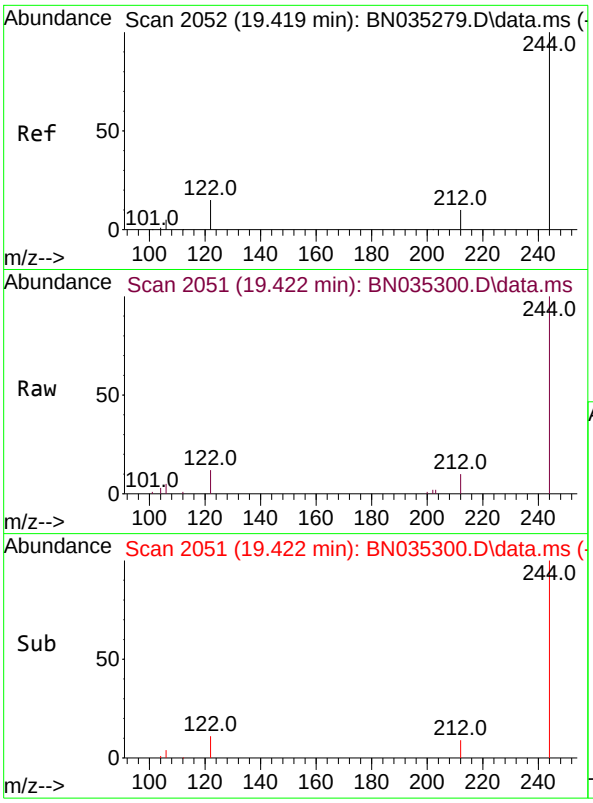


#30
Pyrene
Concen: 0.351 ng
RT: 19.189 min Scan# 2001
Delta R.T. -0.003 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:202 Resp: 11118

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.6	14.4	21.6

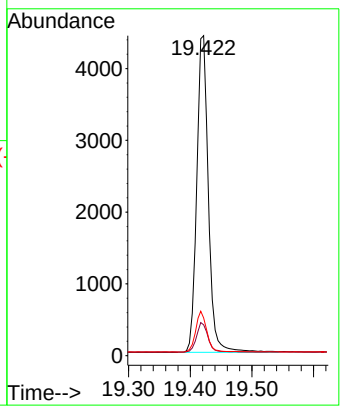




#31
Terphenyl-d14
Concen: 0.361 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:244 Resp: 581

Ion	Ratio	Lower	Upper
244	100		
212	9.6	9.4	14.0
122	11.8	13.0	19.4



Instrument :
BNA_N
ClientSampleId :
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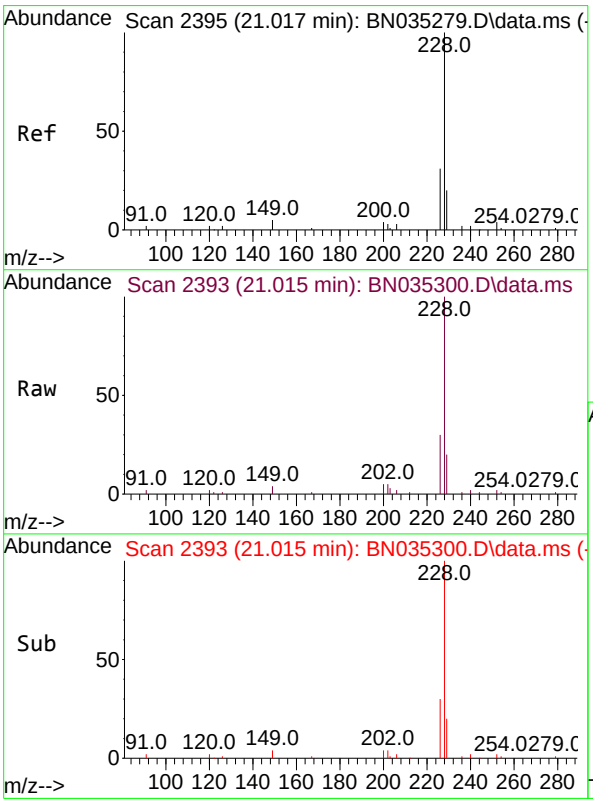
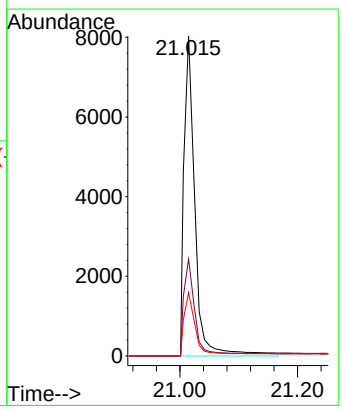
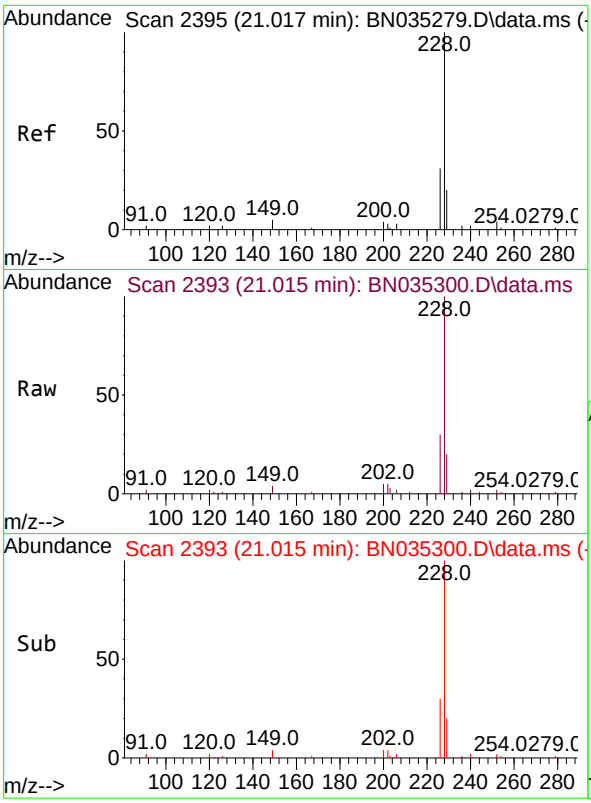


#32
Benzo(a)anthracene
Concen: 0.342 ng
RT: 21.015 min Scan# 2393
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:228 Resp: 10362

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.7	37.1
229	19.8	16.2	24.2

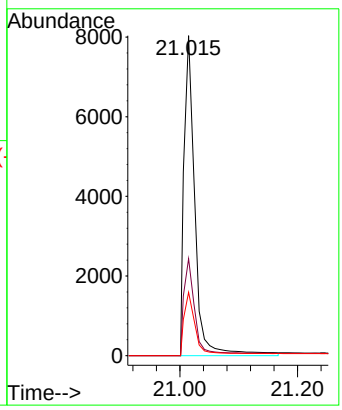




#33
Chrysene
Concen: 0.342 ng
RT: 21.015 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:228 Resp: 1036

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.7	37.1
229	19.8	16.2	24.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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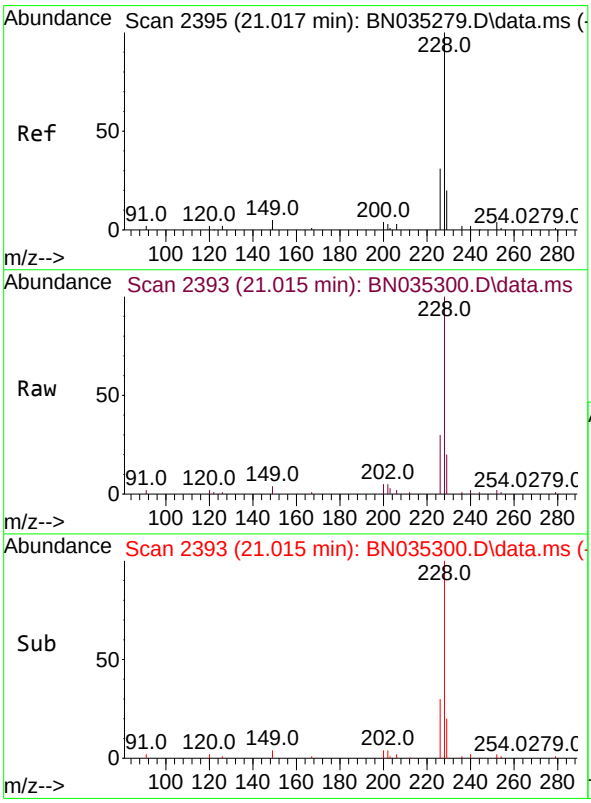
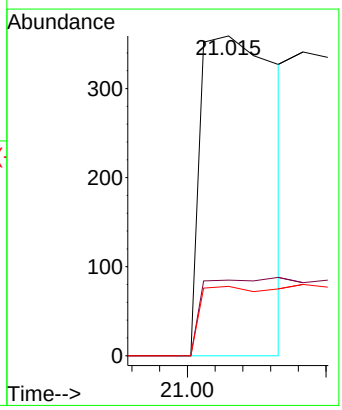
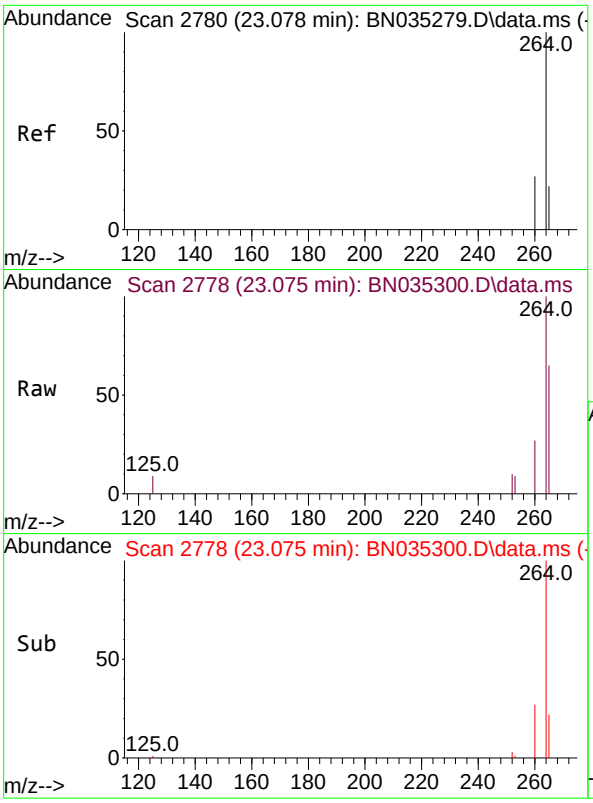


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.358 ng
RT: 21.015 min Scan# 2393
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:149 Resp: 596

Ion	Ratio	Lower	Upper
149	100		
167	32.0	0.0	0.0#
279	15.4	13.0	19.6





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.075 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 800

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.3	33.5
265	64.7	68.6	103.0#

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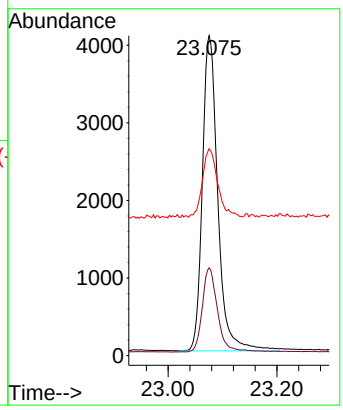
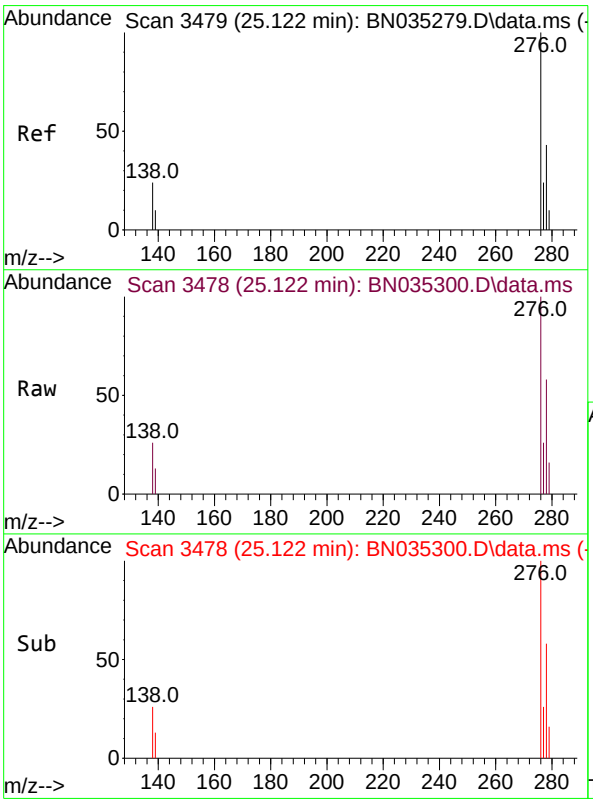
Supervised By :mohammad ahmed 11/27/2024

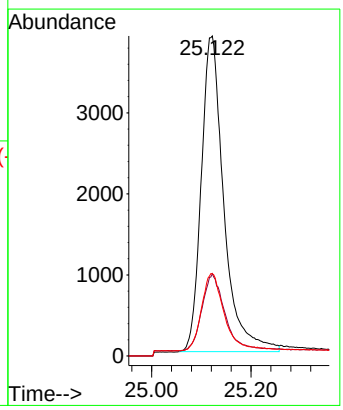


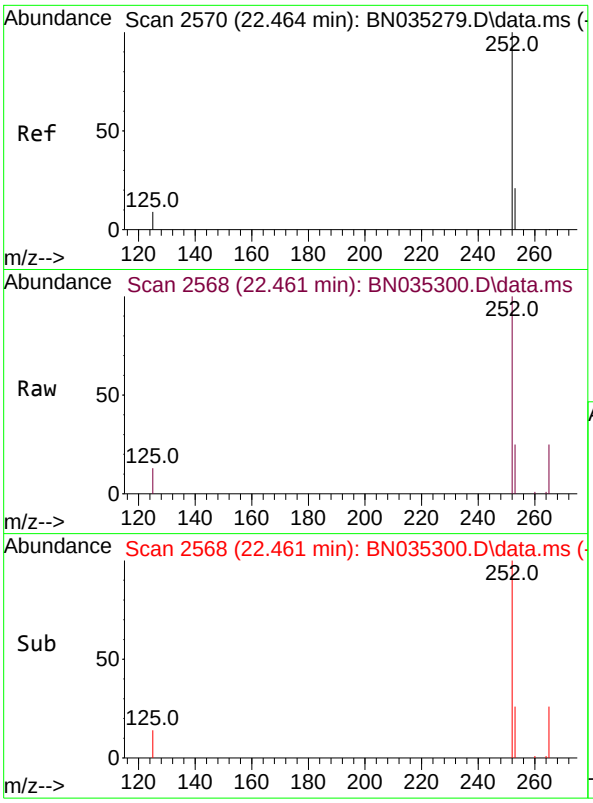


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.122 min Scan# 3478
Delta R.T. 0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:276 Resp: 12330

Ion	Ratio	Lower	Upper
276	100		
138	23.7	18.8	28.2
277	24.0	18.2	27.4

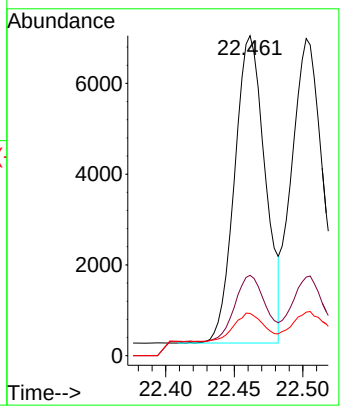




#37
Benzo(b)fluoranthene
Concen: 0.302 ng
RT: 22.461 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:252 Resp: 1048

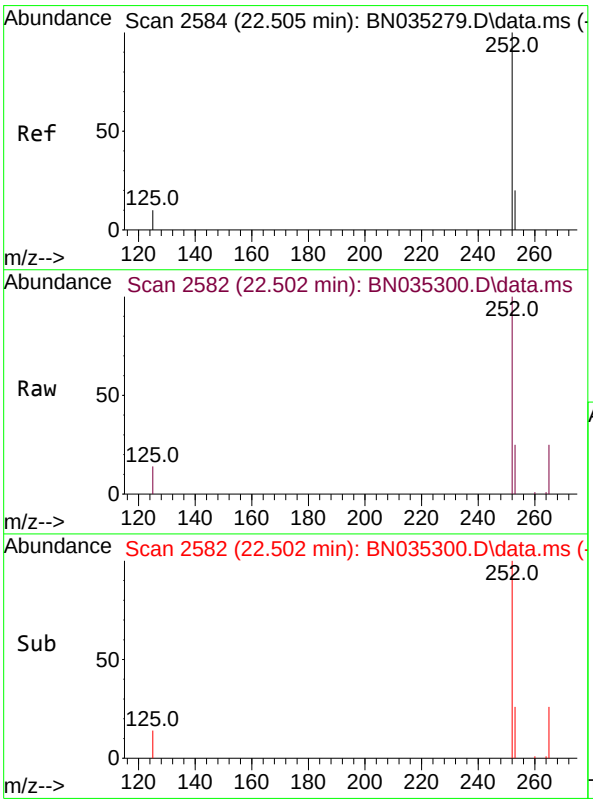
Ion	Ratio	Lower	Upper
252	100		
253	25.1	20.2	30.2
125	13.2	12.0	18.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

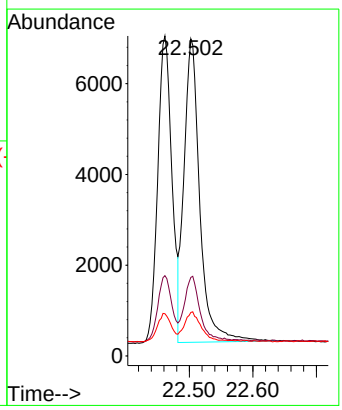
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

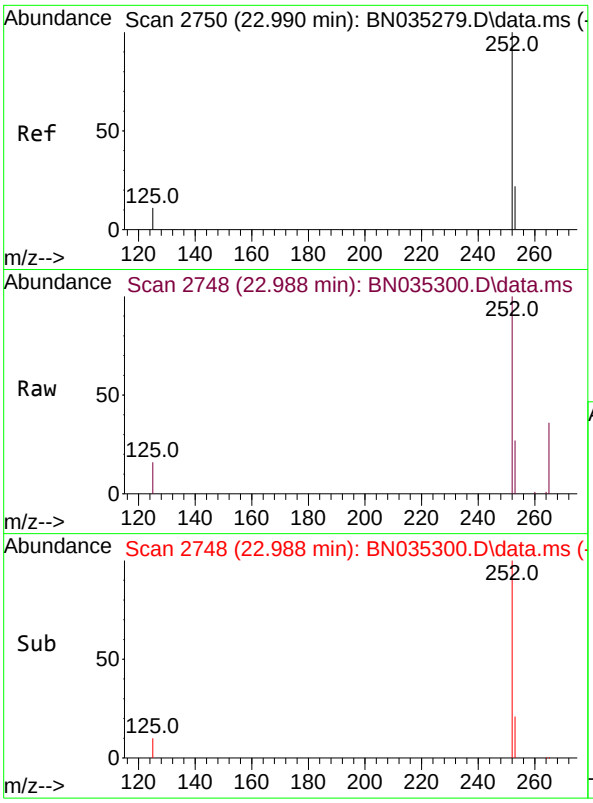


#38
Benzo(k)fluoranthene
Concen: 0.313 ng
RT: 22.502 min Scan# 2582
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:252 Resp: 11527

Ion	Ratio	Lower	Upper
252	100		
253	24.8	20.1	30.1
125	13.7	12.7	19.1

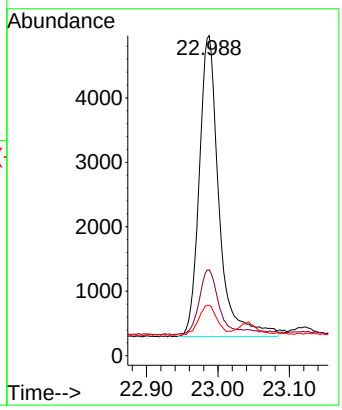




#39
Benzo(a)pyrene
Concen: 0.337 ng
RT: 22.988 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:252 Resp: 895

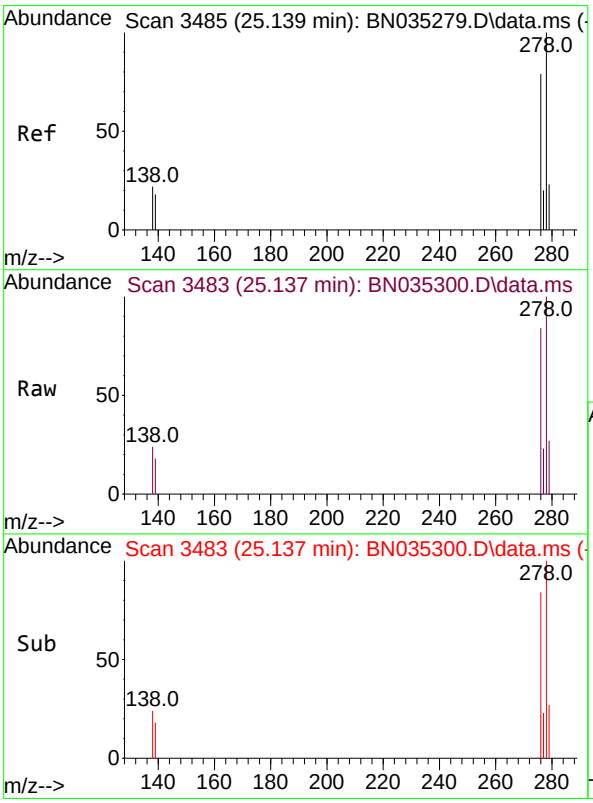
Ion	Ratio	Lower	Upper
252	100		
253	26.8	22.3	33.5
125	15.7	15.3	22.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

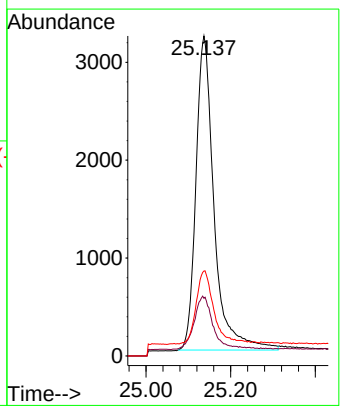
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

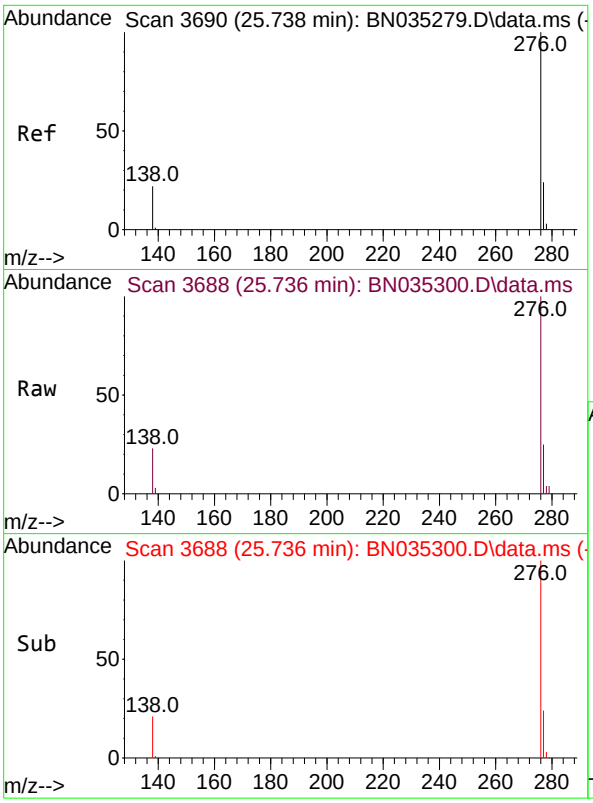


#40
Dibenzo(a,h)anthracene
Concen: 0.386 ng
RT: 25.137 min Scan# 3483
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:278 Resp: 9558

Ion	Ratio	Lower	Upper
278	100		
139	18.0	17.0	25.6
279	26.6	23.0	34.4

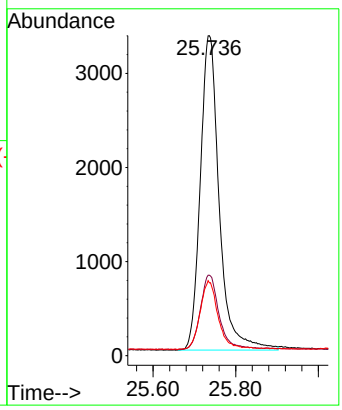




#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 25.736 min Scan# 3
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:276 Resp: 1064

Ion	Ratio	Lower	Upper
276	100		
277	25.2	21.1	31.7
138	22.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035300.D
Acq On : 26 Nov 2024 03:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 26 04:38:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 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	173#	0.00
2		1,4-Dioxane	0.288	0.391	-35.8#	236#	0.00
3		n-Nitrosodimethylamine	0.298	0.288	3.4	176#	0.00
4	S	2-Fluorophenol	0.756	1.011	-33.7#	222#	0.00
5	S	Phenol-d6	1.056	1.202	-13.8	188#	0.00
6		bis(2-Chloroethyl)ether	0.889	0.966	-8.7	187#	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	164#	0.00
8	S	Nitrobenzene-d5	0.324	0.212	34.6#	101	0.00
9		Naphthalene	1.110	1.061	4.4	160#	-0.01
10		Hexachlorobutadiene	0.312	0.250	19.9	132	-0.01
11	SURR	2-Methylnaphthalene-d10	0.560	0.555	0.9	169#	0.00
12		2-Methylnaphthalene	0.726	0.673	7.3	162#	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	158#	0.00
14	S	2,4,6-Tribromophenol	0.204	0.208	-2.0	182#	0.00
15	S	2-Fluorobiphenyl	0.221	0.171	22.6	110	0.00
16		Acenaphthylene	2.013	1.650	18.0	138	0.00
17		Acenaphthene	1.267	1.103	12.9	148	0.00
18		Fluorene	1.777	1.411	20.6	136	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	130	0.00
20		4,6-Dinitro-2-methylphenol	0.041	0.036	12.2	137	0.00
21		4-Bromophenyl-phenylether	0.254	0.250	1.6	138	0.00
22		Hexachlorobenzene	0.363	0.304	16.3	112	0.00
23		Atrazine	0.107	0.115	-7.5	150	0.00
24		Pentachlorophenol	0.087	0.098	-12.6	161#	0.00
25		Phenanthrene	1.229	1.093	11.1	125	0.00
26		Anthracene	1.055	0.942	10.7	134	0.00
27	SURR	Fluoranthene-d10	1.070	0.944	11.8	127	0.00
28		Fluoranthene	1.550	1.236	20.3	120	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	149	0.00
30		Pyrene	14.551	12.765	12.3	124	0.00
31	S	Terphenyl-d14	7.392	6.672	9.7	137	0.00
32		Benzo(a)anthracene	13.920	11.897	14.5	128	0.00
33		Chrysene	13.920	11.897	14.5	128	0.00
34		Bis(2-ethylhexyl)phthalate	0.765	0.684	10.6	112	0.00
35	I	Perylene-d12	1.000	1.000	0.0	171#	0.00
36		Indeno(1,2,3-cd)pyrene	1.638	1.541	5.9	173#	0.00
37		Benzo(b)fluoranthene	1.738	1.311	24.6	154#	0.00
38		Benzo(k)fluoranthene	1.839	1.441	21.6	151#	0.00
39	C	Benzo(a)pyrene	1.329	1.120	15.7	167#	0.00
40		Dibenzo(a,h)anthracene	1.238	1.195	3.5	184#	0.00
41		Benzo(g,h,i)perylene	1.432	1.331	7.1	183#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035300.D
Acq On : 26 Nov 2024 03:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 26 04:38:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 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	173	0.00
2		1,4-Dioxane	0.400	0.544	-36.0#	236	0.00
3		n-Nitrosodimethylamine	0.400	0.387	3.3	176	0.00
4	S	2-Fluorophenol	0.400	0.535	-33.8#	222	0.00
5	S	Phenol-d6	0.400	0.455	-13.7	188	0.00
6		bis(2-Chloroethyl)ether	0.400	0.435	-8.7	187	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	164	0.00
8	S	Nitrobenzene-d5	0.400	0.262	34.5#	101	0.00
9		Naphthalene	0.400	0.382	4.5	160	-0.01
10		Hexachlorobutadiene	0.400	0.321	19.8	132	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.396	1.0	169	0.00
12		2-Methylnaphthalene	0.400	0.371	7.3	162	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	158	0.00
14	S	2,4,6-Tribromophenol	0.400	0.408	-2.0	182	0.00
15	S	2-Fluorobiphenyl	0.400	0.310	22.5	110	0.00
16		Acenaphthylene	0.400	0.328	18.0	138	0.00
17		Acenaphthene	0.400	0.348	13.0	148	0.00
18		Fluorene	0.400	0.318	20.5	136	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	130	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.436	-9.0	137	0.00
21		4-Bromophenyl-phenylether	0.400	0.394	1.5	138	0.00
22		Hexachlorobenzene	0.400	0.335	16.3	112	0.00
23		Atrazine	0.400	0.431	-7.7	150	0.00
24		Pentachlorophenol	0.400	0.450	-12.5	161	0.00
25		Phenanthrene	0.400	0.356	11.0	125	0.00
26		Anthracene	0.400	0.357	10.8	134	0.00
27	SURR	Fluoranthene-d10	0.400	0.353	11.8	127	0.00
28		Fluoranthene	0.400	0.319	20.3	120	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	149	0.00
30		Pyrene	0.400	0.351	12.3	124	0.00
31	S	Terphenyl-d14	0.400	0.361	9.8	137	0.00
32		Benzo(a)anthracene	0.400	0.342	14.5	128	0.00
33		Chrysene	0.400	0.342	14.5	128	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.358	10.5	112	0.00
35	I	Perylene-d12	0.400	0.400	0.0	171	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.376	6.0	173	0.00
37		Benzo(b)fluoranthene	0.400	0.302	24.5	154	0.00
38		Benzo(k)fluoranthene	0.400	0.313	21.8	151	0.00
39	C	Benzo(a)pyrene	0.400	0.337	15.8	167	0.00
40		Dibenzo(a,h)anthracene	0.400	0.386	3.5	184	0.00
41		Benzo(g,h,i)perylene	0.400	0.372	7.0	183	0.00

(#) = 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: TETR06

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG No.: P4959

Instrument ID: BNA_N Calibration Date/Time: 11/28/2024 04:51

Lab File ID: BN035368.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.617		-1.4	20.0
Fluoranthene-d10	1.134	1.065		-6.1	20.0
2-Fluorophenol	1.001	1.030		2.9	20.0
Phenol-d6	1.204	1.273		5.7	20.0
Nitrobenzene-d5	0.244	0.241		-1.2	20.0
2-Fluorobiphenyl	1.512	1.520		0.5	20.0
2,4,6-Tribromophenol	0.284	0.280		-1.4	20.0
Terphenyl-d14	0.789	0.788		-0.1	20.0
1,4-Dioxane	0.382	0.375		-1.8	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035368.D
Acq On : 28 Nov 2024 04:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 28 05:19:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2051	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5360	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3908	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	9758	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	9496	0.400	ng	0.00
35) Perylene-d12	23.067	264	10416	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	2113	0.412	ng	0.00
5) Phenol-d6	6.513	99	2611	0.423	ng	0.00
8) Nitrobenzene-d5	8.440	82	1292m	0.395	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	3309	0.394	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	1093	0.394	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	5940	0.402	ng	0.00
27) Fluoranthene-d10	18.785	212	10388	0.376	ng	0.00
31) Terphenyl-d14	19.412	244	7482	0.399	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	770	0.393	ng	100
3) n-Nitrosodimethylamine	3.292	42	671	0.411	ng	# 98
6) bis(2-Chloroethyl)ether	6.759	93	2024	0.390	ng	100
9) Naphthalene	10.105	128	5590	0.395	ng	100
10) Hexachlorobutadiene	10.404	225	1343	0.412	ng	# 100
12) 2-Methylnaphthalene	11.732	142	4014	0.397	ng	99
16) Acenaphthylene	13.679	152	6370	0.388	ng	99
17) Acenaphthene	14.031	154	4272	0.392	ng	100
18) Fluorene	15.026	166	6118	0.392	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	349	0.364	ng	98
21) 4-Bromophenyl-phenylether	15.941	248	2214	0.388	ng	99
22) Hexachlorobenzene	16.040	284	2712	0.405	ng	99
23) Atrazine	16.227	200	1469	0.362	ng	98
24) Pentachlorophenol	16.400	266	1108	0.380	ng	87
25) Phenanthrene	16.773	178	10414	0.389	ng	100
26) Anthracene	16.860	178	9214	0.380	ng	100
28) Fluoranthene	18.812	202	13563	0.375	ng	100
30) Pyrene	19.184	202	14155	0.404	ng	100
32) Benzo(a)anthracene	20.956	228	12659	0.381	ng	100
33) Chrysene	21.009	228	13795	0.403	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4791	0.365	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	15947	0.392	ng	99
37) Benzo(b)fluoranthene	22.453	252	16437	0.431	ng	100
38) Benzo(k)fluoranthene	22.497	252	14678	0.391	ng	99
39) Benzo(a)pyrene	22.980	252	11871	0.378	ng	99
40) Dibenzo(a,h)anthracene	25.128	278	12541	0.390	ng	99
41) Benzo(g,h,i)perylene	25.722	276	12859	0.383	ng	98

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

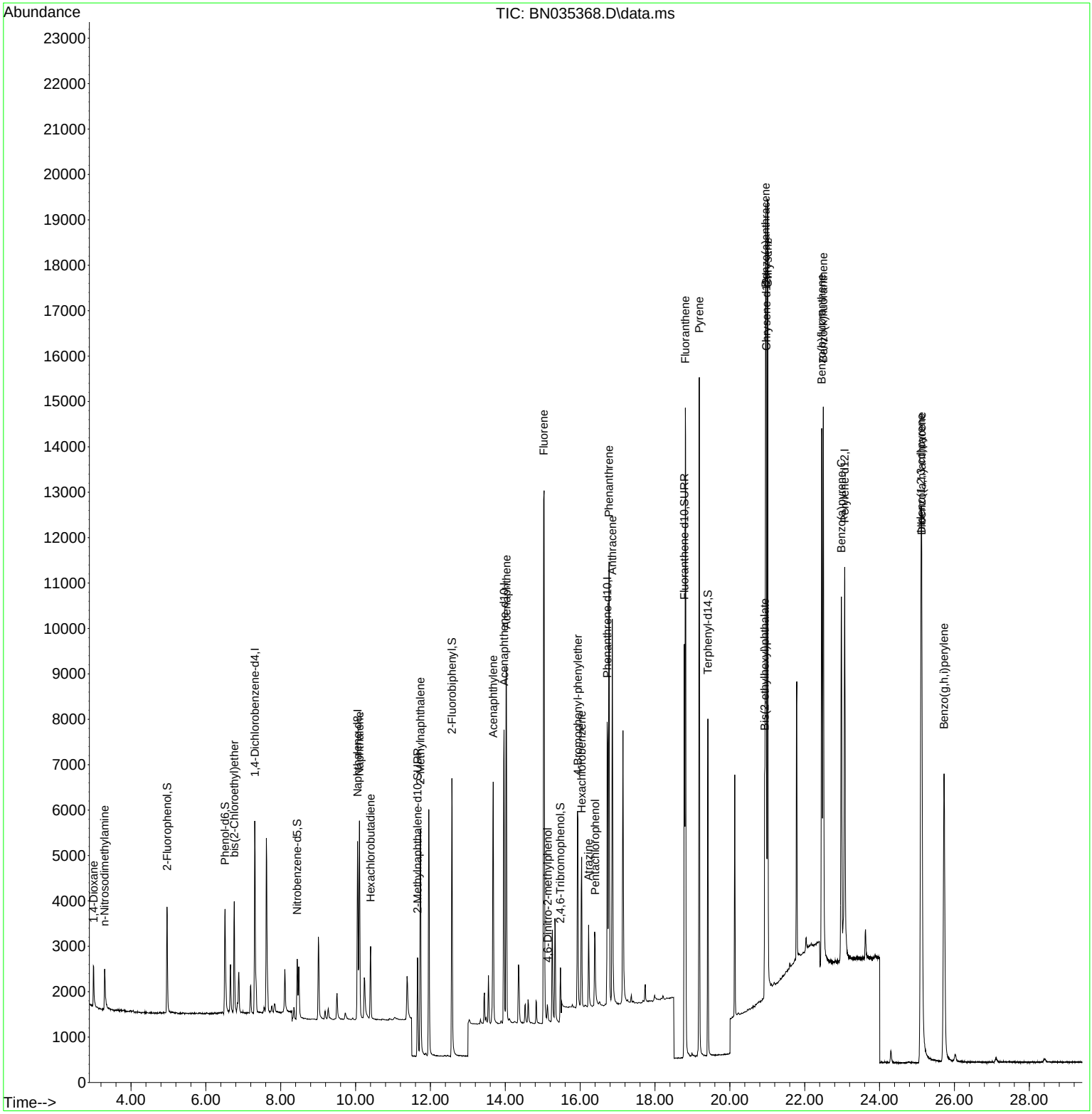
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035368.D
Acq On : 28 Nov 2024 04:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

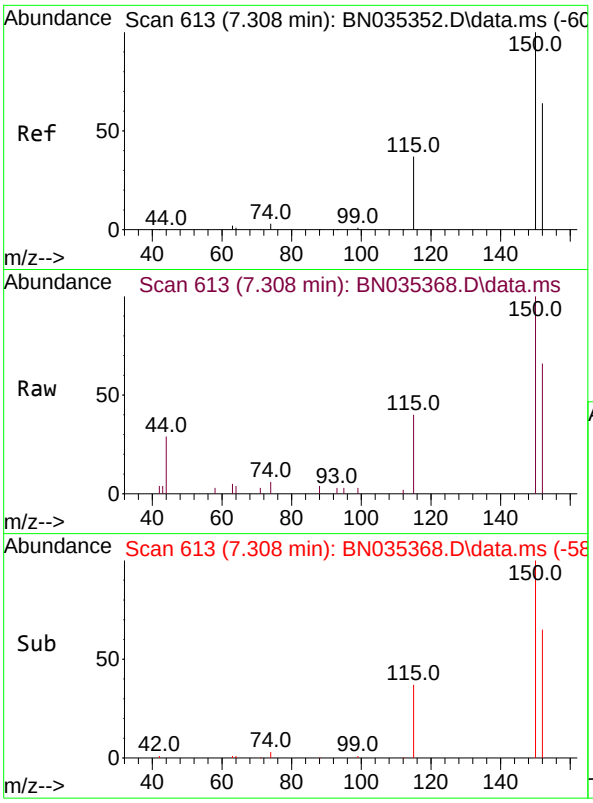
Quant Time: Nov 28 05:19:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

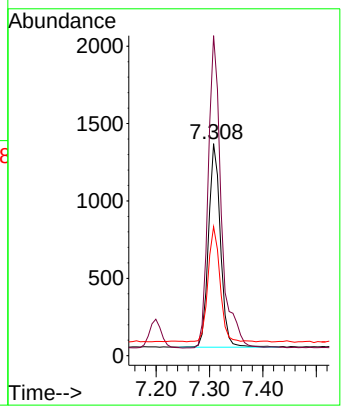




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:152 Resp: 205

Ion	Ratio	Lower	Upper
152	100		
150	150.9	124.0	186.0
115	60.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
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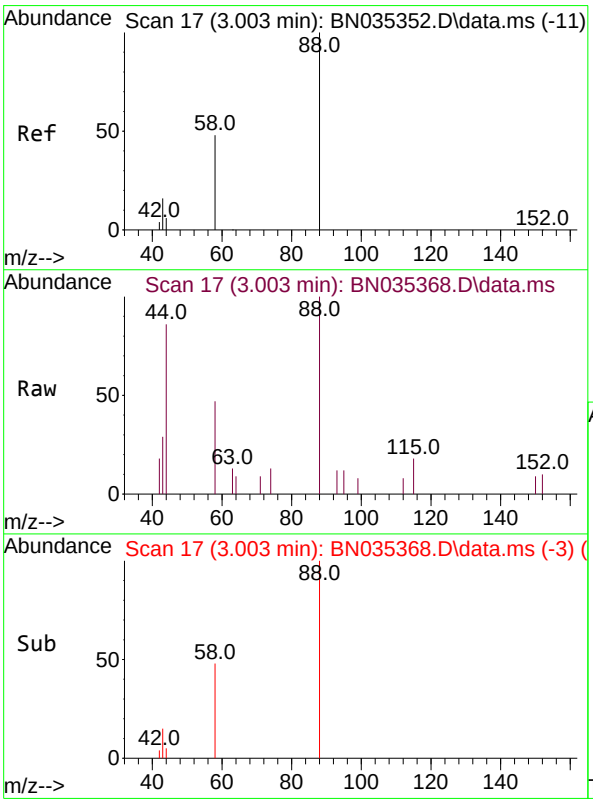
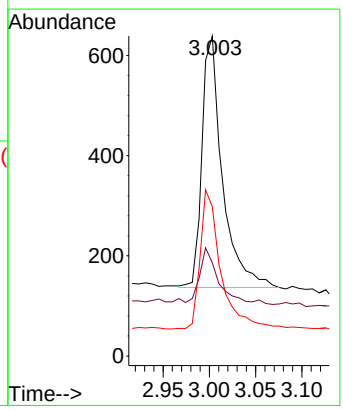
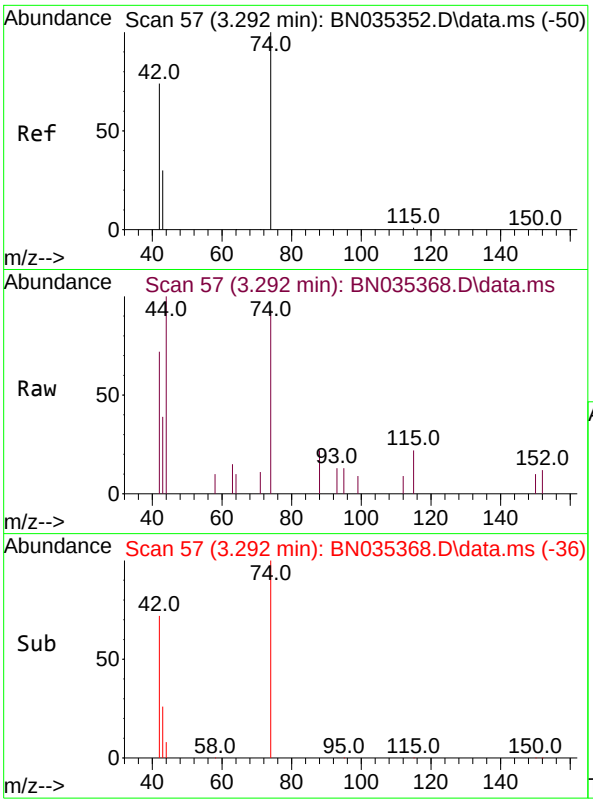


#2
1,4-Dioxane
Concen: 0.393 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion: 88 Resp: 770

Ion	Ratio	Lower	Upper
88	100		
43	22.2	17.2	25.8
58	55.6	44.5	66.7

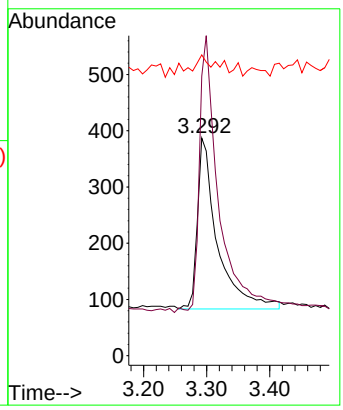




#3
n-Nitrosodimethylamine
Concen: 0.411 ng
RT: 3.292 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion: 42 Resp: 67

Ion	Ratio	Lower	Upper
42	100		
74	158.9	124.9	187.3
44	4.3	2.2	3.4



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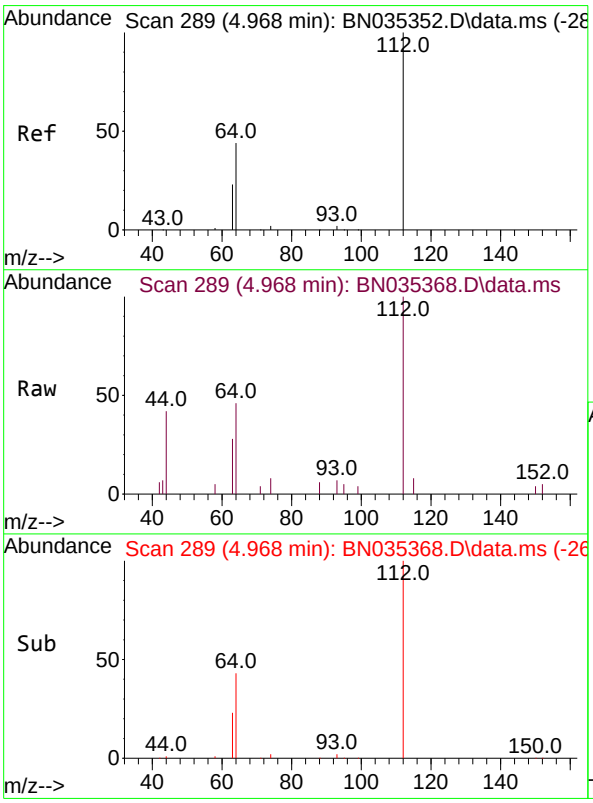
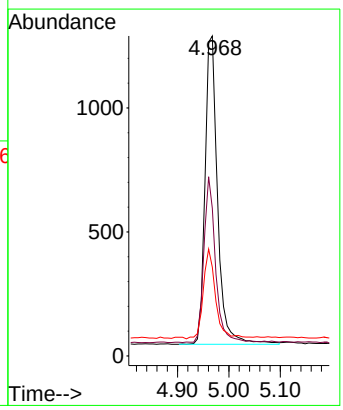
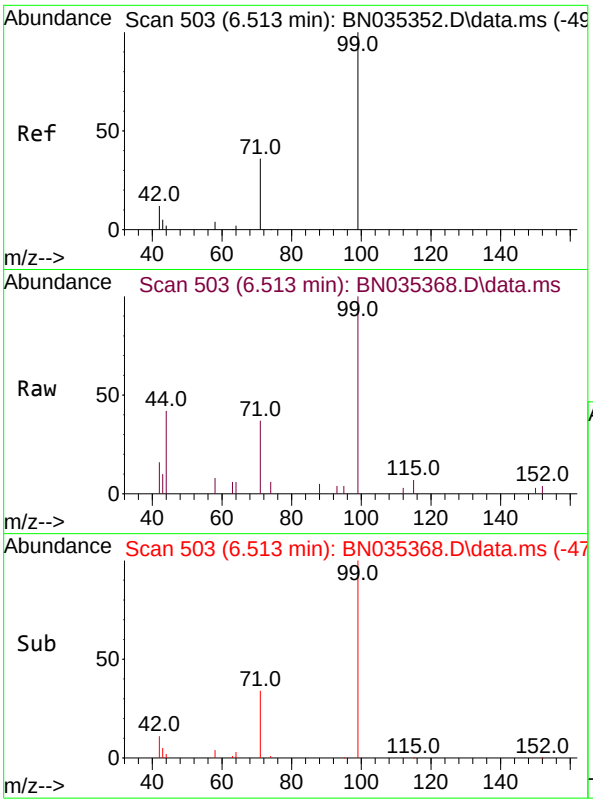


#4
2-Fluorophenol
Concen: 0.412 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:112 Resp: 2113

Ion	Ratio	Lower	Upper
112	100		
64	49.9	39.8	59.8
63	28.7	21.0	31.6

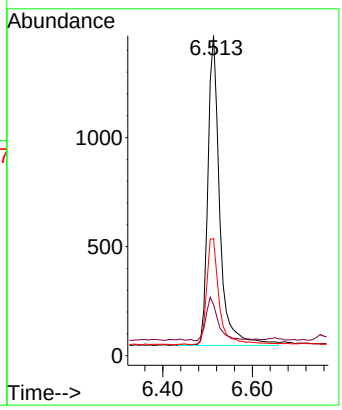




#5
Phenol-d6
Concen: 0.423 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion: 99 Resp: 261

Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	36.8	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
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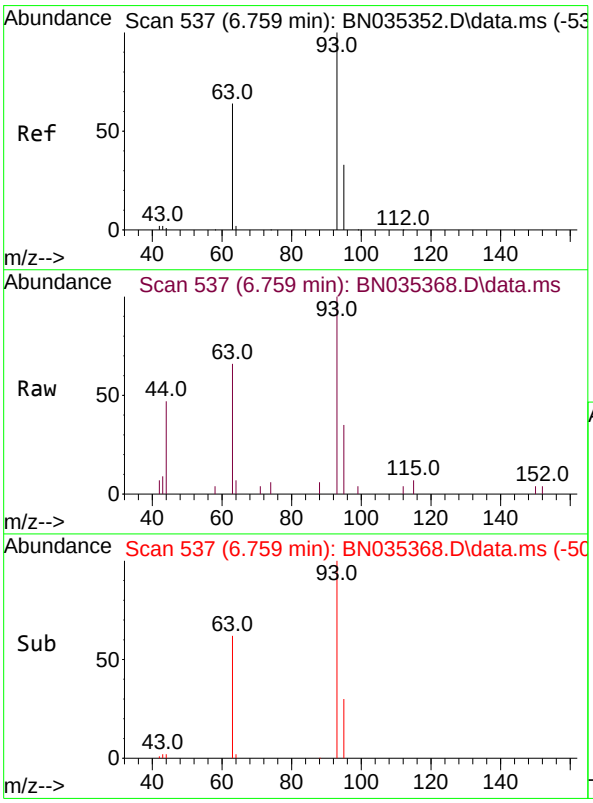
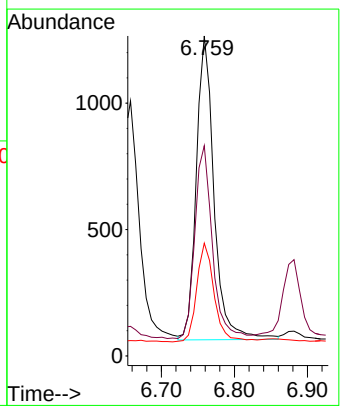
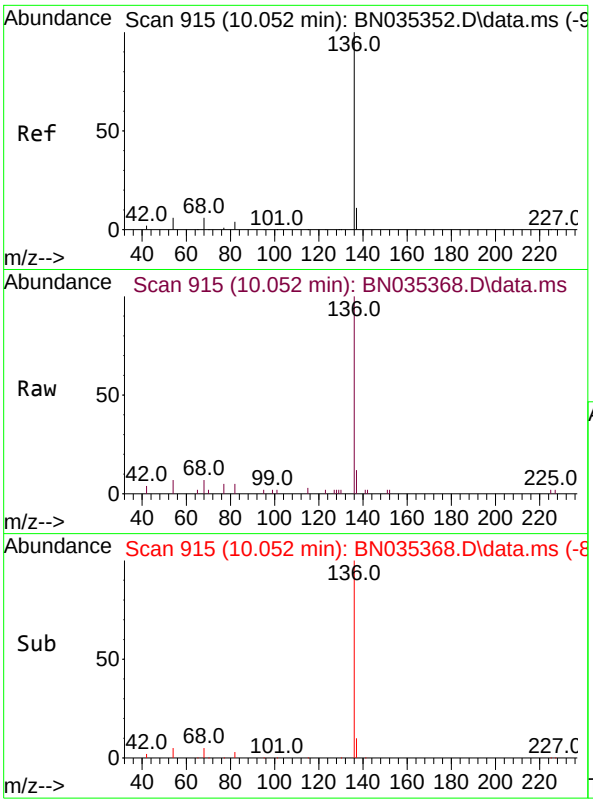


#6
bis(2-Chloroethyl)ether
Concen: 0.390 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion: 93 Resp: 2024

Ion	Ratio	Lower	Upper
93	100		
63	62.9	50.4	75.6
95	32.0	25.7	38.5

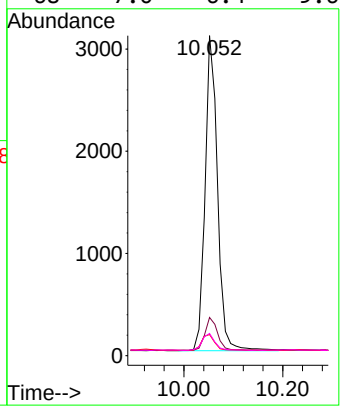




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:136 Resp: 536

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.2	15.2
54	6.6	6.1	9.1
68	7.0	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
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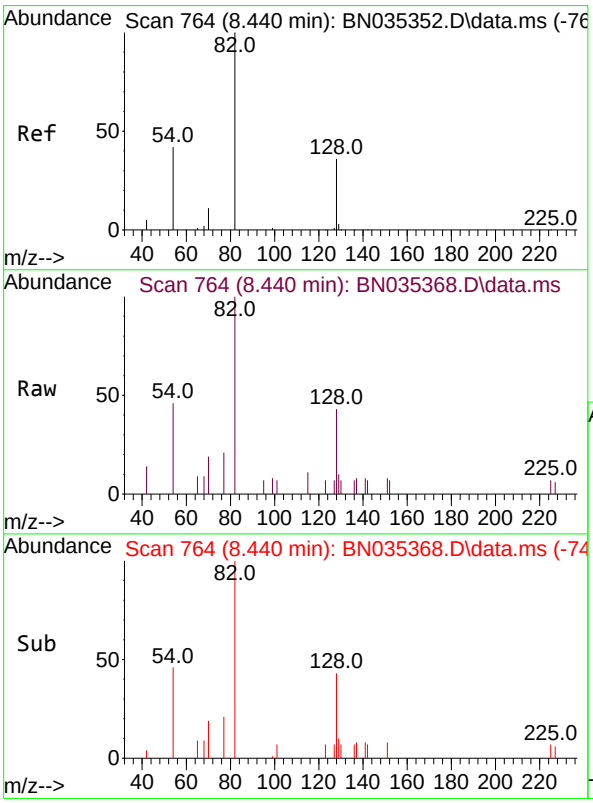
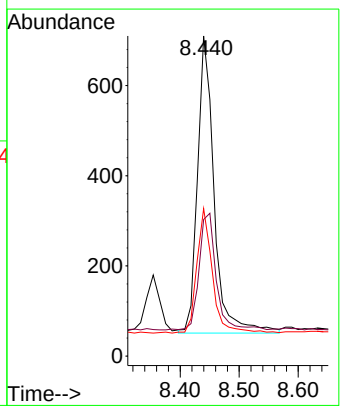
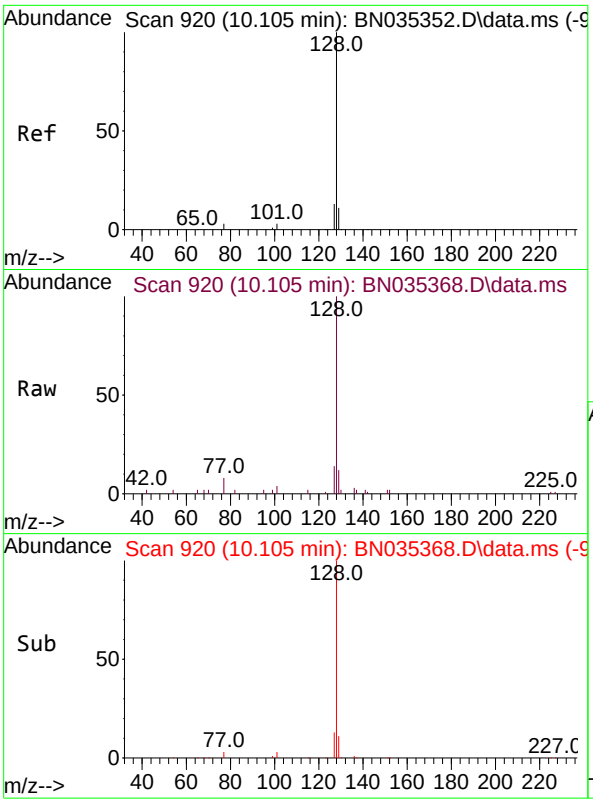


#8
Nitrobenzene-d5
Concen: 0.395 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion: 82 Resp: 1292

Ion	Ratio	Lower	Upper
82	100		
128	42.7	33.4	50.0
54	46.1	36.7	55.1

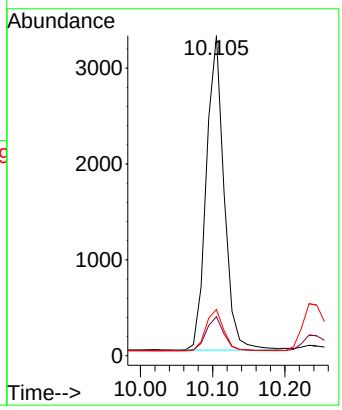




#9
Naphthalene
Concen: 0.395 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:128 Resp: 559

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.4	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
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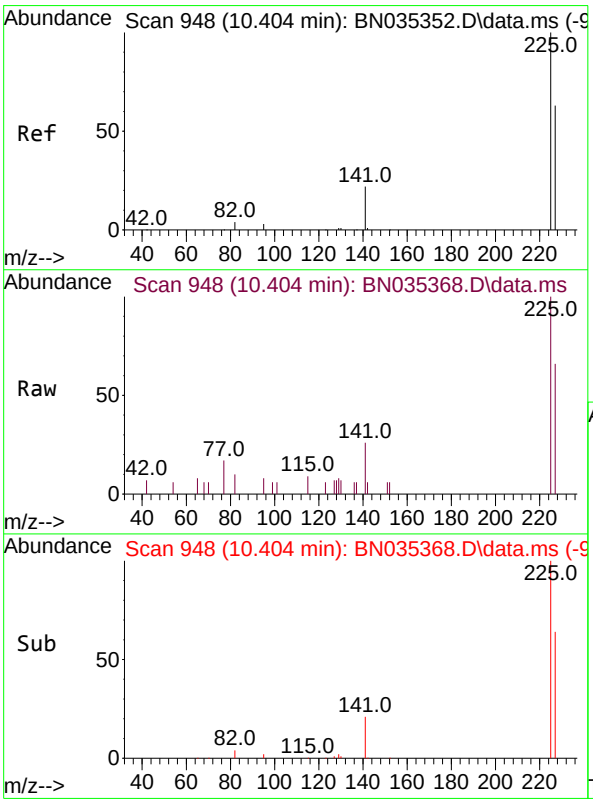
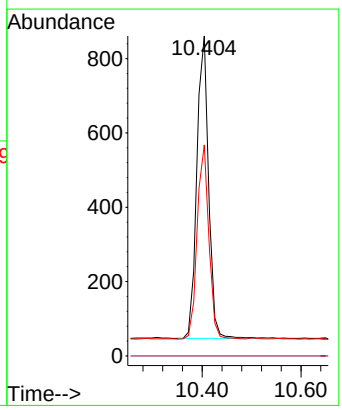
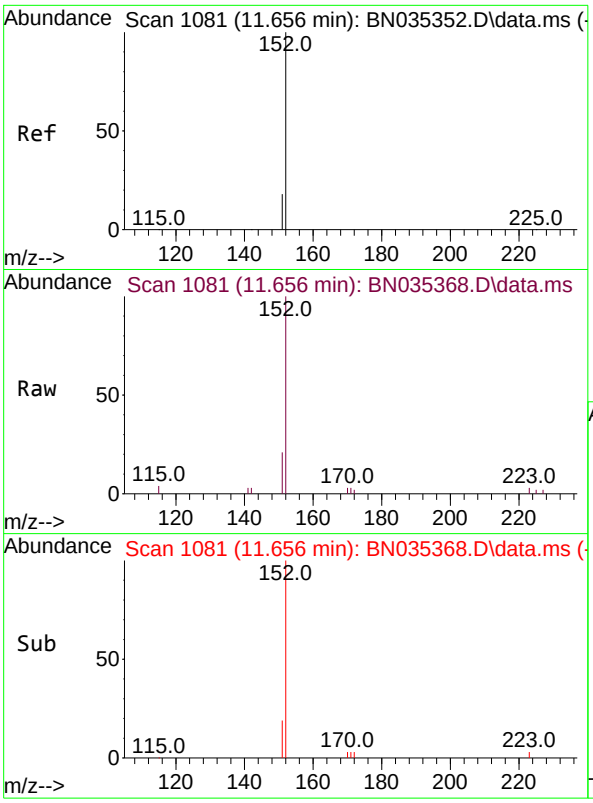


#10
Hexachlorobutadiene
Concen: 0.412 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:225 Resp: 1343

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.3	76.9

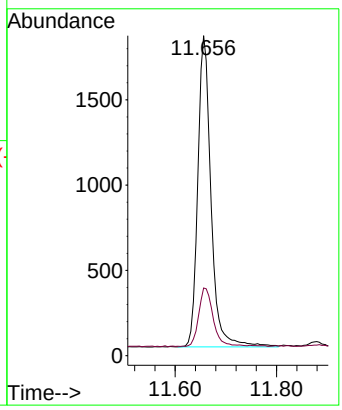




#11
2-Methylnaphthalene-d10
Concen: 0.394 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:152 Resp: 330

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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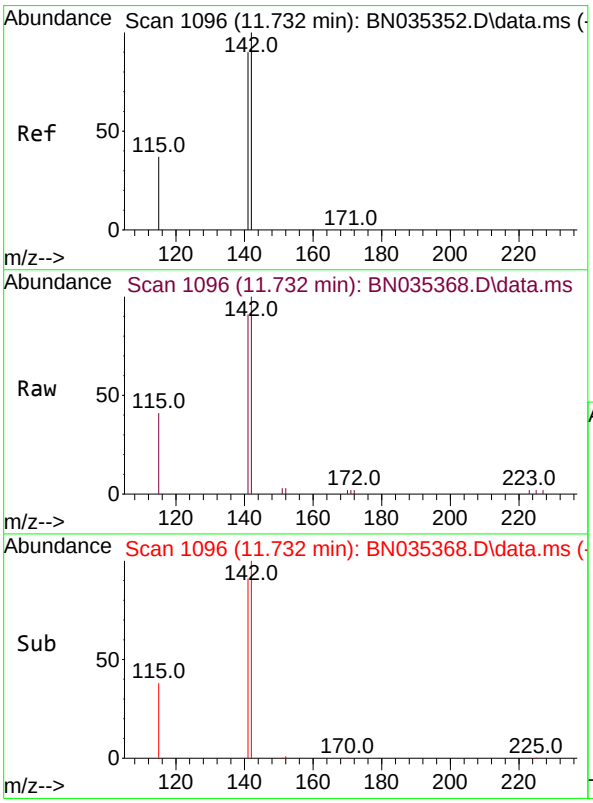
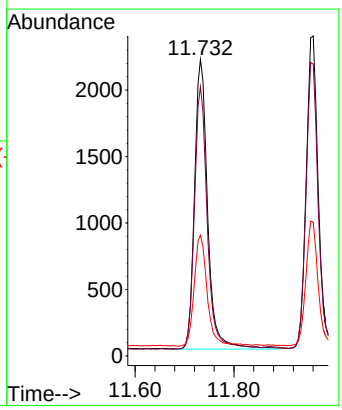
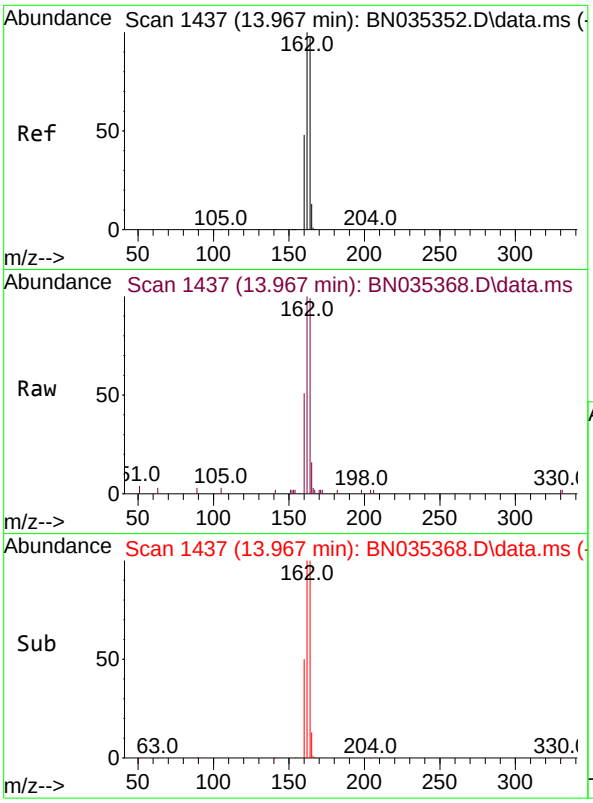


#12
2-Methylnaphthalene
Concen: 0.397 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:142 Resp: 4014

Ion	Ratio	Lower	Upper
142	100		
141	90.8	72.2	108.4
115	40.7	31.4	47.0

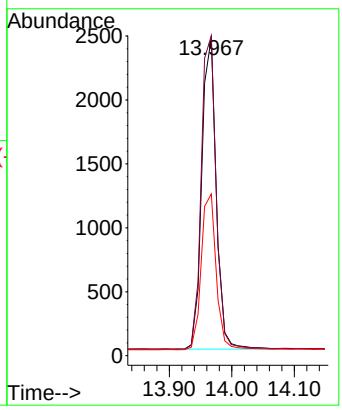




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:164 Resp: 390

Ion	Ratio	Lower	Upper
164	100		
162	100.5	82.2	123.2
160	50.8	40.1	60.1



Instrument :
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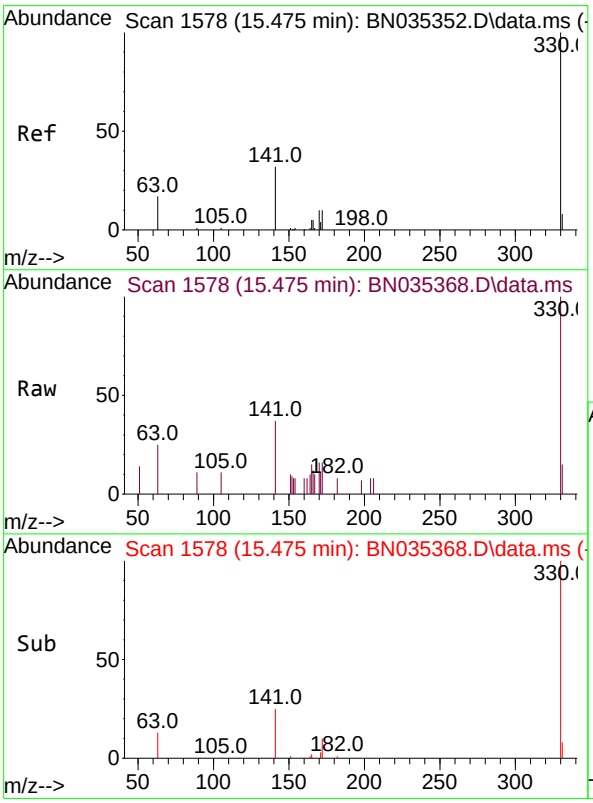
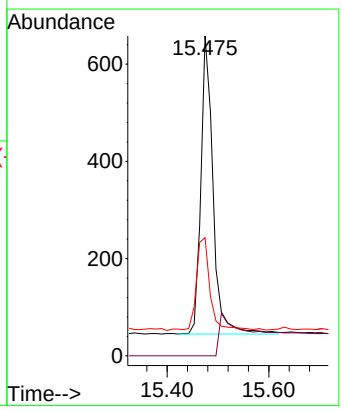
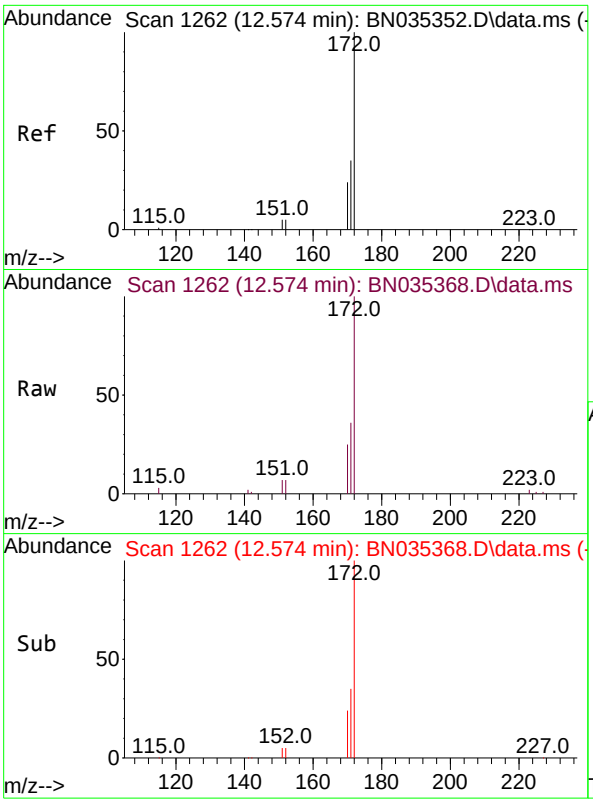


#14
2,4,6-Tribromophenol
Concen: 0.394 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:330 Resp: 1093

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.1	26.6	40.0

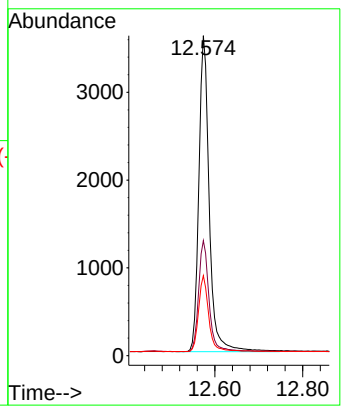




#15
2-Fluorobiphenyl
Concen: 0.402 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:172 Resp: 594

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	25.0	19.8	29.8



Instrument :
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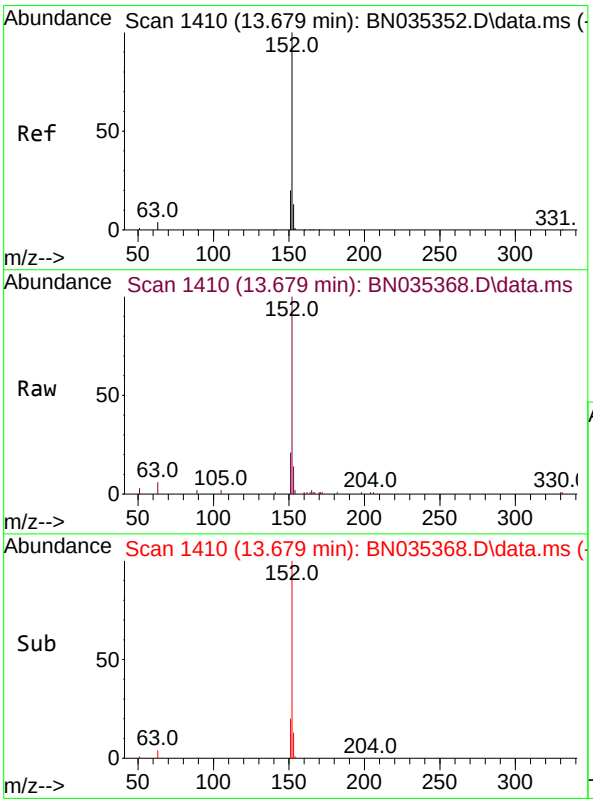
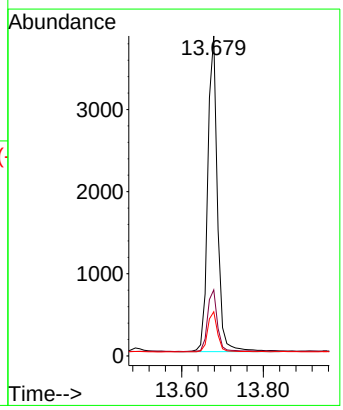
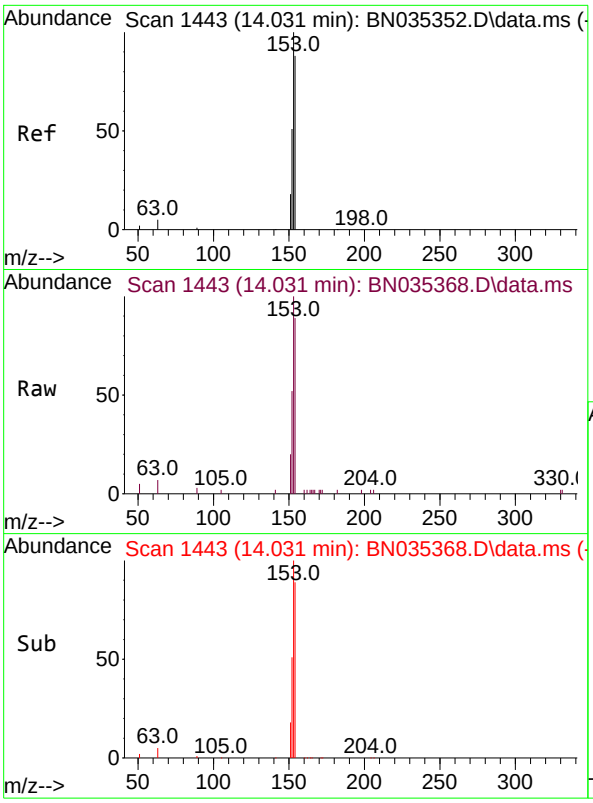


#16
Acenaphthylene
Concen: 0.388 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:152 Resp: 6370

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	12.9	10.4	15.6

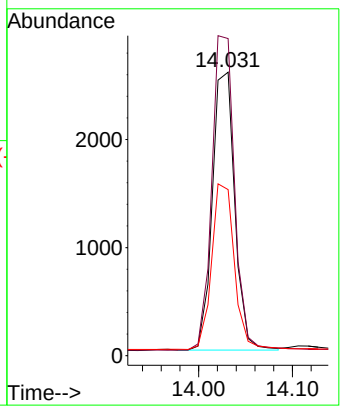




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:154 Resp: 427

Ion	Ratio	Lower	Upper
154	100		
153	115.9	92.6	139.0
152	61.0	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
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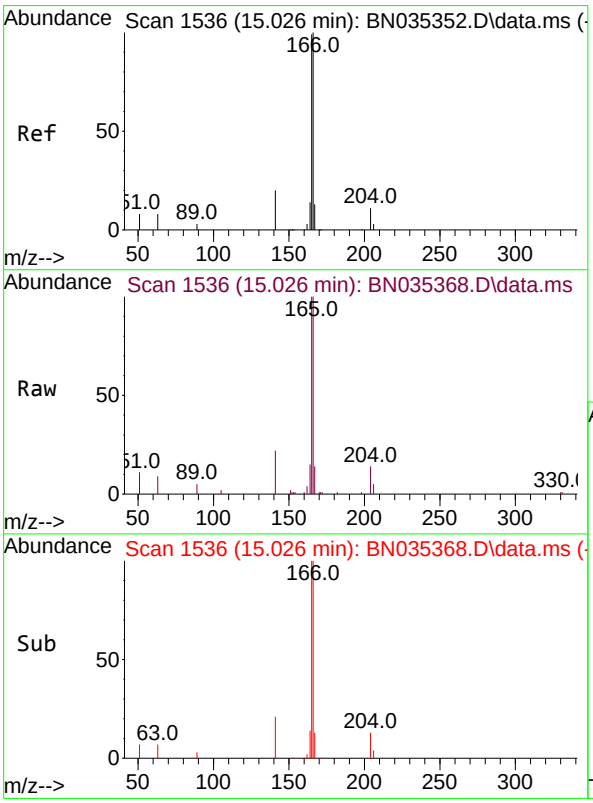
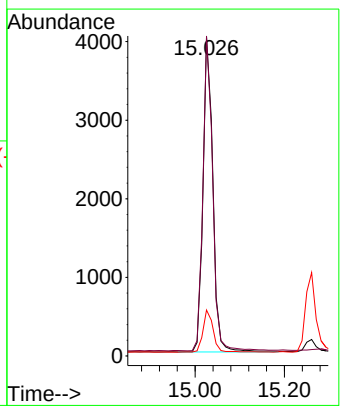
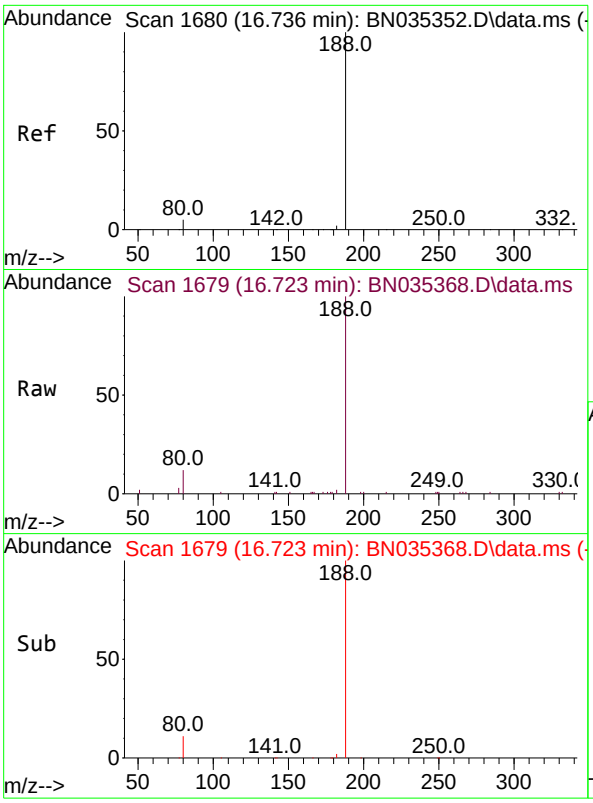


#18
Fluorene
Concen: 0.392 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:166 Resp: 6118

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.7	119.5
167	13.9	10.8	16.2

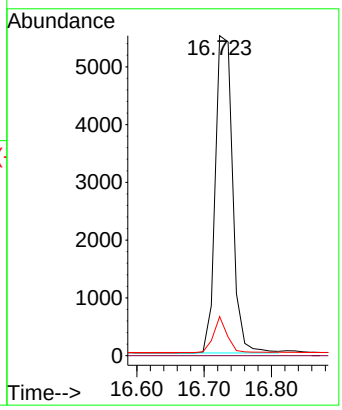




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:188 Resp: 975

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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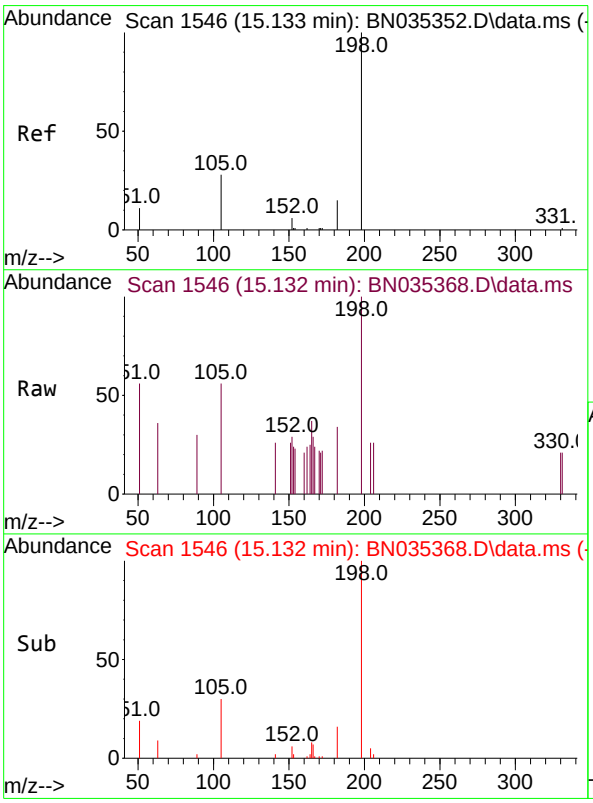
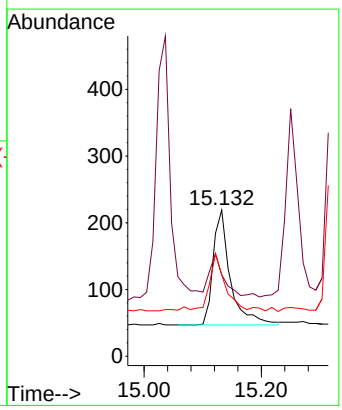
Supervised By :mohammad ahmed 11/29/2024

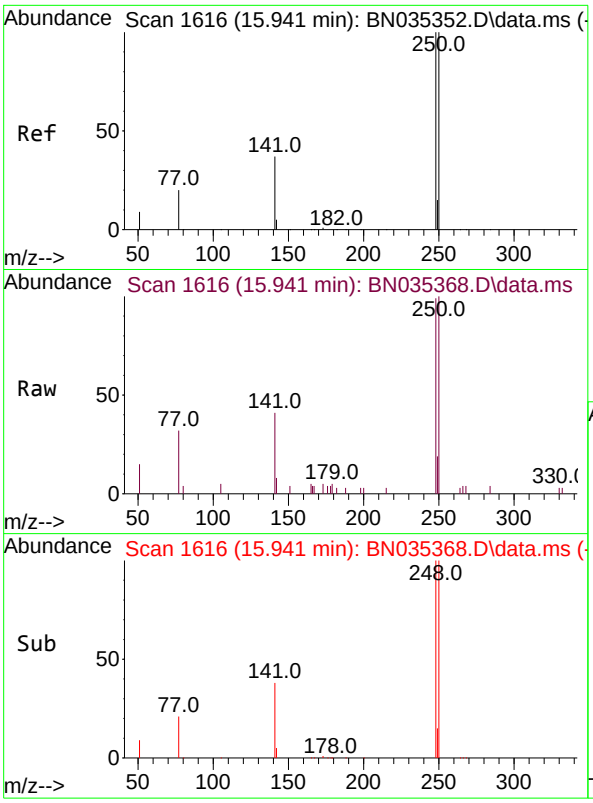


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:198 Resp: 349

Ion	Ratio	Lower	Upper
198	100		
51	55.7	46.5	69.7
105	55.7	45.3	67.9

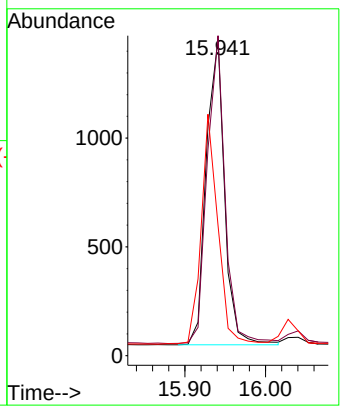




#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:248 Resp: 221

Ion	Ratio	Lower	Upper
248	100		
250	101.0	80.6	120.8
141	41.1	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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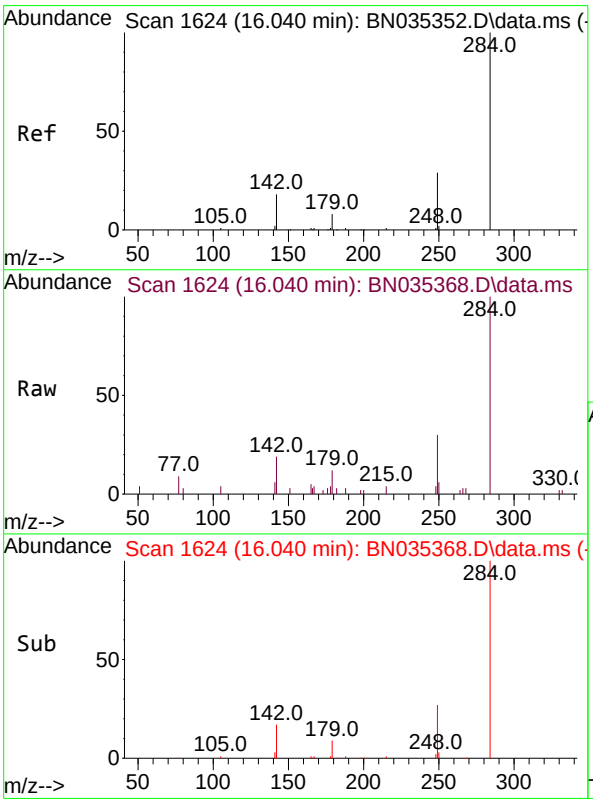
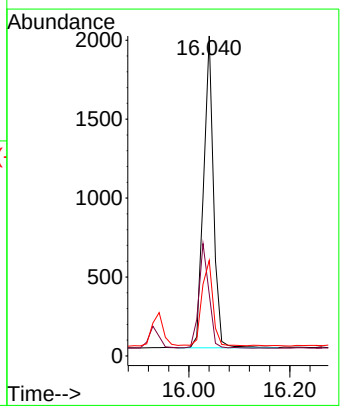
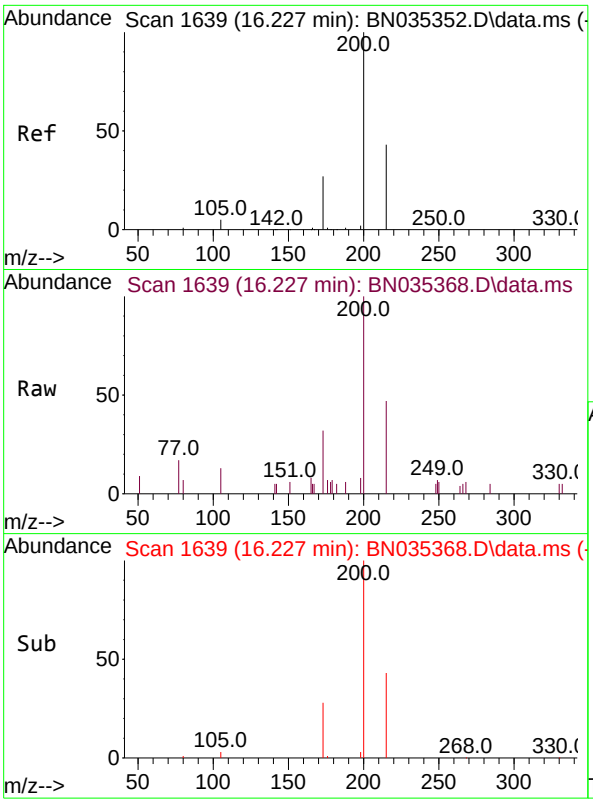


#22
Hexachlorobenzene
Concen: 0.405 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:284 Resp: 2712

Ion	Ratio	Lower	Upper
284	100		
142	34.0	26.7	40.1
249	30.5	24.6	36.8

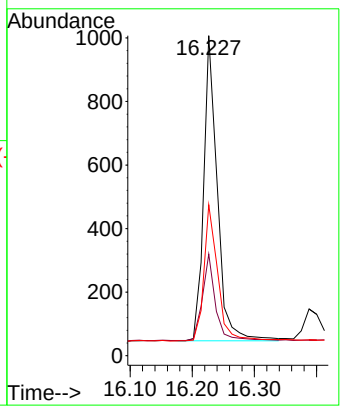




#23
Atrazine
Concen: 0.362 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:200 Resp: 146

Ion	Ratio	Lower	Upper
200	100		
173	31.8	24.1	36.1
215	47.2	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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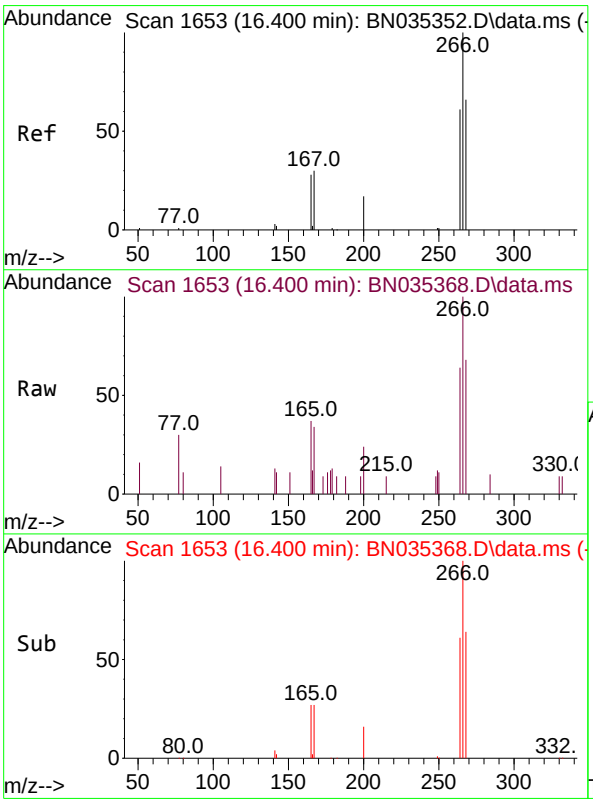
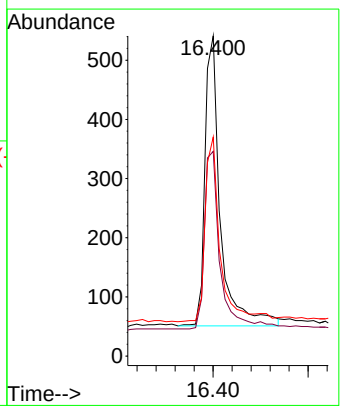
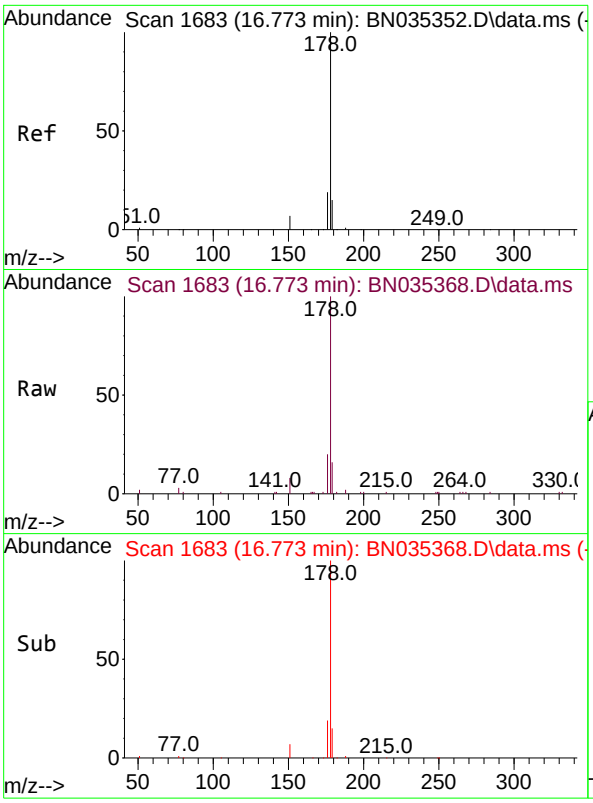


#24
Pentachlorophenol
Concen: 0.380 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:266 Resp: 1108

Ion	Ratio	Lower	Upper
266	100		
264	62.3	42.3	63.5
268	62.8	43.3	64.9

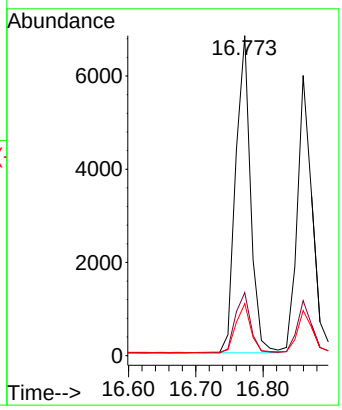




#25
Phenanthrene
Concen: 0.389 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:178 Resp: 1041

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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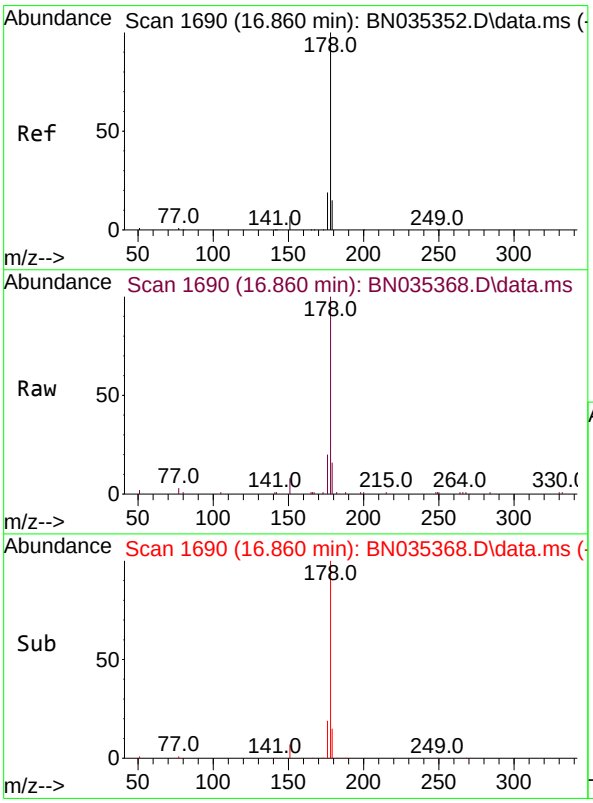
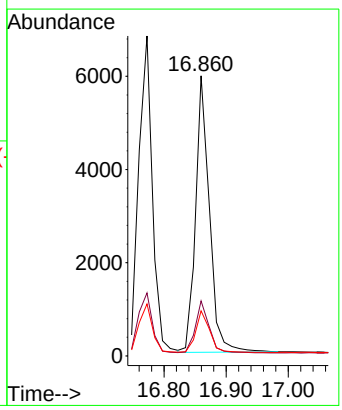
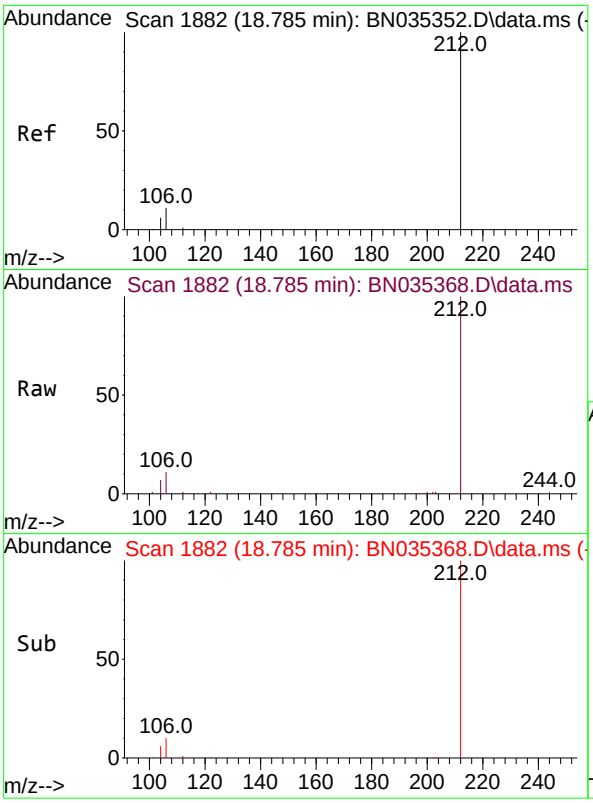


#26
Anthracene
Concen: 0.380 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:178 Resp: 9214

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.4	12.6	18.8

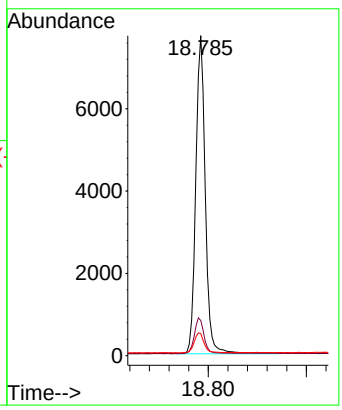




#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:212 Resp: 1038

Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.4	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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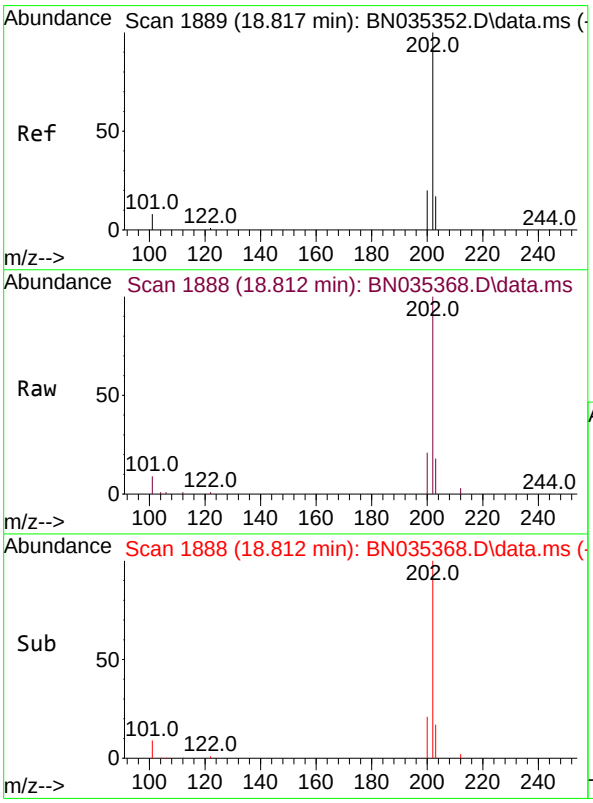
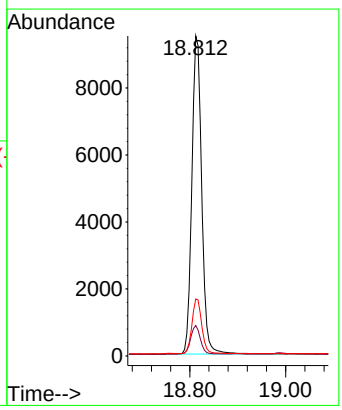
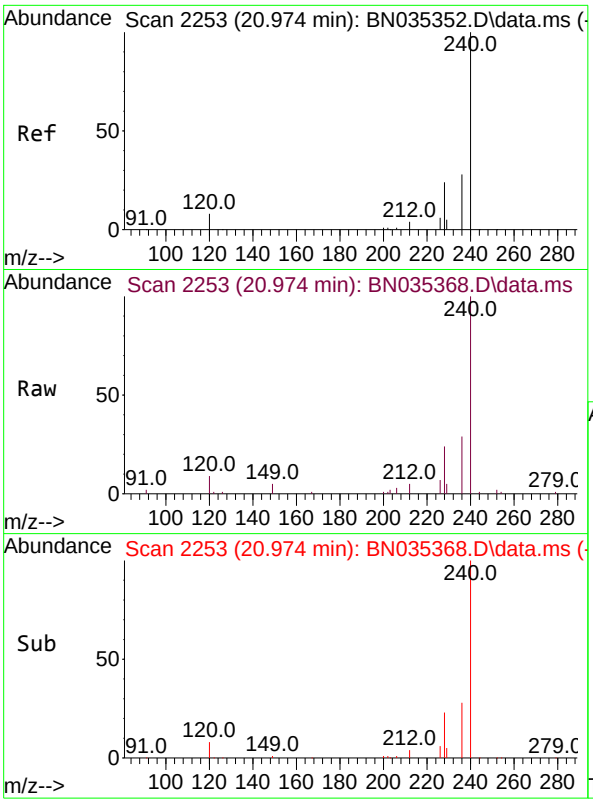


#28
Fluoranthene
Concen: 0.375 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:202 Resp: 13563

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.1	13.7	20.5

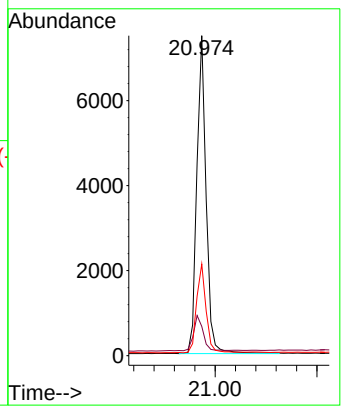




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:240 Resp: 949

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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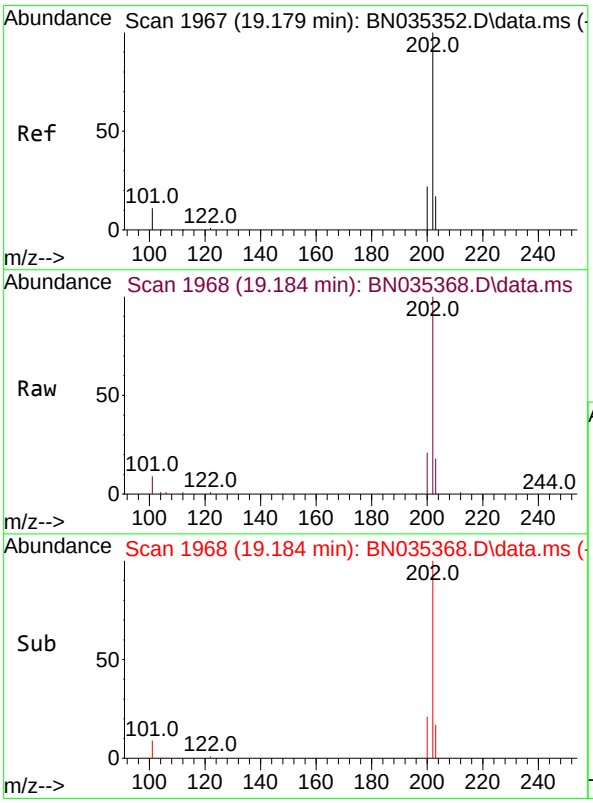
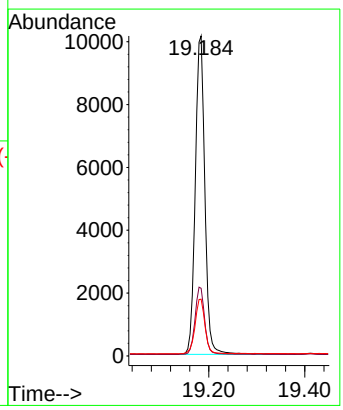
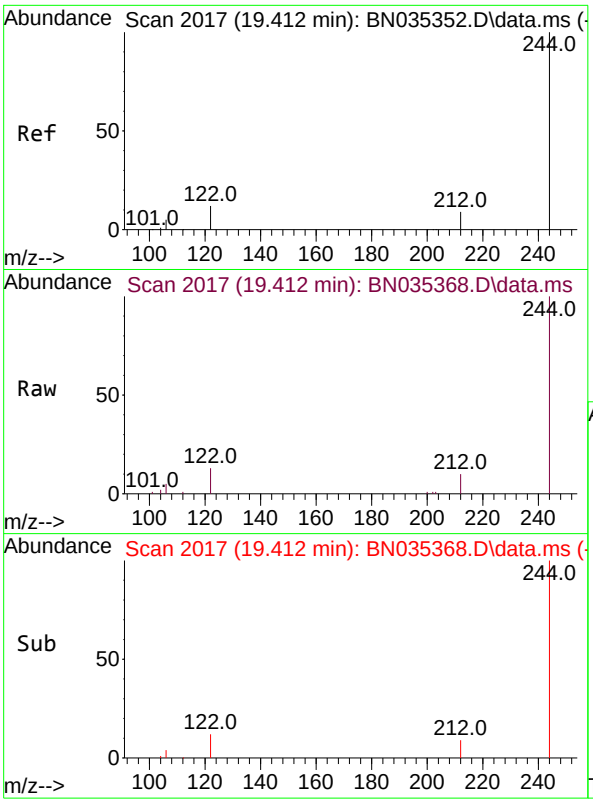


#30
Pyrene
Concen: 0.404 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:202 Resp: 14155

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.7	14.3	21.5

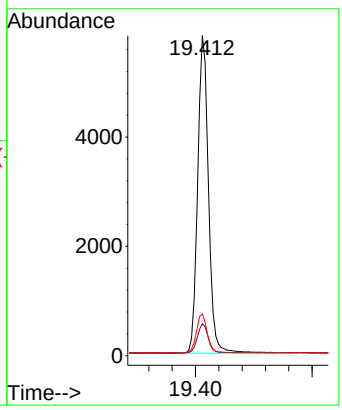




#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:244 Resp: 748

Ion	Ratio	Lower	Upper
244	100		
212	10.0	8.1	12.1
122	13.0	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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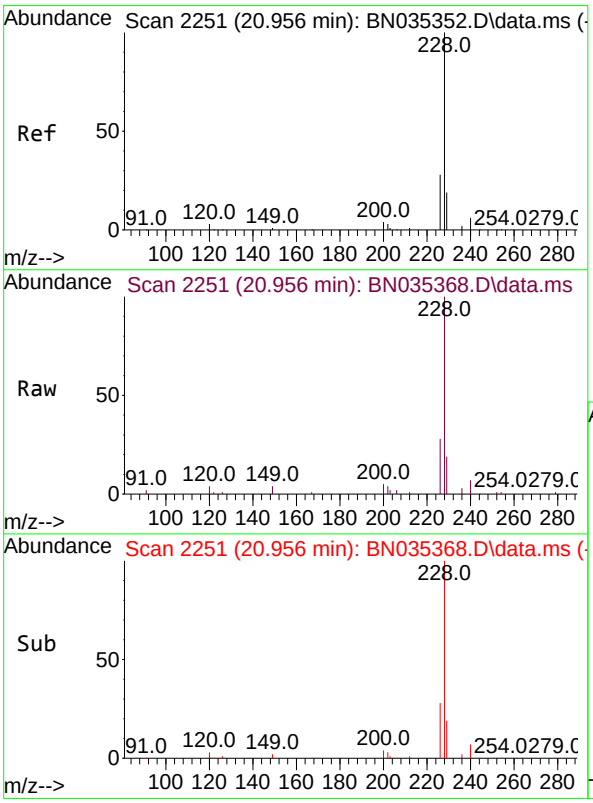
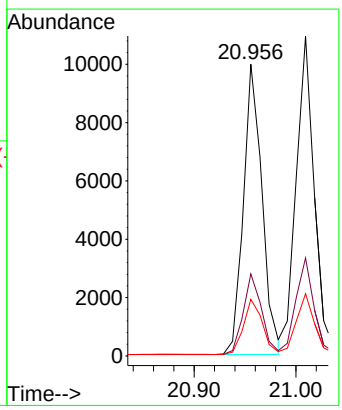
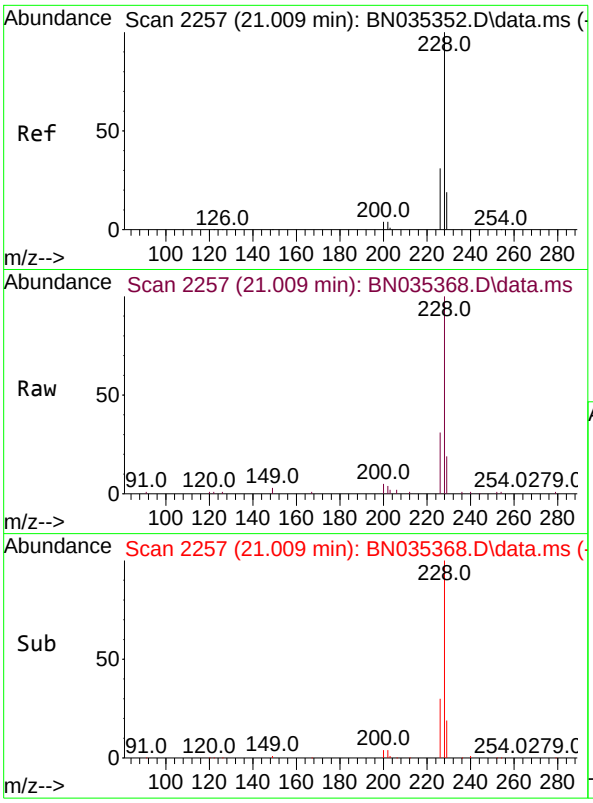


#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:228 Resp: 12659

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.4	15.8	23.8

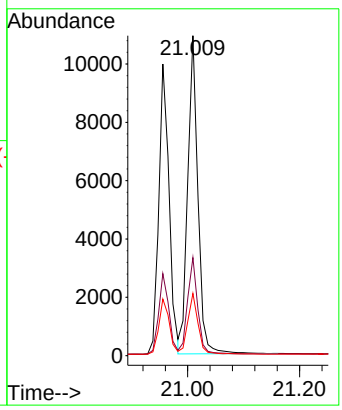




#33
Chrysene
Concen: 0.403 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:228 Resp: 1379

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.4	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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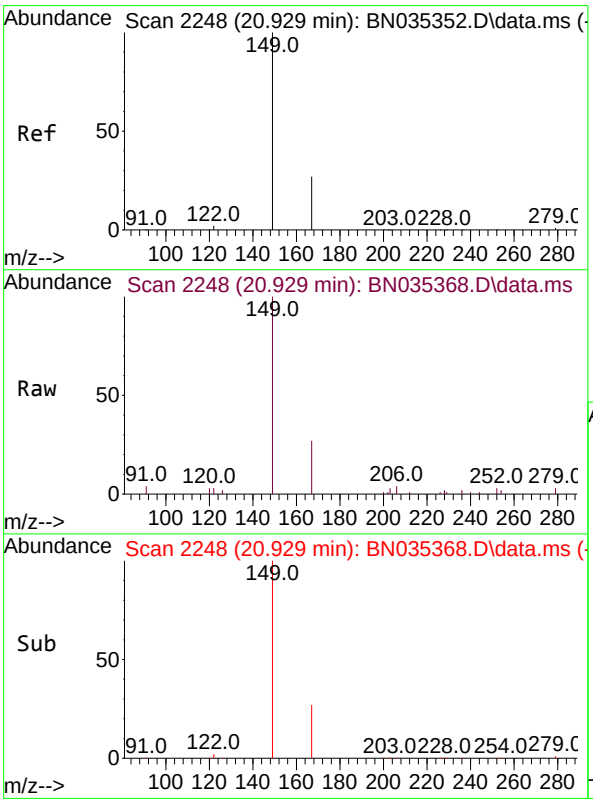
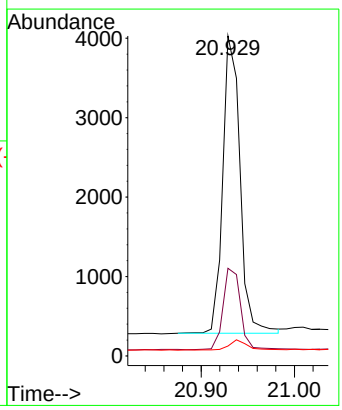
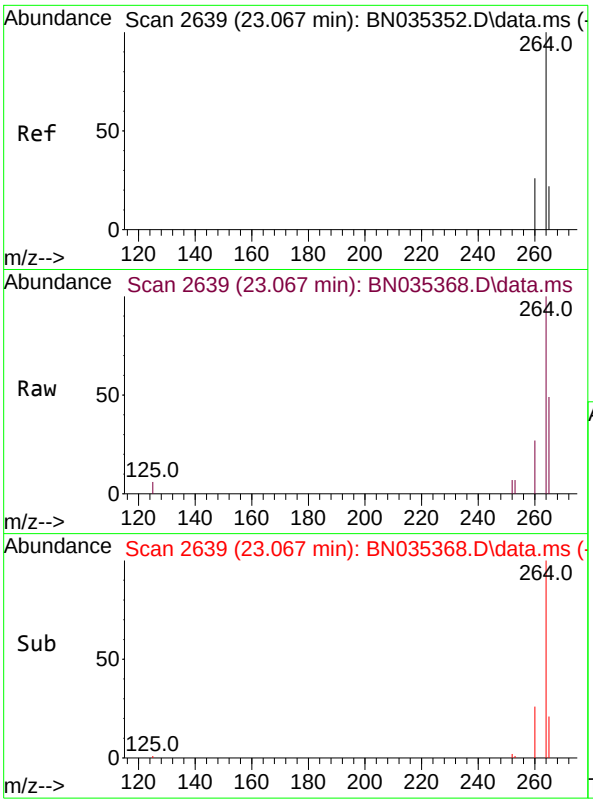


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.365 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:149 Resp: 4791

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.9	2.7	4.1

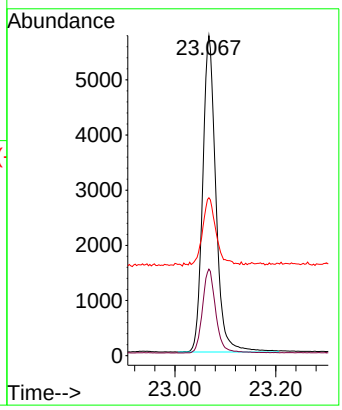




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:264 Resp: 1041

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	49.4	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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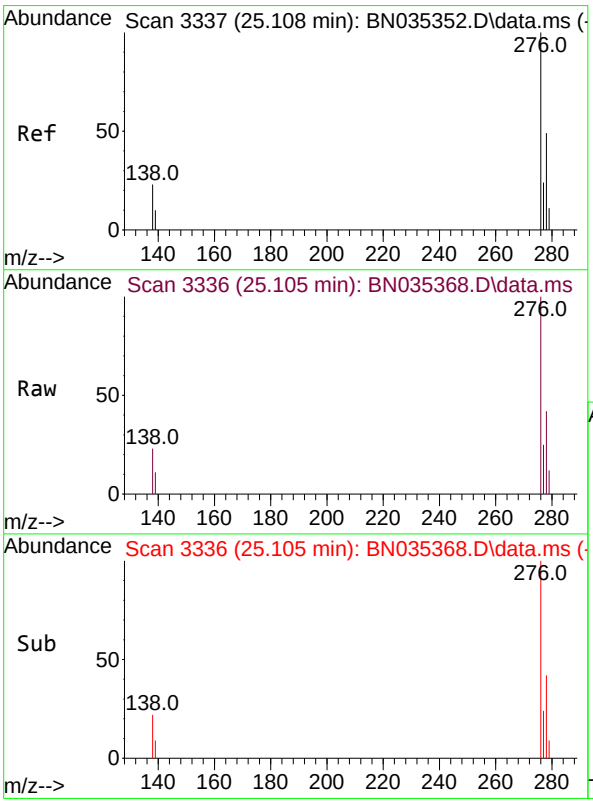
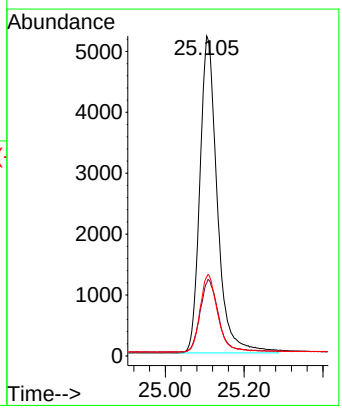
Supervised By :mohammad ahmed 11/29/2024

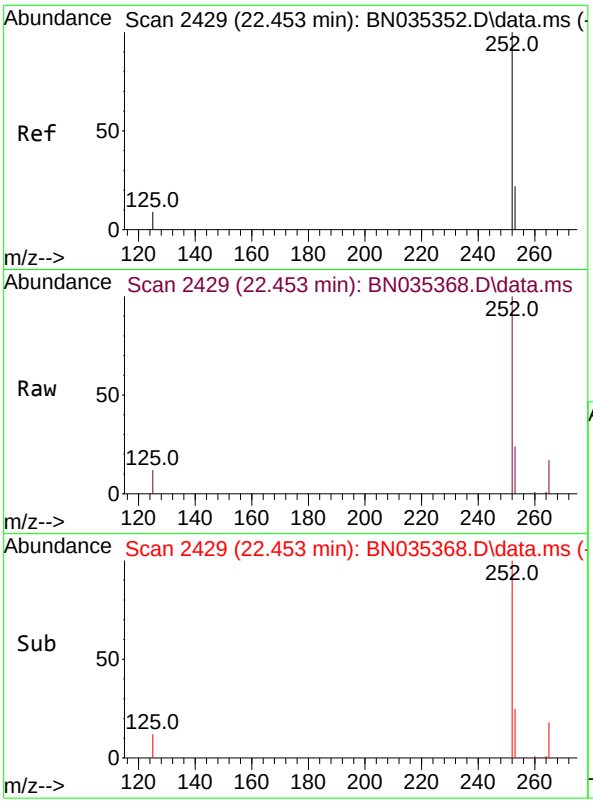


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.392 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:276 Resp: 15947

Ion	Ratio	Lower	Upper
276	100		
138	23.2	19.4	29.0
277	24.5	19.8	29.6

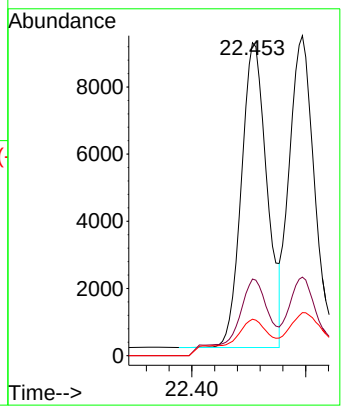




#37
Benzo(b)fluoranthene
Concen: 0.431 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:252 Resp: 1643

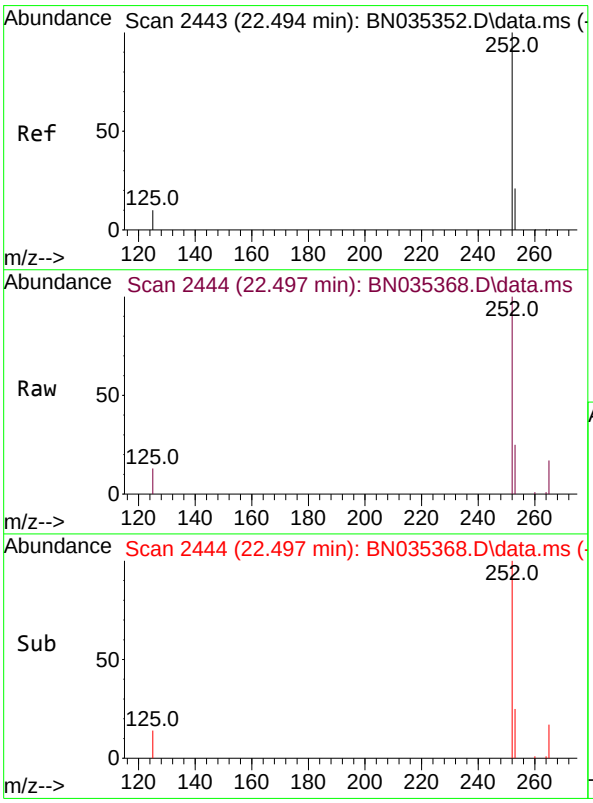
Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	11.7	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

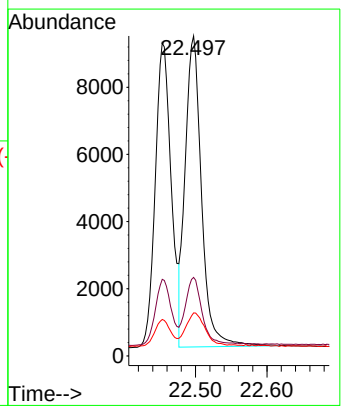
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

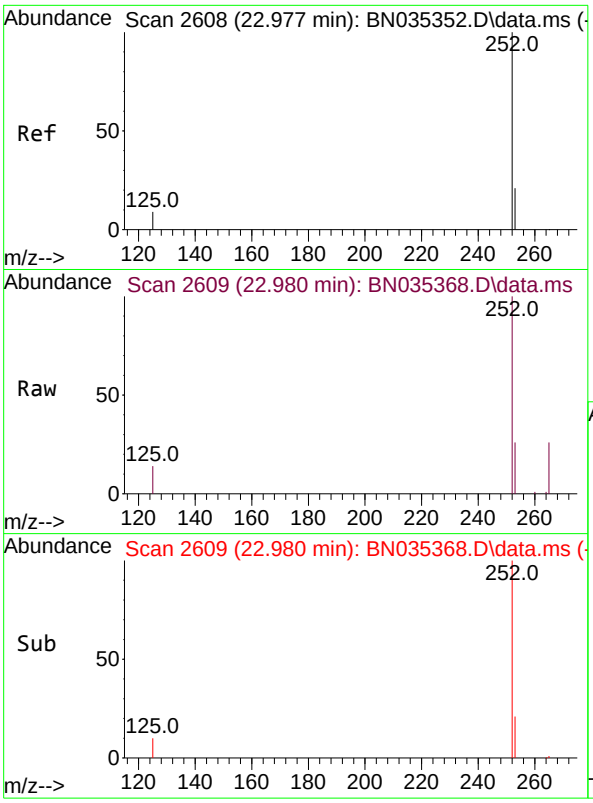


#38
Benzo(k)fluoranthene
Concen: 0.391 ng
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:252 Resp: 14678

Ion	Ratio	Lower	Upper
252	100		
253	24.6	19.5	29.3
125	13.4	10.2	15.4

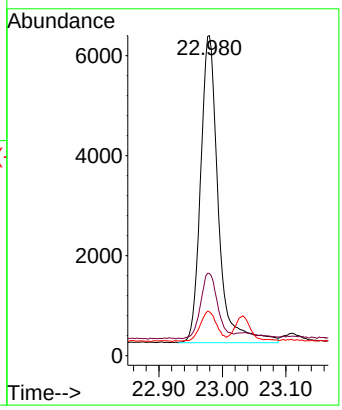




#39
Benzo(a)pyrene
Concen: 0.378 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:252 Resp: 1187

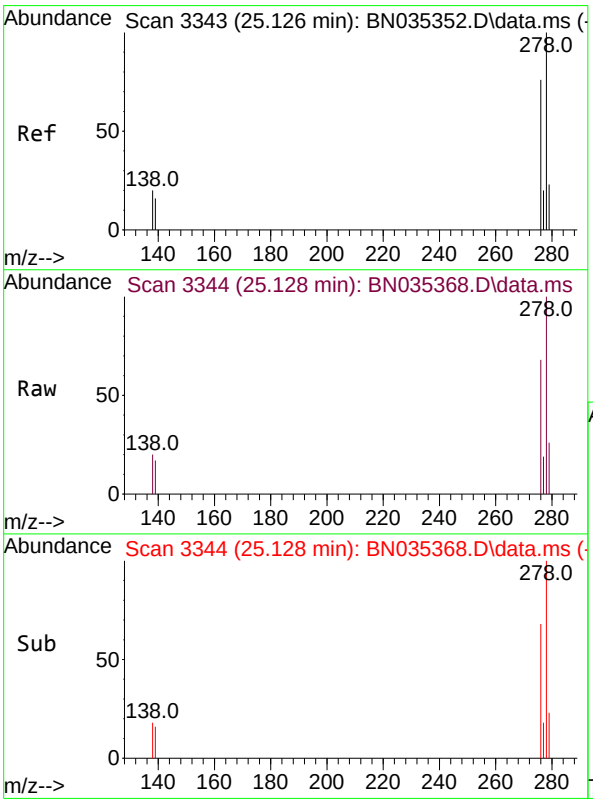
Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	13.7	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

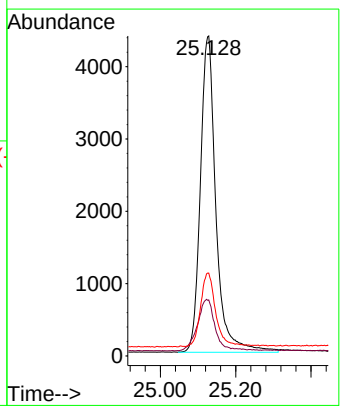
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

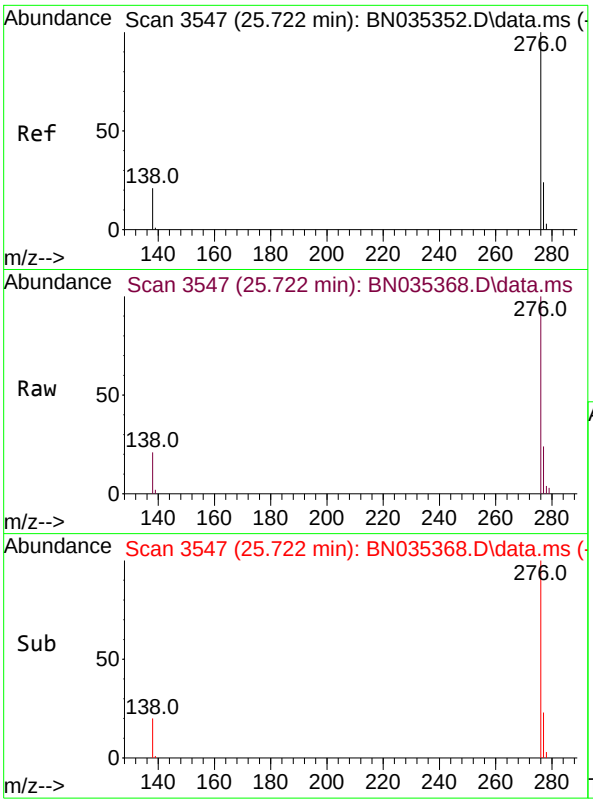


#40
Dibenzo(a,h)anthracene
Concen: 0.390 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:278 Resp: 12541

Ion	Ratio	Lower	Upper
278	100		
139	17.5	14.2	21.4
279	25.9	20.5	30.7

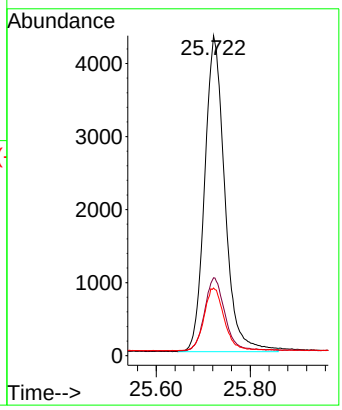




#41
Benzo(g,h,i)perylene
Concen: 0.383 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:276 Resp: 1285

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.9	29.9
138	21.2	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035368.D
Acq On : 28 Nov 2024 04:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 28 05:19:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 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	100	0.00
2		1,4-Dioxane	0.382	0.375	1.8	100	0.00
3		n-Nitrosodimethylamine	0.319	0.327	-2.5	100	0.00
4	S	2-Fluorophenol	1.001	1.030	-2.9	101	0.00
5	S	Phenol-d6	1.204	1.273	-5.7	107	0.00
6		bis(2-Chloroethyl)ether	1.012	0.987	2.5	100	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	103	0.00
8	S	Nitrobenzene-d5	0.244	0.241	1.2	105	0.00
9		Naphthalene	1.055	1.043	1.1	102	0.00
10		Hexachlorobutadiene	0.243	0.251	-3.3	104	0.00
11	SURR	2-Methylnaphthalene-d10	0.626	0.617	1.4	102	0.00
12		2-Methylnaphthalene	0.755	0.749	0.8	104	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
14	S	2,4,6-Tribromophenol	0.284	0.280	1.4	112	0.00
15	S	2-Fluorobiphenyl	1.512	1.520	-0.5	104	0.00
16		Acenaphthylene	1.680	1.630	3.0	105	0.00
17		Acenaphthene	1.115	1.093	2.0	104	0.00
18		Fluorene	1.596	1.566	1.9	104	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	103	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.036	7.7	104	0.00
21		4-Bromophenyl-phenylether	0.234	0.227	3.0	103	0.00
22		Hexachlorobenzene	0.275	0.278	-1.1	105	0.00
23		Atrazine	0.167	0.151	9.6	101	0.00
24		Pentachlorophenol	0.120	0.114	5.0	122	0.00
25		Phenanthrene	1.099	1.067	2.9	103	0.00
26		Anthracene	0.994	0.944	5.0	103	0.00
27	SURR	Fluoranthene-d10	1.134	1.065	6.1	102	0.00
28		Fluoranthene	1.481	1.390	6.1	101	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
30		Pyrene	1.477	1.491	-0.9	101	0.00
31	S	Terphenyl-d14	0.789	0.788	0.1	99	0.00
32		Benzo(a)anthracene	1.399	1.333	4.7	98	0.00
33		Chrysene	1.443	1.453	-0.7	100	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.505	8.7	98	0.00
35	I	Perylene-d12	1.000	1.000	0.0	96	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.531	2.1	96	0.00
37		Benzo(b)fluoranthene	1.463	1.578	-7.9	115	0.00
38		Benzo(k)fluoranthene	1.440	1.409	2.2	97	0.00
39	C	Benzo(a)pyrene	1.205	1.140	5.4	96	0.00
40		Dibenzo(a,h)anthracene	1.234	1.204	2.4	97	0.00
41		Benzo(g,h,i)perylene	1.289	1.235	4.2	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035368.D
Acq On : 28 Nov 2024 04:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 28 05:19:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 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	100	0.00
2		1,4-Dioxane	0.400	0.393	1.8	100	0.00
3		n-Nitrosodimethylamine	0.400	0.411	-2.7	100	0.00
4	S	2-Fluorophenol	0.400	0.412	-3.0	101	0.00
5	S	Phenol-d6	0.400	0.423	-5.7	107	0.00
6		bis(2-Chloroethyl)ether	0.400	0.390	2.5	100	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	103	0.00
8	S	Nitrobenzene-d5	0.400	0.395	1.3	105	0.00
9		Naphthalene	0.400	0.395	1.3	102	0.00
10		Hexachlorobutadiene	0.400	0.412	-3.0	104	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.394	1.5	102	0.00
12		2-Methylnaphthalene	0.400	0.397	0.8	104	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	103	0.00
14	S	2,4,6-Tribromophenol	0.400	0.394	1.5	112	0.00
15	S	2-Fluorobiphenyl	0.400	0.402	-0.5	104	0.00
16		Acenaphthylene	0.400	0.388	3.0	105	0.00
17		Acenaphthene	0.400	0.392	2.0	104	0.00
18		Fluorene	0.400	0.392	2.0	104	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	103	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	104	0.00
21		4-Bromophenyl-phenylether	0.400	0.388	3.0	103	0.00
22		Hexachlorobenzene	0.400	0.405	-1.3	105	0.00
23		Atrazine	0.400	0.362	9.5	101	0.00
24		Pentachlorophenol	0.400	0.380	5.0	122	0.00
25		Phenanthrene	0.400	0.389	2.8	103	0.00
26		Anthracene	0.400	0.380	5.0	103	0.00
27	SURR	Fluoranthene-d10	0.400	0.376	6.0	102	0.00
28		Fluoranthene	0.400	0.375	6.3	101	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	100	0.00
30		Pyrene	0.400	0.404	-1.0	101	0.00
31	S	Terphenyl-d14	0.400	0.399	0.3	99	0.00
32		Benzo(a)anthracene	0.400	0.381	4.8	98	0.00
33		Chrysene	0.400	0.403	-0.8	100	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.365	8.8	98	0.00
35	I	Perylene-d12	0.400	0.400	0.0	96	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.392	2.0	96	0.00
37		Benzo(b)fluoranthene	0.400	0.431	-7.7	115	0.00
38		Benzo(k)fluoranthene	0.400	0.391	2.3	97	0.00
39	C	Benzo(a)pyrene	0.400	0.378	5.5	96	0.00
40		Dibenzo(a,h)anthracene	0.400	0.390	2.5	97	0.00
41		Benzo(g,h,i)perylene	0.400	0.383	4.3	95	0.00

(#) = 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: TETR06

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG No.: P4959

Instrument ID: BNA_N Calibration Date/Time: 11/28/2024 09:02

Lab File ID: BN035375.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.614		-1.9	50.0
Fluoranthene-d10	1.134	1.056		-6.9	50.0
2-Fluorophenol	1.001	1.006		0.5	50.0
Phenol-d6	1.204	1.212		0.7	50.0
Nitrobenzene-d5	0.244	0.244		0.0	50.0
2-Fluorobiphenyl	1.512	1.517		0.3	50.0
2,4,6-Tribromophenol	0.284	0.266		-6.3	50.0
Terphenyl-d14	0.789	0.787		-0.3	50.0
1,4-Dioxane	0.382	0.378		-1.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035375.D
Acq On : 28 Nov 2024 09:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 29 00:19:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1994	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5101	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3798	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	9566	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	9222	0.400	ng	0.00
35) Perylene-d12	23.067	264	10081	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	2006	0.402	ng	0.00
5) Phenol-d6	6.513	99	2417	0.403	ng	0.00
8) Nitrobenzene-d5	8.440	82	1245m	0.400	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	3130	0.392	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	1011	0.375	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	5760	0.401	ng	0.00
27) Fluoranthene-d10	18.785	212	10104	0.373	ng	0.00
31) Terphenyl-d14	19.412	244	7255	0.399	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	754	0.396	ng	98
3) n-Nitrosodimethylamine	3.292	42	628	0.396	ng	# 98
6) bis(2-Chloroethyl)ether	6.759	93	1960	0.389	ng	100
9) Naphthalene	10.105	128	5328	0.396	ng	99
10) Hexachlorobutadiene	10.404	225	1326	0.427	ng	# 98
12) 2-Methylnaphthalene	11.732	142	3793	0.394	ng	97
16) Acenaphthylene	13.679	152	6028	0.378	ng	99
17) Acenaphthene	14.031	154	4106	0.388	ng	99
18) Fluorene	15.026	166	5935	0.392	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	357	0.380	ng	91
21) 4-Bromophenyl-phenylether	15.941	248	2206	0.394	ng	100
22) Hexachlorobenzene	16.040	284	2655	0.404	ng	99
23) Atrazine	16.227	200	1384	0.347	ng	98
24) Pentachlorophenol	16.400	266	973	0.340	ng	# 84
25) Phenanthrene	16.773	178	10204	0.388	ng	100
26) Anthracene	16.860	178	8929	0.376	ng	100
28) Fluoranthene	18.812	202	13216	0.373	ng	99
30) Pyrene	19.179	202	13731	0.403	ng	100
32) Benzo(a)anthracene	20.956	228	11985	0.372	ng	99
33) Chrysene	21.009	228	13365	0.402	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4380	0.344	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	15538	0.394	ng	99
37) Benzo(b)fluoranthene	22.453	252	13327	0.361	ng	99
38) Benzo(k)fluoranthene	22.494	252	14406	0.397	ng	99
39) Benzo(a)pyrene	22.977	252	10891	0.359	ng	99
40) Dibenzo(a,h)anthracene	25.123	278	12092	0.389	ng	99
41) Benzo(g,h,i)perylene	25.722	276	12501	0.385	ng	99

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

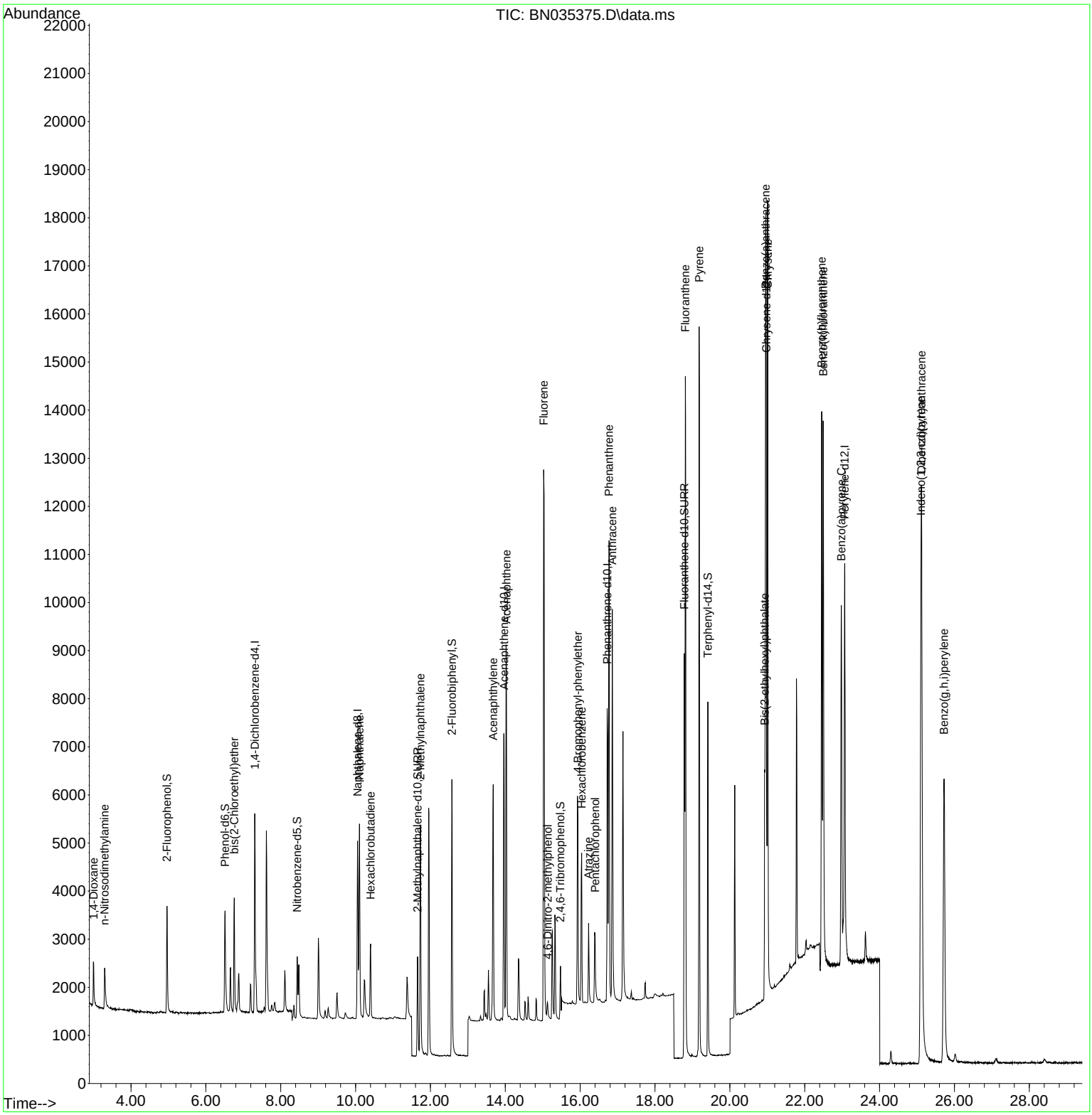
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035375.D
Acq On : 28 Nov 2024 09:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 29 Sample Multiplier: 1

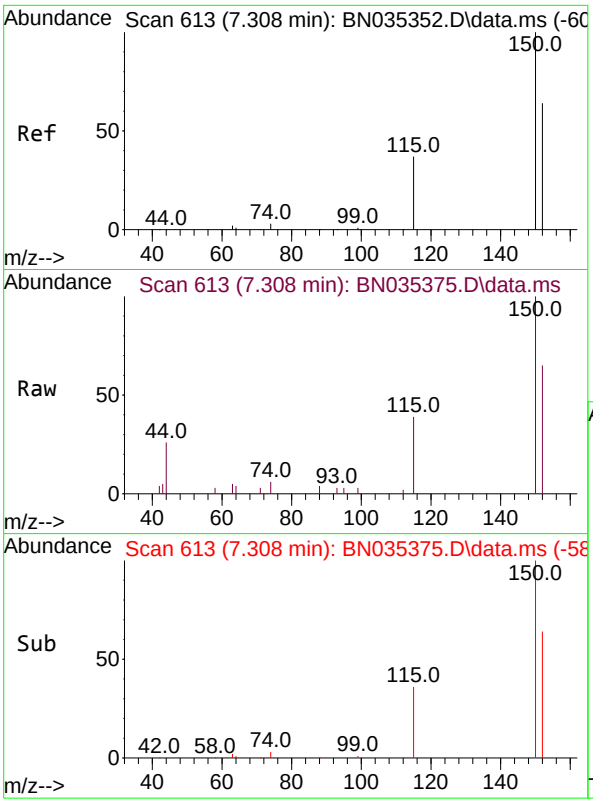
Quant Time: Nov 29 00:19:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

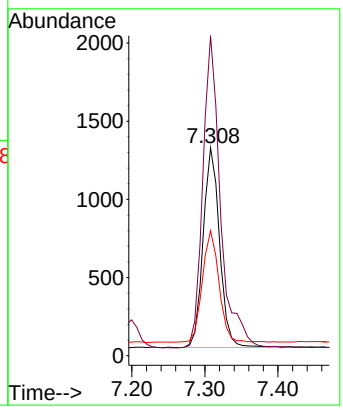




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:152 Resp: 199

Ion	Ratio	Lower	Upper
152	100		
150	153.9	124.0	186.0
115	60.2	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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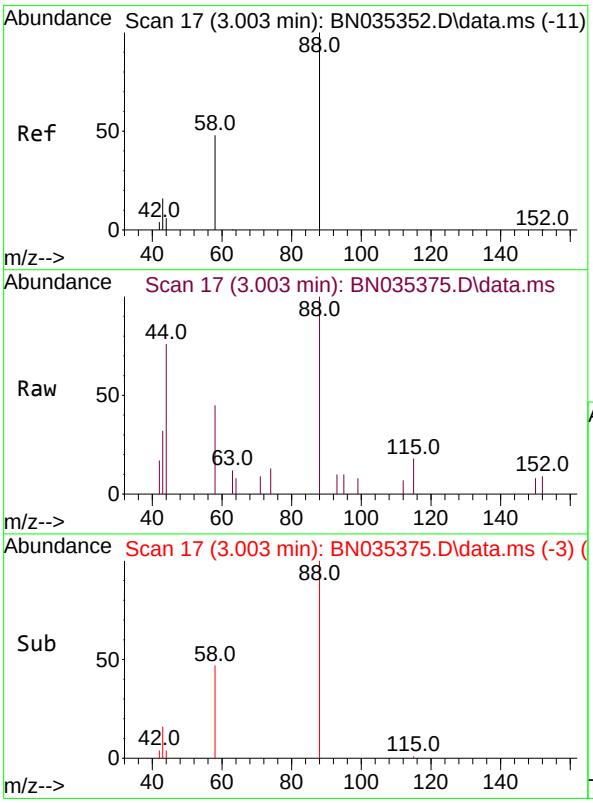
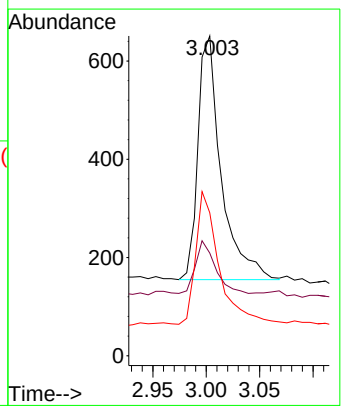
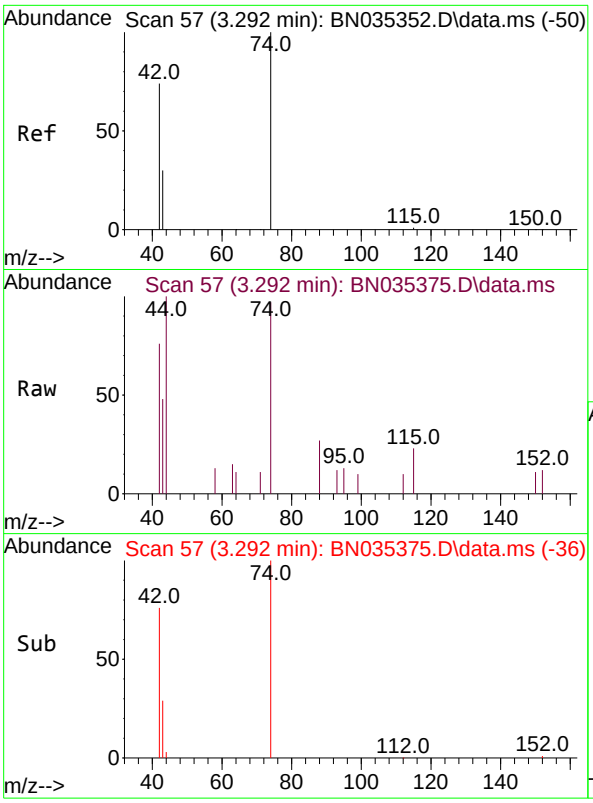


#2
1,4-Dioxane
Concen: 0.396 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion: 88 Resp: 754

Ion	Ratio	Lower	Upper
88	100		
43	20.6	17.2	25.8
58	53.8	44.5	66.7

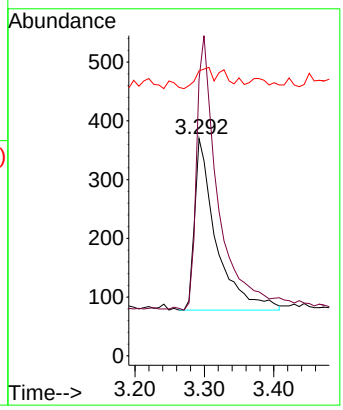




#3
n-Nitrosodimethylamine
Concen: 0.396 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion: 42 Resp: 62

Ion	Ratio	Lower	Upper
42	100		
74	158.8	124.9	187.3
44	8.9	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
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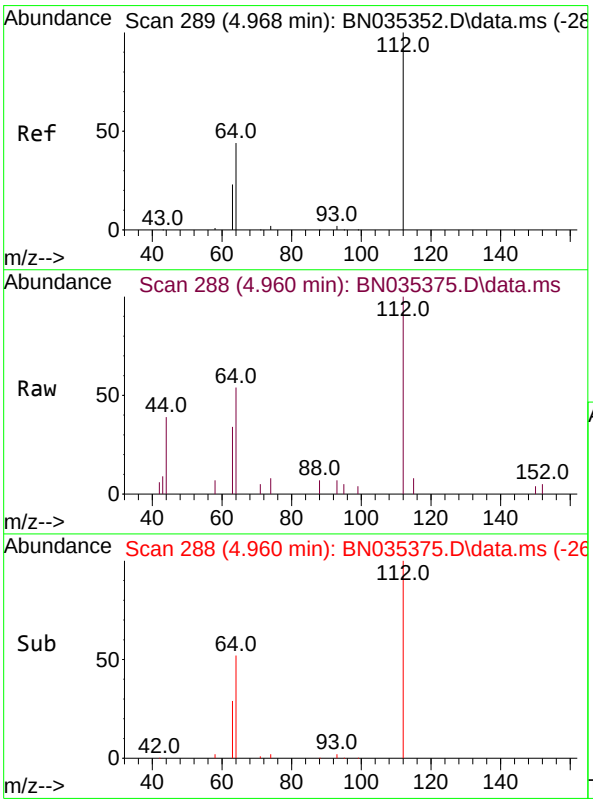
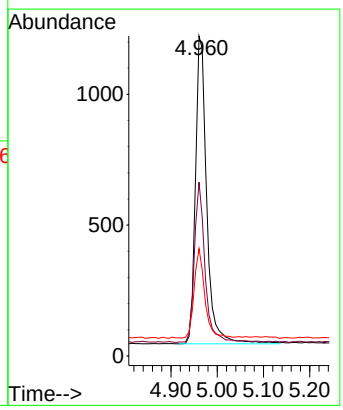
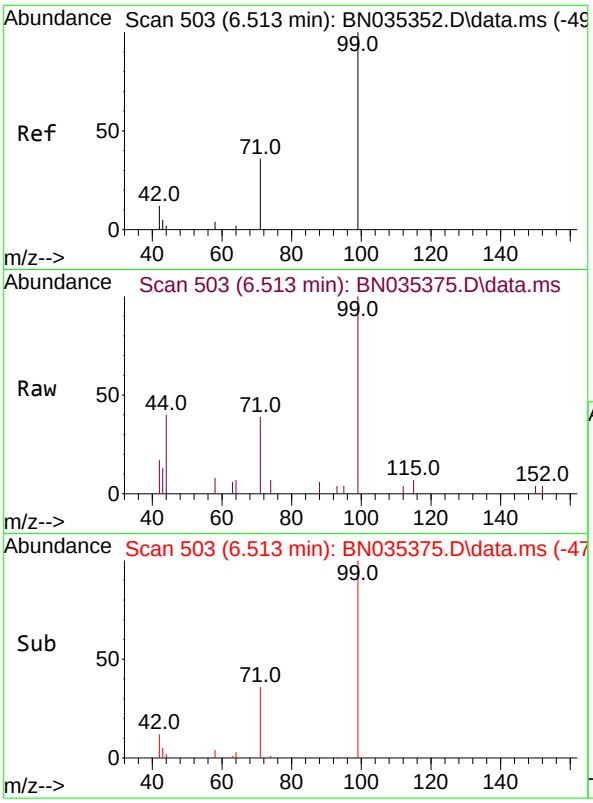


#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.960 min Scan# 288
Delta R.T. -0.007 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:112 Resp: 2006

Ion	Ratio	Lower	Upper
112	100		
64	48.5	39.8	59.8
63	27.4	21.0	31.6

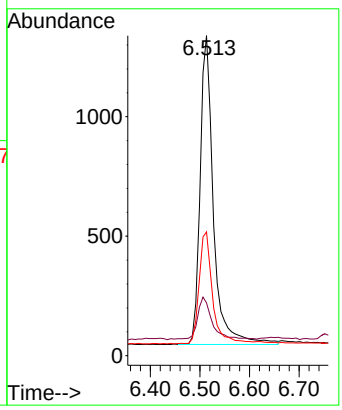




#5
Phenol-d6
Concen: 0.403 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion: 99 Resp: 241

Ion	Ratio	Lower	Upper
99	100		
42	15.5	11.4	17.2
71	36.5	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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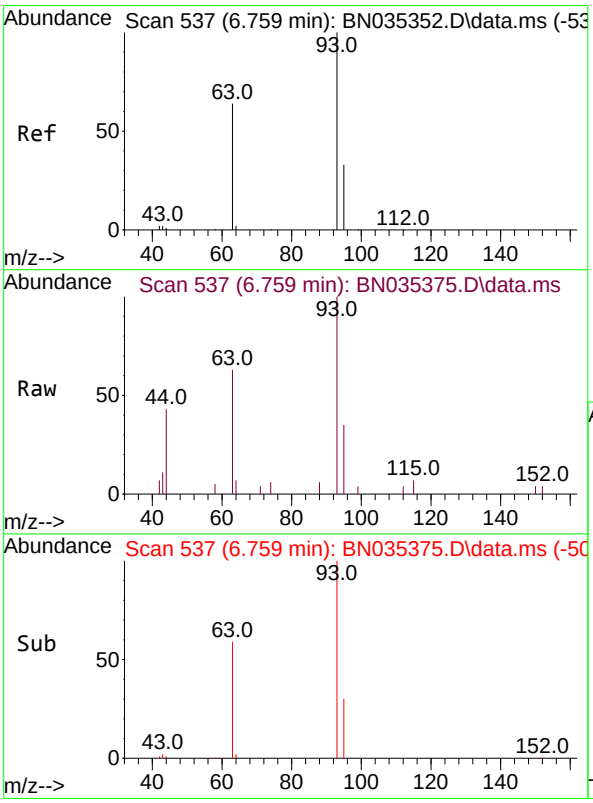
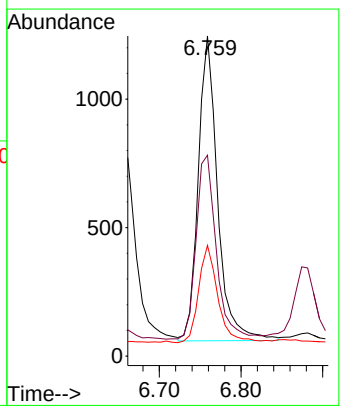
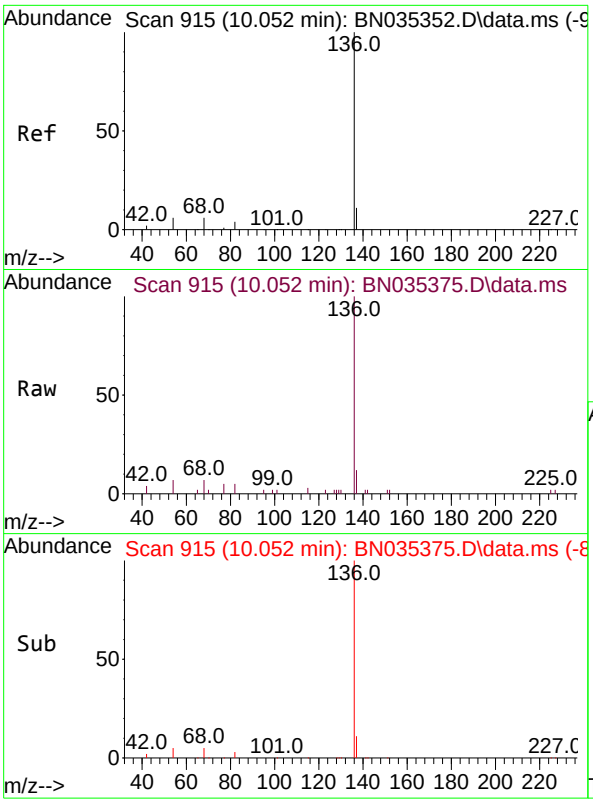


#6
bis(2-Chloroethyl)ether
Concen: 0.389 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion: 93 Resp: 1960

Ion	Ratio	Lower	Upper
93	100		
63	62.9	50.4	75.6
95	31.6	25.7	38.5

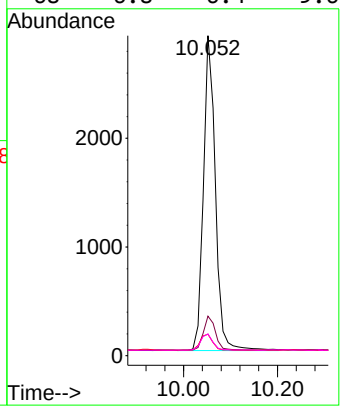




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:136 Resp: 510

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	6.7	6.1	9.1
68	6.8	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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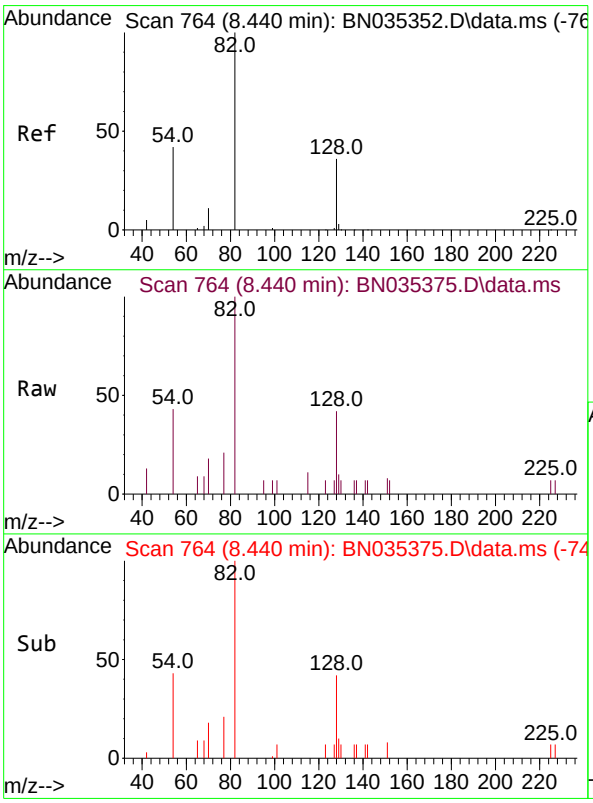
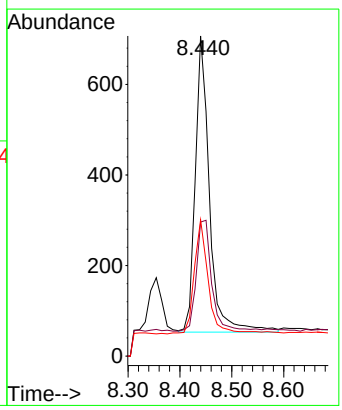
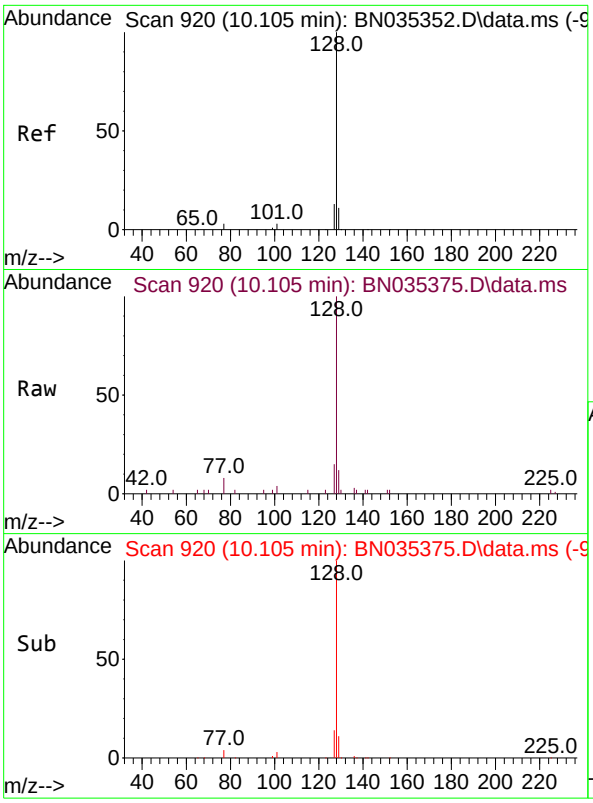


#8
Nitrobenzene-d5
Concen: 0.400 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion: 82 Resp: 1245

Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.4	50.0
54	42.6	36.7	55.1

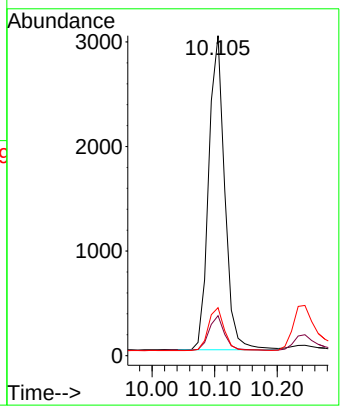




#9
Naphthalene
Concen: 0.396 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:128 Resp: 532

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	15.0	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
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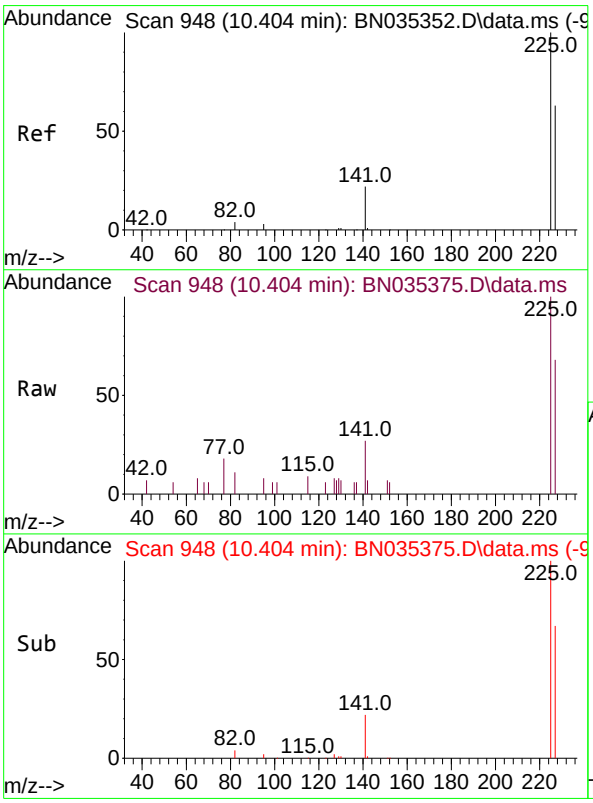
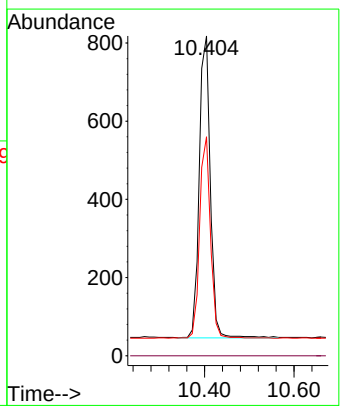
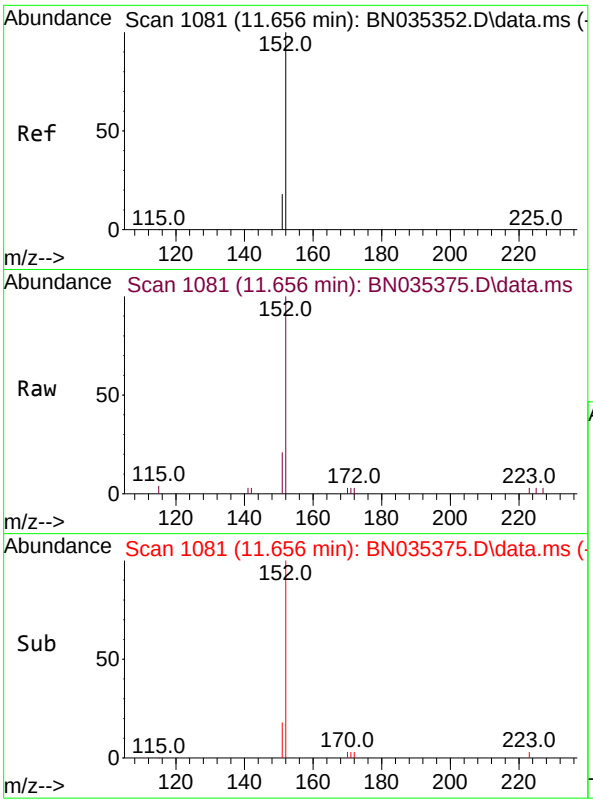


#10
Hexachlorobutadiene
Concen: 0.427 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:225 Resp: 1326

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.392 ng
RT: 11.656 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:152 Resp: 313(

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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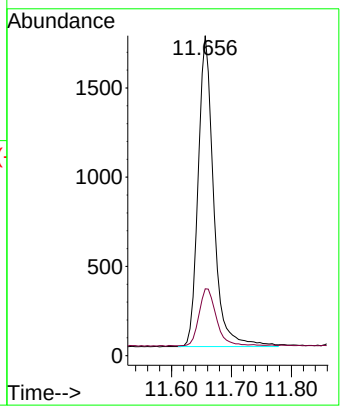
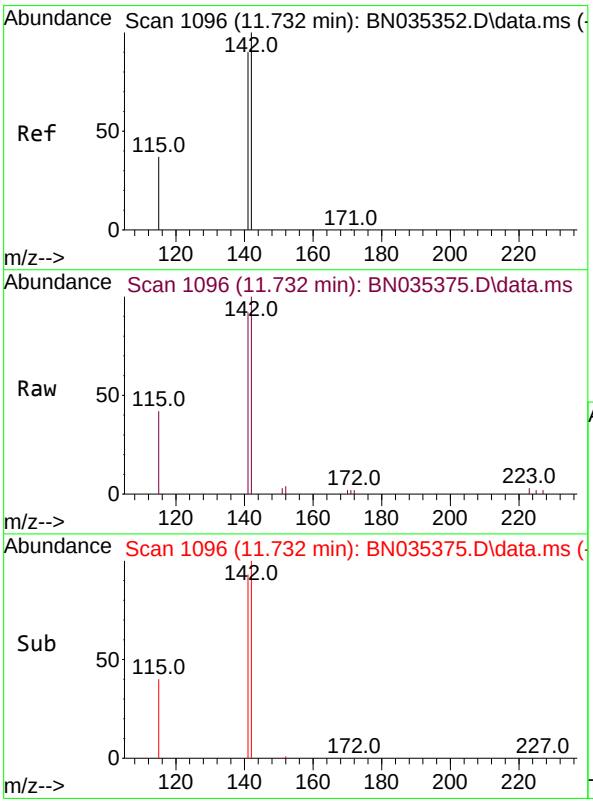
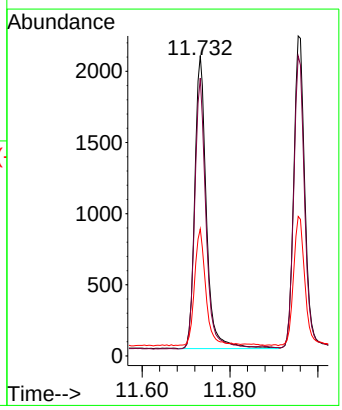


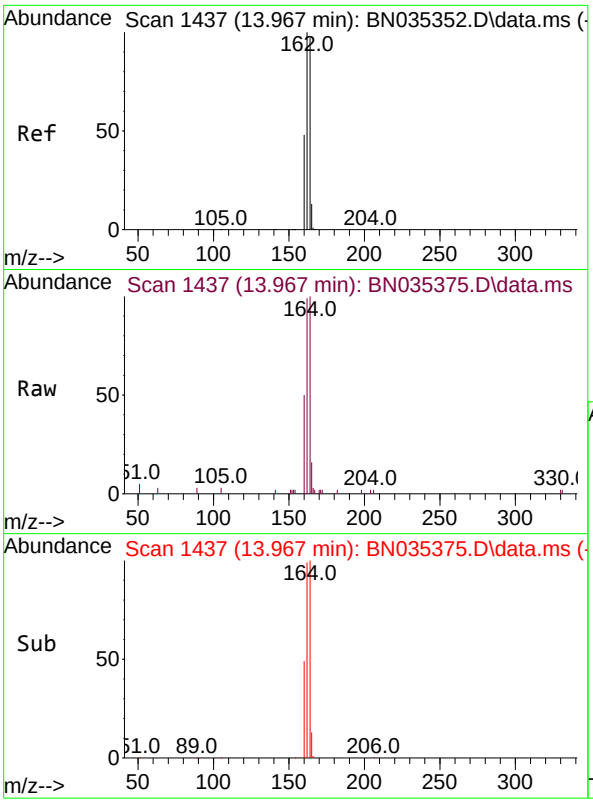


#12
2-Methylnaphthalene
Concen: 0.394 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:142 Resp: 3793

Ion	Ratio	Lower	Upper
142	100		
141	92.5	72.2	108.4
115	42.3	31.4	47.0

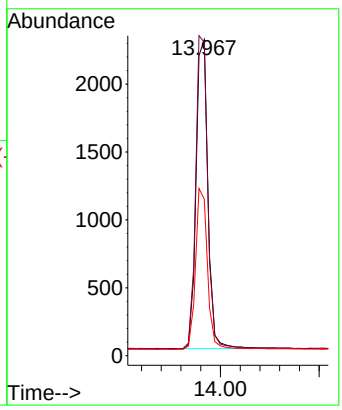




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:164 Resp: 379

Ion	Ratio	Lower	Upper
164	100		
162	99.2	82.2	123.2
160	49.5	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
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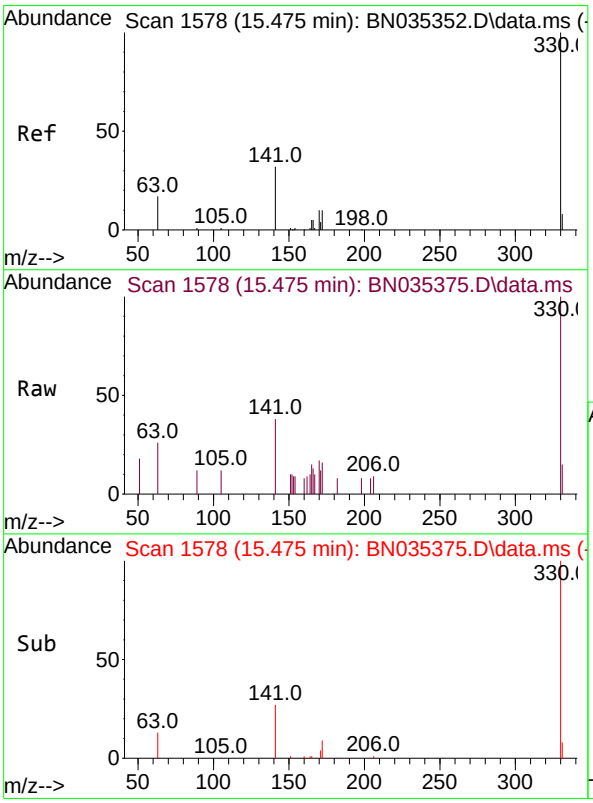
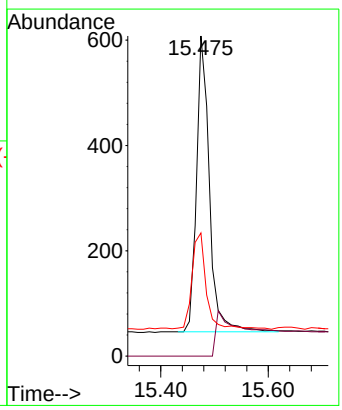
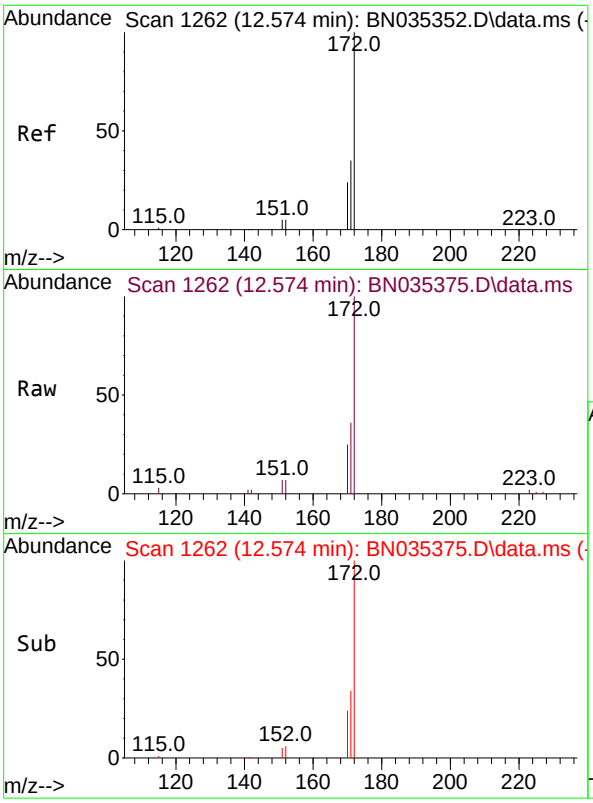


#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:330 Resp: 1011

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.5	26.6	40.0

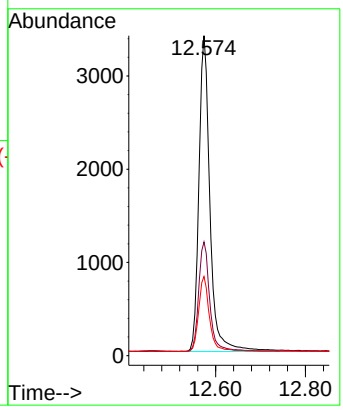




#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:172 Resp: 576

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.0	43.4
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
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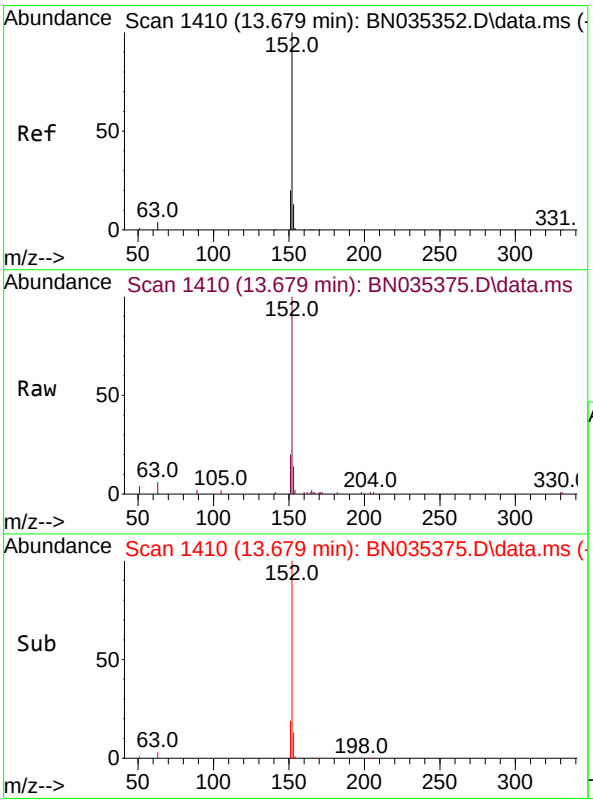
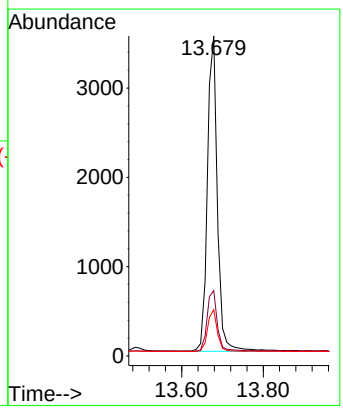
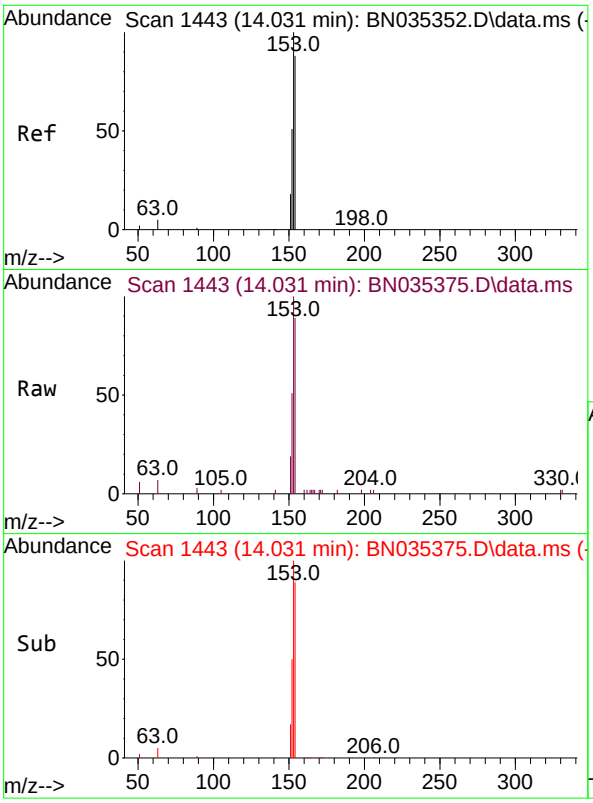


#16
Acenaphthylene
Concen: 0.378 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:152 Resp: 6028

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.2
153	12.9	10.4	15.6

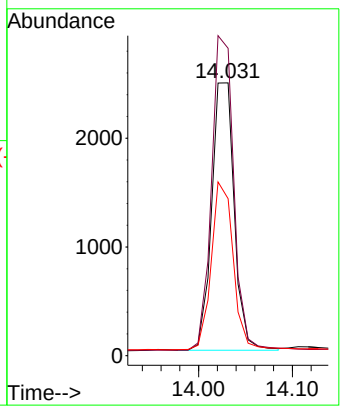




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:154 Resp: 410

Ion	Ratio	Lower	Upper
154	100		
153	117.0	92.6	139.0
152	61.6	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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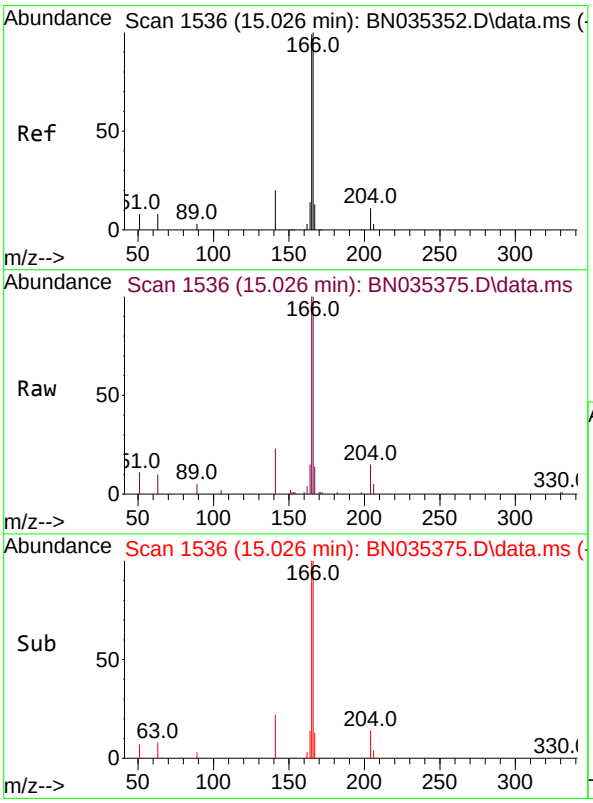
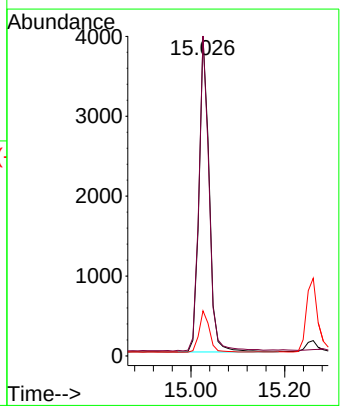
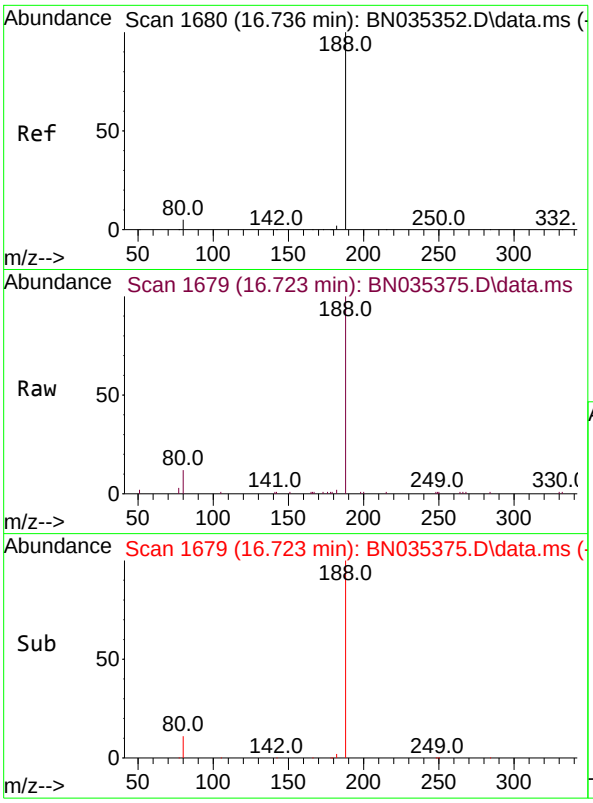


#18
Fluorene
Concen: 0.392 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:166 Resp: 5935

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.7	119.5
167	13.3	10.8	16.2

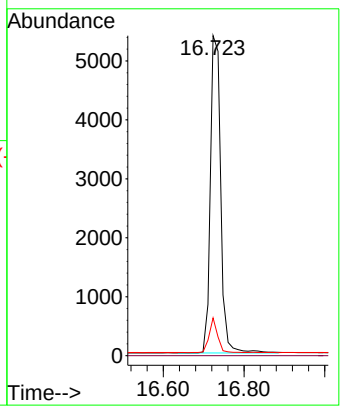




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:188 Resp: 956(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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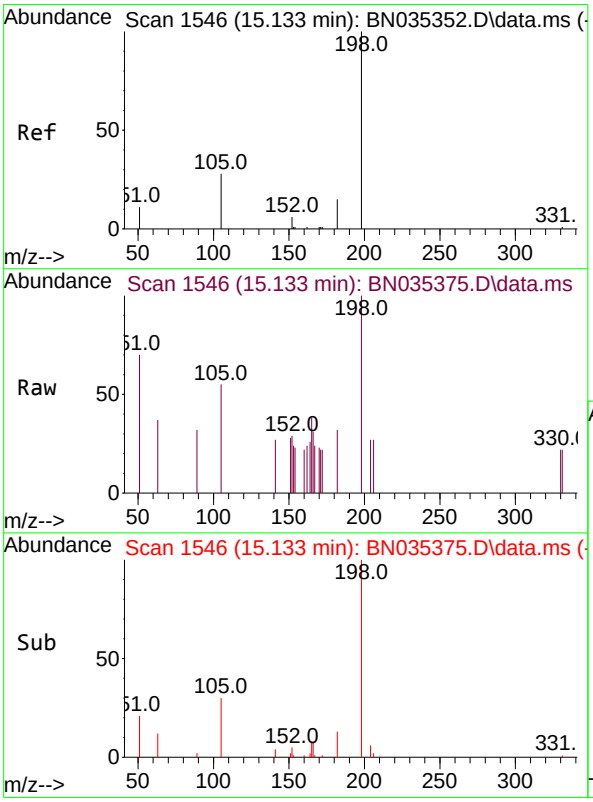
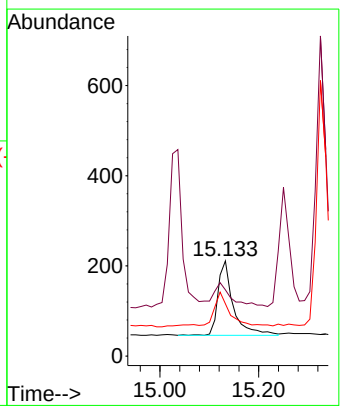
Supervised By :mohammad ahmed 11/29/2024

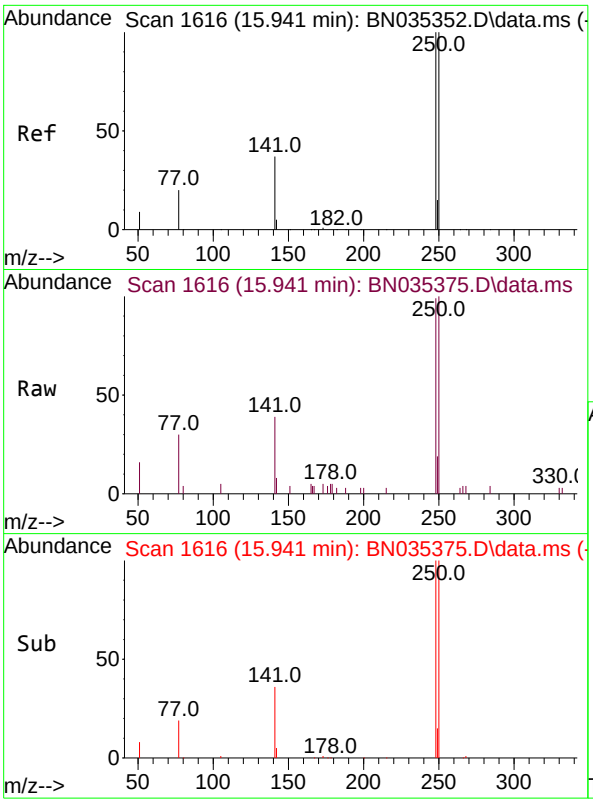


#20
4,6-Dinitro-2-methylphenol
Concen: 0.380 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:198 Resp: 357

Ion	Ratio	Lower	Upper
198	100		
51	69.7	46.5	69.7
105	55.0	45.3	67.9

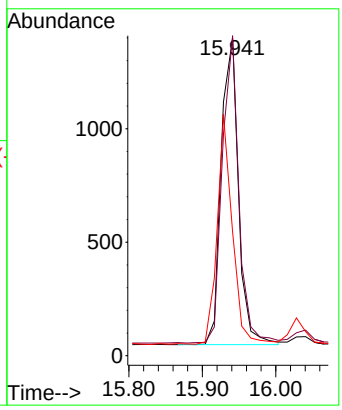




#21
4-Bromophenyl-phenylether
Concen: 0.394 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:248 Resp: 220(

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	38.9	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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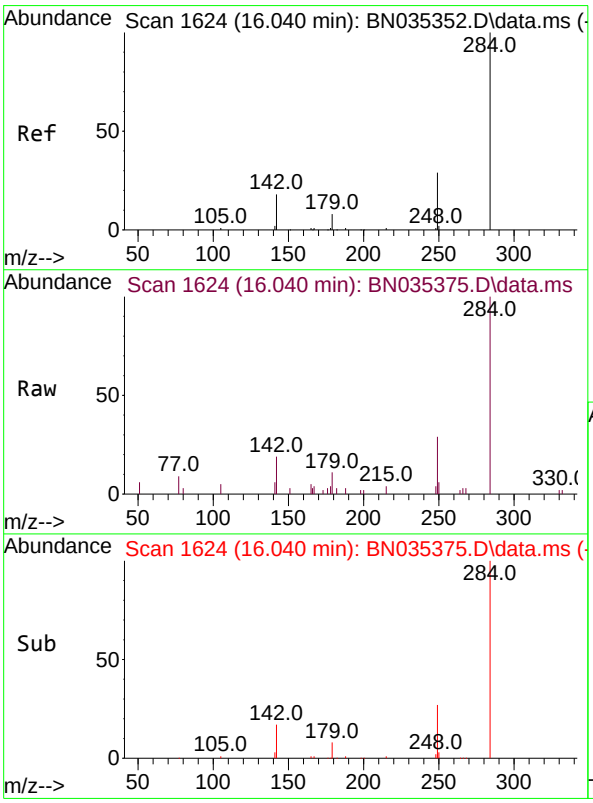
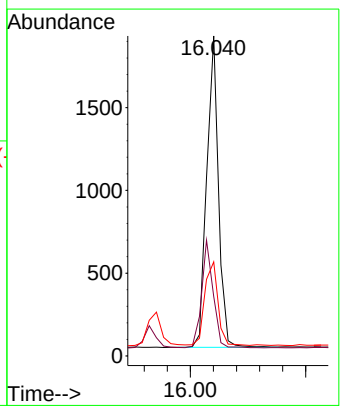
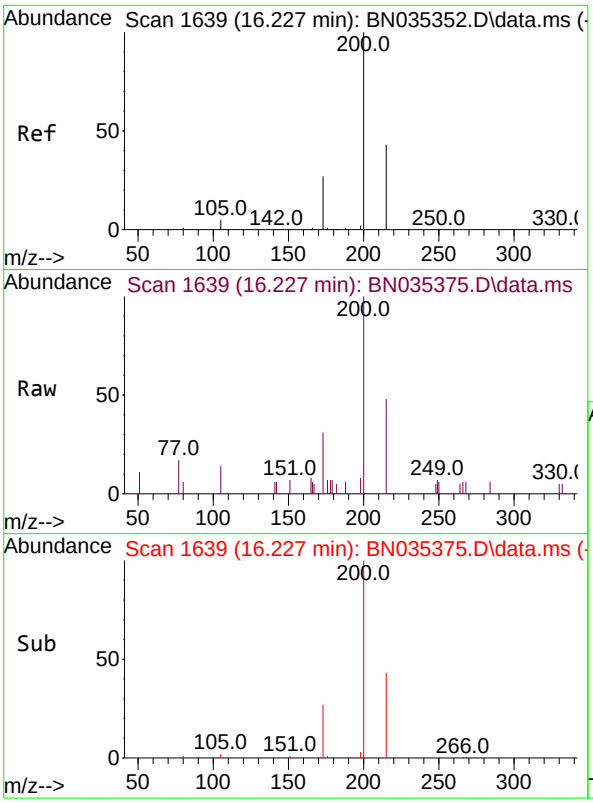


#22
Hexachlorobenzene
Concen: 0.404 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:284 Resp: 2655

Ion	Ratio	Lower	Upper
284	100		
142	33.9	26.7	40.1
249	30.2	24.6	36.8

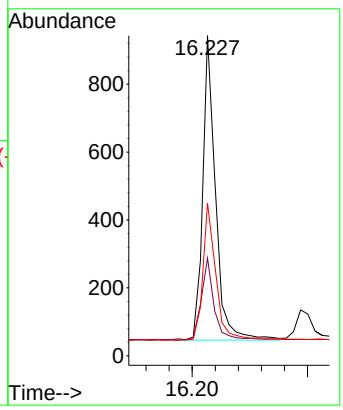




#23
Atrazine
Concen: 0.347 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:200 Resp: 138

Ion	Ratio	Lower	Upper
200	100		
173	30.5	24.1	36.1
215	47.7	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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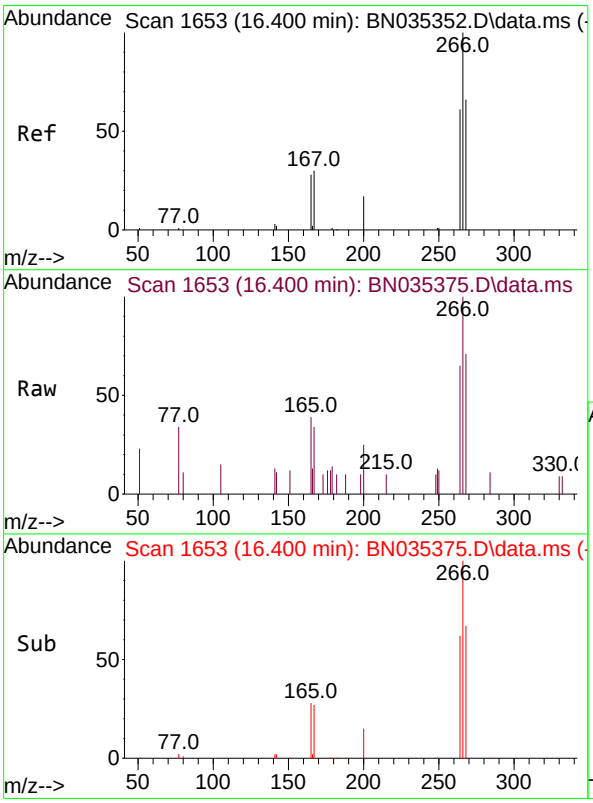
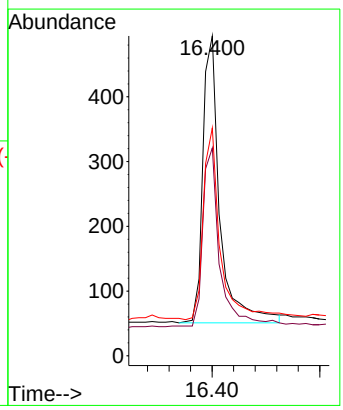
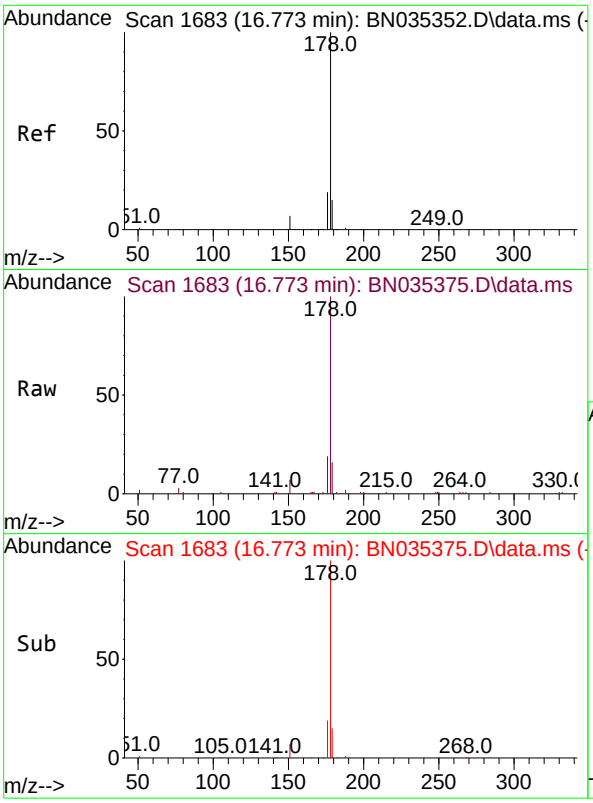


#24
Pentachlorophenol
Concen: 0.340 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:266 Resp: 973

Ion	Ratio	Lower	Upper
266	100		
264	62.7	42.3	63.5
268	67.7	43.3	64.9#

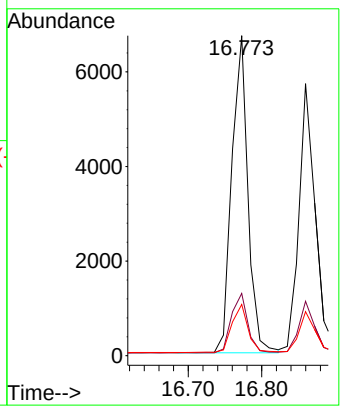




#25
Phenanthrene
Concen: 0.388 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:178 Resp: 1020

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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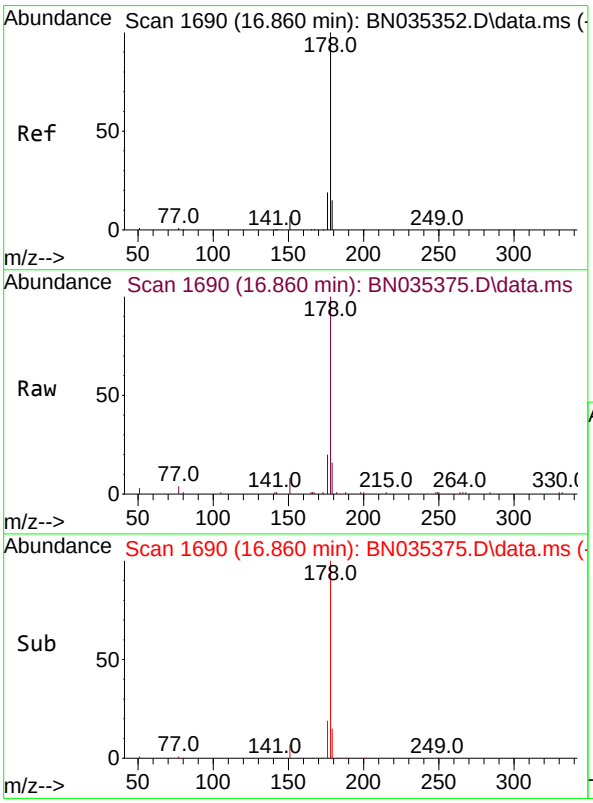
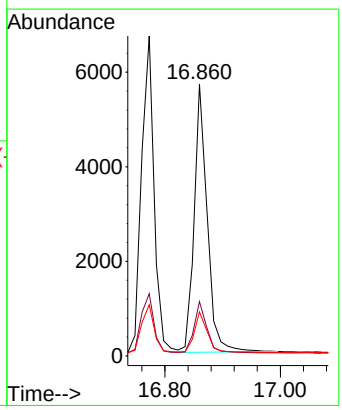
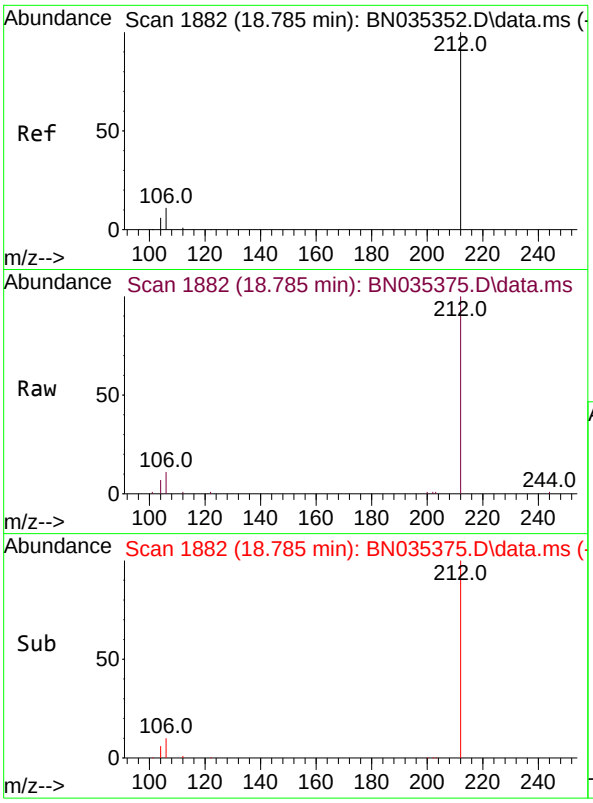


#26
Anthracene
Concen: 0.376 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:178 Resp: 8929

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.5	12.6	18.8

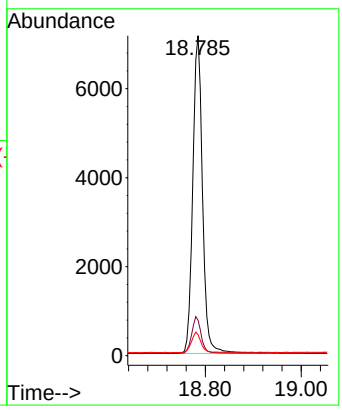




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:212 Resp: 1010

Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.3	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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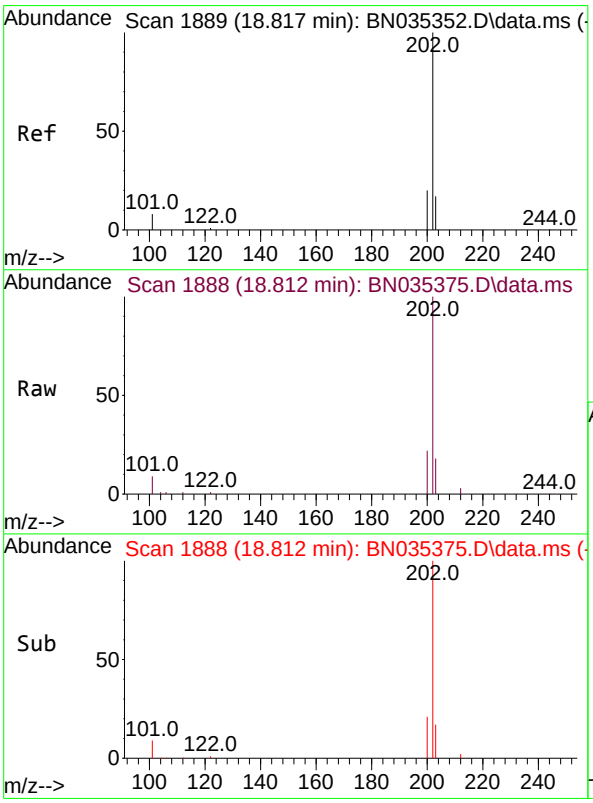
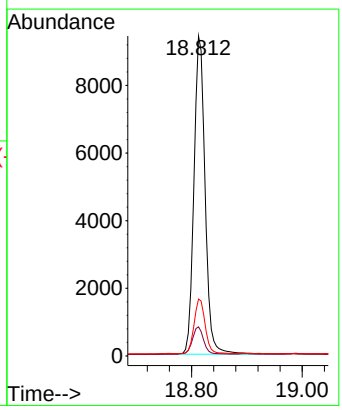
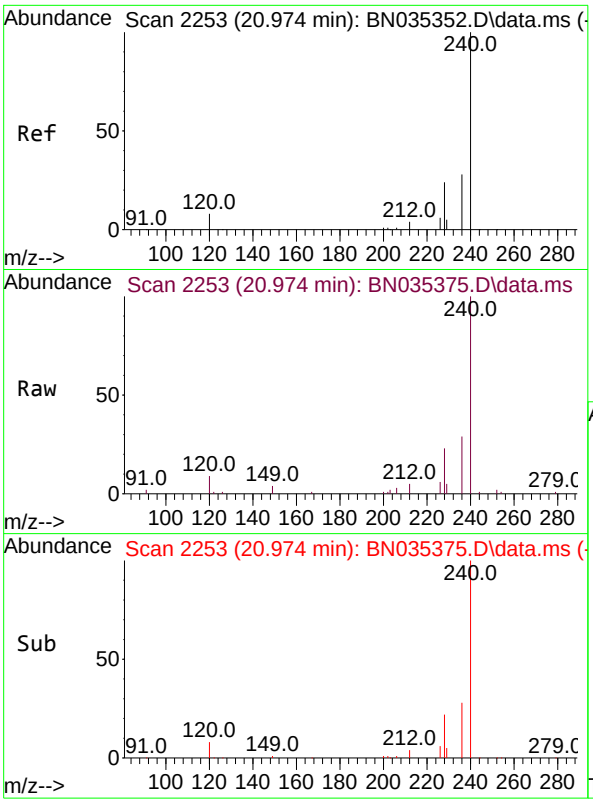


#28
Fluoranthene
Concen: 0.373 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:202 Resp: 13216

Ion	Ratio	Lower	Upper
202	100		
101	8.6	7.4	11.0
203	17.0	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 922

Ion	Ratio	Lower	Upper
240	100		
120	8.9	7.9	11.9
236	28.6	22.9	34.3

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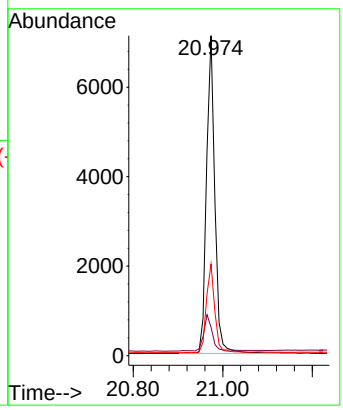
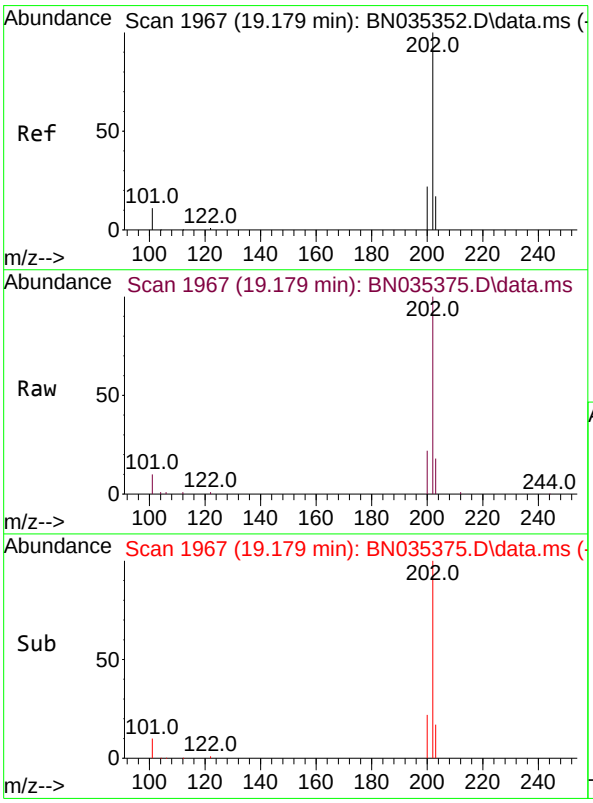
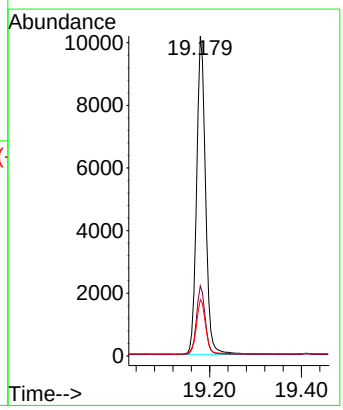


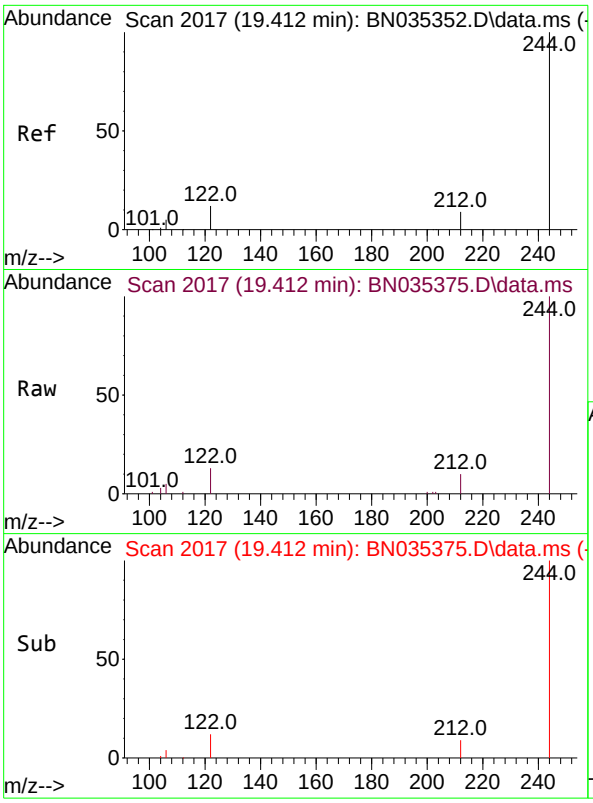


#30
Pyrene
Concen: 0.403 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:202 Resp: 13731

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.8	14.3	21.5

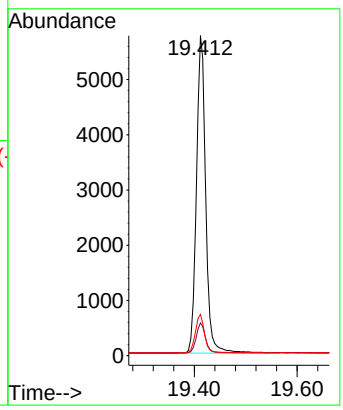




#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:244 Resp: 725

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	12.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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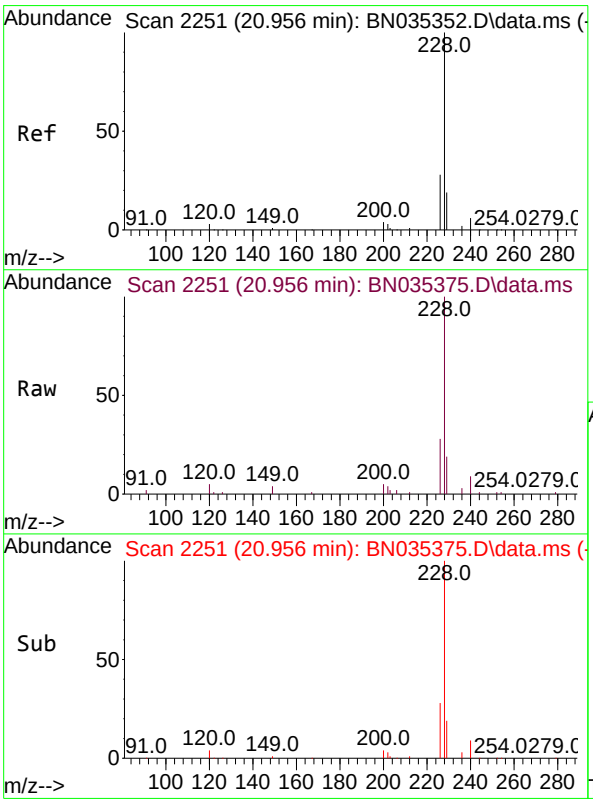
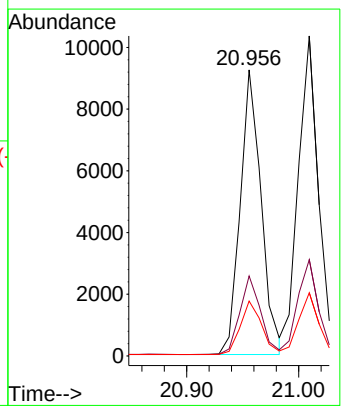
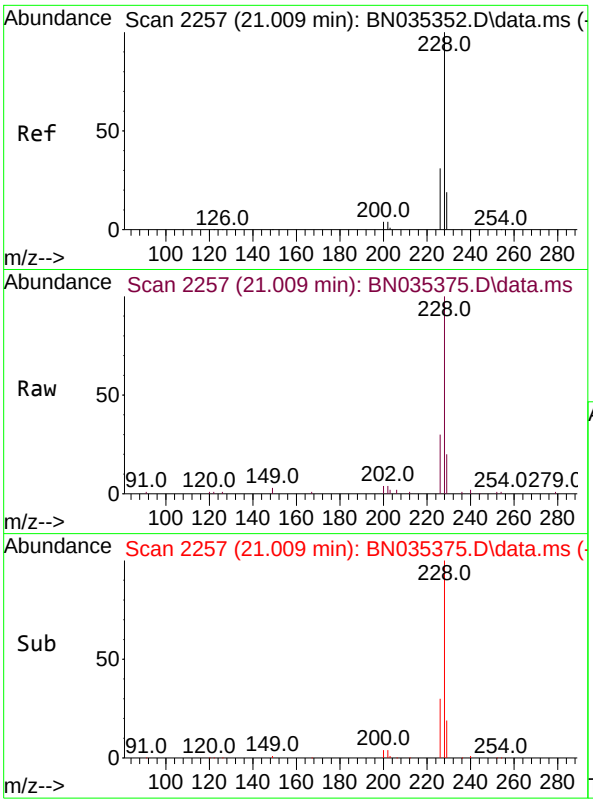


#32
Benzo(a)anthracene
Concen: 0.372 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:228 Resp: 11985

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	19.2	15.8	23.8

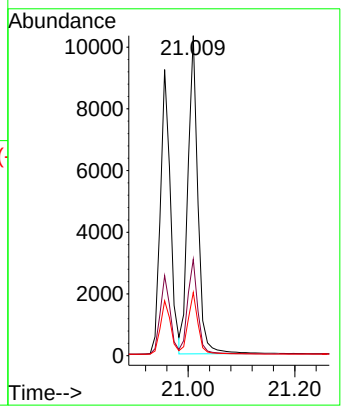




#33
Chrysene
Concen: 0.402 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:228 Resp: 1336

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.6	37.0
229	19.8	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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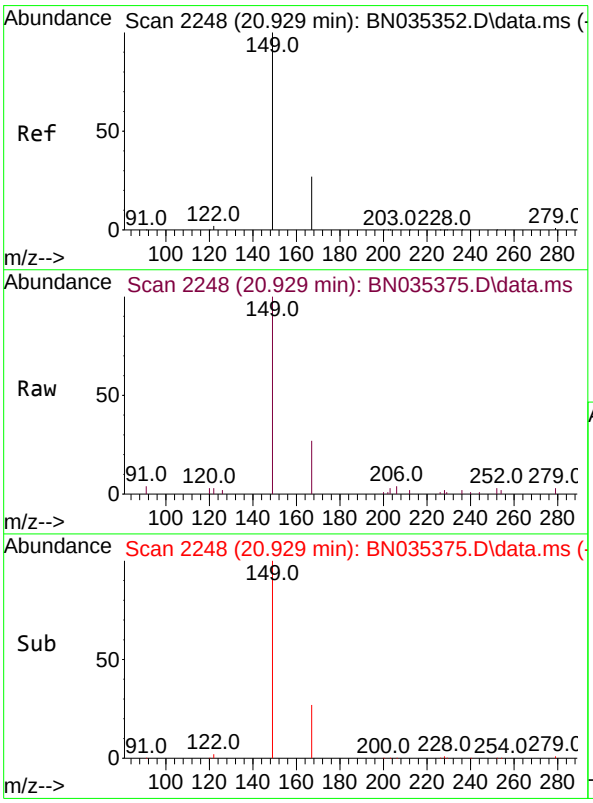
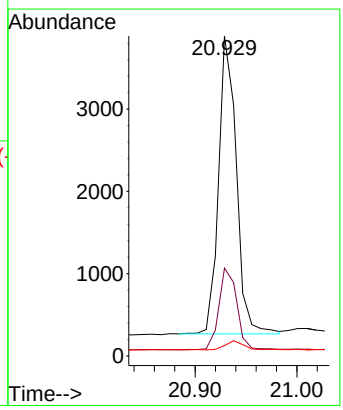
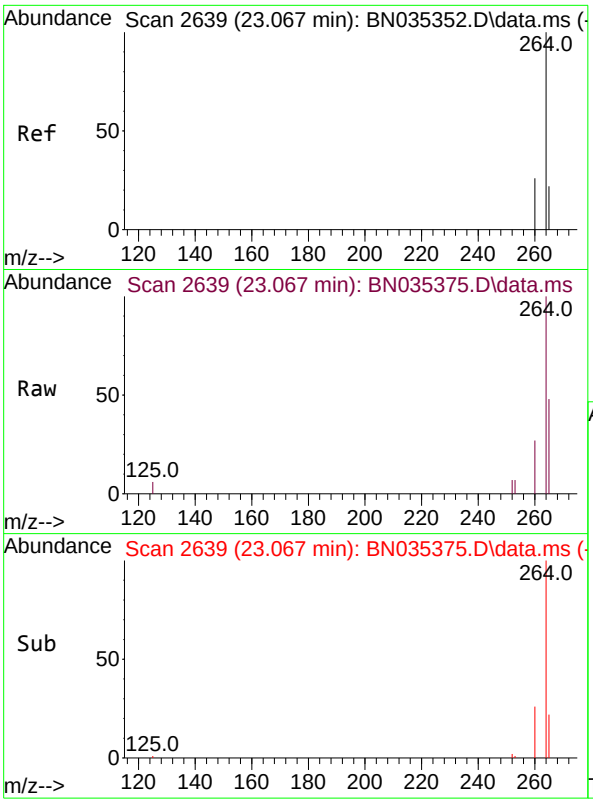


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.344 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:149 Resp: 4380

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.3	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:264 Resp: 1008

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	48.5	40.2	60.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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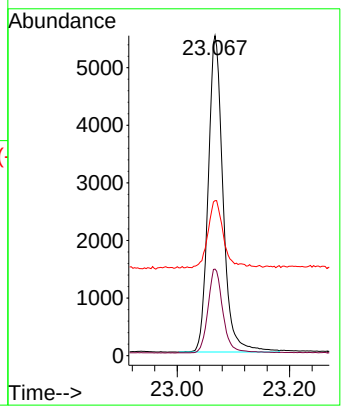
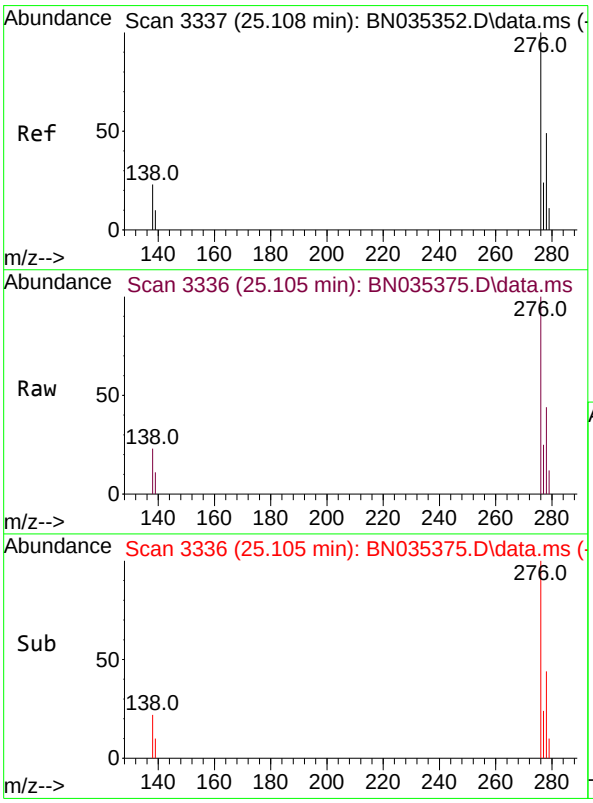
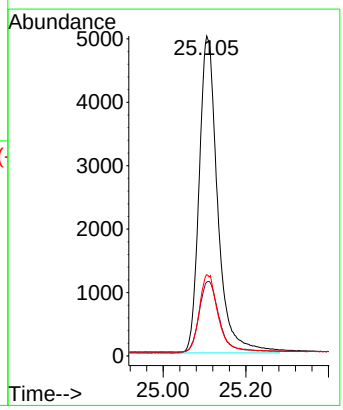


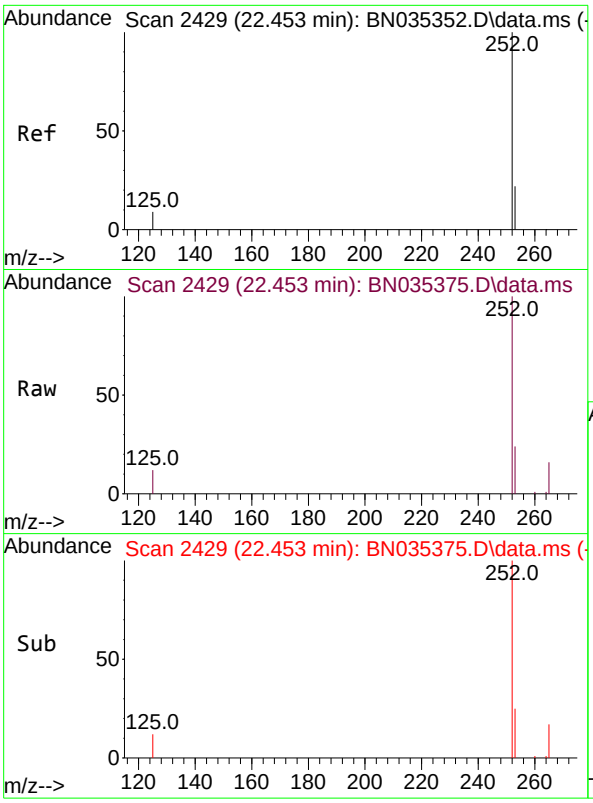


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.394 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:276 Resp: 15538

Ion	Ratio	Lower	Upper
276	100		
138	23.6	19.4	29.0
277	24.8	19.8	29.6

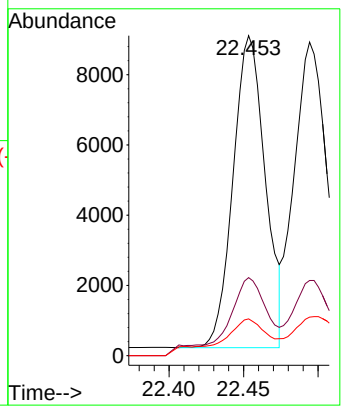




#37
Benzo(b)fluoranthene
Concen: 0.361 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:252 Resp: 1332

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.6	29.4
125	11.5	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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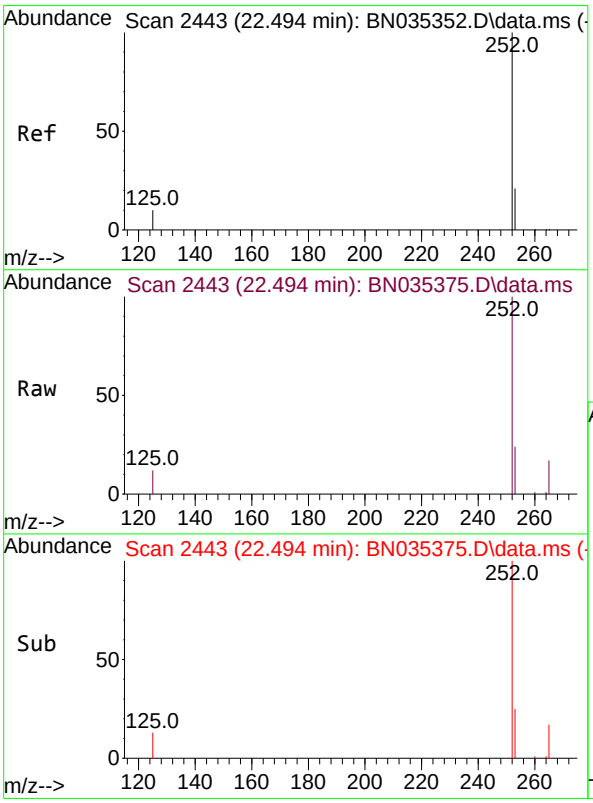
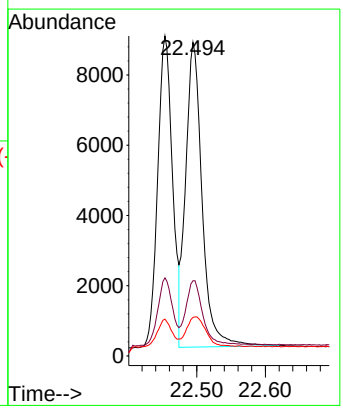
Supervised By :mohammad ahmed 11/29/2024

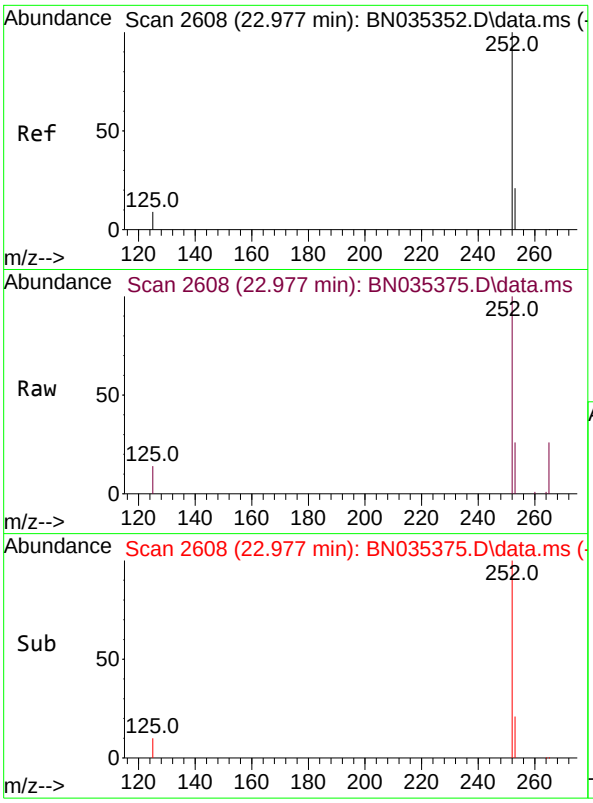


#38
Benzo(k)fluoranthene
Concen: 0.397 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:252 Resp: 14406

Ion	Ratio	Lower	Upper
252	100		
253	24.0	19.5	29.3
125	12.3	10.2	15.4

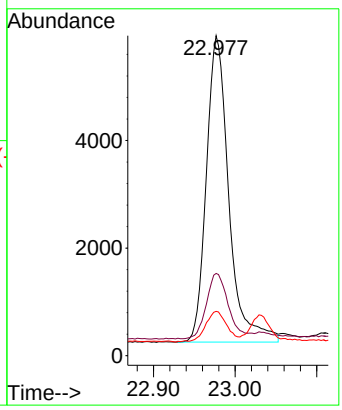




#39
Benzo(a)pyrene
Concen: 0.359 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:252 Resp: 1089

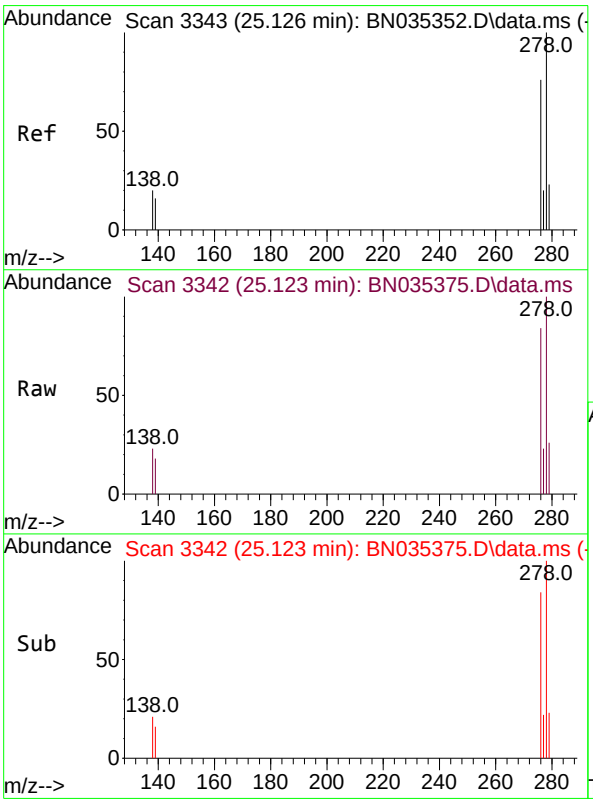
Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	13.8	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

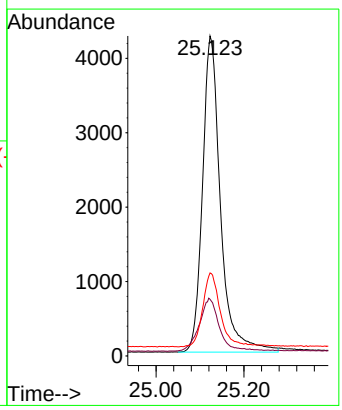
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

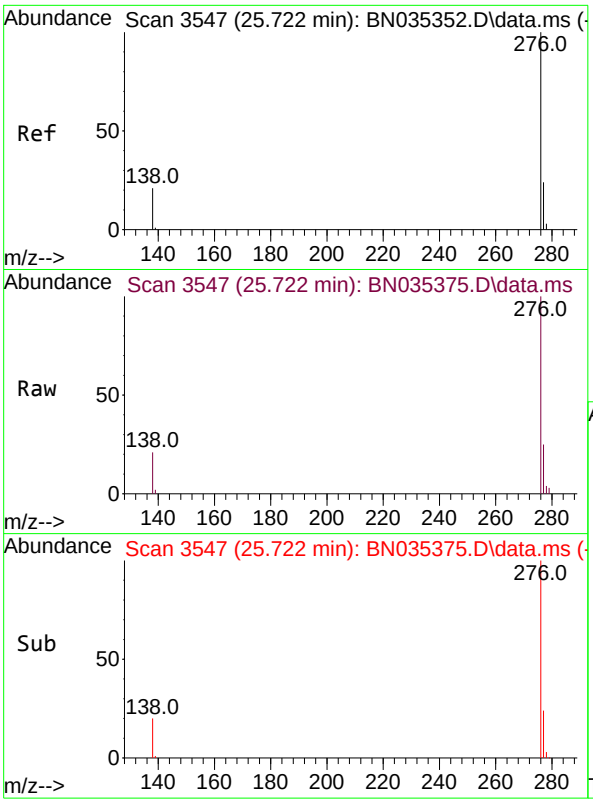


#40
Dibenzo(a,h)anthracene
Concen: 0.389 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:278 Resp: 12092

Ion	Ratio	Lower	Upper
278	100		
139	17.7	14.2	21.4
279	26.0	20.5	30.7

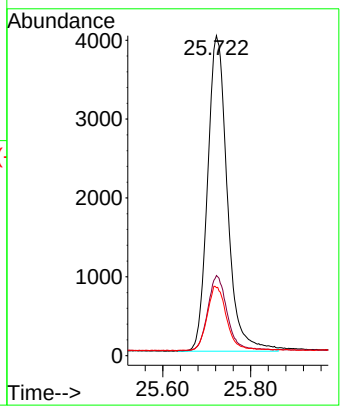




#41
Benzo(g,h,i)perylene
Concen: 0.385 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:276 Resp: 1250

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	21.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035375.D
Acq On : 28 Nov 2024 09:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 29 00:19:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 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	97	0.00
2		1,4-Dioxane	0.382	0.378	1.0	98	0.00
3		n-Nitrosodimethylamine	0.319	0.315	1.3	94	0.00
4	S	2-Fluorophenol	1.001	1.006	-0.5	96	0.00
5	S	Phenol-d6	1.204	1.212	-0.7	99	0.00
6		bis(2-Chloroethyl)ether	1.012	0.983	2.9	96	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	98	0.00
8	S	Nitrobenzene-d5	0.244	0.244	0.0	101	0.00
9		Naphthalene	1.055	1.045	0.9	97	0.00
10		Hexachlorobutadiene	0.243	0.260	-7.0	103	0.00
11	SURR	2-Methylnaphthalene-d10	0.626	0.614	1.9	97	0.00
12		2-Methylnaphthalene	0.755	0.744	1.5	98	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
14	S	2,4,6-Tribromophenol	0.284	0.266	6.3	104	0.00
15	S	2-Fluorobiphenyl	1.512	1.517	-0.3	100	0.00
16		Acenaphthylene	1.680	1.587	5.5	100	0.00
17		Acenaphthene	1.115	1.081	3.0	100	0.00
18		Fluorene	1.596	1.563	2.1	101	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	101	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.037	5.1	106	0.00
21		4-Bromophenyl-phenylether	0.234	0.231	1.3	103	0.00
22		Hexachlorobenzene	0.275	0.278	-1.1	103	0.00
23		Atrazine	0.167	0.145	13.2	95	0.00
24		Pentachlorophenol	0.120	0.102	15.0	107	0.00
25		Phenanthrene	1.099	1.067	2.9	101	0.00
26		Anthracene	0.994	0.933	6.1	100	0.00
27	SURR	Fluoranthene-d10	1.134	1.056	6.9	99	0.00
28		Fluoranthene	1.481	1.382	6.7	98	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	97	0.00
30		Pyrene	1.477	1.489	-0.8	98	0.00
31	S	Terphenyl-d14	0.789	0.787	0.3	96	0.00
32		Benzo(a)anthracene	1.399	1.300	7.1	93	0.00
33		Chrysene	1.443	1.449	-0.4	97	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.475	14.1	89	0.00
35	I	Perylene-d12	1.000	1.000	0.0	93	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.541	1.5	94	0.00
37		Benzo(b)fluoranthene	1.463	1.322	9.6	94	0.00
38		Benzo(k)fluoranthene	1.440	1.429	0.8	95	0.00
39	C	Benzo(a)pyrene	1.205	1.080	10.4	88	0.00
40		Dibenzo(a,h)anthracene	1.234	1.199	2.8	93	0.00
41		Benzo(g,h,i)perylene	1.289	1.240	3.8	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035375.D
Acq On : 28 Nov 2024 09:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 29 00:19:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 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	97	0.00
2		1,4-Dioxane	0.400	0.396	1.0	98	0.00
3		n-Nitrosodimethylamine	0.400	0.396	1.0	94	0.00
4	S	2-Fluorophenol	0.400	0.402	-0.5	96	0.00
5	S	Phenol-d6	0.400	0.403	-0.8	99	0.00
6		bis(2-Chloroethyl)ether	0.400	0.389	2.8	96	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	98	0.00
8	S	Nitrobenzene-d5	0.400	0.400	0.0	101	0.00
9		Naphthalene	0.400	0.396	1.0	97	0.00
10		Hexachlorobutadiene	0.400	0.427	-6.7	103	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.392	2.0	97	0.00
12		2-Methylnaphthalene	0.400	0.394	1.5	98	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	100	0.00
14	S	2,4,6-Tribromophenol	0.400	0.375	6.3	104	0.00
15	S	2-Fluorobiphenyl	0.400	0.401	-0.3	100	0.00
16		Acenaphthylene	0.400	0.378	5.5	100	0.00
17		Acenaphthene	0.400	0.388	3.0	100	0.00
18		Fluorene	0.400	0.392	2.0	101	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	101	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.380	5.0	106	0.00
21		4-Bromophenyl-phenylether	0.400	0.394	1.5	103	0.00
22		Hexachlorobenzene	0.400	0.404	-1.0	103	0.00
23		Atrazine	0.400	0.347	13.3	95	0.00
24		Pentachlorophenol	0.400	0.340	15.0	107	0.00
25		Phenanthrene	0.400	0.388	3.0	101	0.00
26		Anthracene	0.400	0.376	6.0	100	0.00
27	SURR	Fluoranthene-d10	0.400	0.373	6.8	99	0.00
28		Fluoranthene	0.400	0.373	6.8	98	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	97	0.00
30		Pyrene	0.400	0.403	-0.8	98	0.00
31	S	Terphenyl-d14	0.400	0.399	0.3	96	0.00
32		Benzo(a)anthracene	0.400	0.372	7.0	93	0.00
33		Chrysene	0.400	0.402	-0.5	97	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.344	14.0	89	0.00
35	I	Perylene-d12	0.400	0.400	0.0	93	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.394	1.5	94	0.00
37		Benzo(b)fluoranthene	0.400	0.361	9.8	94	0.00
38		Benzo(k)fluoranthene	0.400	0.397	0.8	95	0.00
39	C	Benzo(a)pyrene	0.400	0.359	10.3	88	0.00
40		Dibenzo(a,h)anthracene	0.400	0.389	2.8	93	0.00
41		Benzo(g,h,i)perylene	0.400	0.385	3.8	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

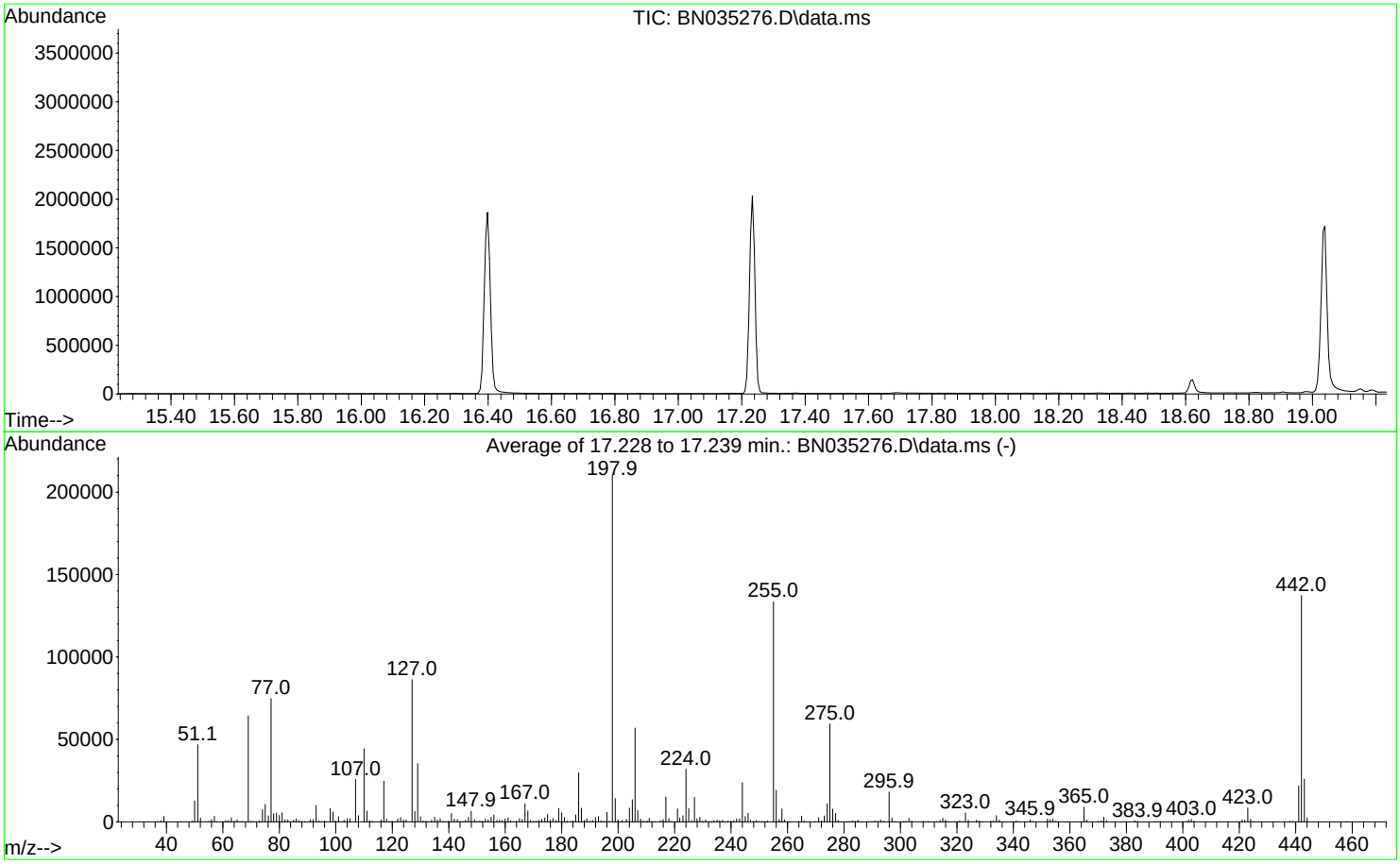
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035276.D
Acq On : 25 Nov 2024 09:37
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 26 02:36:08 2024



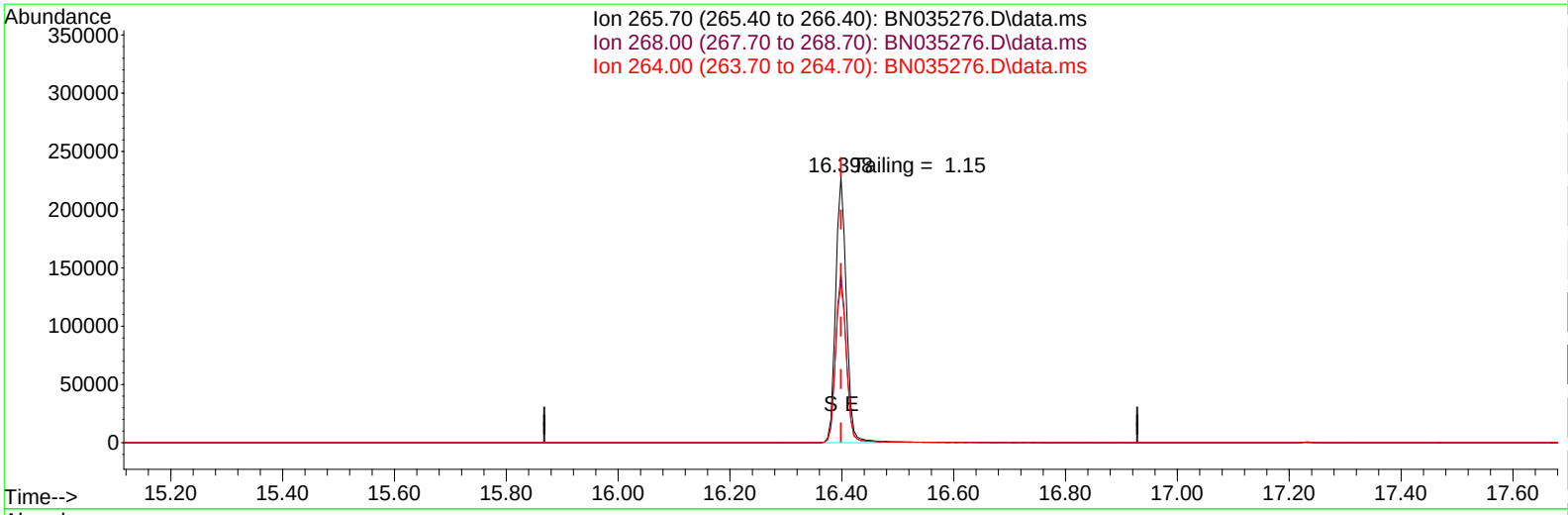
AutoFind: Scans 2438, 2439, 2440; Background Corrected with Scan 2431

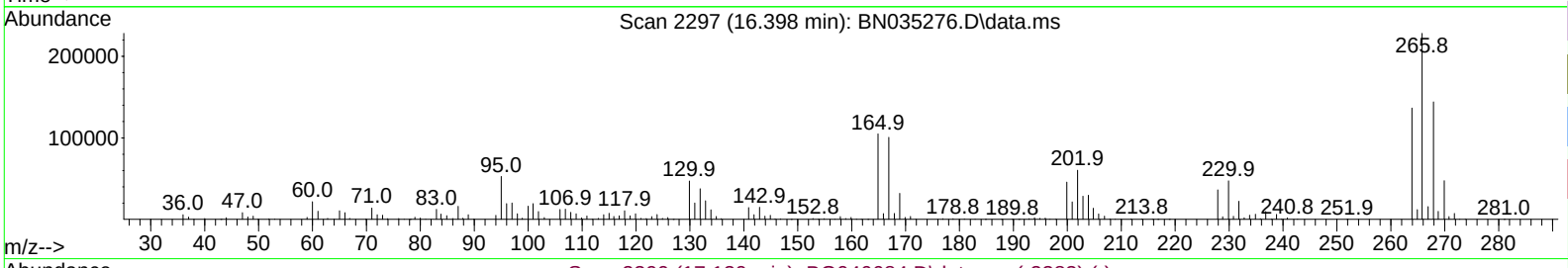
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	22.2	46795	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.5	64280	PASS
70	69	0.00	2	0.5	352	PASS
127	198	10	80	40.9	86240	PASS
197	198	0.00	2	0.2	340	PASS
198	198	100	100	100.0	210688	PASS
199	198	5	9	6.7	14182	PASS
275	198	10	60	28.2	59405	PASS
365	198	1	100	4.2	8892	PASS
441	198	0.01	100	10.4	21850	PASS
442	442	50	100	100.0	137299	PASS
443	442	15	24	18.9	25952	PASS

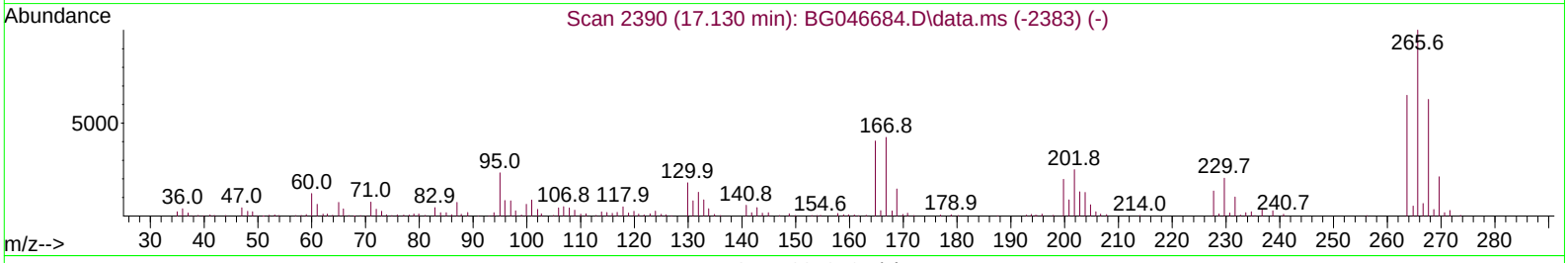
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035276.D
Acq On : 25 Nov 2024 09:37
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 26 05:17:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 05:17:50 2024
Response via : Initial Calibration







TIC: BN035276.D\data.ms

(70) Pentachlorophenol (C)

16.398min (0.000) 33730.33 ng

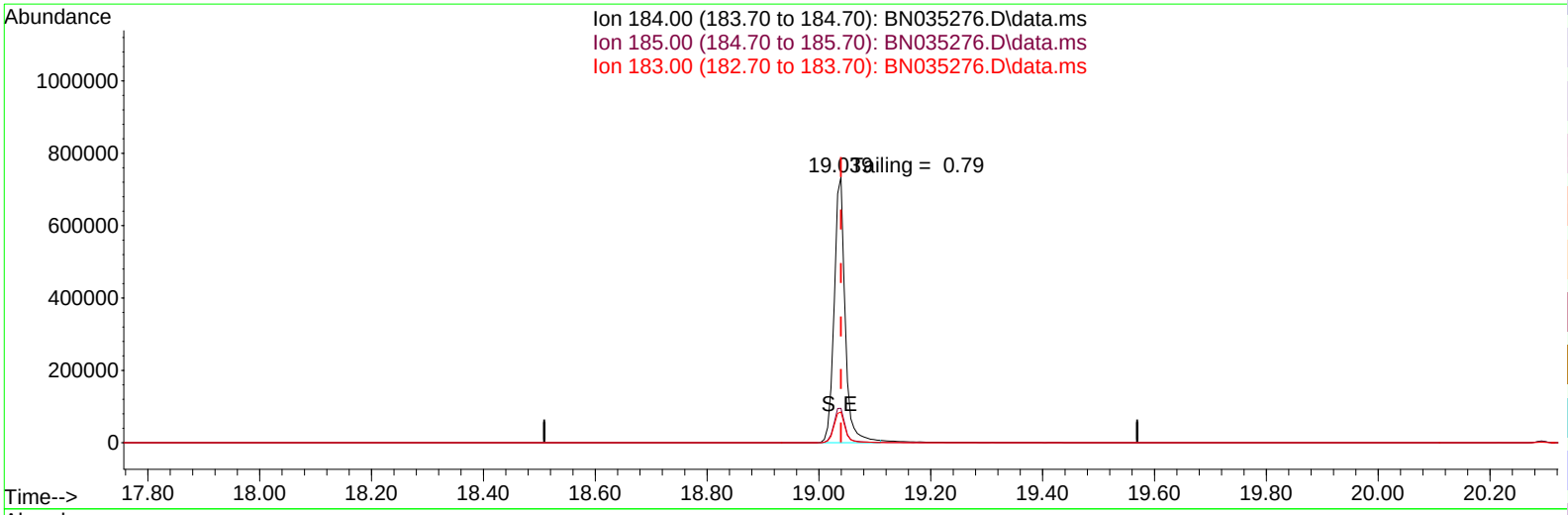
response 307325

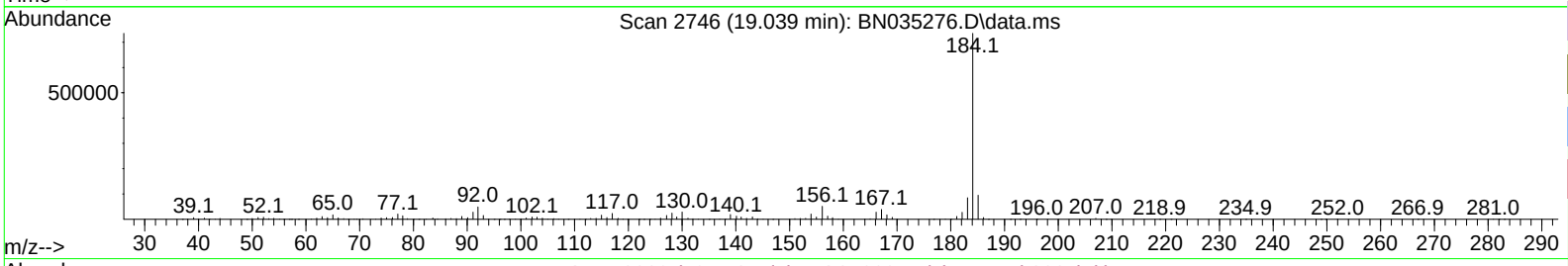
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.17
264.00	61.60	59.86
0.00	0.00	0.00

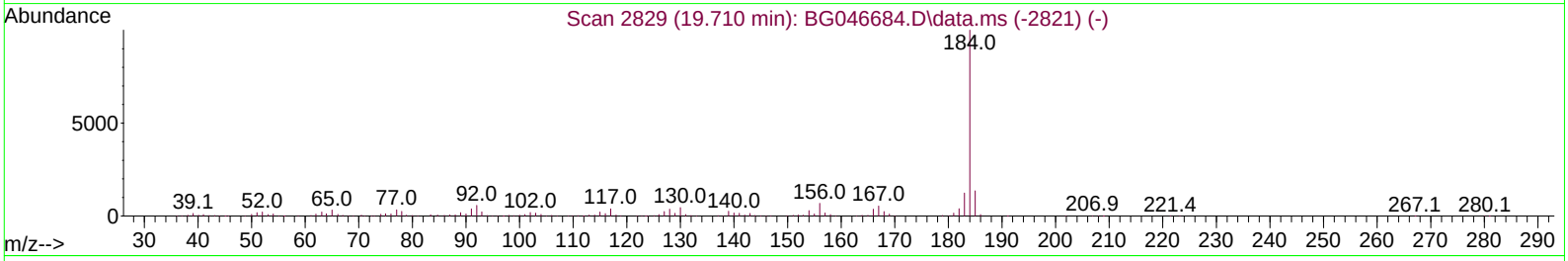
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035276.D
Acq On : 25 Nov 2024 09:37
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 26 05:17:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 05:17:50 2024
Response via : Initial Calibration







TIC: BN035276.D\data.ms

(77) Benzidine

19.039min (0.000) 0.00 ng

response 1018750

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	12.97
183.00	13.20	11.60
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/25/2024	BNA_N	BN035276.D
Compound Name	**Response**	**Retention Time**
DDT	703573	20.292
DDD	32612	19.845
DDE	1098	19.333
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
33710	737283	4.57

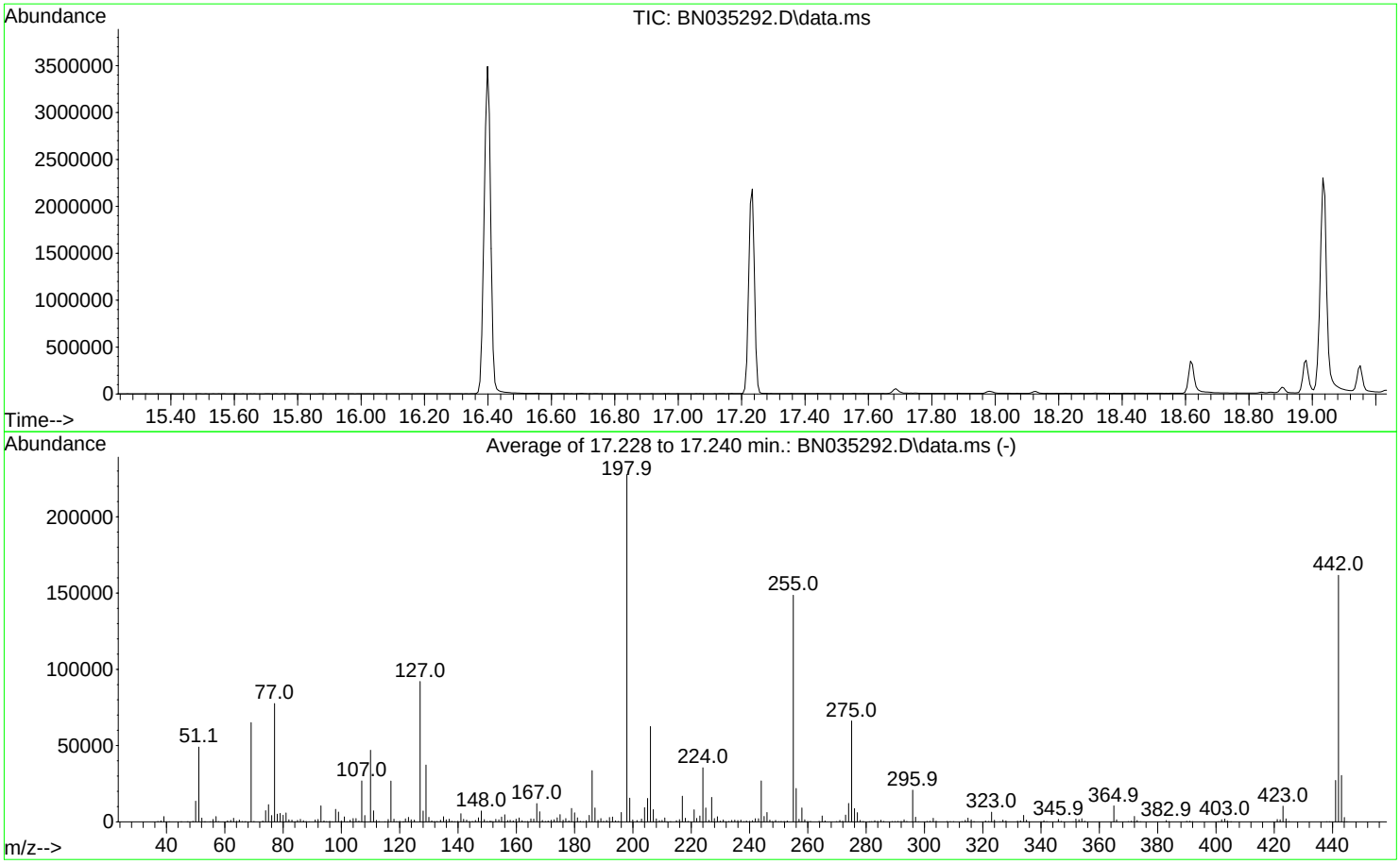
Sample Results: **BN035292.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035292.D
Acq On : 25 Nov 2024 20:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 26 02:36:08 2024



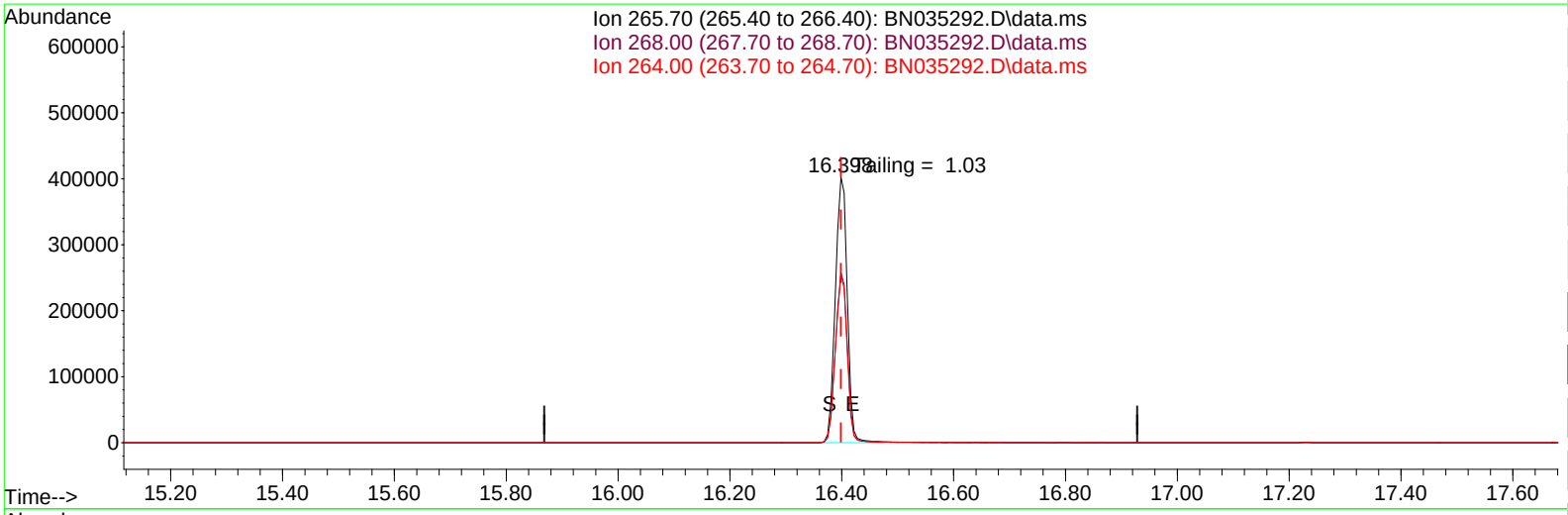
AutoFind: Scans 2438, 2439, 2440; Background Corrected with Scan 2431

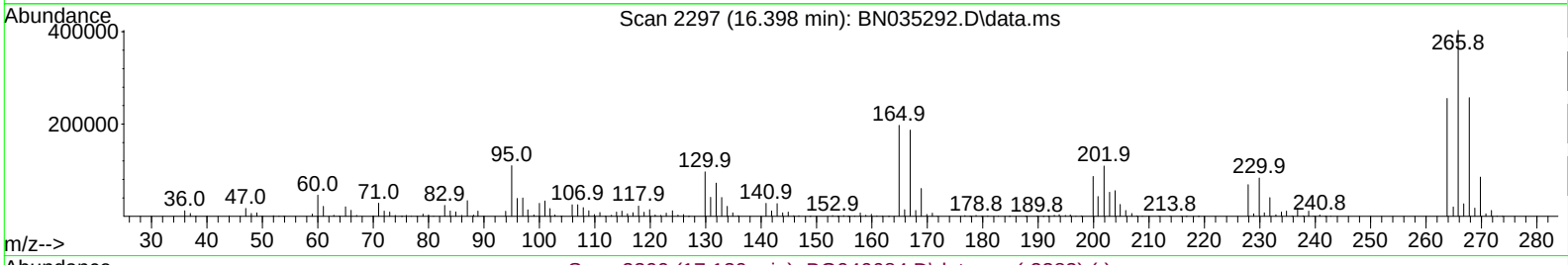
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	21.5	49032	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	28.6	65139	PASS
70	69	0.00	2	0.5	305	PASS
127	198	10	80	40.4	92040	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	227755	PASS
199	198	5	9	6.8	15559	PASS
275	198	10	60	29.0	66160	PASS
365	198	1	100	4.6	10457	PASS
441	198	0.01	100	11.9	27155	PASS
442	442	50	100	100.0	161664	PASS
443	442	15	24	18.8	30456	PASS

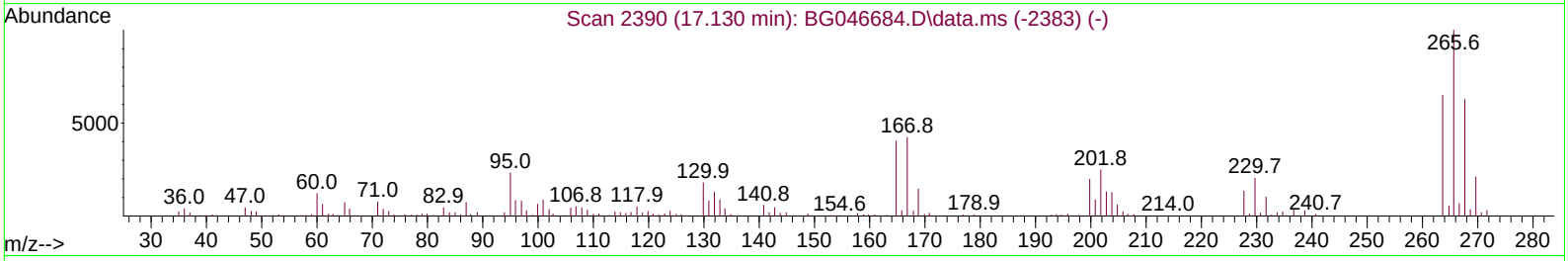
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035292.D
Acq On : 25 Nov 2024 20:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 26 05:22:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 05:21:56 2024
Response via : Initial Calibration







TIC: BN035292.D\data.ms

(70) Pentachlorophenol (C)

16.398min (0.000) 1275879.78 ng

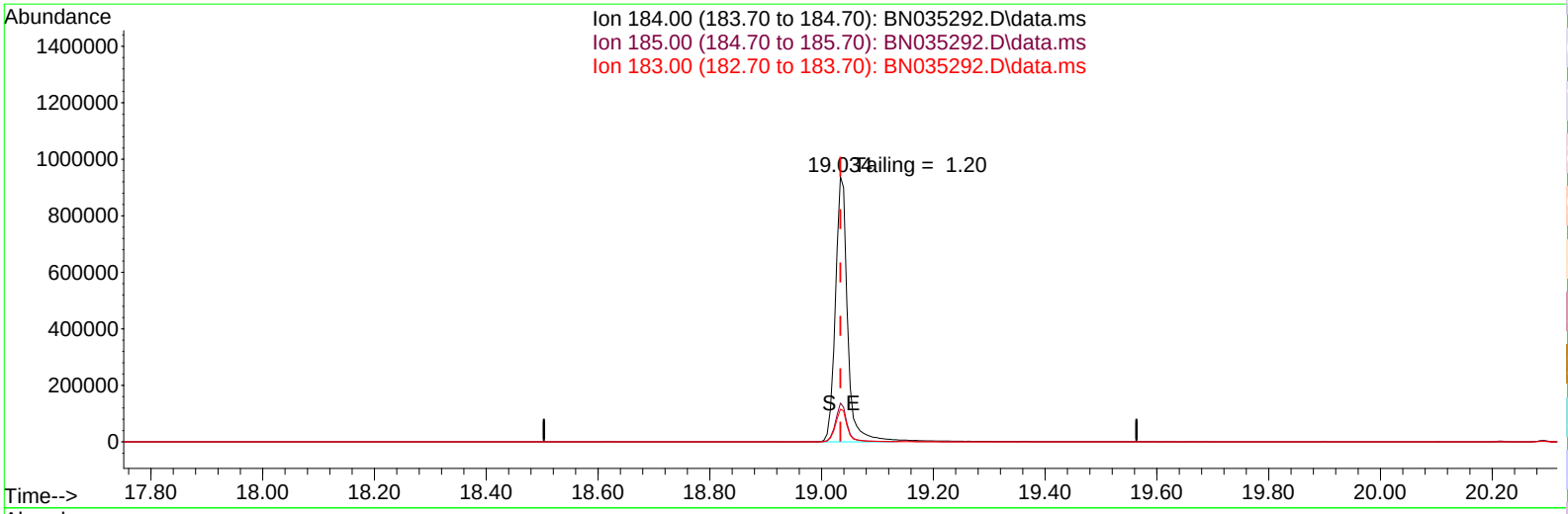
response 600767

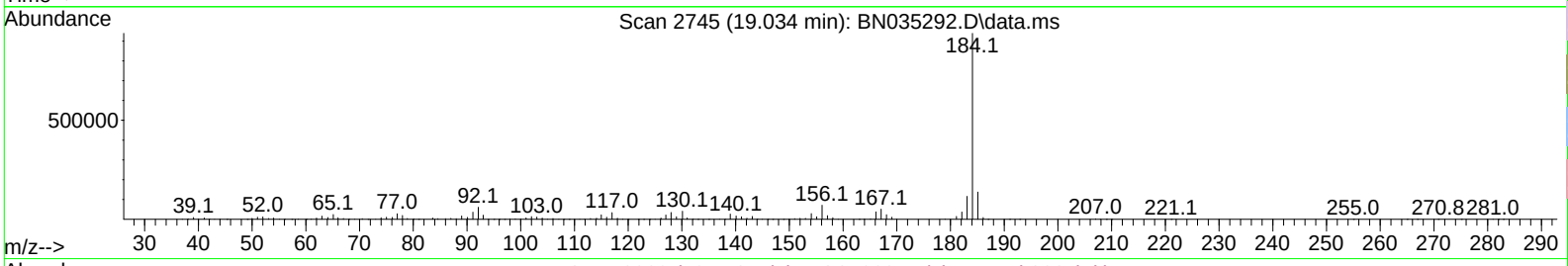
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.86
264.00	61.60	63.45
0.00	0.00	0.00

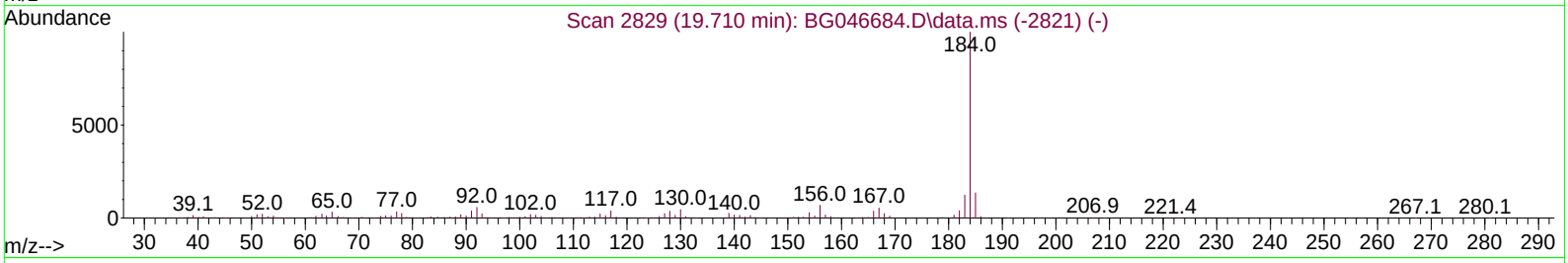
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035292.D
Acq On : 25 Nov 2024 20:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 26 05:22:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 05:21:56 2024
Response via : Initial Calibration







TIC: BN035292.D\data.ms

(77) Benzidine

19.034min (0.000) 201606.82 ng

response 1448003

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.64
183.00	13.20	12.37
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

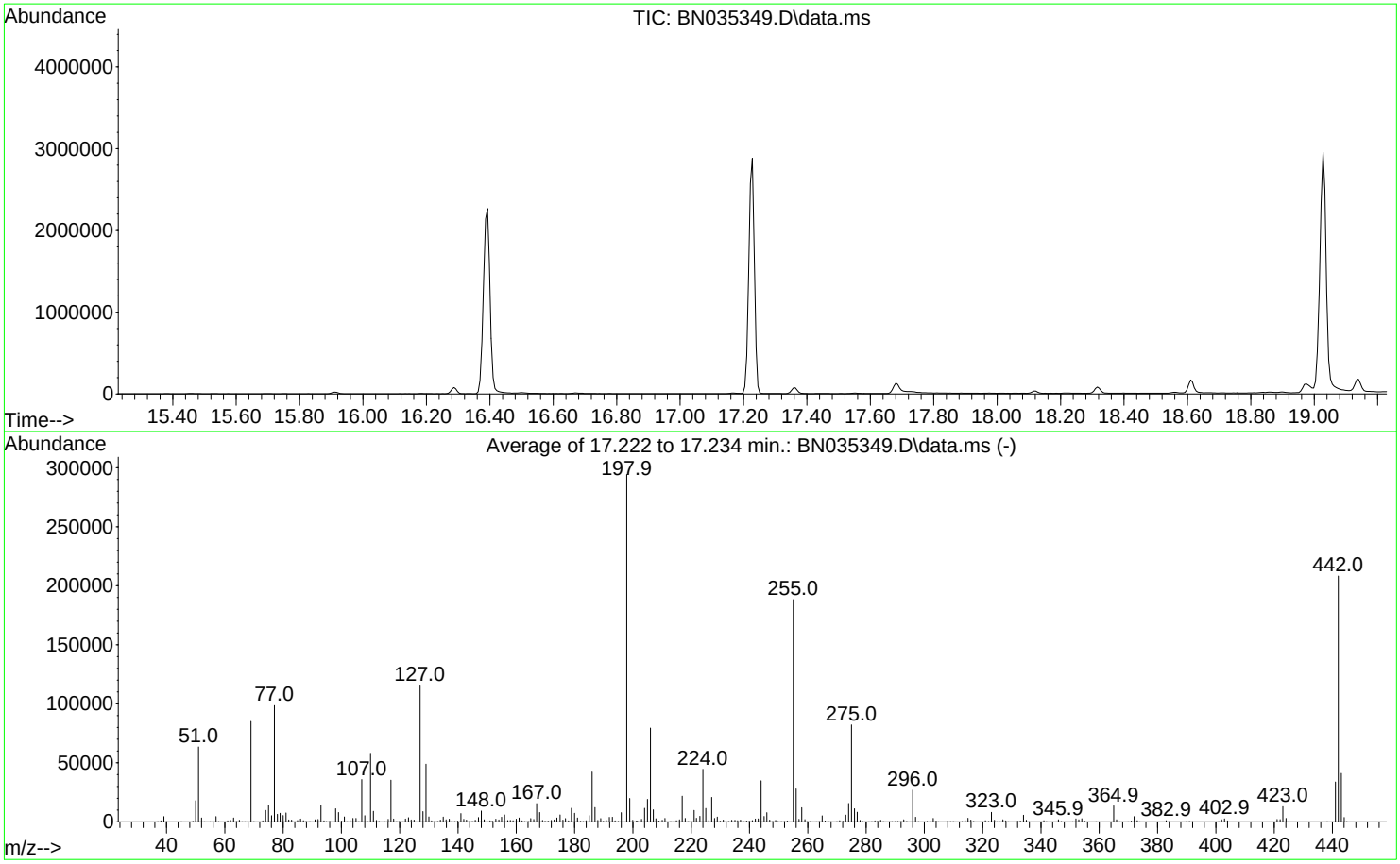
Date	Instrument Name	DFTPP Data File
11/25/2024	BNA_N	BN035292.D
Compound Name	**Response**	**Retention Time**
DDT	727744	20.292
DDD	34008	19.845
DDE	982	19.328
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
34990	762734	4.59

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/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-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024



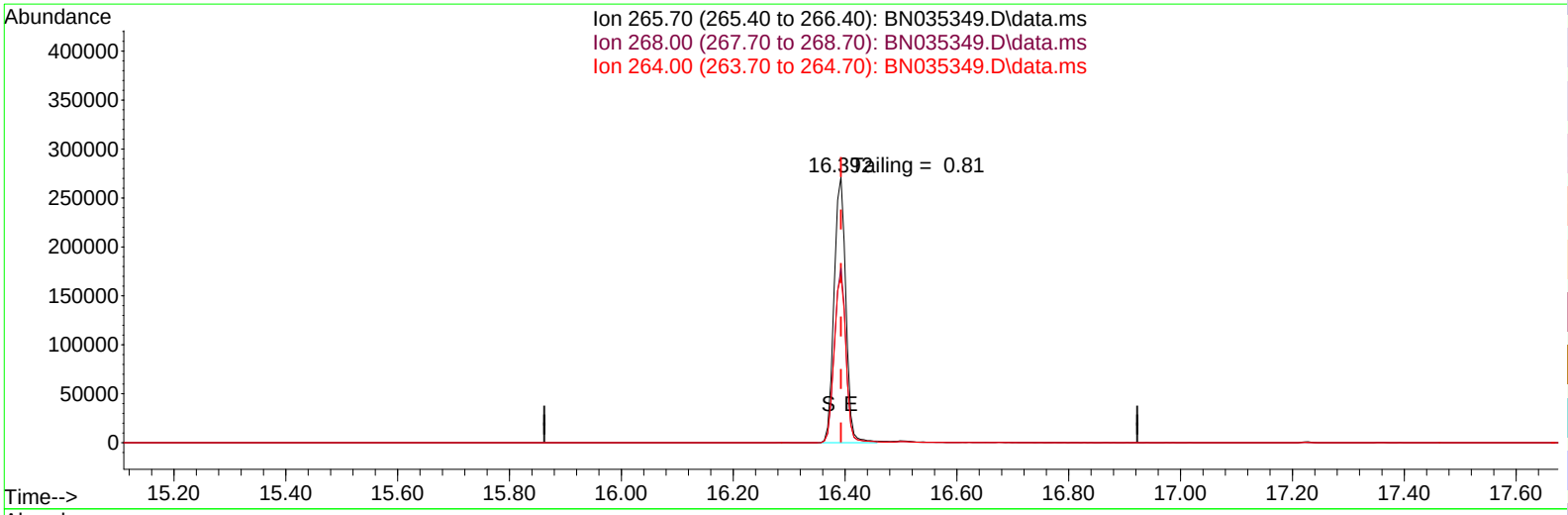
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

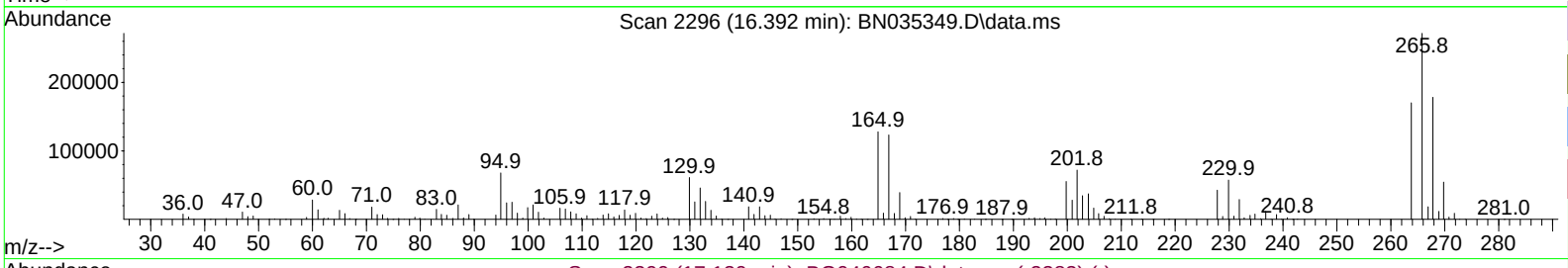
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	21.6	63480	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	28.9	85062	PASS
70	69	0.00	2	0.4	303	PASS
127	198	10	80	39.4	115899	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	294229	PASS
199	198	5	9	6.7	19826	PASS
275	198	10	60	27.9	82149	PASS
365	198	1	100	4.6	13565	PASS
441	198	0.01	100	11.5	33811	PASS
442	442	50	100	100.0	208235	PASS
443	442	15	24	19.7	41045	PASS

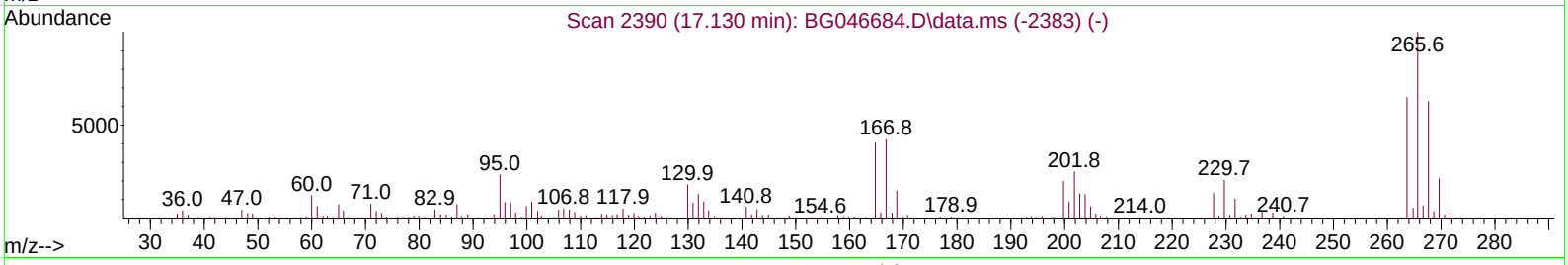
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration







TIC: BN035349.D\data.ms

(70) Pentachlorophenol (C)

16.392min (0.000) 27794.31 ng

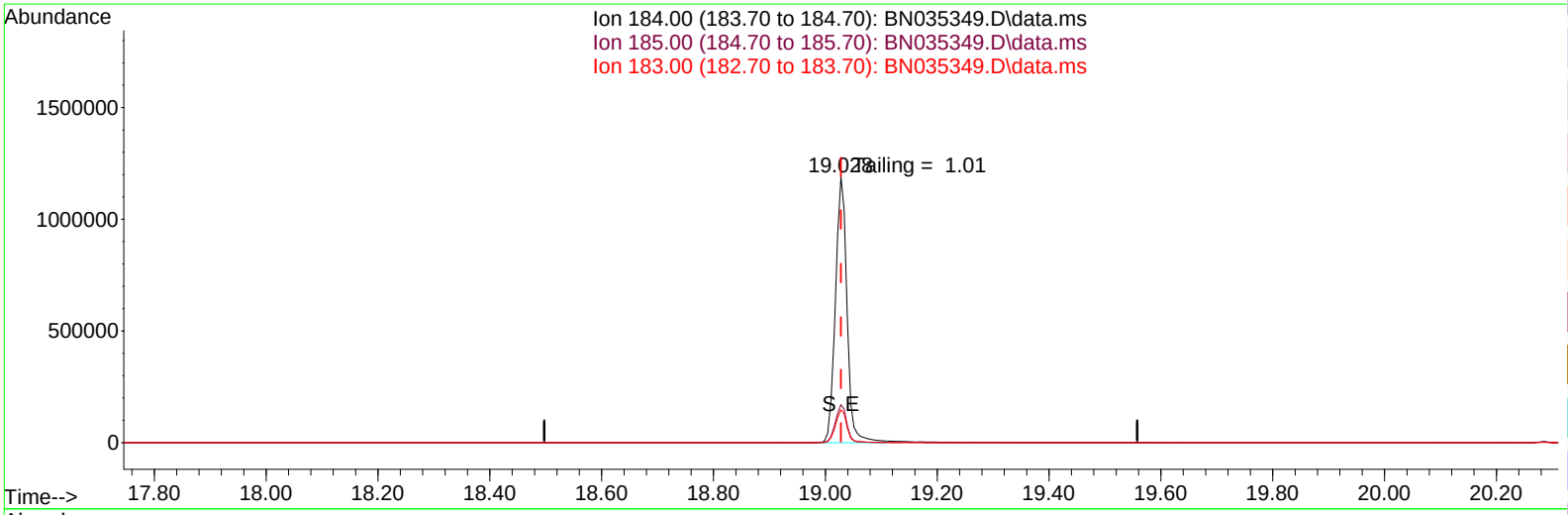
response 398074

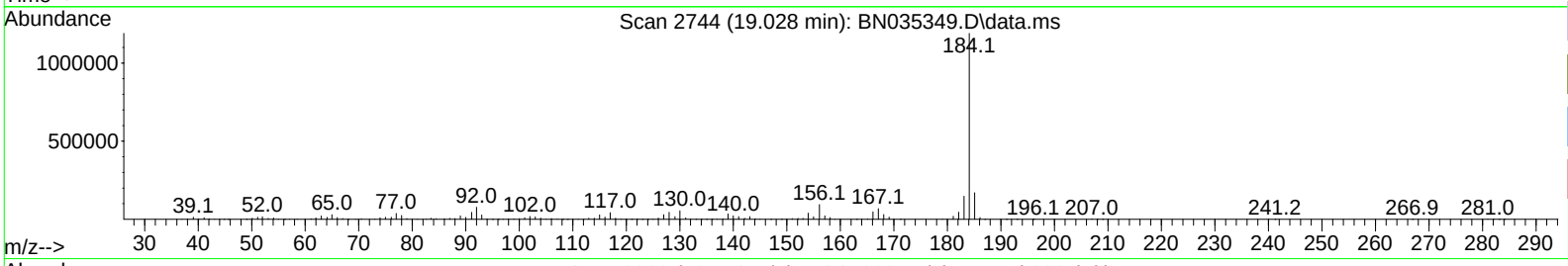
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.68
264.00	61.60	62.66
0.00	0.00	0.00

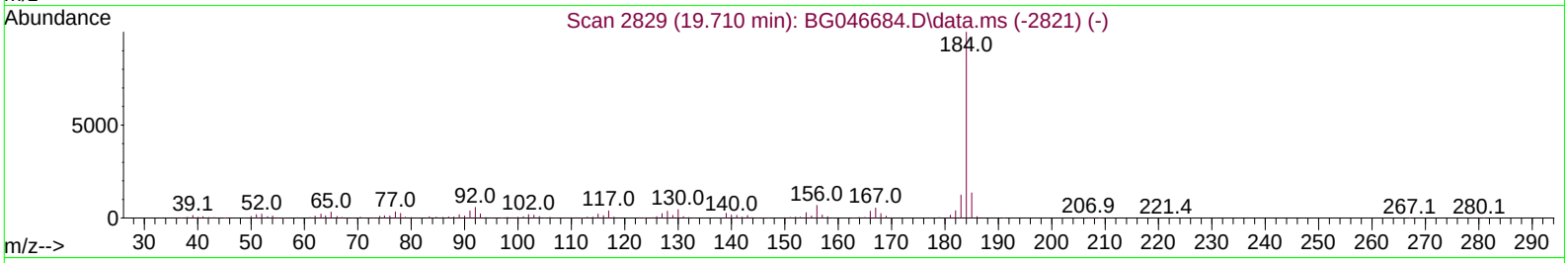
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration







TIC: BN035349.D\data.ms

(77) Benzidine

19.028min (0.000) 0.00 ng

response 1733630

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.34
183.00	13.20	12.42
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

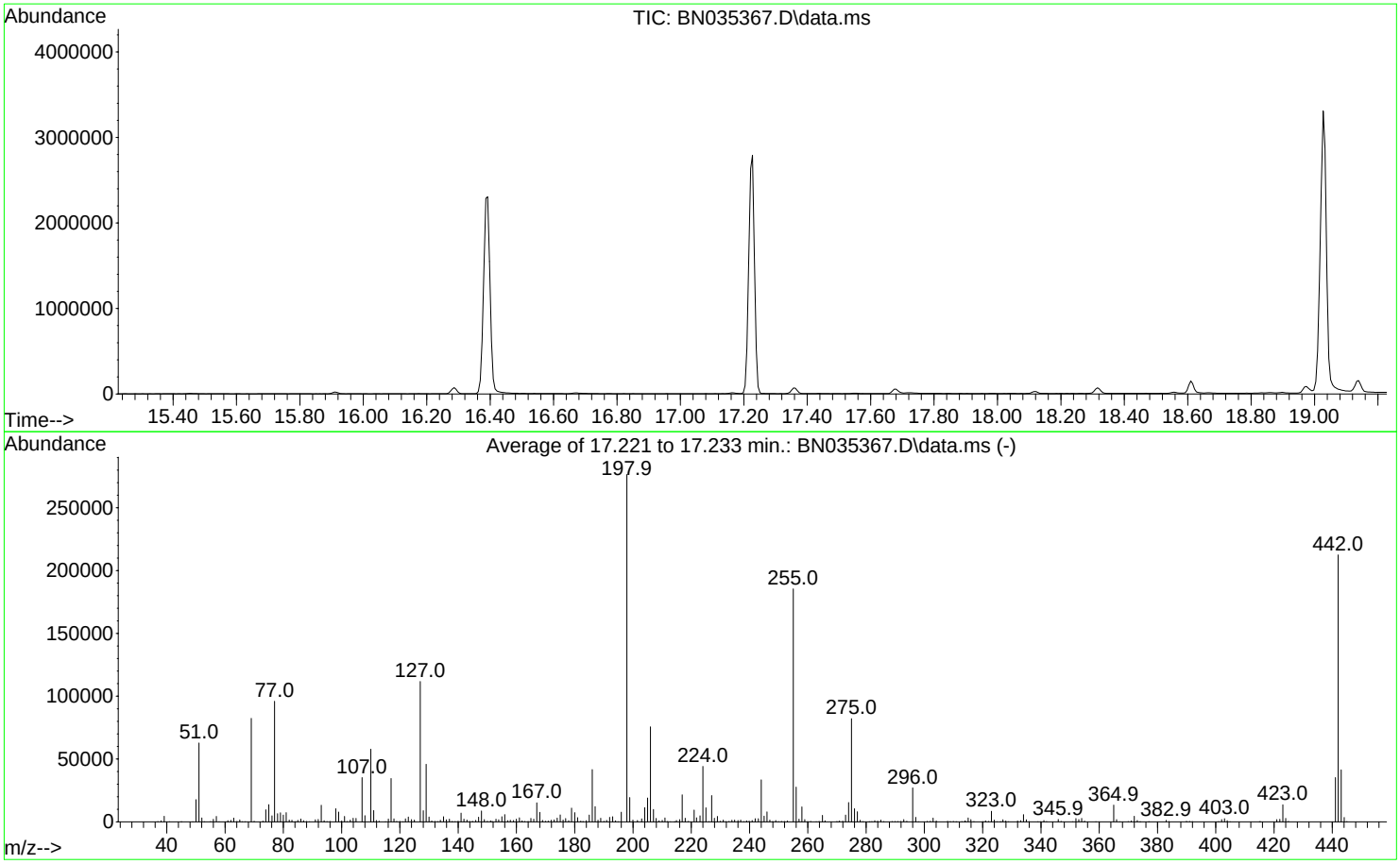
Date	Instrument Name	DFTPP Data File
11/27/2024	BNA_N	BN035349.D
Compound Name	**Response**	**Retention Time**
DDT	985457	20.286
DDD	27636	19.839
DDE	578	19.322
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
28214	1013671	2.78

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035367.D
Acq On : 28 Nov 2024 03:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024



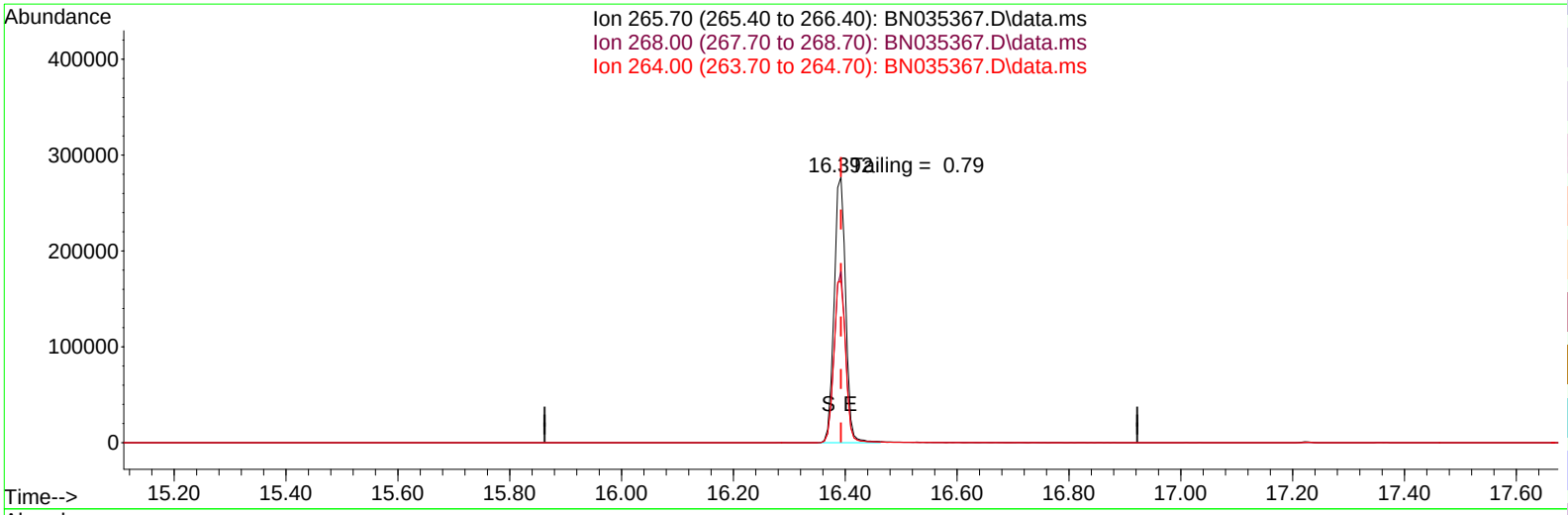
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

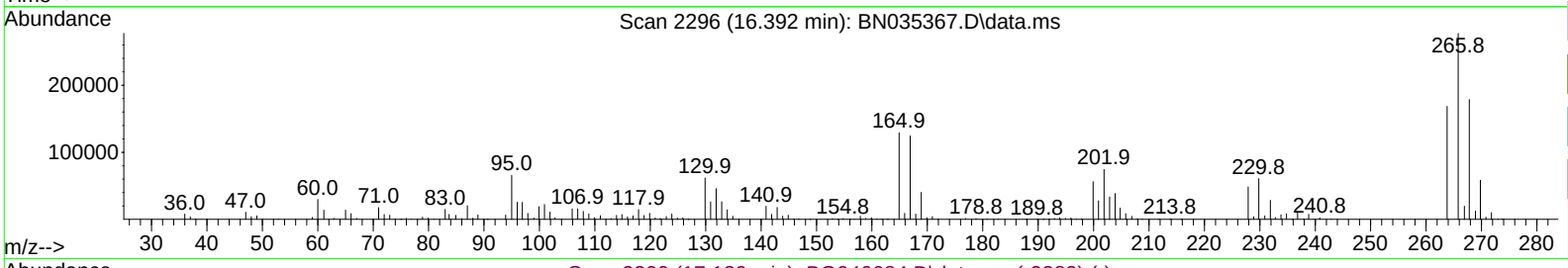
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	22.7	62763	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	29.8	82437	PASS
70	69	0.00	2	0.6	527	PASS
127	198	10	80	40.4	111765	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	276480	PASS
199	198	5	9	7.0	19405	PASS
275	198	10	60	29.7	82176	PASS
365	198	1	100	4.8	13390	PASS
441	198	0.01	100	12.8	35299	PASS
442	442	50	100	100.0	212459	PASS
443	442	15	24	19.5	41341	PASS

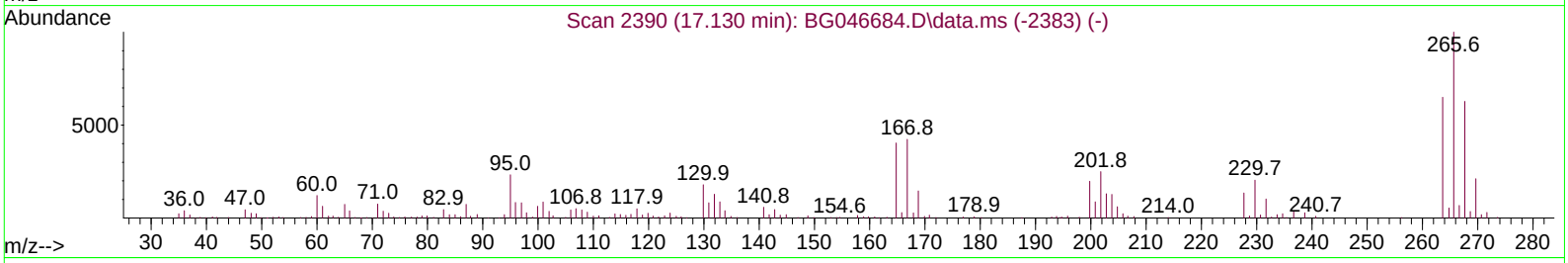
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035367.D
Acq On : 28 Nov 2024 03:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:09:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration







TIC: BN035367.D\data.ms

(70) Pentachlorophenol (C)

16.392min (-0.000) 27424.47 ng

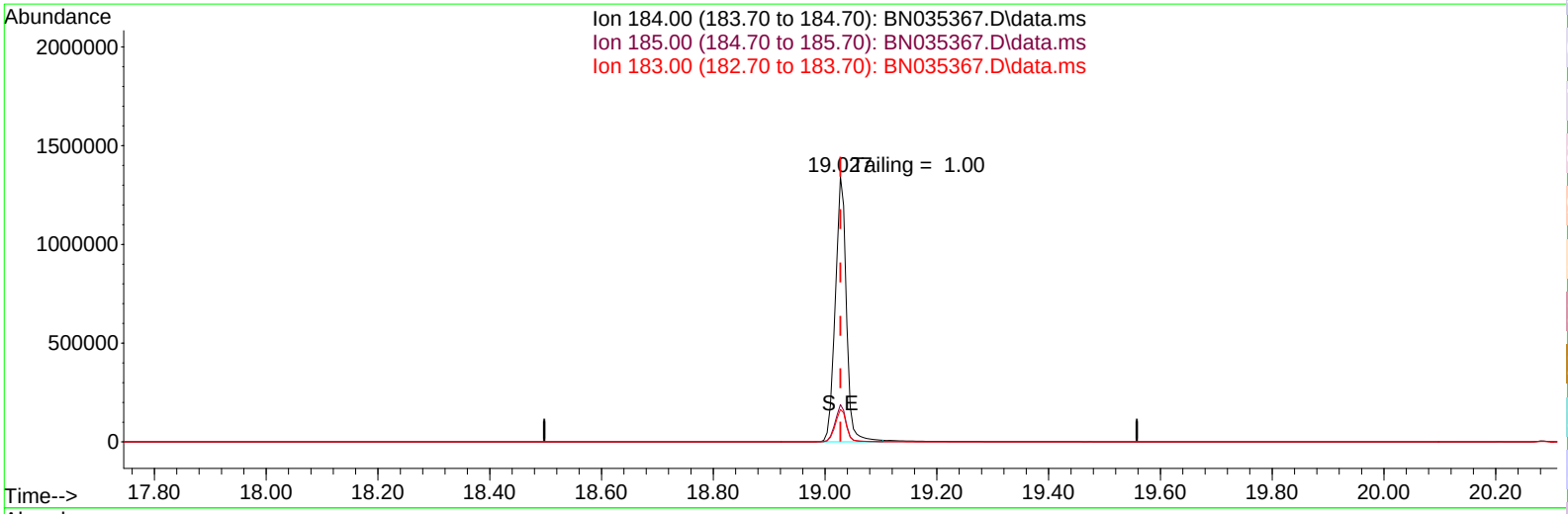
response 398588

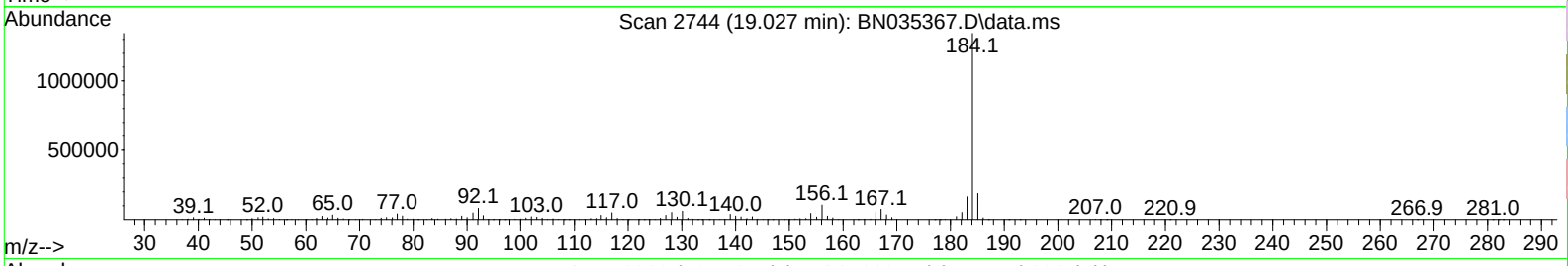
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.43
264.00	61.60	60.80
0.00	0.00	0.00

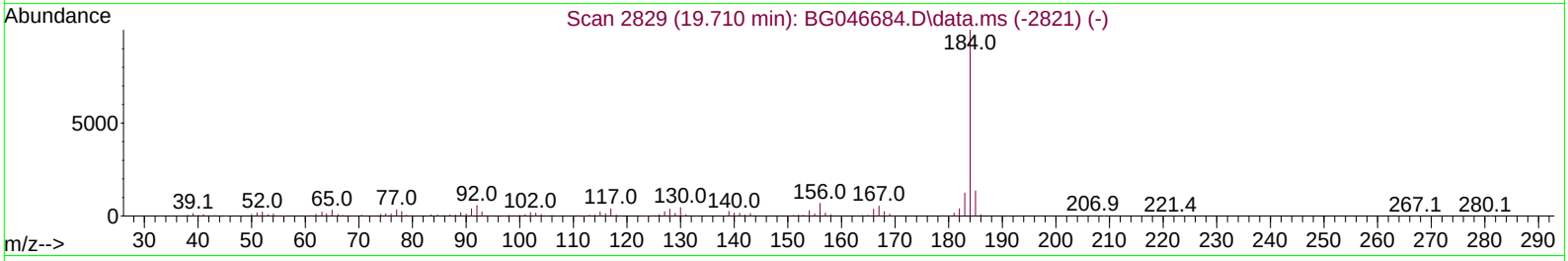
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035367.D
Acq On : 28 Nov 2024 03:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:09:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration







TIC: BN035367.D\data.ms

(77) Benzidine

19.027min (-0.000) 0.00 ng

response 1887713

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.10
183.00	13.20	12.25
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/27/2024	BNA_N	BN035367.D
Compound Name	**Response**	**Retention Time**
DDT	921975	20.286
DDD	39072	19.833
DDE	1586	19.381
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
40658	962633	4.22

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	PB165198BL			SDG No.:	P4959
Lab Sample ID:	PB165198BL			Matrix:	Water
Analytical Method:	SW8270SIM			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-SIMGroup1
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
BN035369.D	1	11/22/24 12:25	11/28/24 05:27	PB165198

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.42		30 - 150		104%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2540	7.308				
1146-65-2	Naphthalene-d8	6380	10.063				
15067-26-2	Acenaphthene-d10	4630	13.967				
1517-22-2	Phenanthrene-d10	11700	16.735				
1719-03-5	Chrysene-d12	10700	20.974				
1520-96-3	Perylene-d12	11500	23.07				

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\BN112724\
Data File : BN035369.D
Acq On : 28 Nov 2024 05:27
Operator : RC/JU
Sample : PB165198BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165198BL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 28 06:27:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2540	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	6378	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	4630	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	11721	0.400	ng	0.00
29) Chrysene-d12	20.974	240	10667	0.400	ng	0.00
35) Perylene-d12	23.070	264	11480	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	2145	0.337	ng	0.00
5) Phenol-d6	6.513	99	2450	0.320	ng	0.00
8) Nitrobenzene-d5	8.440	82	1446m	0.371	ng	0.00
11) 2-Methylnaphthalene-d10	11.661	152	4167	0.417	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	675	0.205	ng	0.01
15) 2-Fluorobiphenyl	12.579	172	6893	0.394	ng	0.00
27) Fluoranthene-d10	18.784	212	13454	0.405	ng	0.00
31) Terphenyl-d14	19.412	244	10274	0.488	ng	0.00
Target Compounds						Qvalue

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

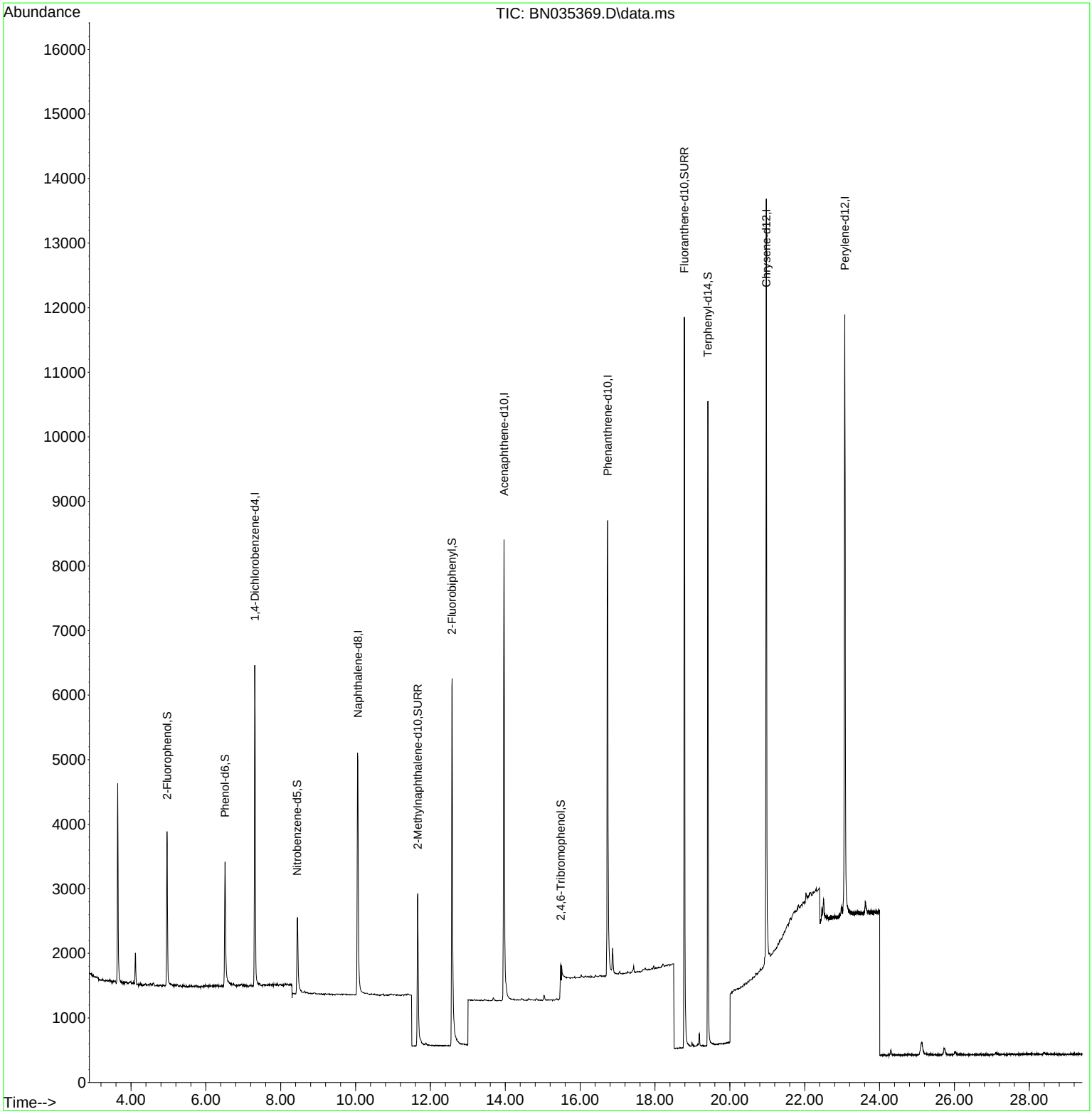
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035369.D
Acq On : 28 Nov 2024 05:27
Operator : RC/JU
Sample : PB165198BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

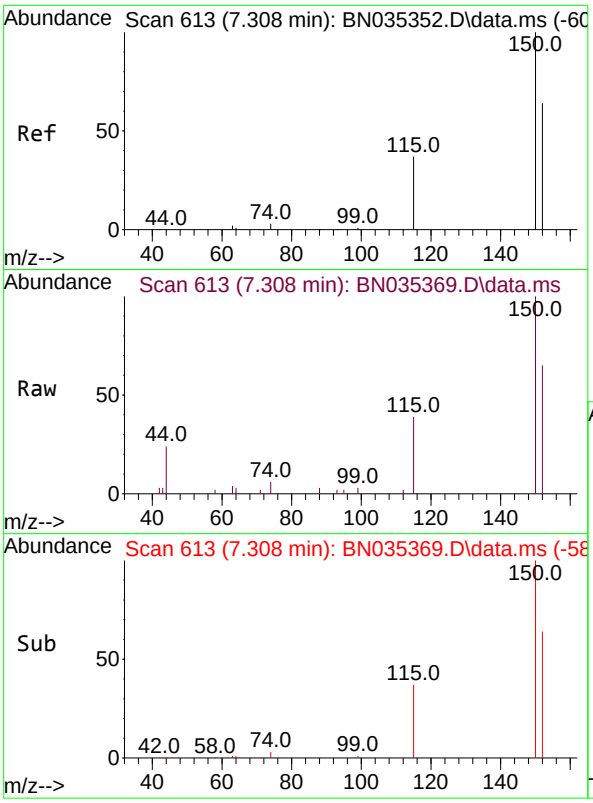
Quant Time: Nov 28 06:27:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165198BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

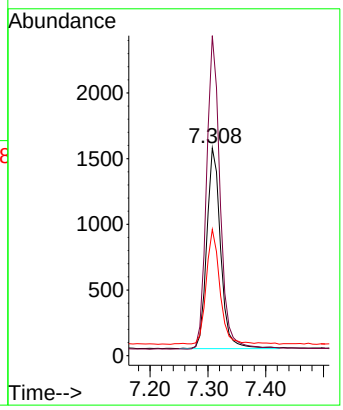




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:152 Resp: 254

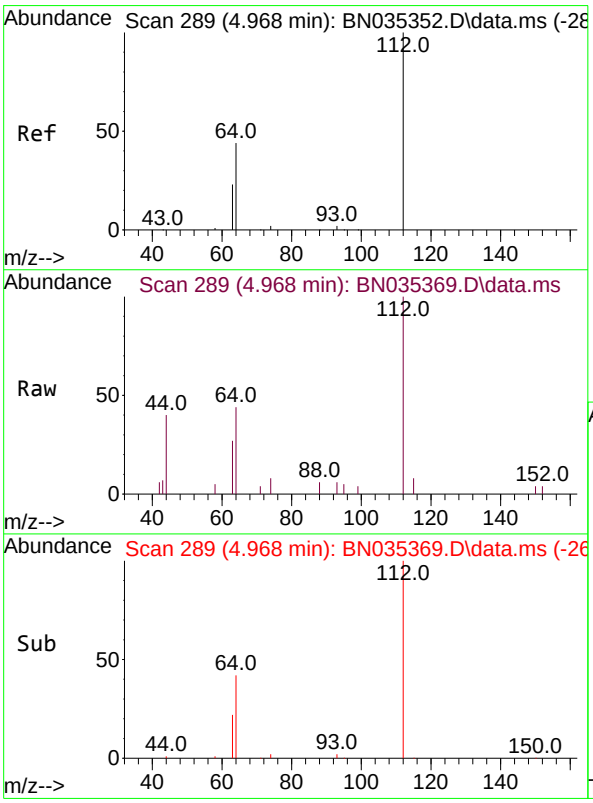
Ion	Ratio	Lower	Upper
152	100		
150	154.1	124.0	186.0
115	60.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165198BL

Manual Integrations
APPROVED

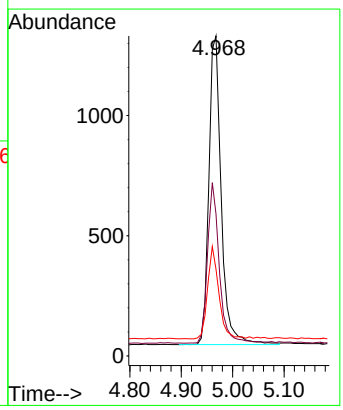
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

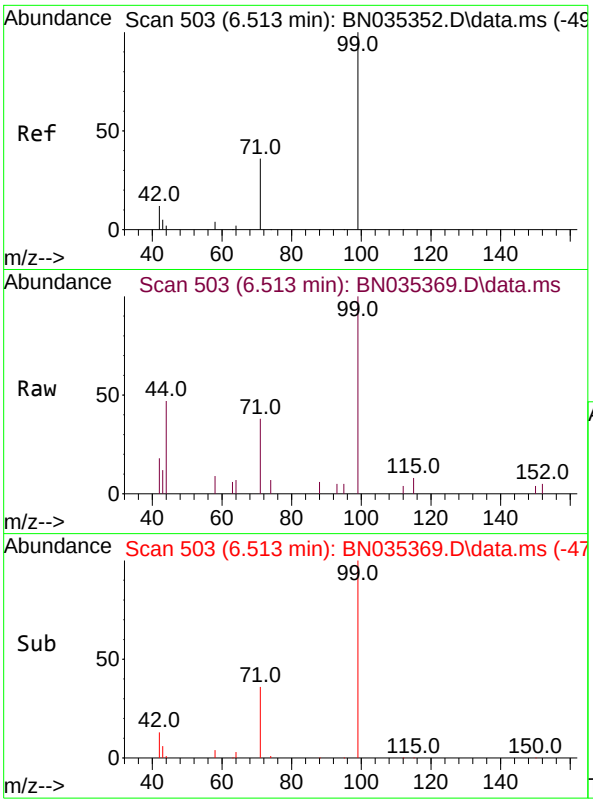


#4
2-Fluorophenol
Concen: 0.337 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:112 Resp: 2145

Ion	Ratio	Lower	Upper
112	100		
64	49.6	39.8	59.8
63	27.3	21.0	31.6

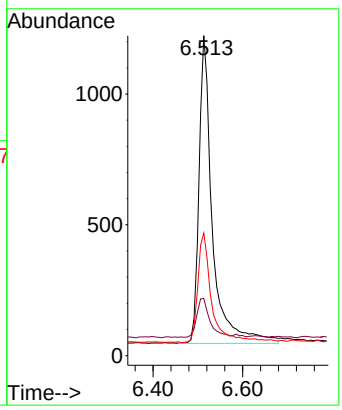




#5
Phenol-d6
Concen: 0.320 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion: 99 Resp: 245(

Ion	Ratio	Lower	Upper
99	100		
42	12.3	11.4	17.2
71	37.2	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
PB165198BL

Manual Integrations
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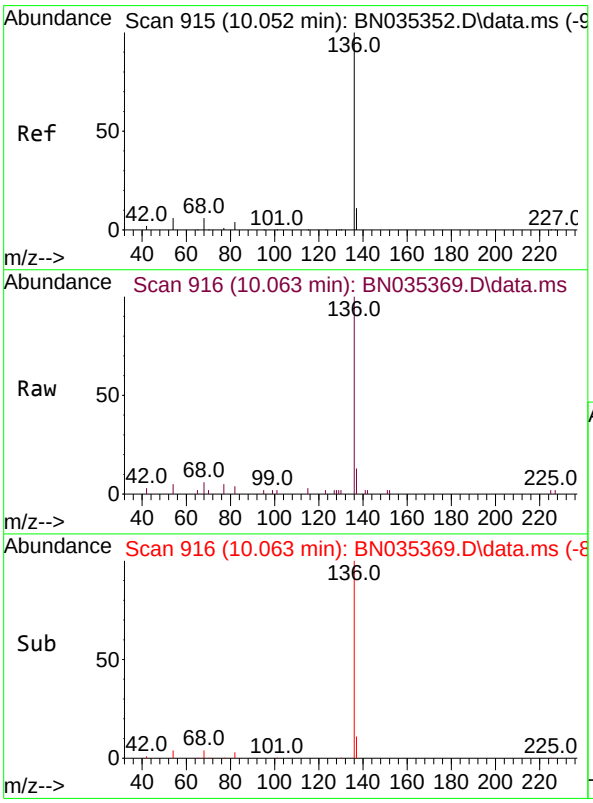
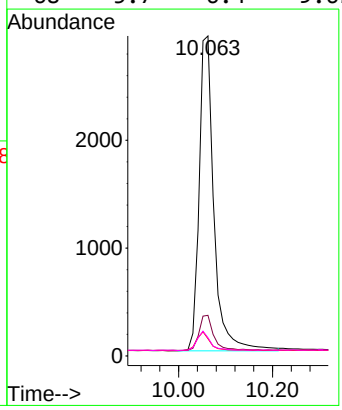
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

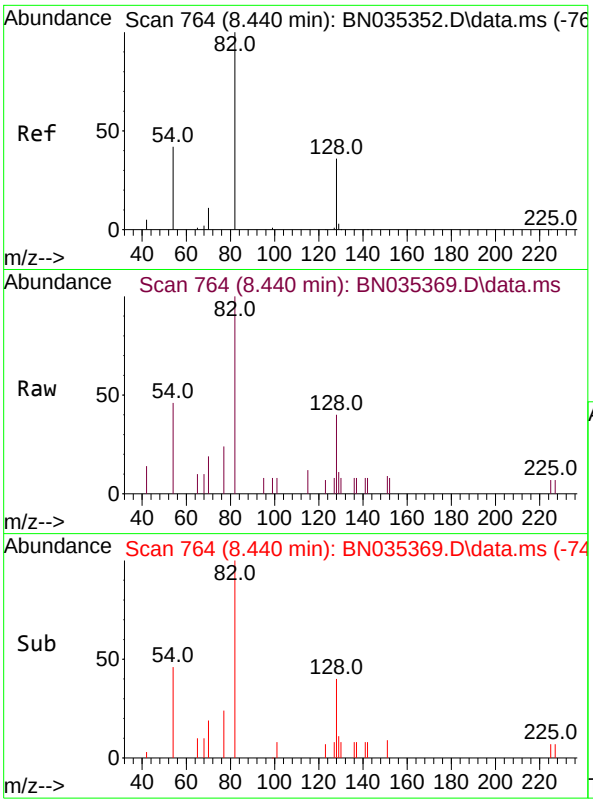


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. 0.011 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:136 Resp: 6378

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	5.4	6.1	9.1#
68	5.7	6.4	9.6#

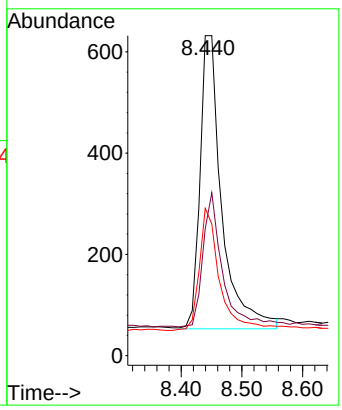




#8
Nitrobenzene-d5
Concen: 0.371 ng m
RT: 8.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion: 82 Resp: 144

Ion	Ratio	Lower	Upper
82	100		
128	39.7	33.4	50.0
54	46.0	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
PB165198BL

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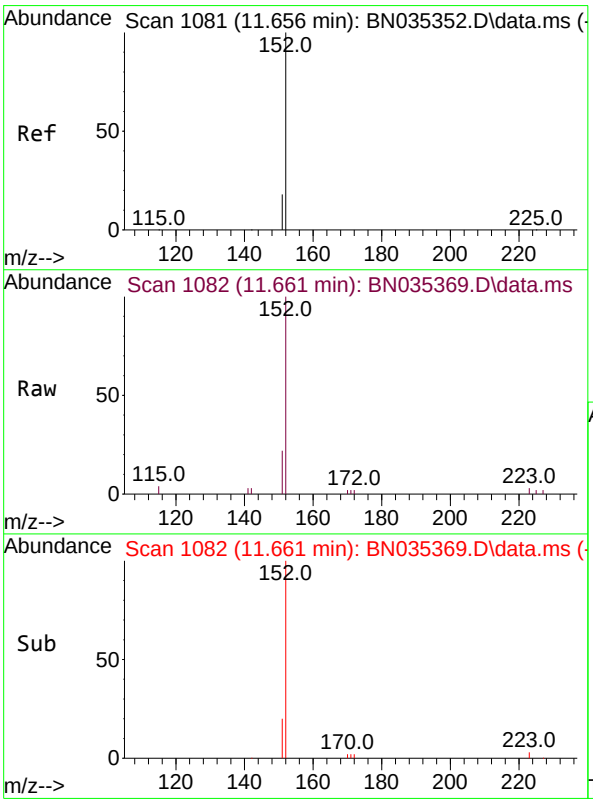
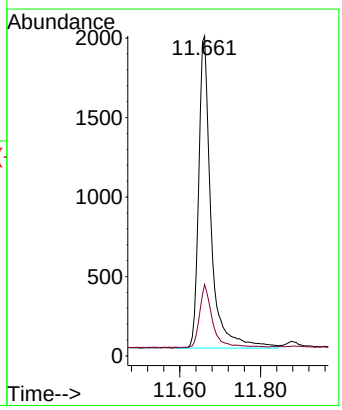
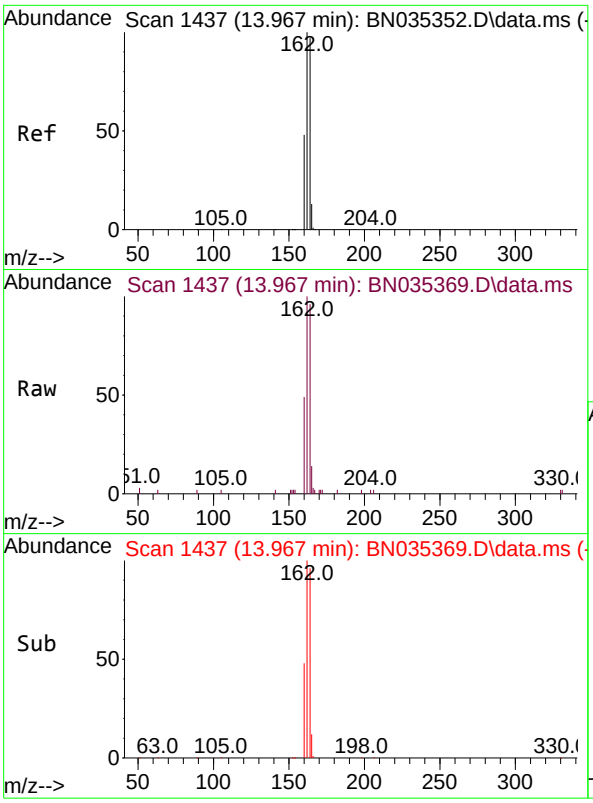


#11
2-Methylnaphthalene-d10
Concen: 0.417 ng
RT: 11.661 min Scan# 1082
Delta R.T. 0.005 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:152 Resp: 4167

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.6	25.0

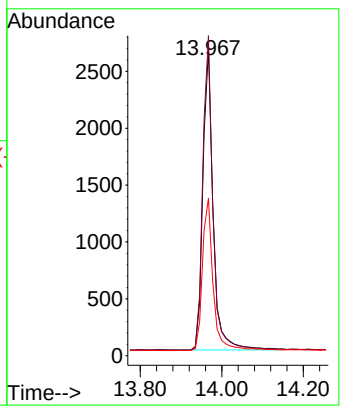




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:164 Resp: 463

Ion	Ratio	Lower	Upper
164	100		
162	104.4	82.2	123.2
160	51.4	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
PB165198BL

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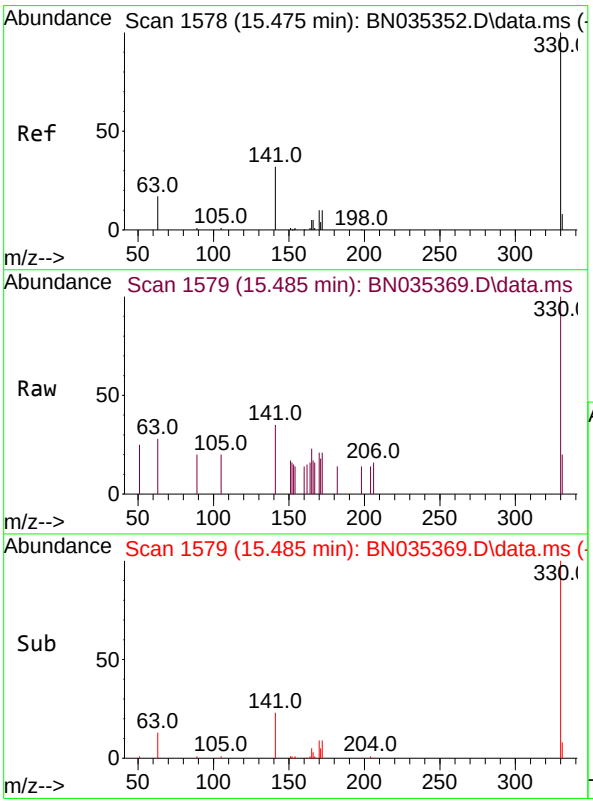
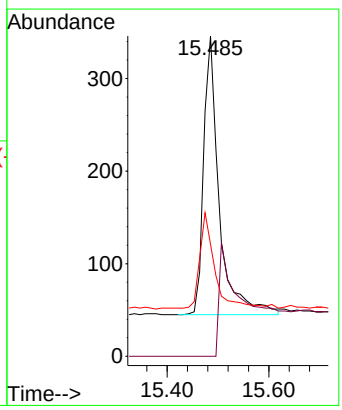
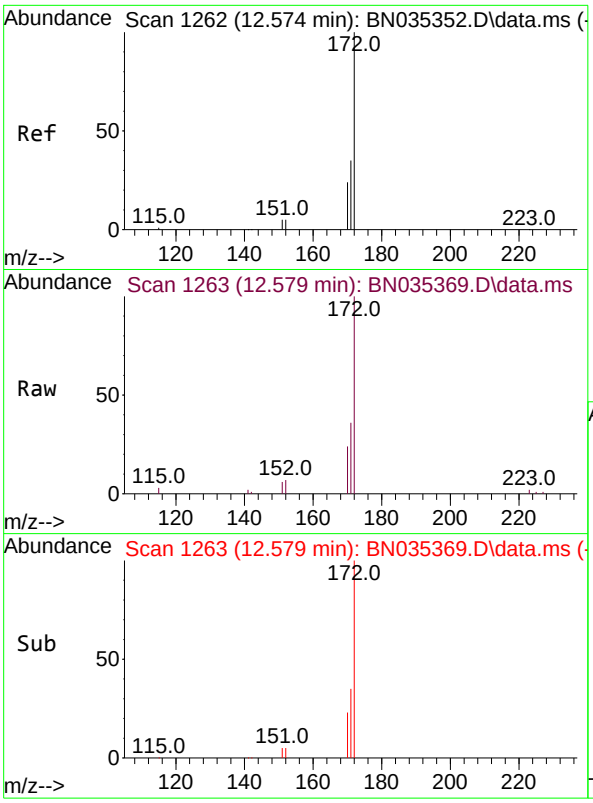


#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.485 min Scan# 1579
Delta R.T. 0.011 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:330 Resp: 675

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.8	26.6	40.0

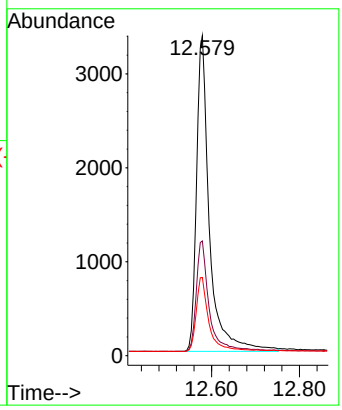




#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.579 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:172 Resp: 689

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.4
170	24.5	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
PB165198BL

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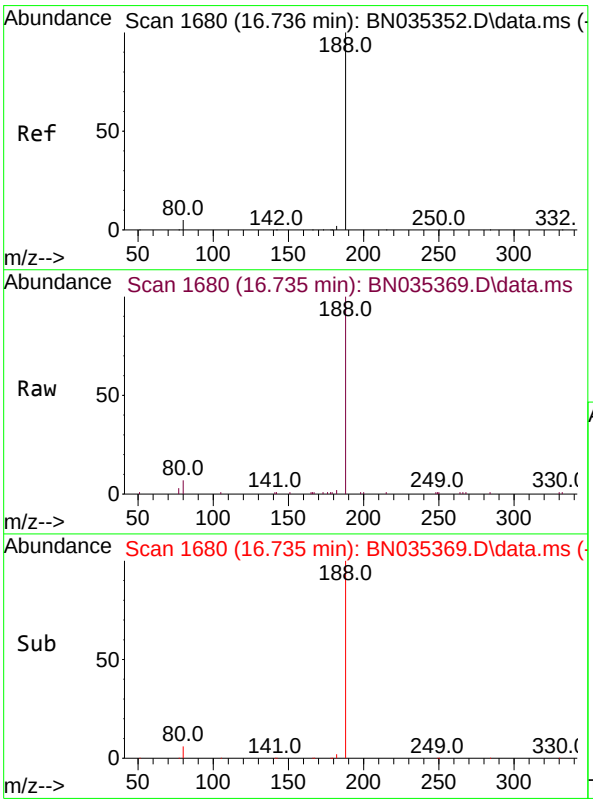
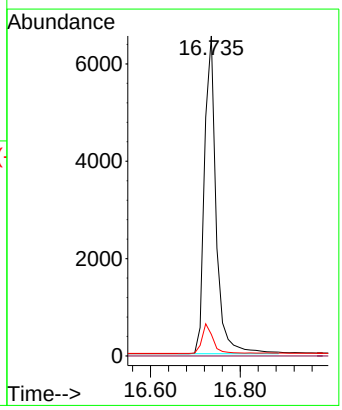
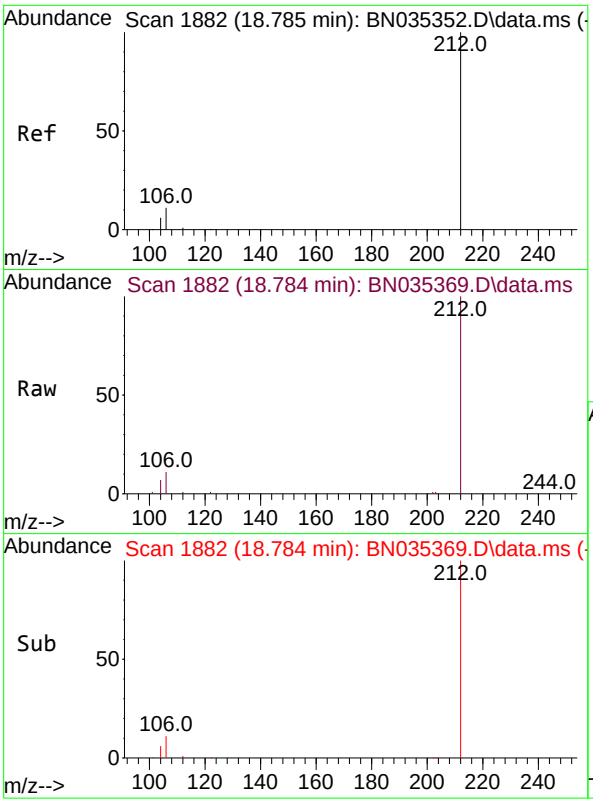


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:188 Resp: 11721

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.8	4.6	6.8

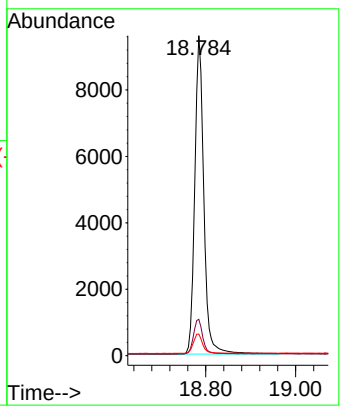




#27
Fluoranthene-d10
Concen: 0.405 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:212 Resp: 1345

Ion	Ratio	Lower	Upper
212	100		
106	10.9	9.2	13.8
104	6.2	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
PB165198BL

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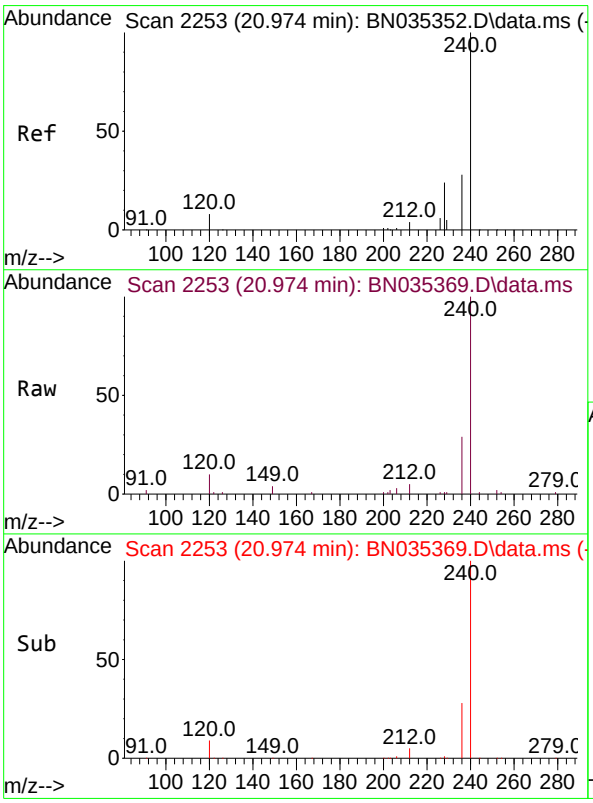
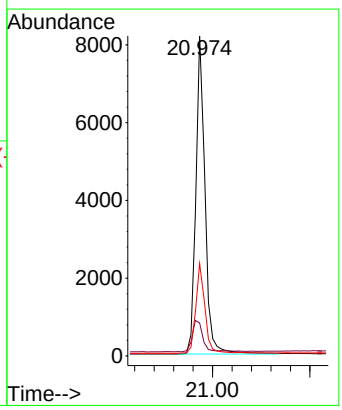
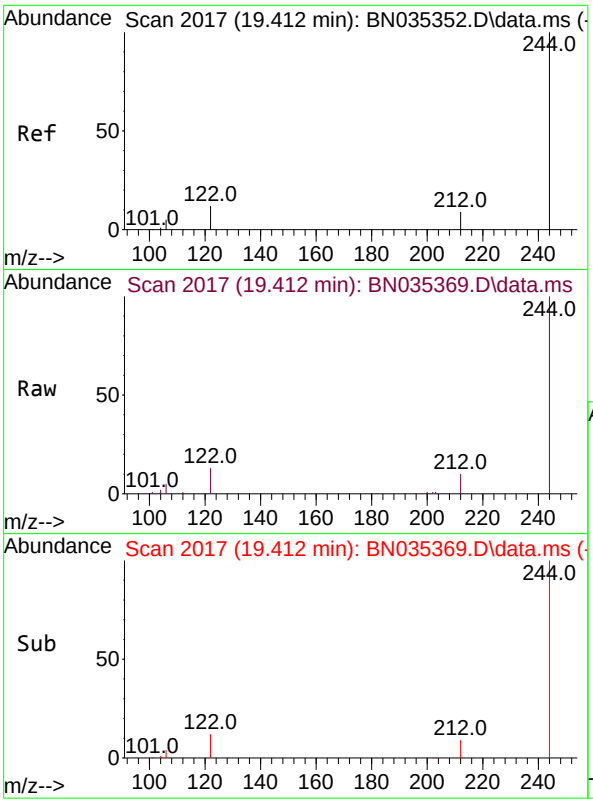


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:240 Resp: 10667

Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.9	11.9
236	28.8	22.9	34.3

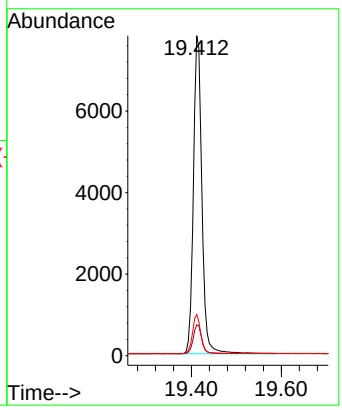




#31
Terphenyl-d14
Concen: 0.488 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:244 Resp: 1027

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	12.8	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165198BL

Manual Integrations
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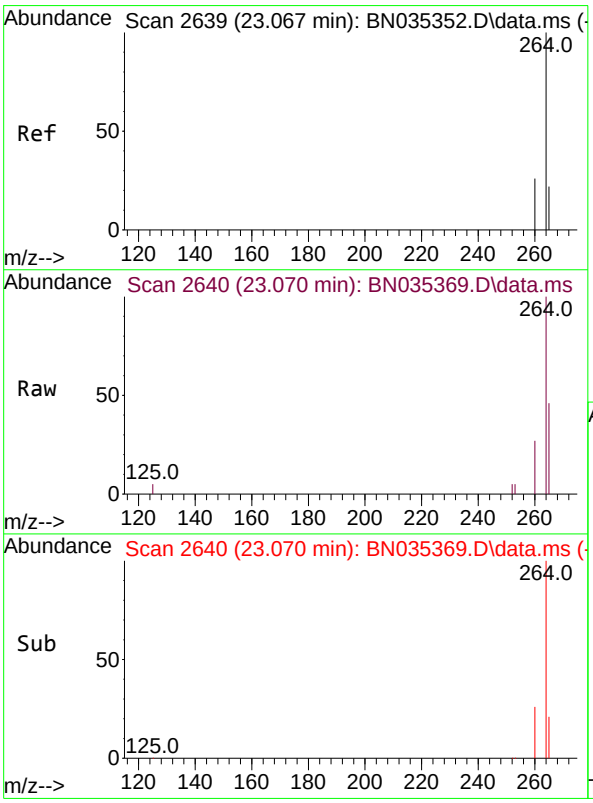
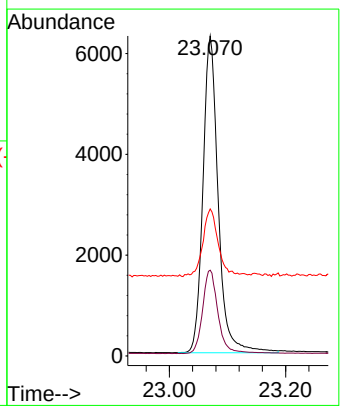


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2640
Delta R.T. 0.003 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:264 Resp: 11480

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	46.0	40.2	60.4



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	PB165198BS			SDG No.:	P4959
Lab Sample ID:	PB165198BS			Matrix:	Water
Analytical Method:	SW8270SIM			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-SIMGroup1
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
BN035370.D	1	11/22/24 12:25	11/28/24 06:03	PB165198

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.41		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.58		30 - 150		145%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.47	*	55 - 111		117%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.48	*	53 - 106		119%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		130%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2260	7.308				
1146-65-2	Naphthalene-d8	5500	10.052				
15067-26-2	Acenaphthene-d10	3690	13.967				
1517-22-2	Phenanthrene-d10	9200	16.723				
1719-03-5	Chrysene-d12	8670	20.974				
1520-96-3	Perylene-d12	8920	23.067				

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\BN112724\
Data File : BN035370.D
Acq On : 28 Nov 2024 06:03
Operator : RC/JU
Sample : PB165198BS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 28 06:28:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2262	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5496	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3686	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	9203	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	8666	0.400	ng	0.00
35) Perylene-d12	23.067	264	8924	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	2290	0.405	ng	0.00
5) Phenol-d6	6.513	99	2626	0.386	ng	0.00
8) Nitrobenzene-d5	8.440	82	1569m	0.467	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	4975	0.578	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	735	0.281	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	6624	0.475	ng	0.00
27) Fluoranthene-d10	18.785	212	11970	0.459	ng	0.00
31) Terphenyl-d14	19.412	244	8912	0.521	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	876	0.405	ng	# 74
3) n-Nitrosodimethylamine	3.292	42	799	0.444	ng	# 91
6) bis(2-Chloroethyl)ether	6.759	93	2447	0.428	ng	100
9) Naphthalene	10.105	128	6241	0.431	ng	100
10) Hexachlorobutadiene	10.404	225	1469	0.439	ng	# 99
12) 2-Methylnaphthalene	11.732	142	4378	0.422	ng	98
16) Acenaphthylene	13.679	152	7040	0.455	ng	99
17) Acenaphthene	14.021	154	4456	0.434	ng	100
18) Fluorene	15.026	166	6228	0.423	ng	100
20) 4,6-Dinitro-2-methylph...	15.122	198	411	0.454	ng	91
21) 4-Bromophenyl-phenylether	15.941	248	2303	0.428	ng	97
22) Hexachlorobenzene	16.041	284	2710	0.429	ng	99
23) Atrazine	16.227	200	1548	0.404	ng	98
24) Pentachlorophenol	16.388	266	950	0.345	ng	87
25) Phenanthrene	16.773	178	11082	0.438	ng	100
26) Anthracene	16.860	178	10144	0.444	ng	100
28) Fluoranthene	18.813	202	13705	0.402	ng	100
30) Pyrene	19.180	202	14204	0.444	ng	100
32) Benzo(a)anthracene	20.956	228	13138	0.433	ng	100
33) Chrysene	21.010	228	14112	0.451	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.410	ng	100
36) Indeno(1,2,3-cd)pyrene	25.108	276	15213	0.436	ng	99
37) Benzo(b)fluoranthene	22.453	252	16020	0.491	ng	99
38) Benzo(k)fluoranthene	22.494	252	14448	0.450	ng	99
39) Benzo(a)pyrene	22.977	252	12434	0.462	ng	99
40) Dibenzo(a,h)anthracene	25.123	278	11913	0.433	ng	99
41) Benzo(g,h,i)perylene	25.719	276	11556	0.402	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035370.D
Acq On : 28 Nov 2024 06:03
Operator : RC/JU
Sample : PB165198BS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 28 06:28:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
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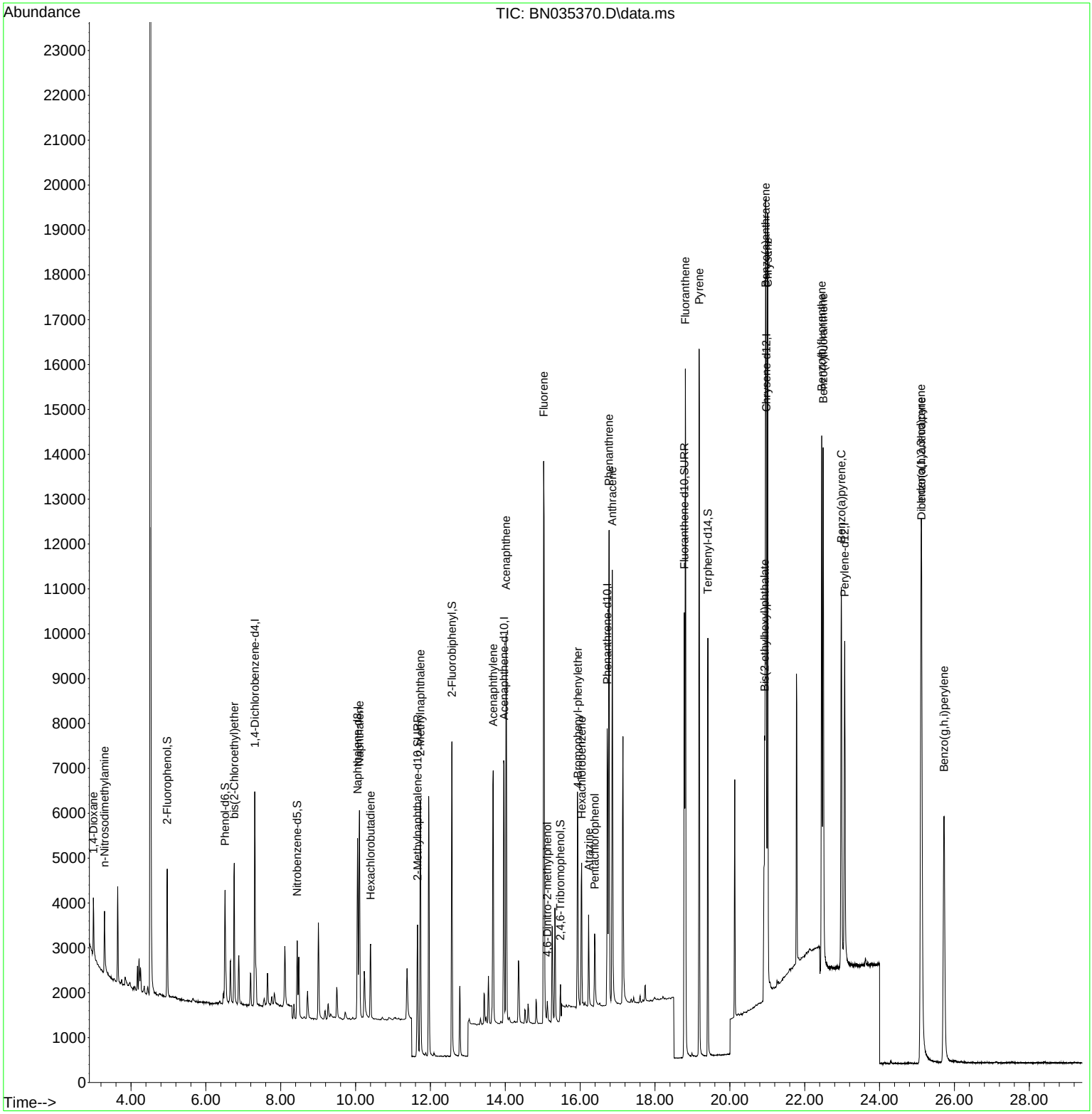
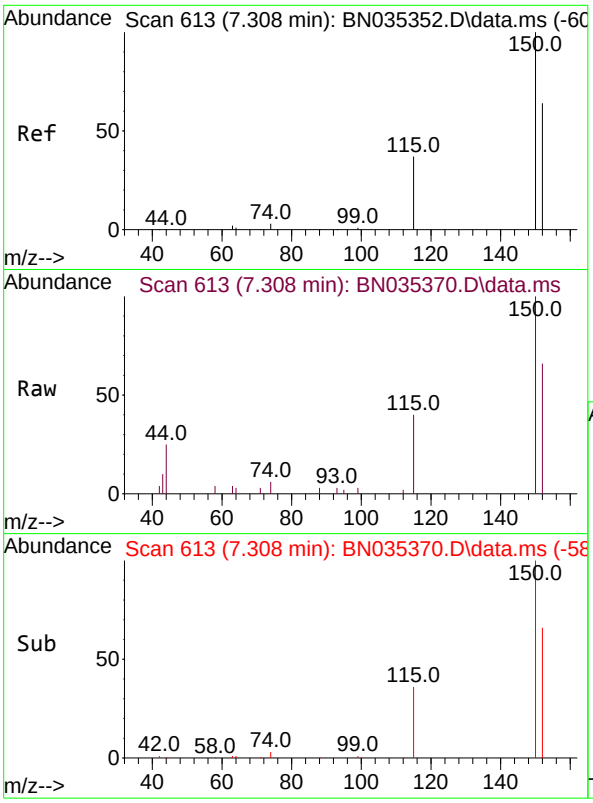
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

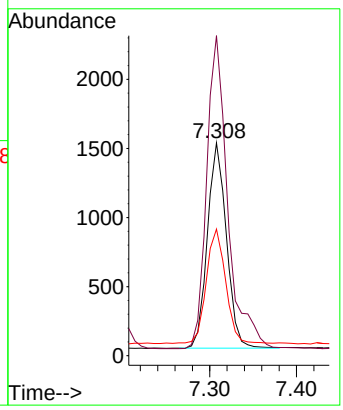




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:152 Resp: 226

Ion	Ratio	Lower	Upper
152	100		
150	150.4	124.0	186.0
115	59.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
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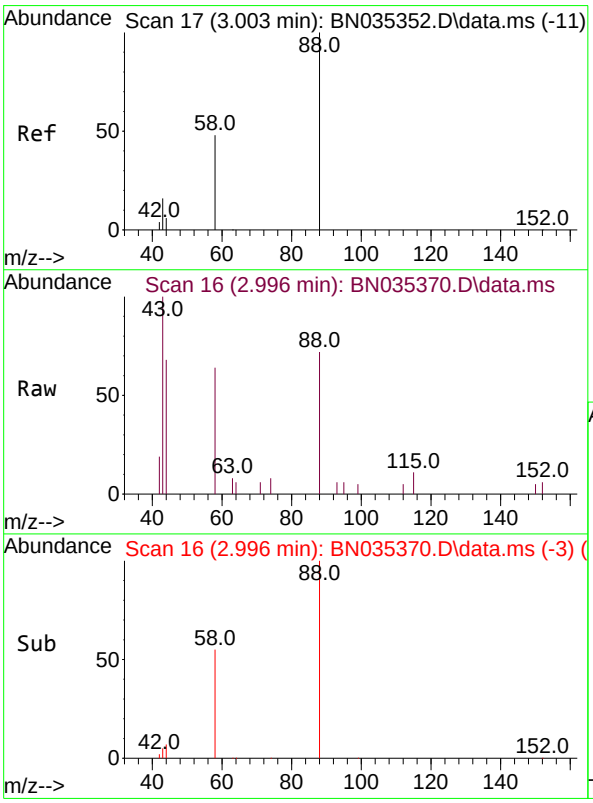
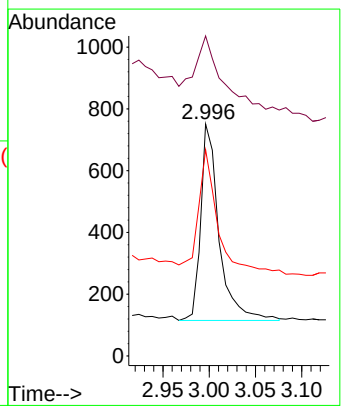
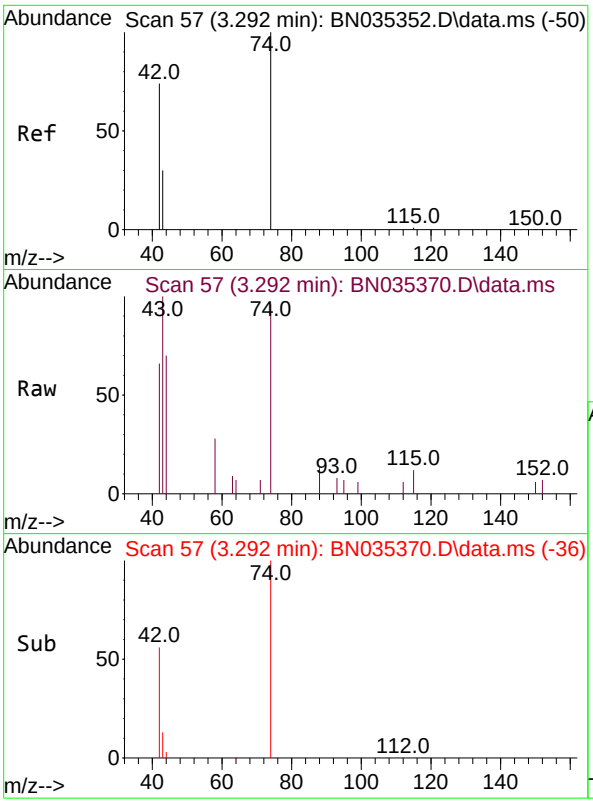


#2
1,4-Dioxane
Concen: 0.405 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion: 88 Resp: 876

Ion	Ratio	Lower	Upper
88	100		
43	58.3	17.2	25.8#
58	59.7	44.5	66.7

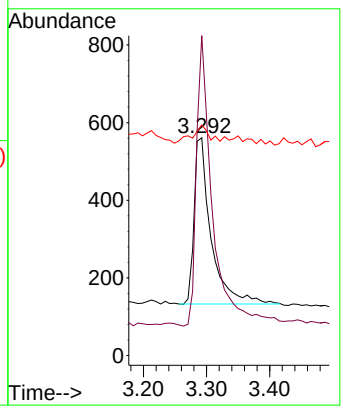




#3
n-Nitrosodimethylamine
Concen: 0.444 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion: 42 Resp: 79

Ion	Ratio	Lower	Upper
42	100		
74	167.0	124.9	187.3
44	10.6	2.2	3.4



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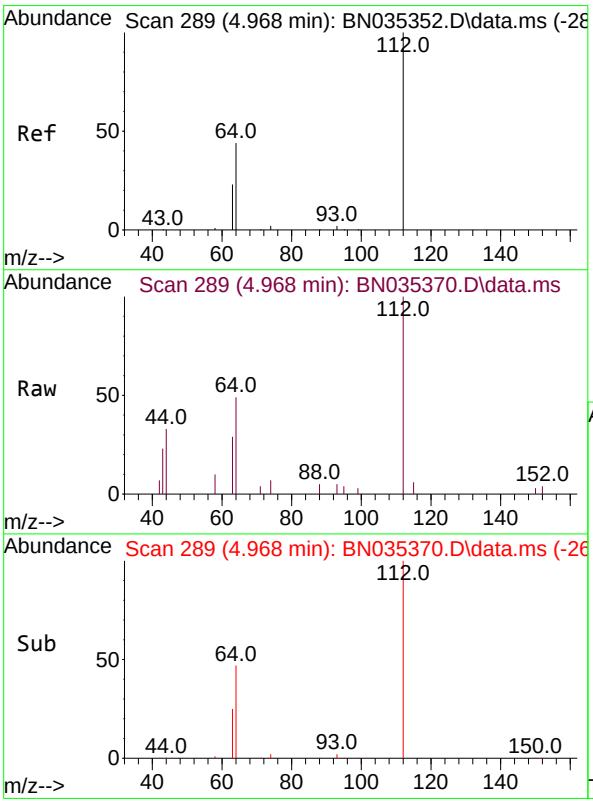
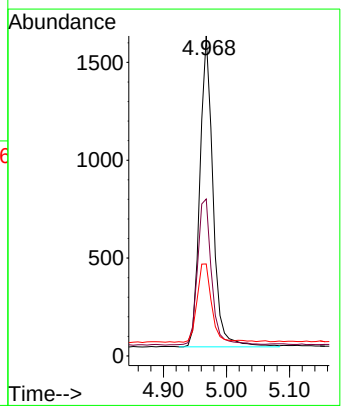
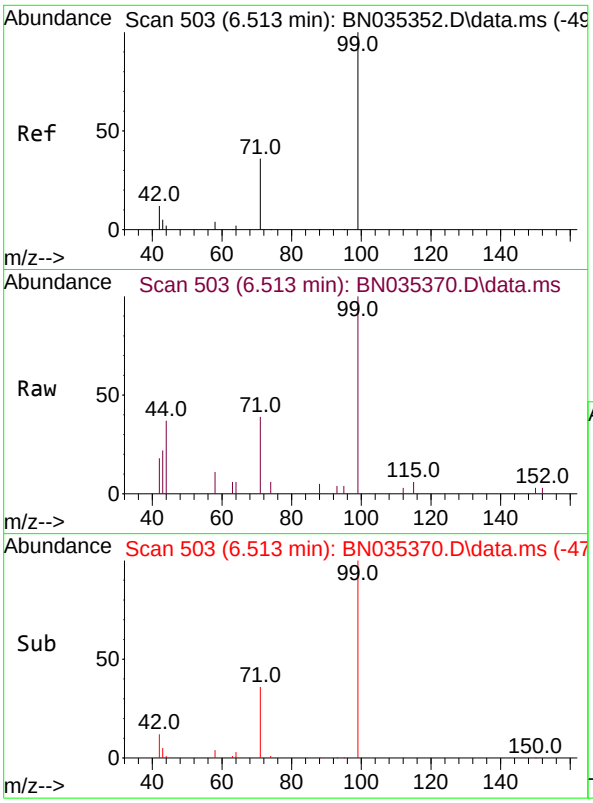


#4
2-Fluorophenol
Concen: 0.405 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:112 Resp: 2290

Ion	Ratio	Lower	Upper
112	100		
64	50.4	39.8	59.8
63	28.0	21.0	31.6

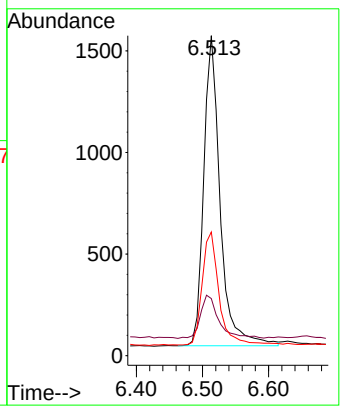




#5
Phenol-d6
Concen: 0.386 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion: 99 Resp: 262(

Ion	Ratio	Lower	Upper
99	100		
42	15.6	11.4	17.2
71	37.5	29.3	43.9



Instrument :
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ClientSampleId :
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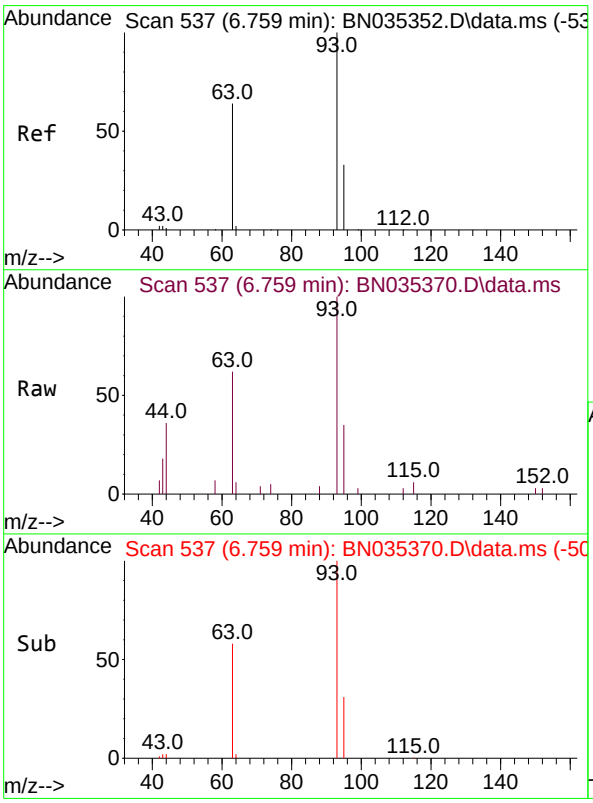
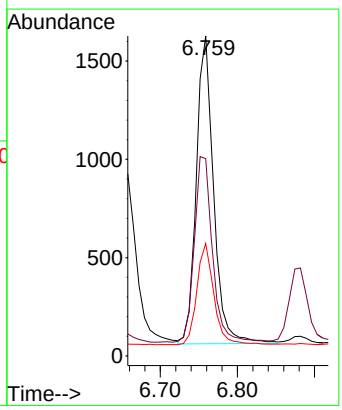
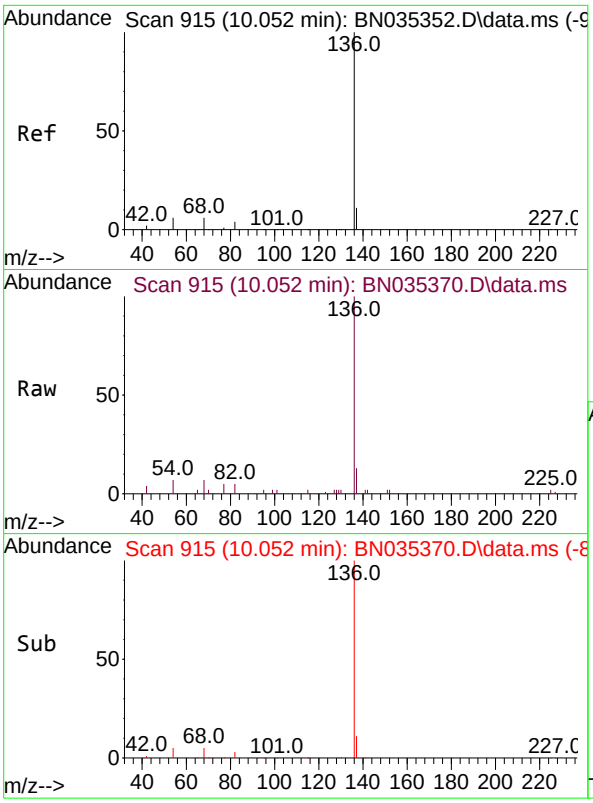


#6
bis(2-Chloroethyl)ether
Concen: 0.428 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion: 93 Resp: 2447

Ion	Ratio	Lower	Upper
93	100		
63	63.1	50.4	75.6
95	32.0	25.7	38.5

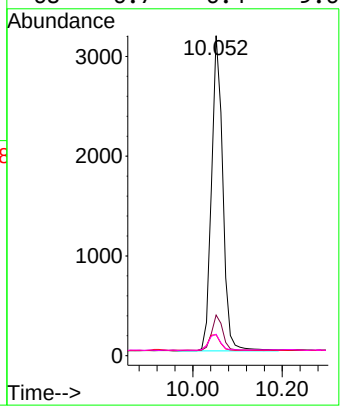




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:136 Resp: 549

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	6.6	6.1	9.1
68	6.7	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
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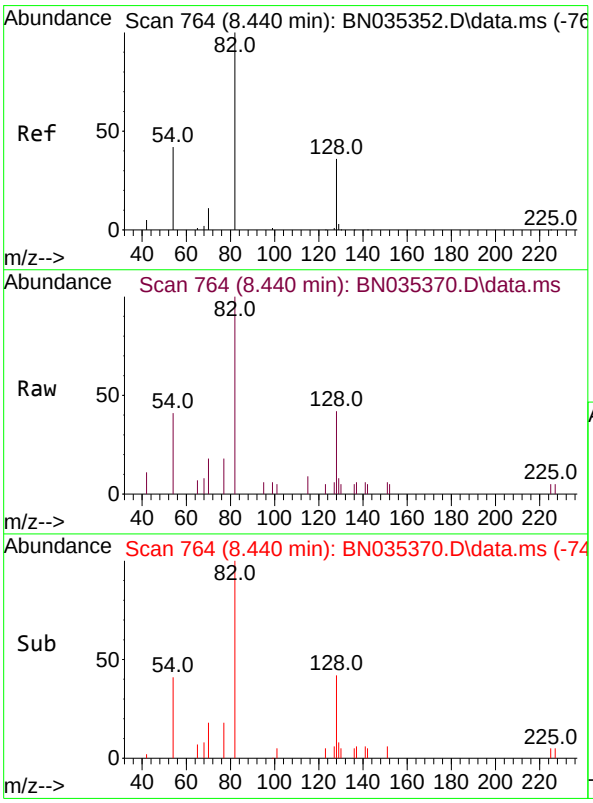
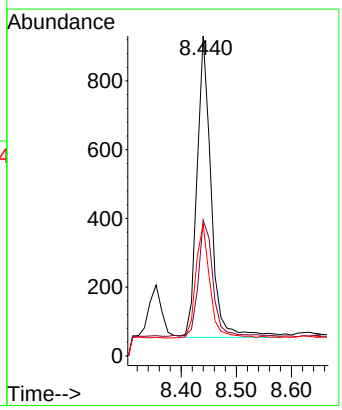
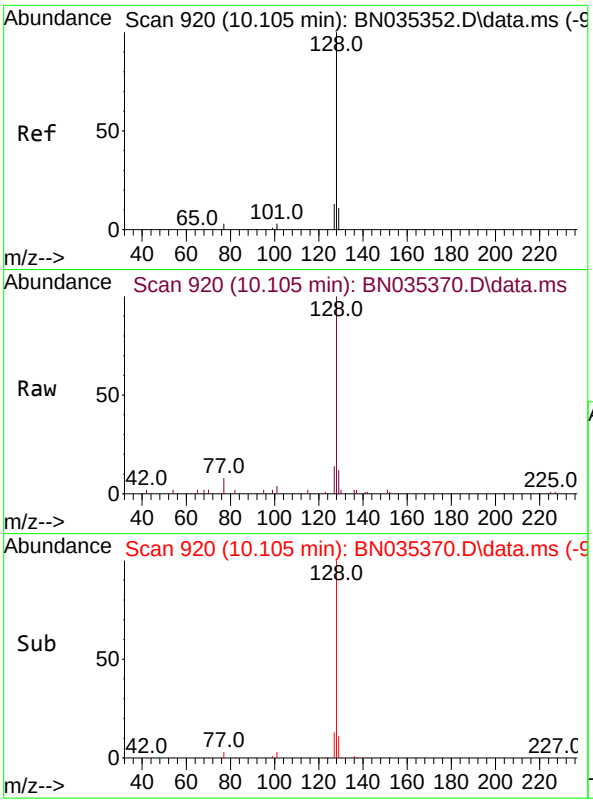


#8
Nitrobenzene-d5
Concen: 0.467 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion: 82 Resp: 1569

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	41.1	36.7	55.1





#9
Naphthalene
Concen: 0.431 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:128 Resp: 624

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.2	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
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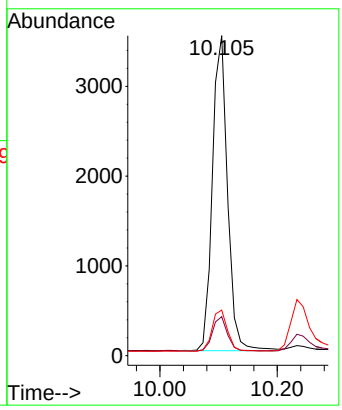
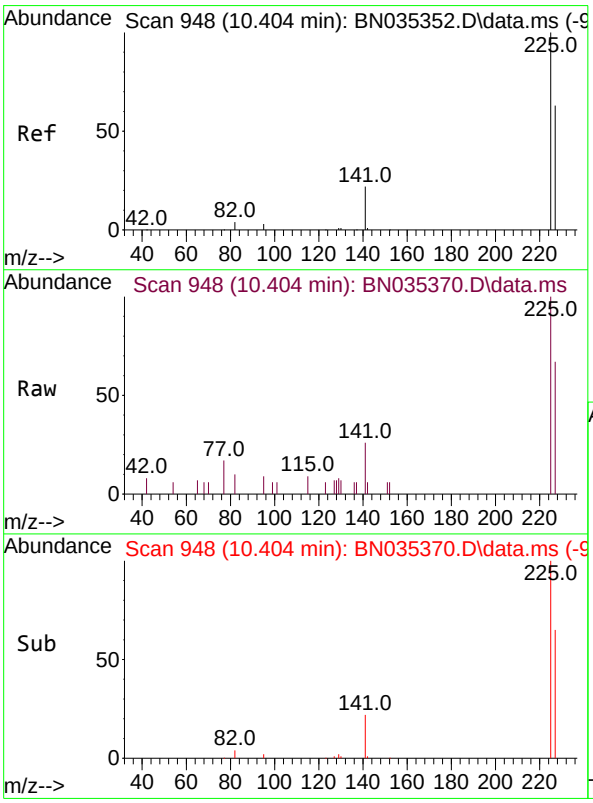
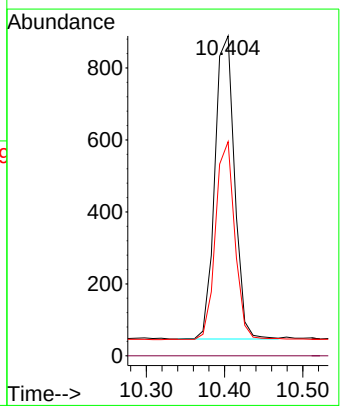


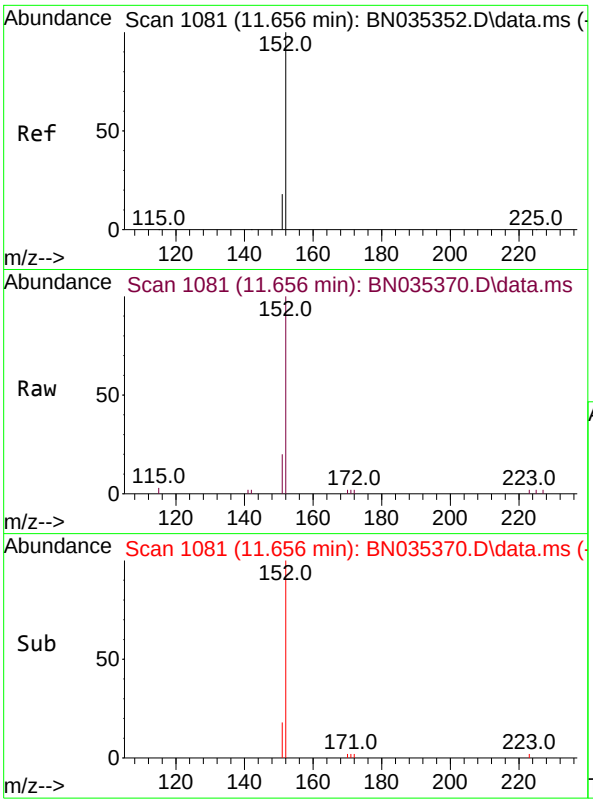


#10
Hexachlorobutadiene
Concen: 0.439 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:225 Resp: 1469

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9

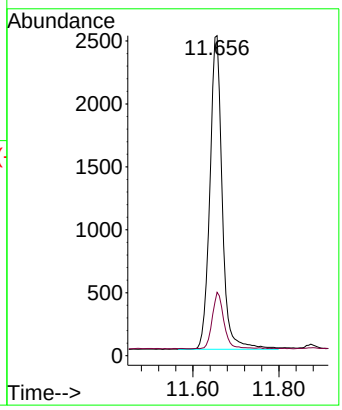




#11
2-Methylnaphthalene-d10
Concen: 0.578 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:152 Resp: 497

Ion	Ratio	Lower	Upper
152	100		
151	16.9	16.6	25.0



Instrument :
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ClientSampleId :
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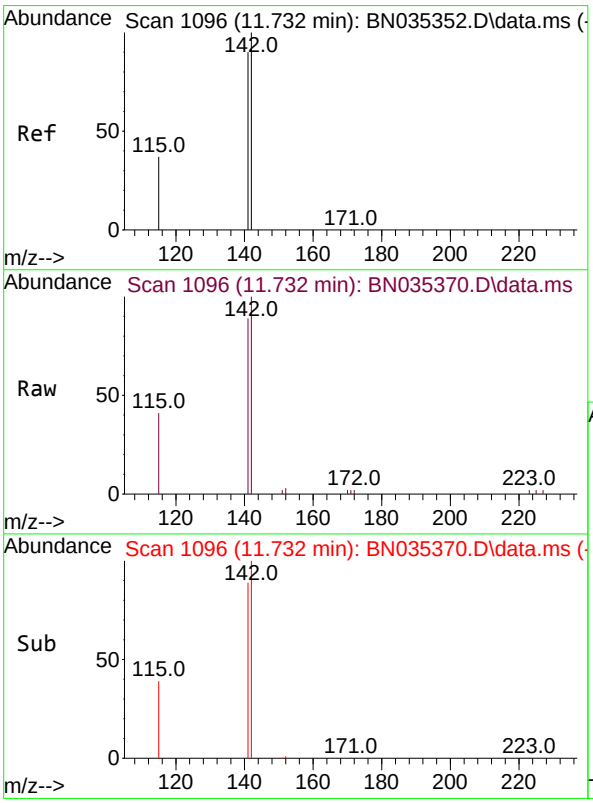
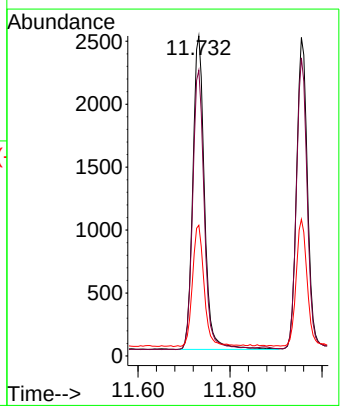
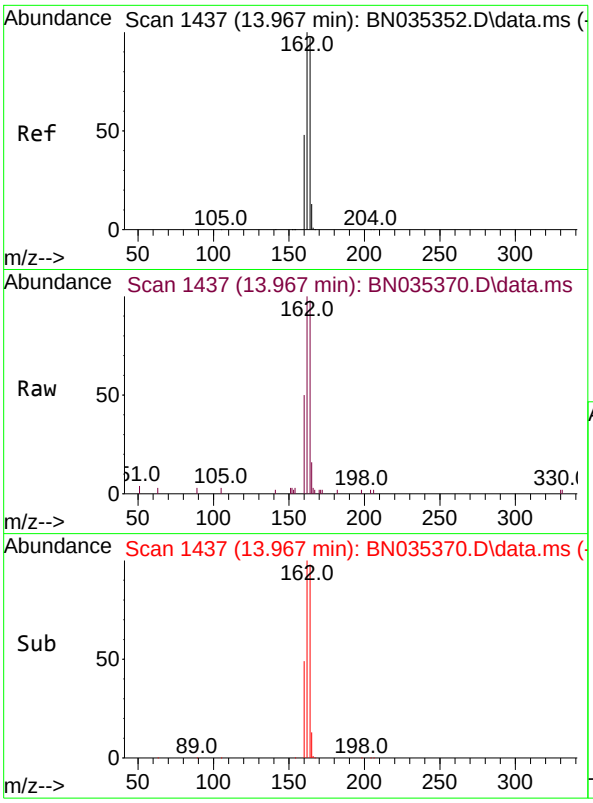


#12
2-Methylnaphthalene
Concen: 0.422 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:142 Resp: 4378

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	40.8	31.4	47.0

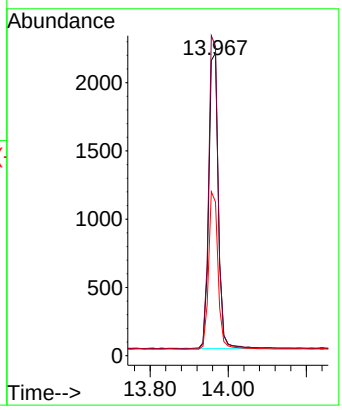




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:164 Resp: 368

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	50.8	40.1	60.1



Instrument :
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ClientSampleId :
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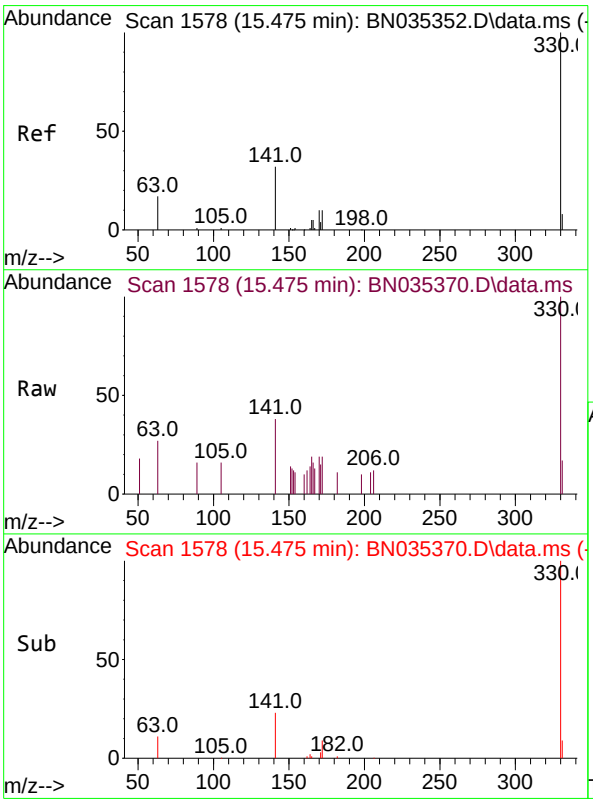
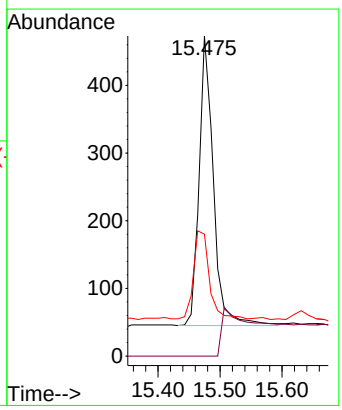
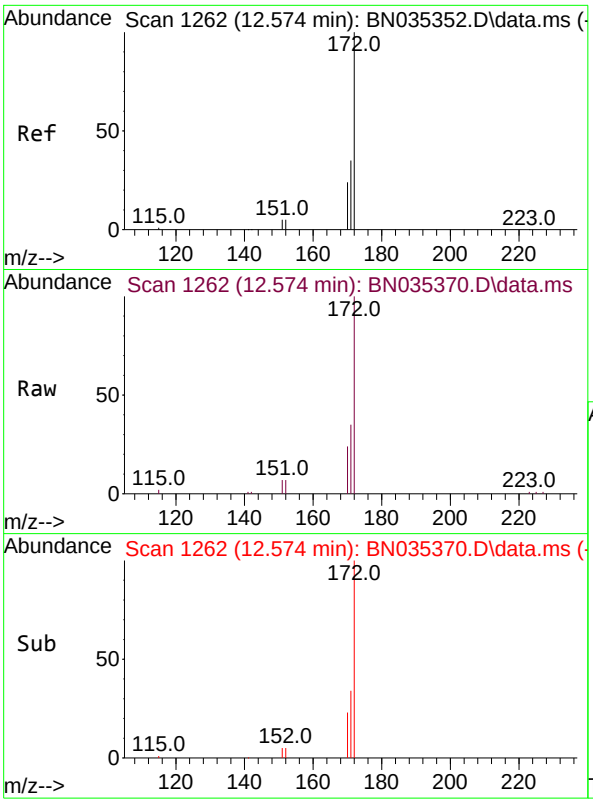


#14
2,4,6-Tribromophenol
Concen: 0.281 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:330 Resp: 735

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.6	26.6	40.0

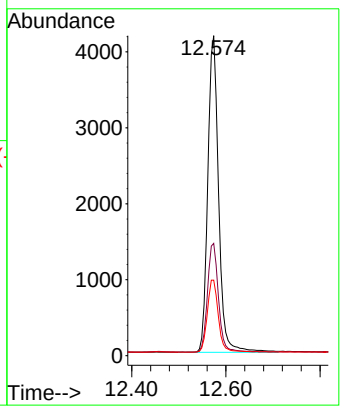




#15
2-Fluorobiphenyl
Concen: 0.475 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:172 Resp: 662

Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.0	43.4
170	23.6	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
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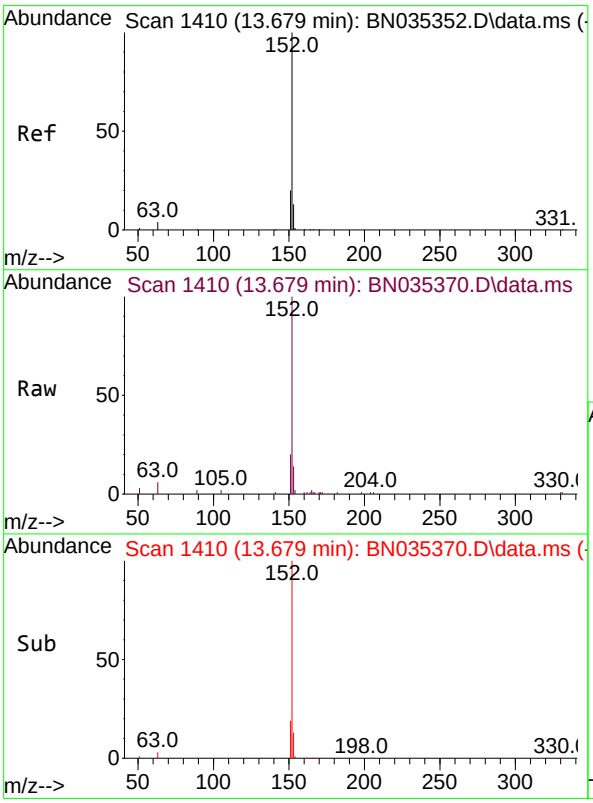
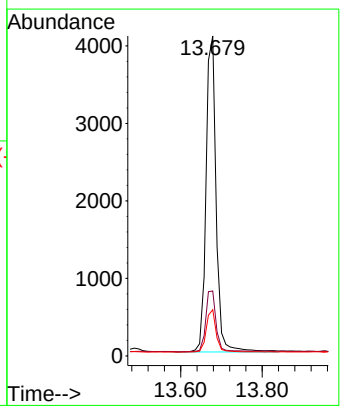
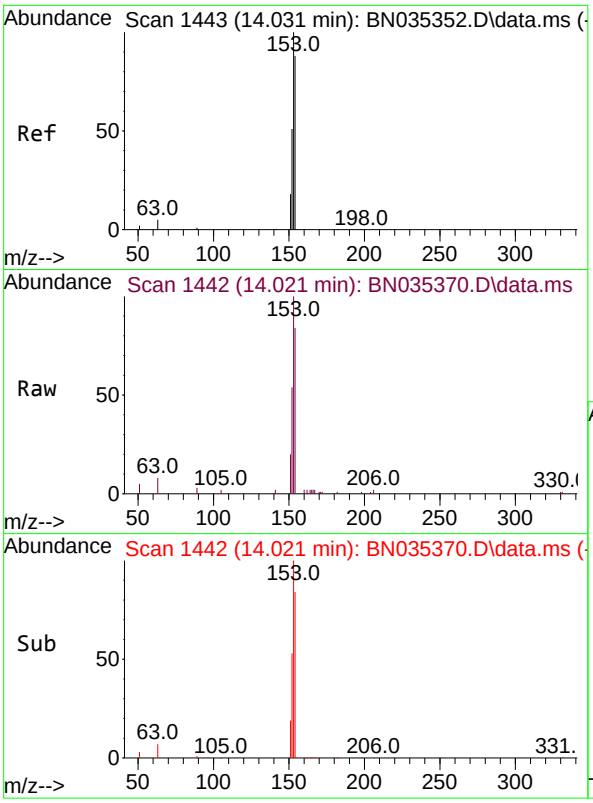


#16
Acenaphthylene
Concen: 0.455 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:152 Resp: 7040

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	13.2	10.4	15.6

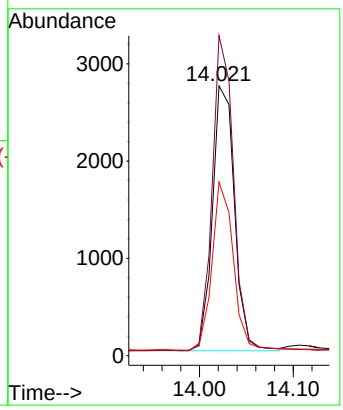




#17
Acenaphthene
Concen: 0.434 ng
RT: 14.021 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:154 Resp: 445

Ion	Ratio	Lower	Upper
154	100		
153	115.6	92.6	139.0
152	61.5	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
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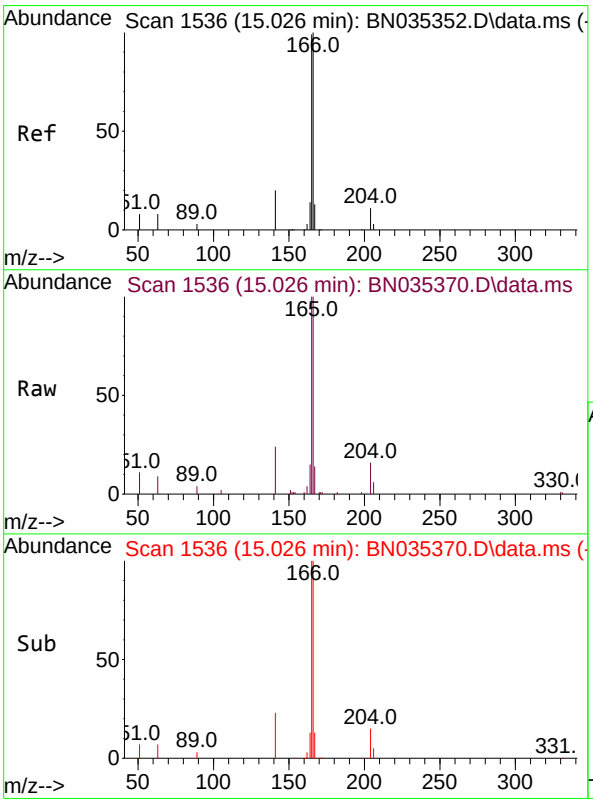
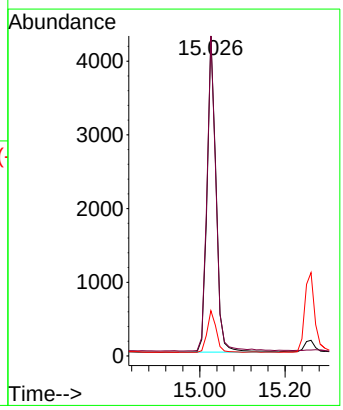
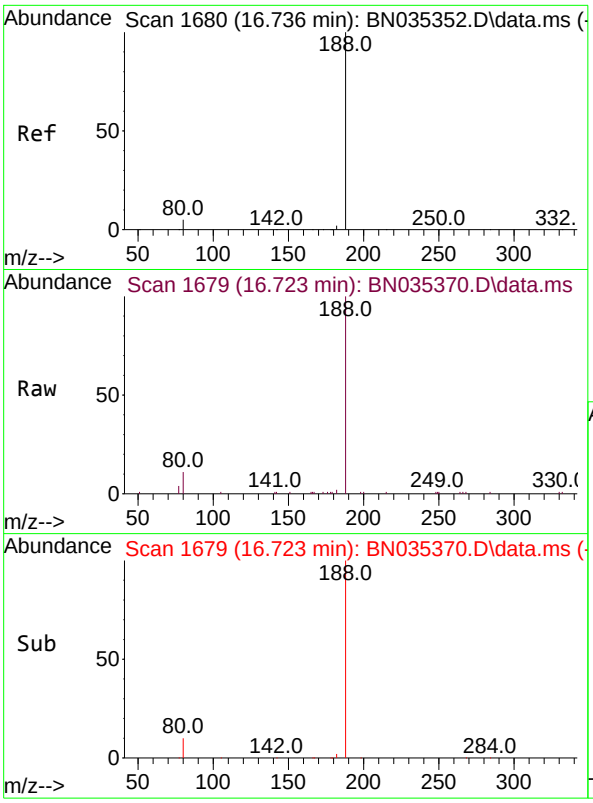


#18
Fluorene
Concen: 0.423 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:166 Resp: 6228

Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.7	119.5
167	13.3	10.8	16.2

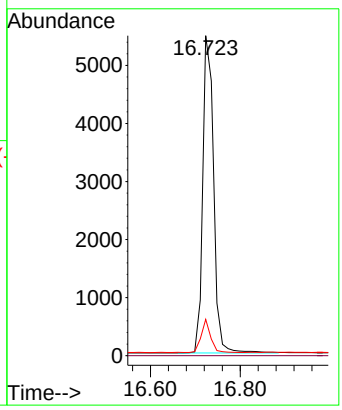




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:188 Resp: 920

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
PB165198BS

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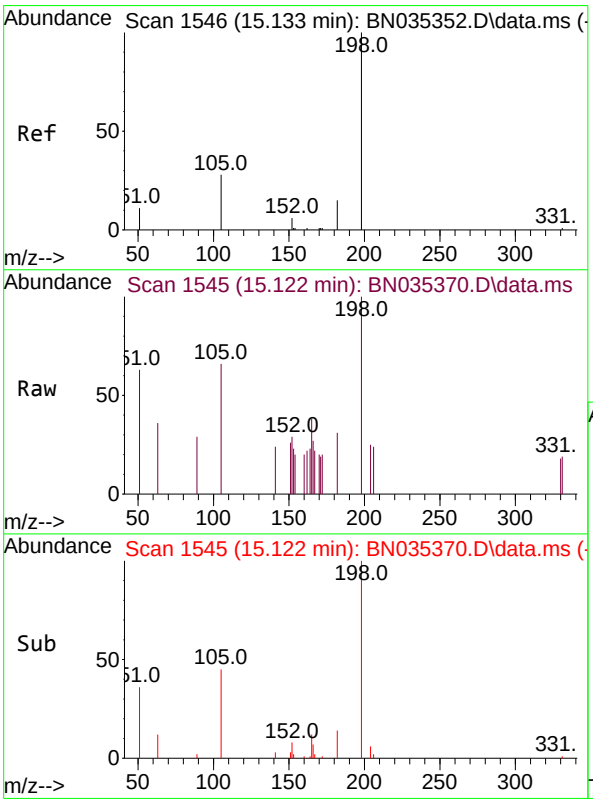
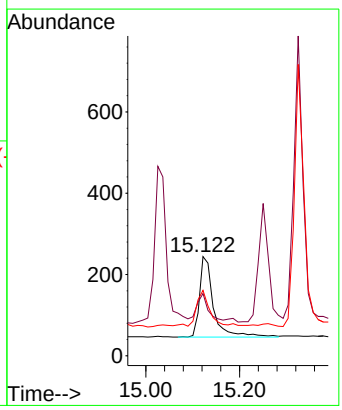
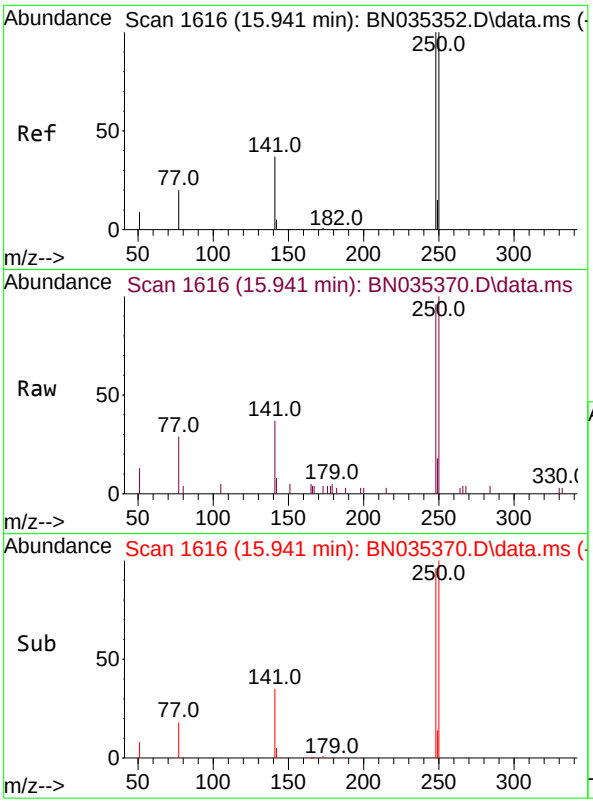


#20
4,6-Dinitro-2-methylphenol
Concen: 0.454 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:198 Resp: 411

Ion	Ratio	Lower	Upper
198	100		
51	62.7	46.5	69.7
105	66.0	45.3	67.9

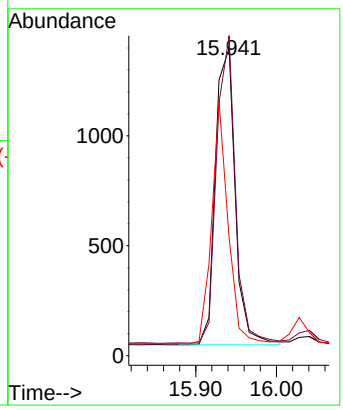




#21
4-Bromophenyl-phenylether
Concen: 0.428 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:248 Resp: 230

Ion	Ratio	Lower	Upper
248	100		
250	104.1	80.6	120.8
141	38.3	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
PB165198BS

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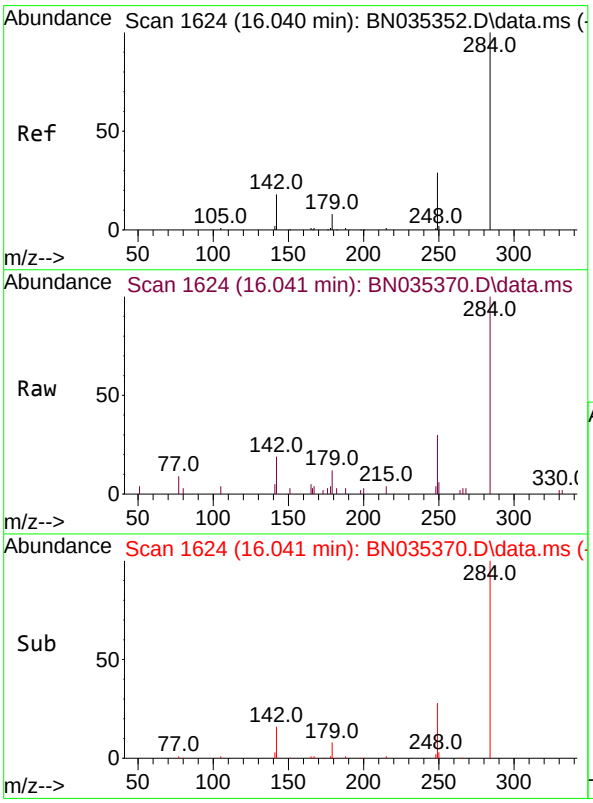
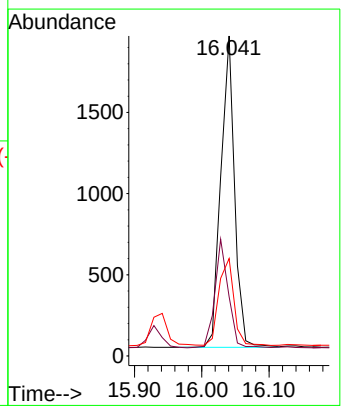
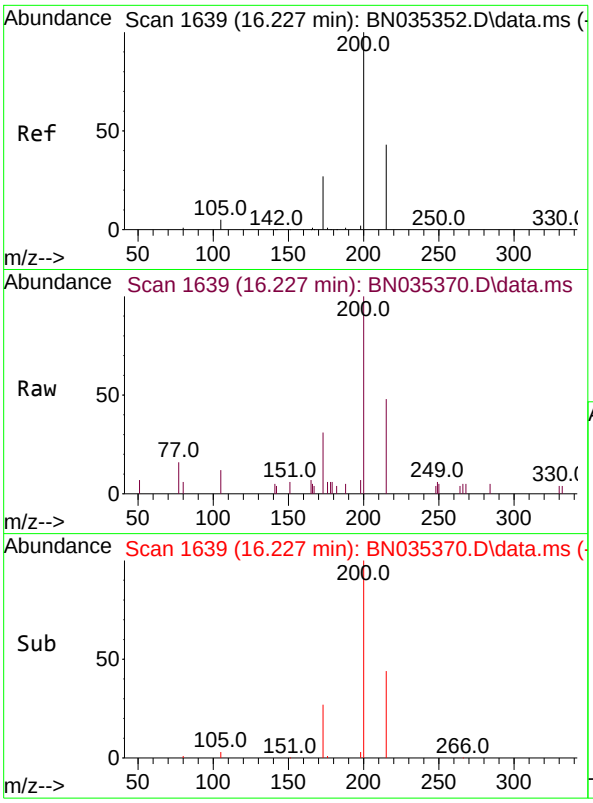


#22
Hexachlorobenzene
Concen: 0.429 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:284 Resp: 2710

Ion	Ratio	Lower	Upper
284	100		
142	34.3	26.7	40.1
249	30.8	24.6	36.8

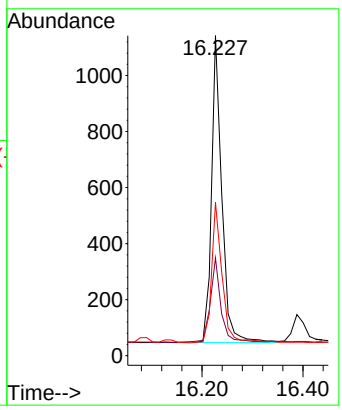




#23
Atrazine
Concen: 0.404 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:200 Resp: 154

Ion	Ratio	Lower	Upper
200	100		
173	30.6	24.1	36.1
215	47.9	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
PB165198BS

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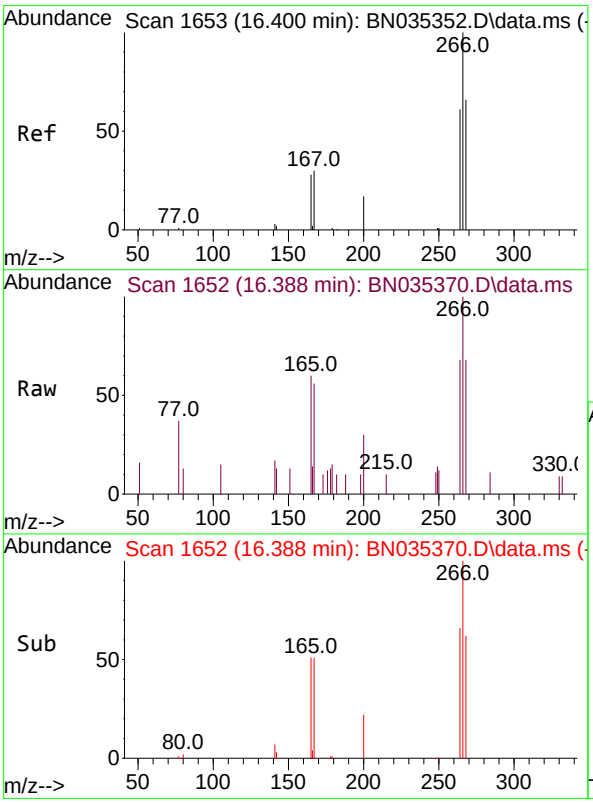
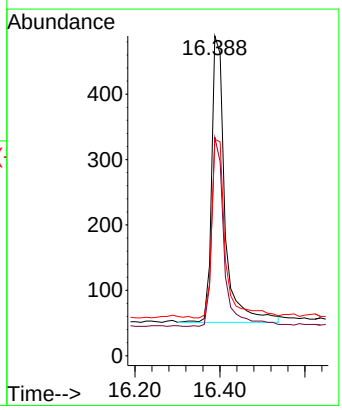
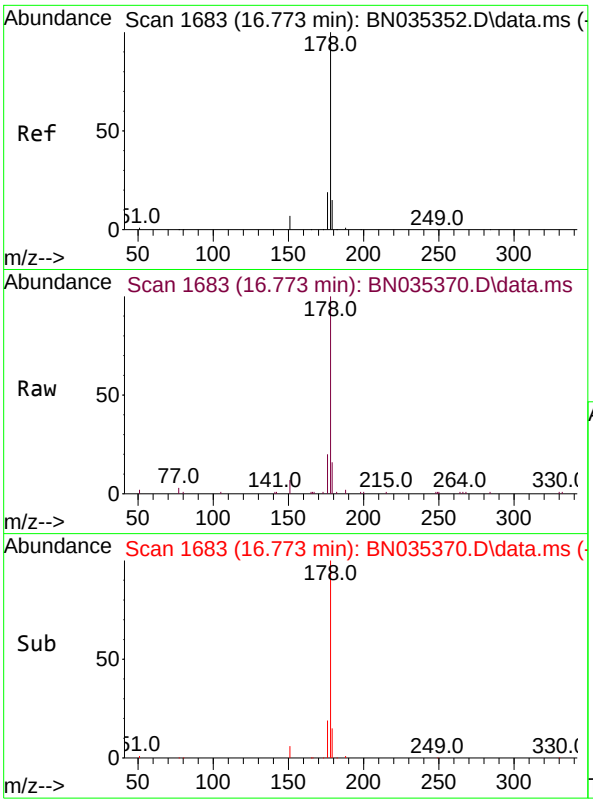


#24
Pentachlorophenol
Concen: 0.345 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:266 Resp: 950

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	63.8	43.3	64.9

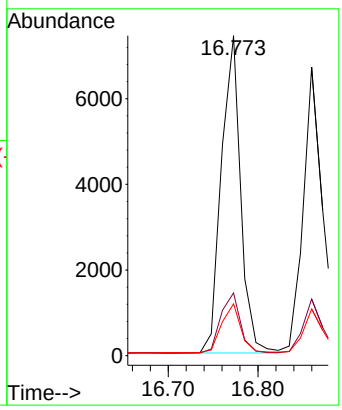




#25
Phenanthrene
Concen: 0.438 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:178 Resp: 1108

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.5	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
PB165198BS

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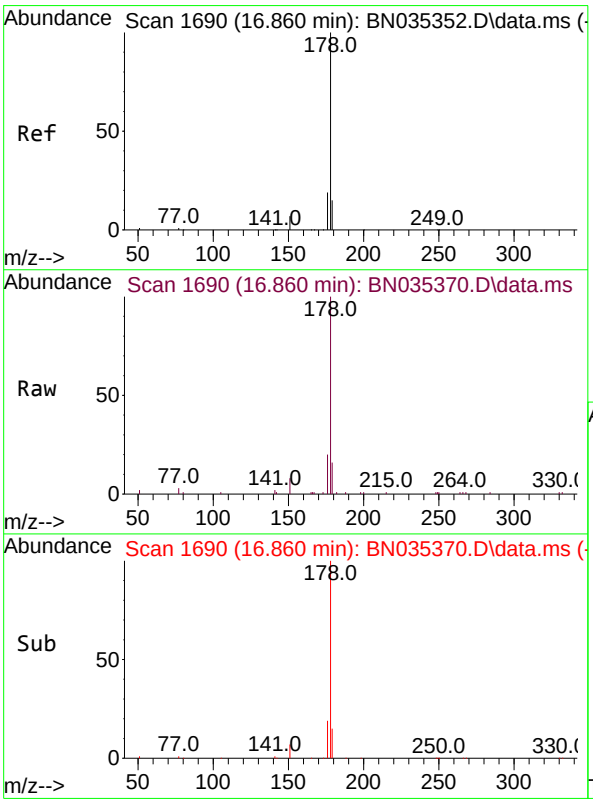
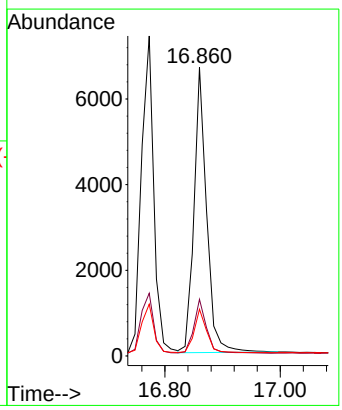
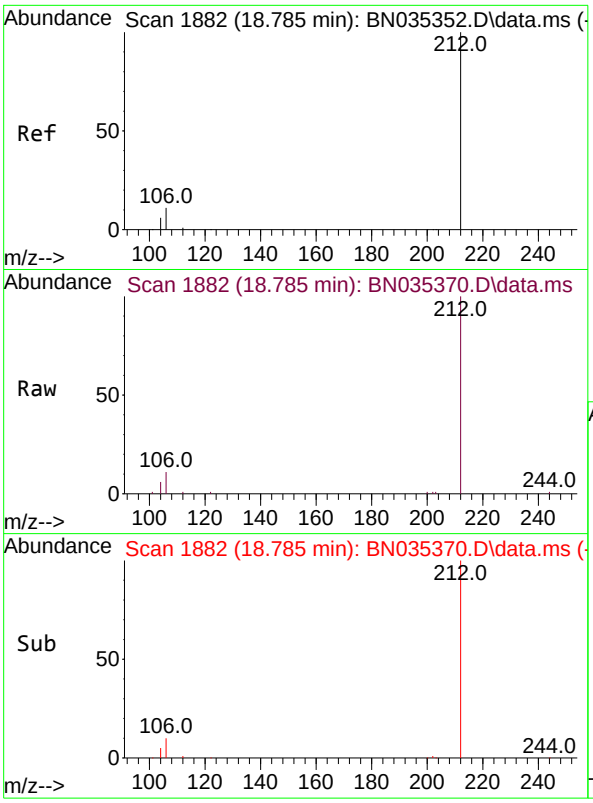


#26
Anthracene
Concen: 0.444 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:178 Resp: 10144

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8

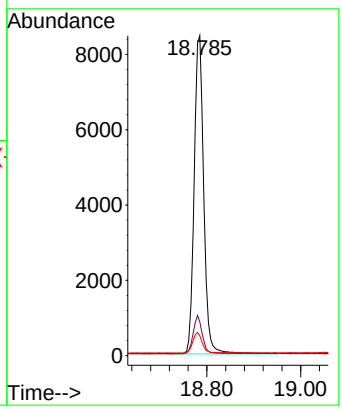




#27
Fluoranthene-d10
Concen: 0.459 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:212 Resp: 1197

Ion	Ratio	Lower	Upper
212	100		
106	11.2	9.2	13.8
104	6.3	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
PB165198BS

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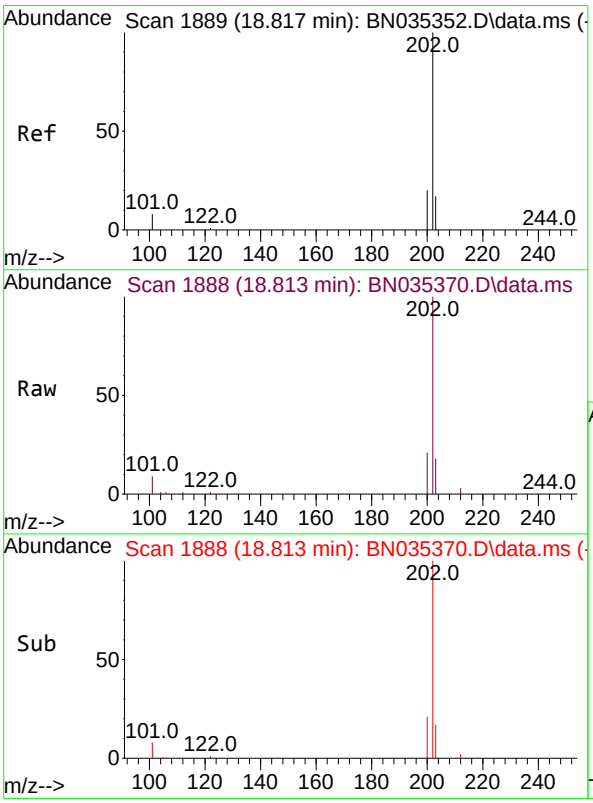
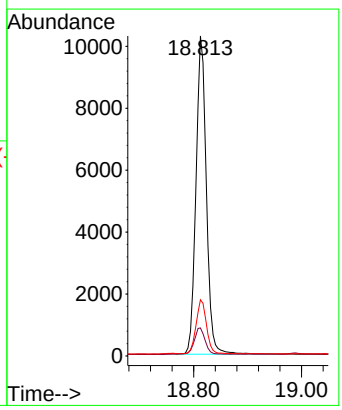
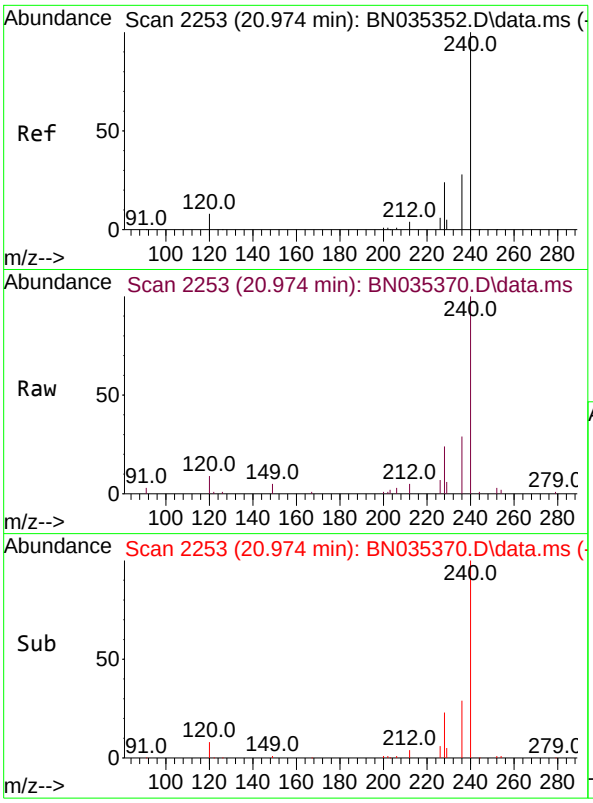


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:202 Resp: 13705

Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.4	11.0
203	17.0	13.7	20.5

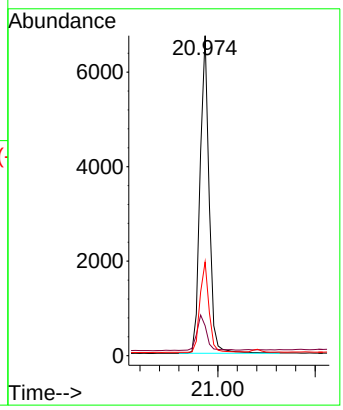




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:240 Resp: 866

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.9	11.9
236	29.3	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
PB165198BS

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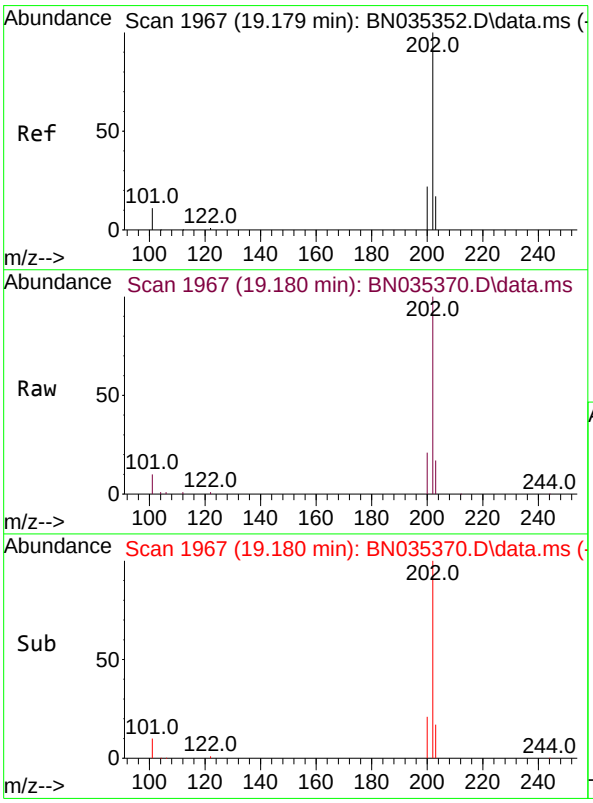
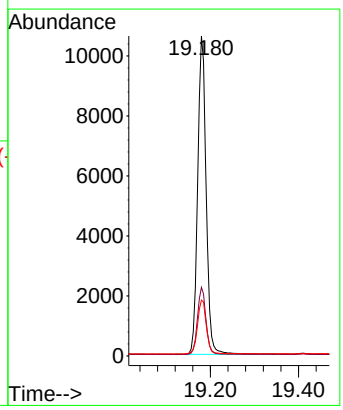
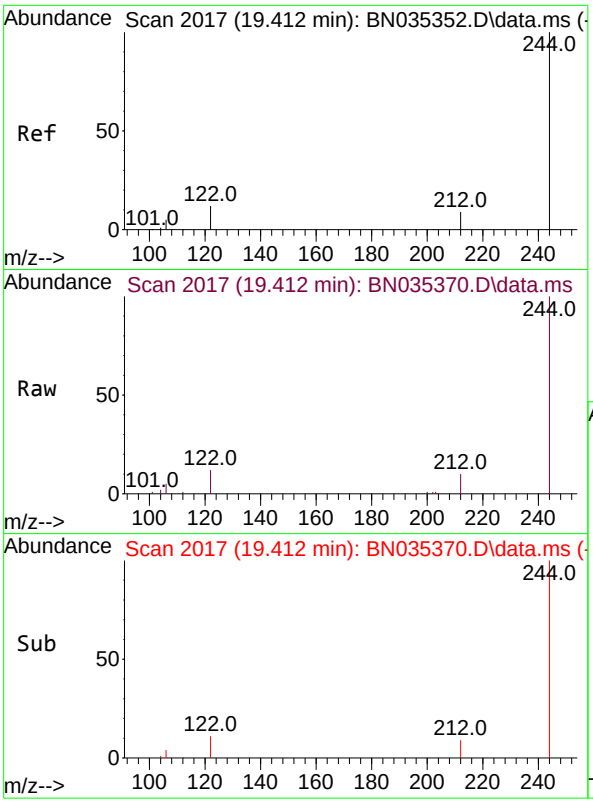


#30
Pyrene
Concen: 0.444 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:202 Resp: 14204

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.5	14.3	21.5

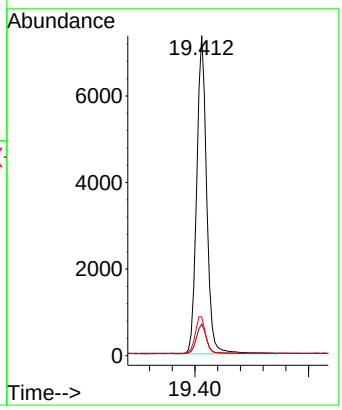




#31
Terphenyl-d14
Concen: 0.521 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:244 Resp: 891

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.1	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165198BS

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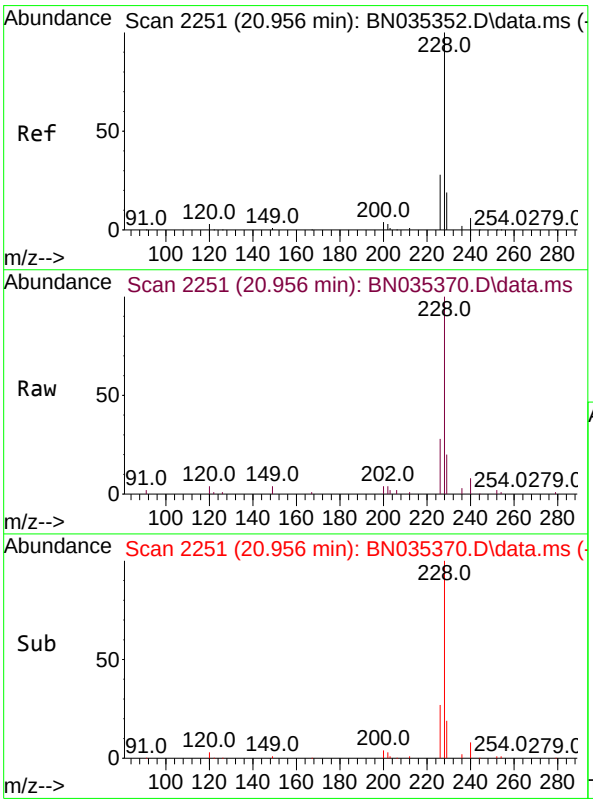
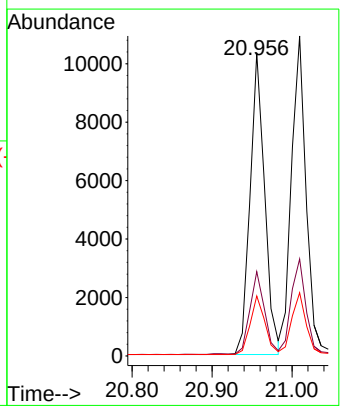
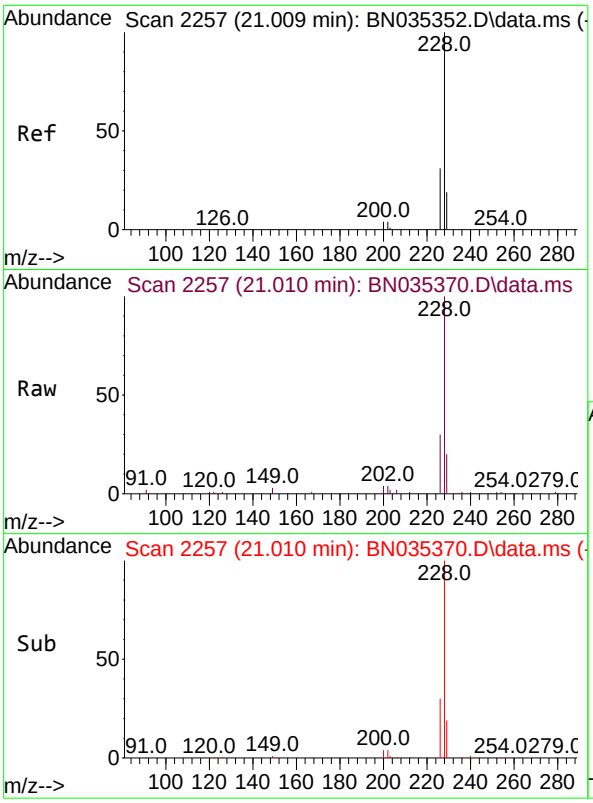


#32
Benzo(a)anthracene
Concen: 0.433 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:228 Resp: 13138

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.5	33.7
229	19.8	15.8	23.8

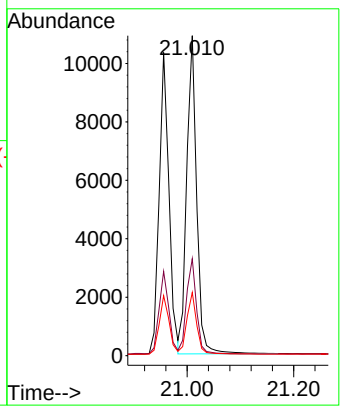




#33
Chrysene
Concen: 0.451 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:228 Resp: 1411

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.8	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
PB165198BS

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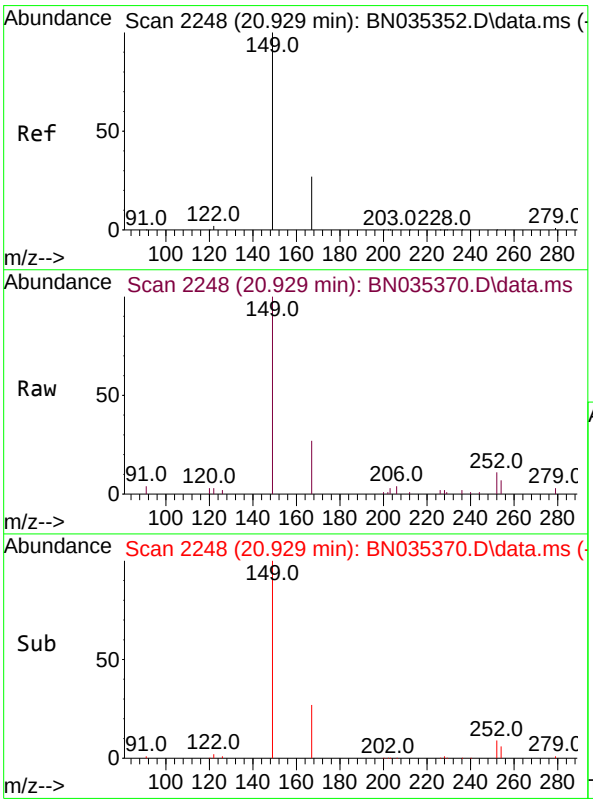
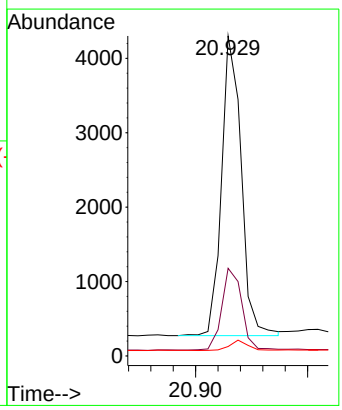
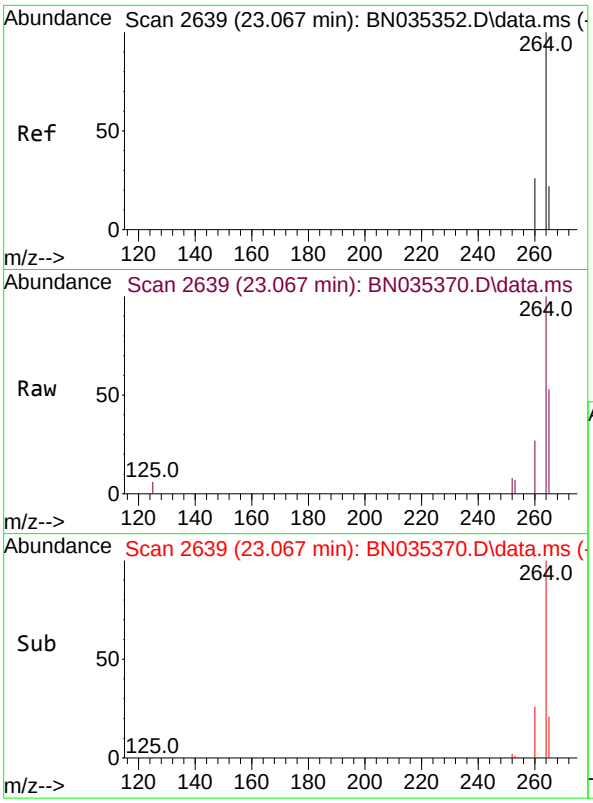


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.410 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:149 Resp: 4912

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.2	2.7	4.1

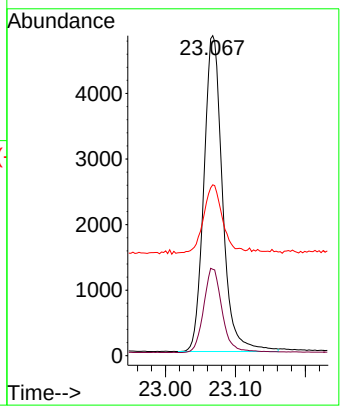




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:264 Resp: 892

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	53.4	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
PB165198BS

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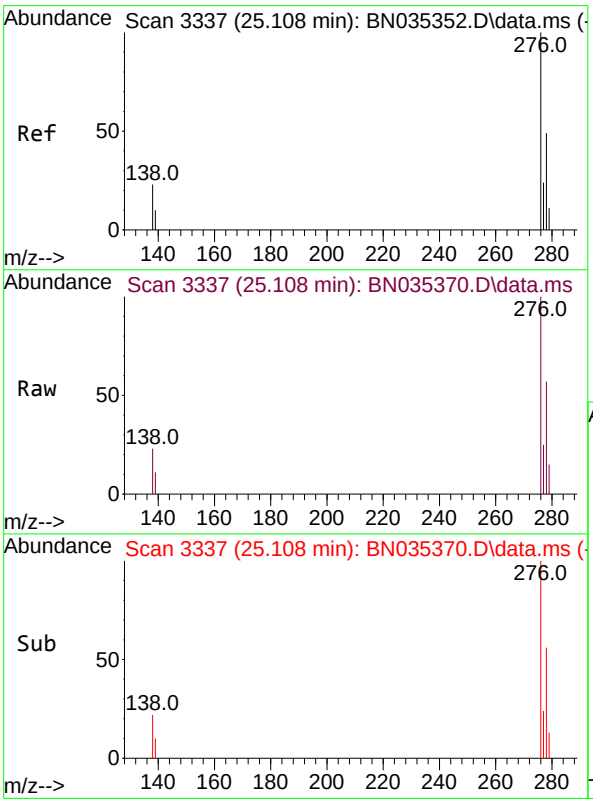
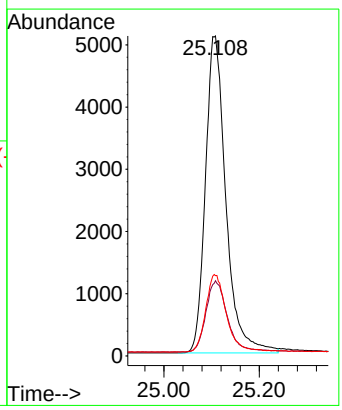
Supervised By :mohammad ahmed 11/29/2024

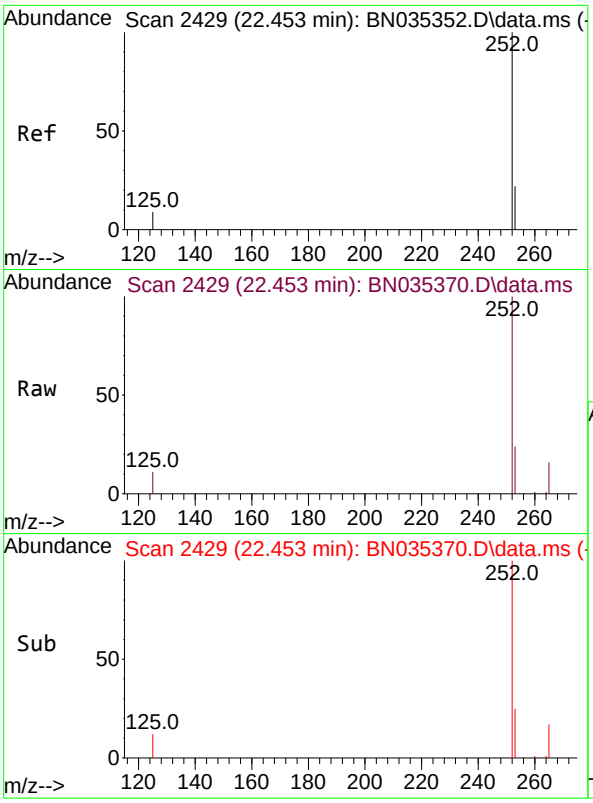


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.436 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:276 Resp: 15213

Ion	Ratio	Lower	Upper
276	100		
138	23.1	19.4	29.0
277	24.6	19.8	29.6

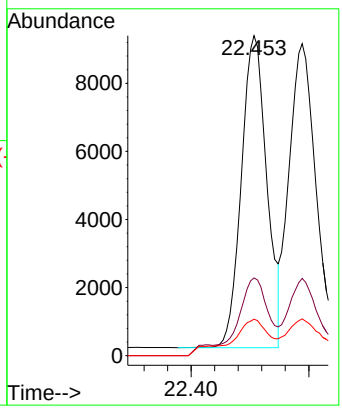




#37
Benzo(b)fluoranthene
Concen: 0.491 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:252 Resp: 1602

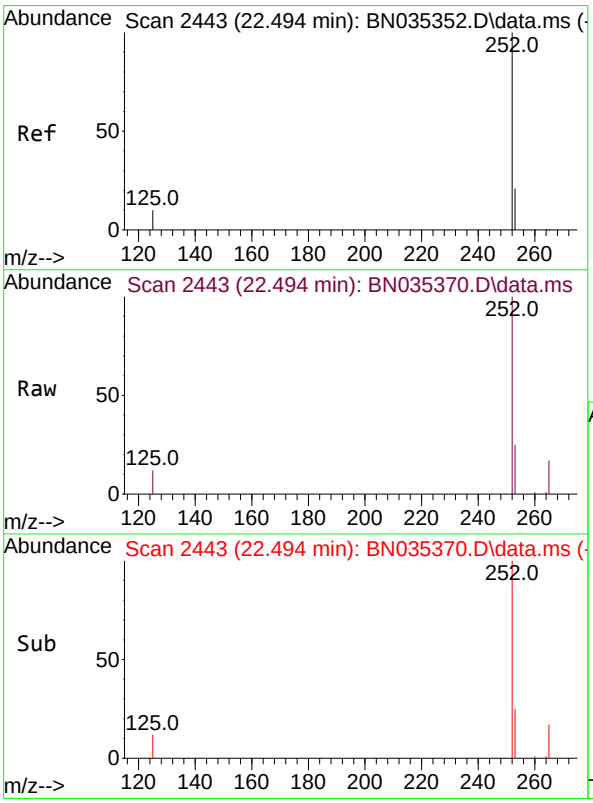
Ion	Ratio	Lower	Upper
252	100		
253	24.3	19.6	29.4
125	11.4	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
PB165198BS

Manual Integrations
APPROVED

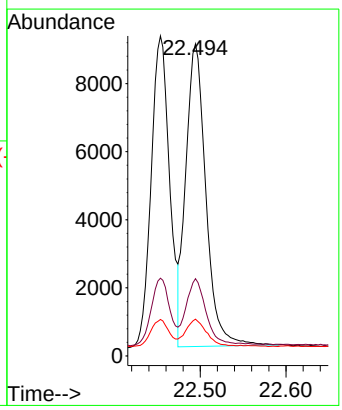
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

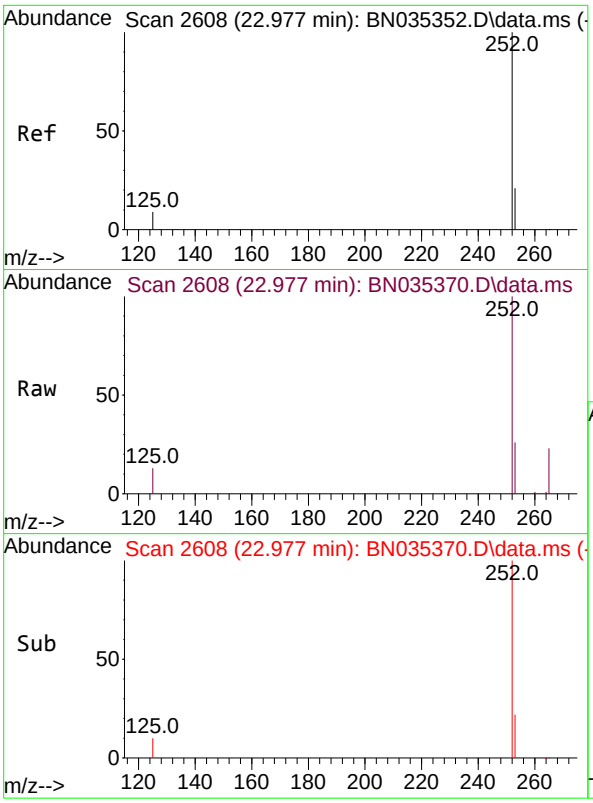


#38
Benzo(k)fluoranthene
Concen: 0.450 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:252 Resp: 14448

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	11.8	10.2	15.4

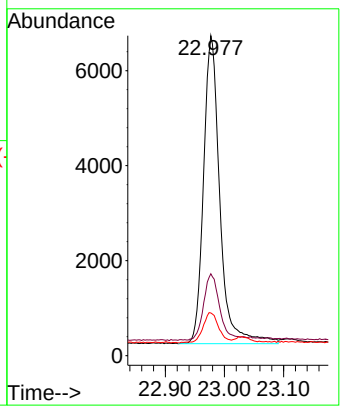




#39
Benzo(a)pyrene
Concen: 0.462 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:252 Resp: 1243

Ion	Ratio	Lower	Upper
252	100		
253	25.6	20.2	30.4
125	13.4	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
PB165198BS

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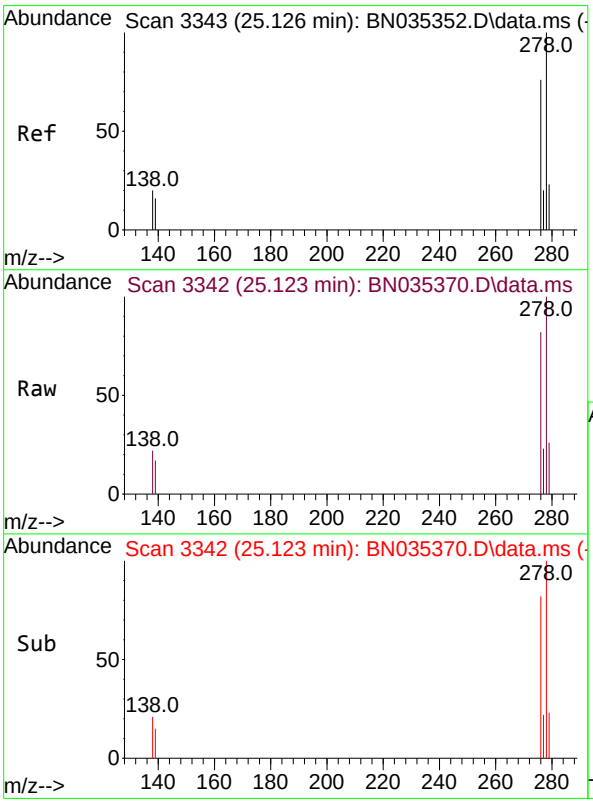
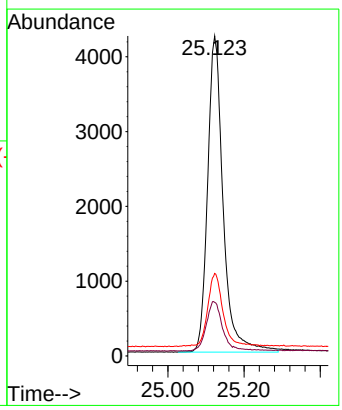
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

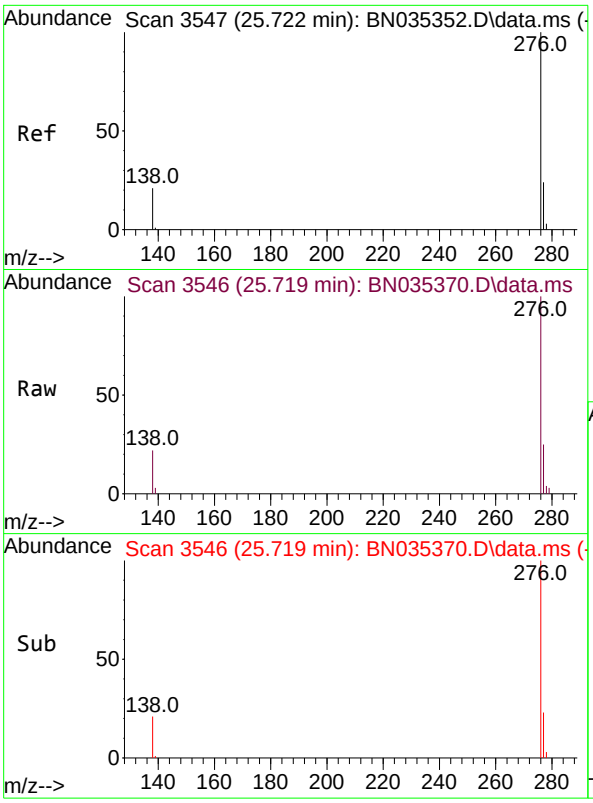


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:278 Resp: 11913

Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.2	21.4
279	25.8	20.5	30.7

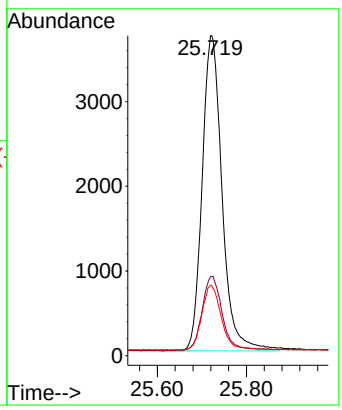




#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 25.719 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:276 Resp: 1155

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	22.0	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
PB165198BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	PB165198BSD			SDG No.:	P4959
Lab Sample ID:	PB165198BSD			Matrix:	Water
Analytical Method:	SW8270SIM			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-SIMGroup1
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
BN035371.D	1	11/22/24 12:25	11/28/24 06:39	PB165198

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.51		30 - 150		127%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		104%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2380	7.308				
1146-65-2	Naphthalene-d8	5720	10.052				
15067-26-2	Acenaphthene-d10	3810	13.967				
1517-22-2	Phenanthrene-d10	9570	16.735				
1719-03-5	Chrysene-d12	8950	20.974				
1520-96-3	Perylene-d12	9280	23.07				

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\BN112724\
Data File : BN035371.D
Acq On : 28 Nov 2024 06:39
Operator : RC/JU
Sample : PB165198BSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 28 07:04:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2376	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5724	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3806	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9566	0.400	ng	0.00
29) Chrysene-d12	20.974	240	8948	0.400	ng	0.00
35) Perylene-d12	23.070	264	9280	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	2117	0.356	ng	0.00
5) Phenol-d6	6.513	99	2409	0.337	ng	0.00
8) Nitrobenzene-d5	8.440	82	1446m	0.414	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	4544	0.507	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	658	0.244	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	6011	0.418	ng	0.00
27) Fluoranthene-d10	18.784	212	10713	0.395	ng	0.00
31) Terphenyl-d14	19.412	244	7957	0.451	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	783	0.345	ng	# 72
3) n-Nitrosodimethylamine	3.292	42	727	0.384	ng	# 97
6) bis(2-Chloroethyl)ether	6.759	93	2213	0.368	ng	99
9) Naphthalene	10.105	128	5692	0.377	ng	99
10) Hexachlorobutadiene	10.404	225	1371	0.394	ng	# 100
12) 2-Methylnaphthalene	11.732	142	3934	0.364	ng	99
16) Acenaphthylene	13.678	152	6299	0.394	ng	100
17) Acenaphthene	14.031	154	4018	0.379	ng	99
18) Fluorene	15.026	166	5740	0.378	ng	98
20) 4,6-Dinitro-2-methylph...	15.132	198	344	0.366	ng	96
21) 4-Bromophenyl-phenylether	15.941	248	2102	0.376	ng	97
22) Hexachlorobenzene	16.040	284	2466	0.375	ng	99
23) Atrazine	16.227	200	1420	0.357	ng	97
24) Pentachlorophenol	16.400	266	828	0.290	ng	# 84
25) Phenanthrene	16.773	178	10055	0.383	ng	100
26) Anthracene	16.860	178	9171	0.386	ng	100
28) Fluoranthene	18.812	202	12304	0.347	ng	100
30) Pyrene	19.179	202	12695	0.384	ng	100
32) Benzo(a)anthracene	20.956	228	11626	0.371	ng	100
33) Chrysene	21.009	228	12682	0.393	ng	100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4303	0.348	ng	100
36) Indeno(1,2,3-cd)pyrene	25.108	276	14123	0.389	ng	99
37) Benzo(b)fluoranthene	22.456	252	12457	0.367	ng	99
38) Benzo(k)fluoranthene	22.497	252	13182	0.394	ng	99
39) Benzo(a)pyrene	22.980	252	11277	0.403	ng	99
40) Dibenzo(a,h)anthracene	25.128	278	10990	0.384	ng	99
41) Benzo(g,h,i)perylene	25.725	276	10607	0.355	ng	99

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

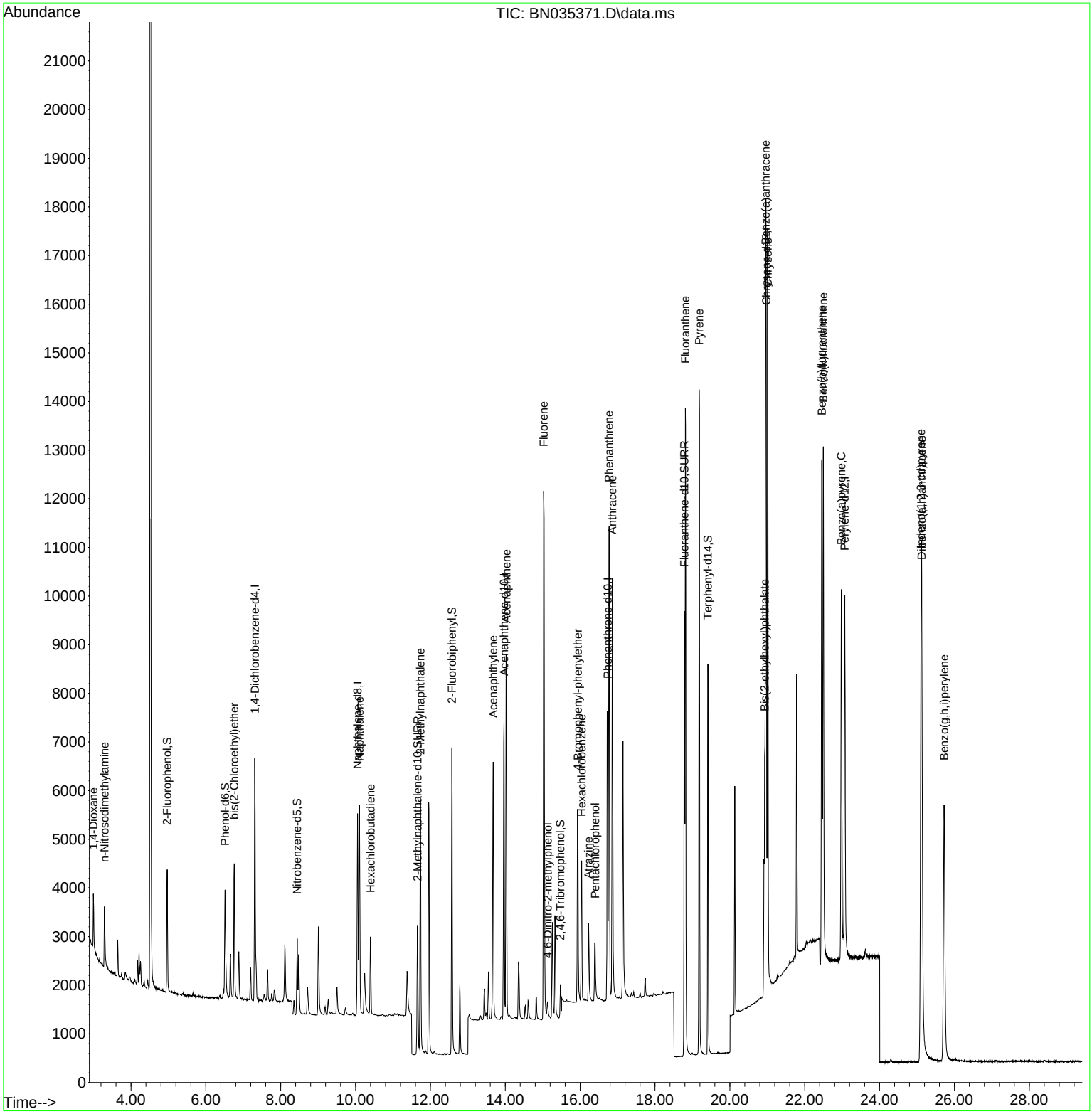
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035371.D
Acq On : 28 Nov 2024 06:39
Operator : RC/JU
Sample : PB165198BSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

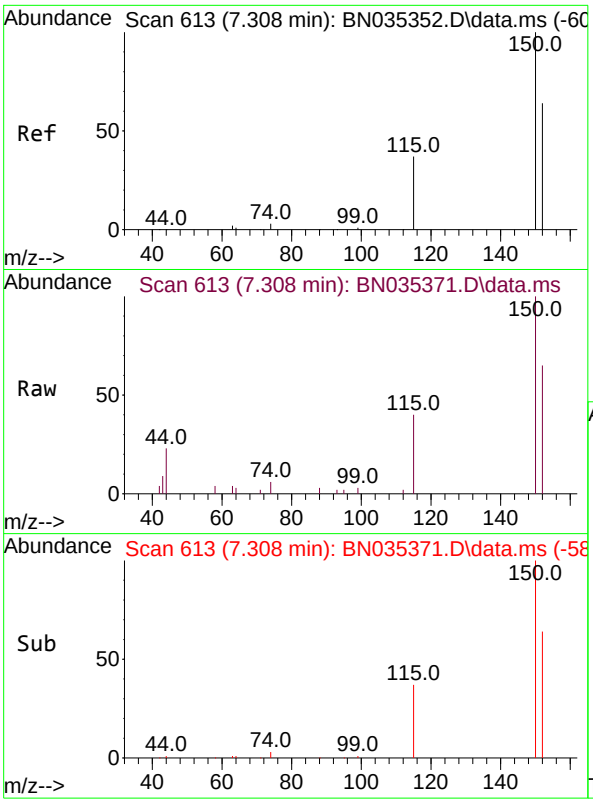
Quant Time: Nov 28 07:04:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

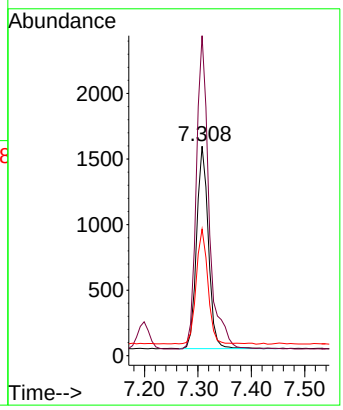




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:152 Resp: 237

Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.0	186.0
115	60.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Manual Integrations
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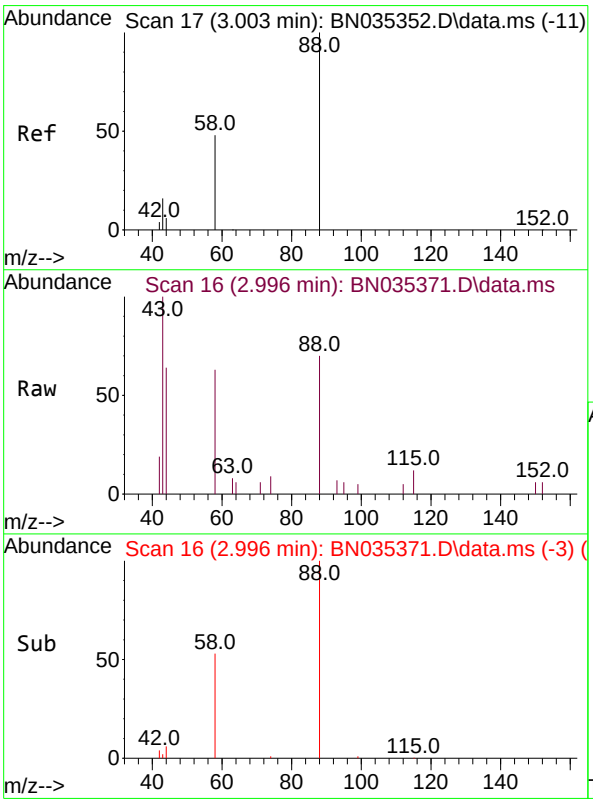
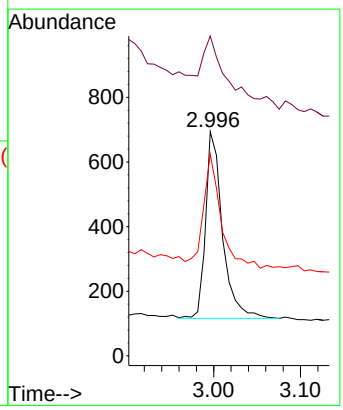
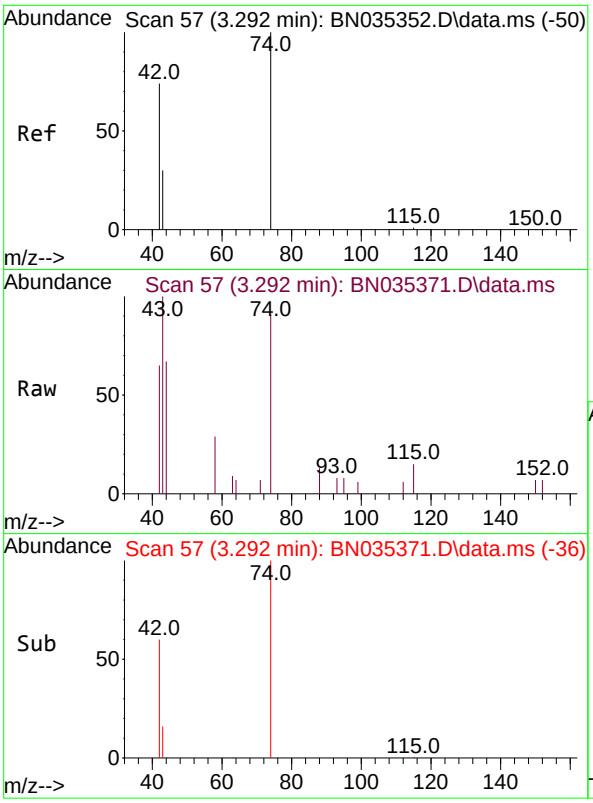


#2
1,4-Dioxane
Concen: 0.345 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion: 88 Resp: 783

Ion	Ratio	Lower	Upper
88	100		
43	58.7	17.2	25.8#
58	62.1	44.5	66.7

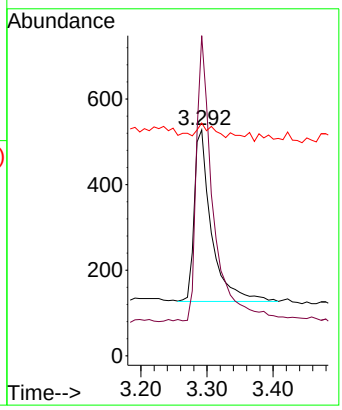




#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.292 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion: 42 Resp: 72

Ion	Ratio	Lower	Upper
42	100		
74	159.8	124.9	187.3
44	7.0	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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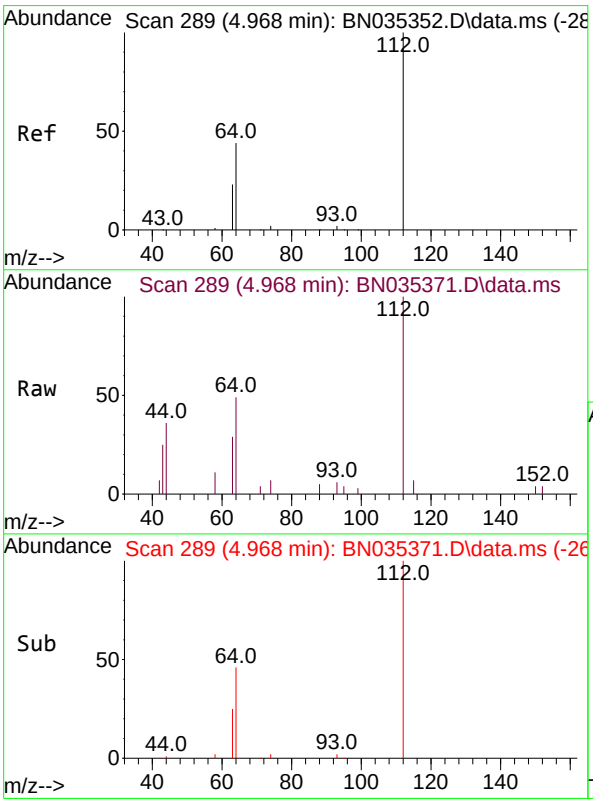
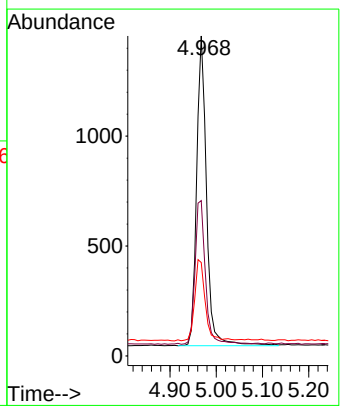
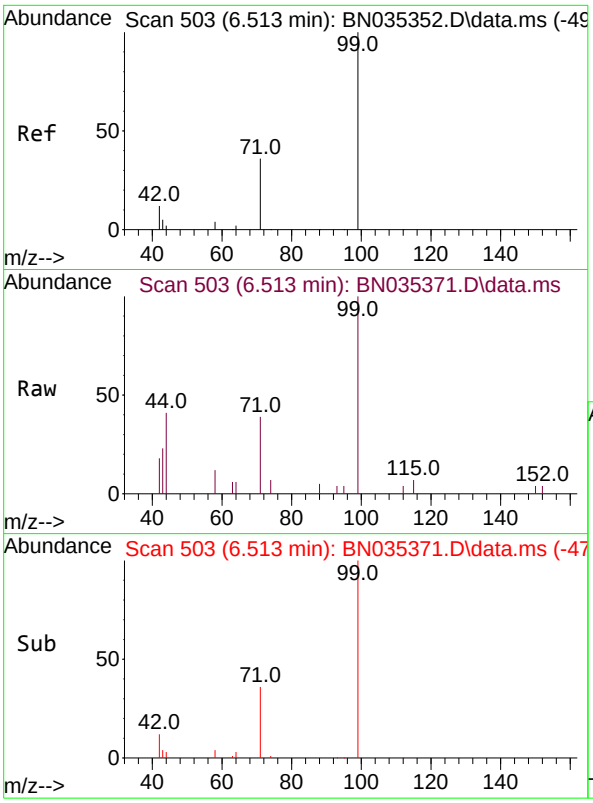


#4
2-Fluorophenol
Concen: 0.356 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:112 Resp: 2117

Ion	Ratio	Lower	Upper
112	100		
64	48.9	39.8	59.8
63	27.9	21.0	31.6

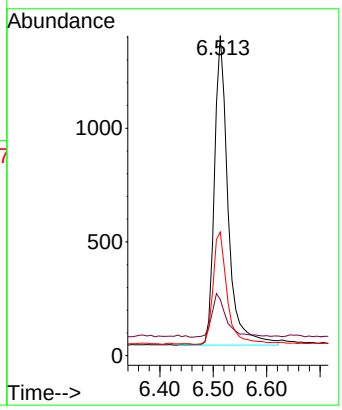




#5
Phenol-d6
Concen: 0.337 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion: 99 Resp: 240

Ion	Ratio	Lower	Upper
99	100		
42	15.1	11.4	17.2
71	37.7	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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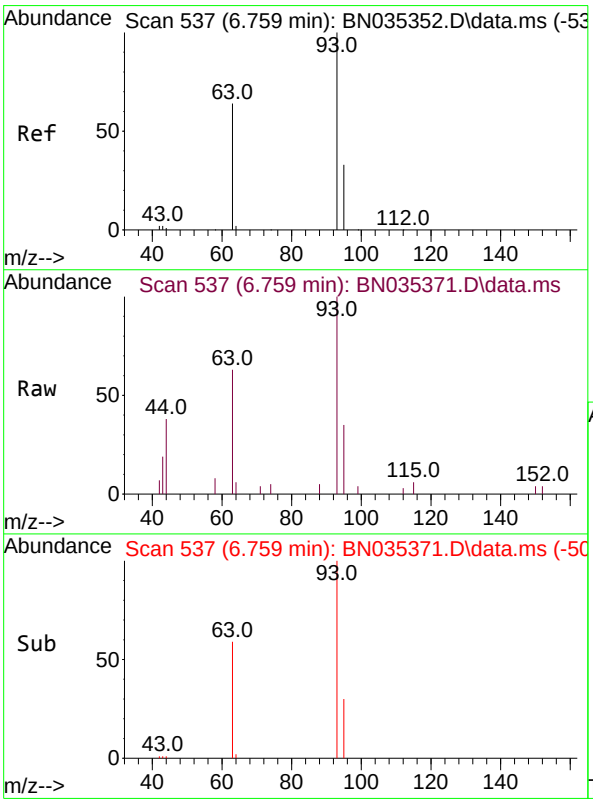
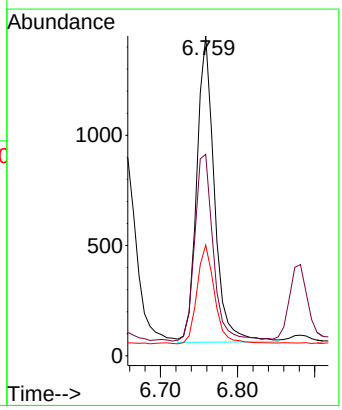
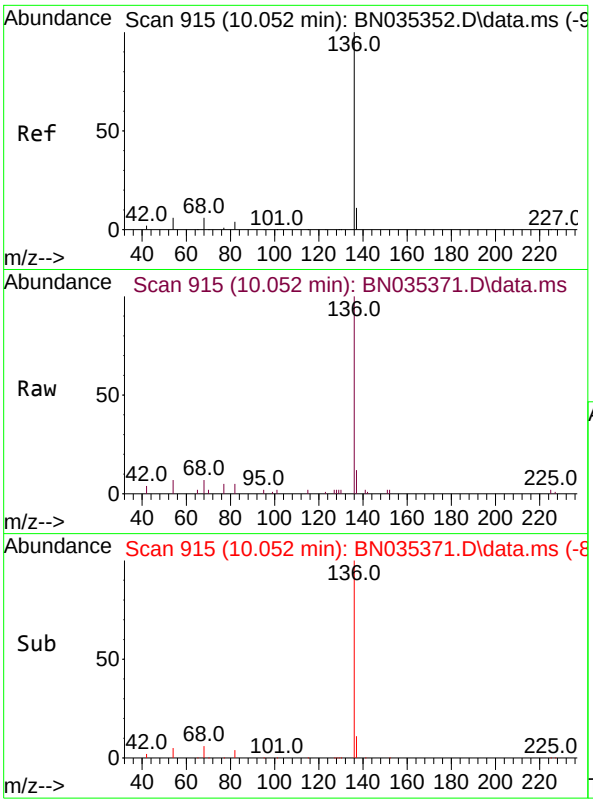


#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion: 93 Resp: 2213

Ion	Ratio	Lower	Upper
93	100		
63	64.2	50.4	75.6
95	32.2	25.7	38.5

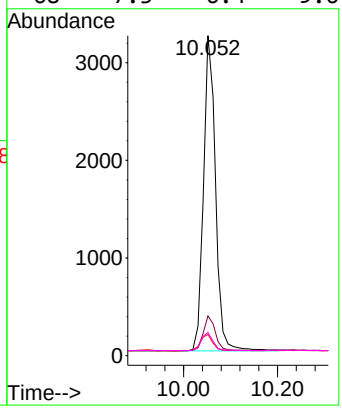




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:136 Resp: 572

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	6.7	6.1	9.1
68	7.3	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024
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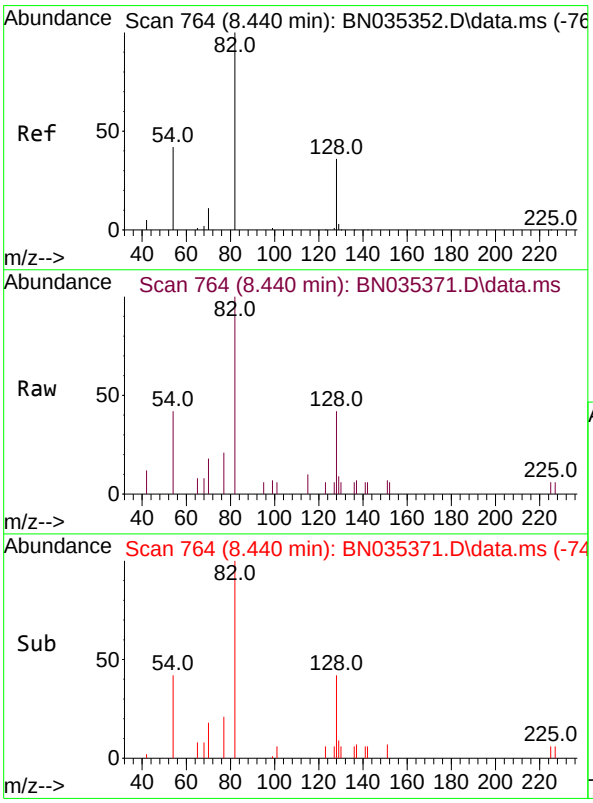
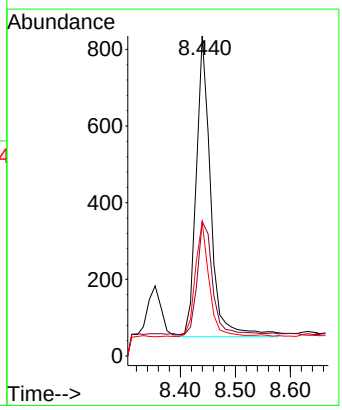
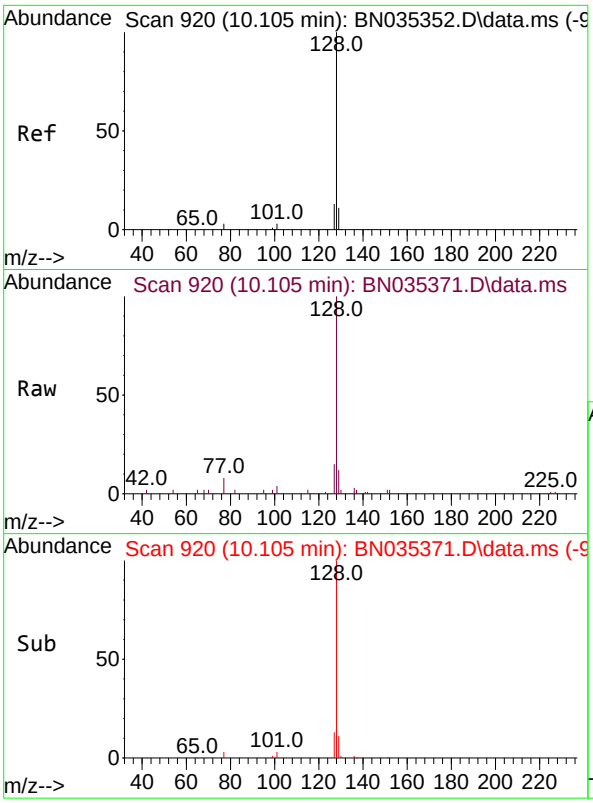


#8
Nitrobenzene-d5
Concen: 0.414 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion: 82 Resp: 1446

Ion	Ratio	Lower	Upper
82	100		
128	42.0	33.4	50.0
54	41.9	36.7	55.1

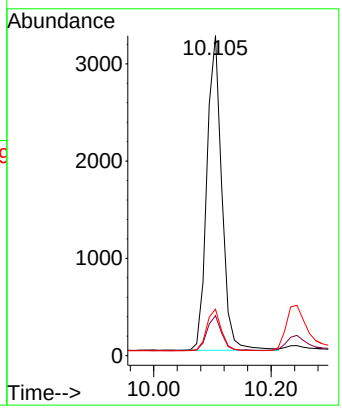




#9
Naphthalene
Concen: 0.377 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:128 Resp: 569

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.5	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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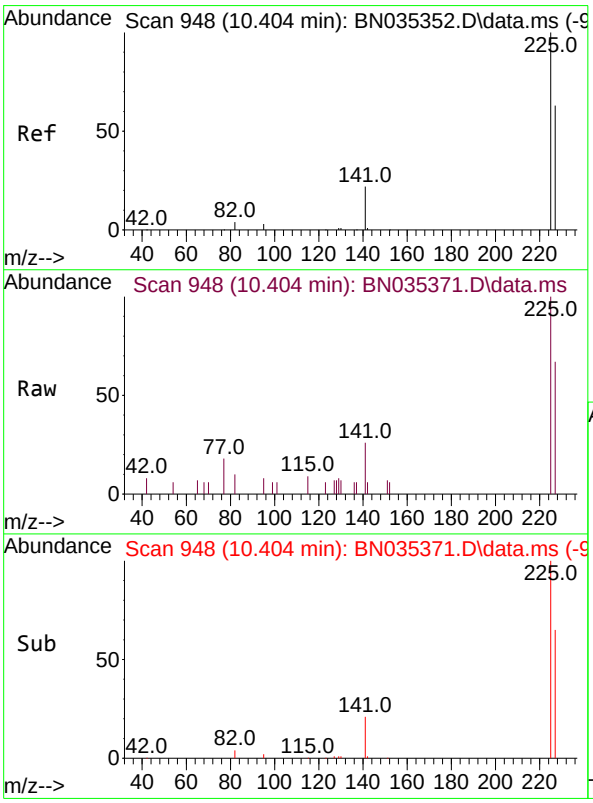
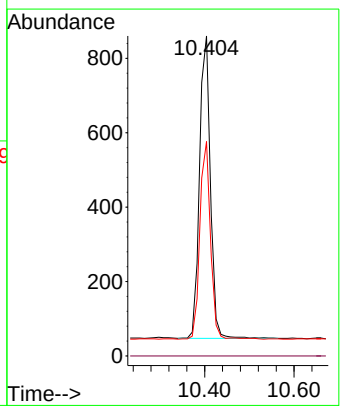
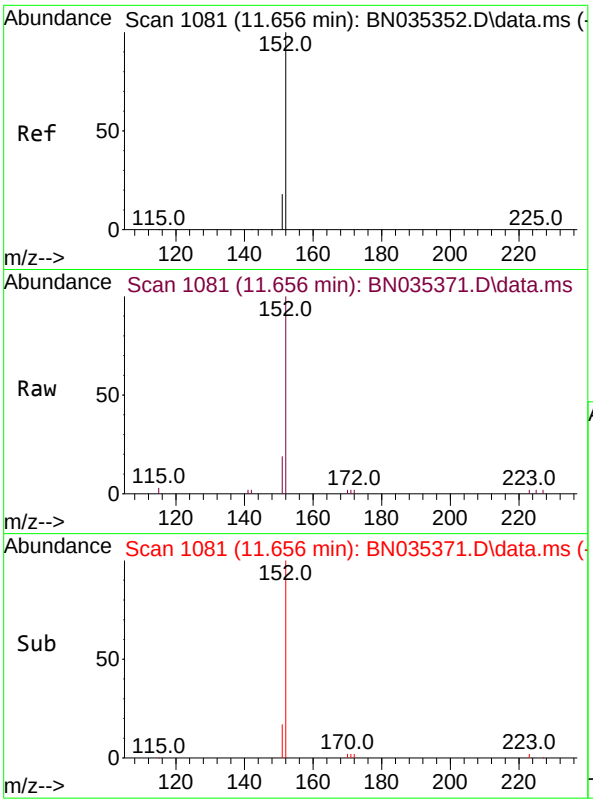


#10
Hexachlorobutadiene
Concen: 0.394 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:225 Resp: 1371

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.3	76.9

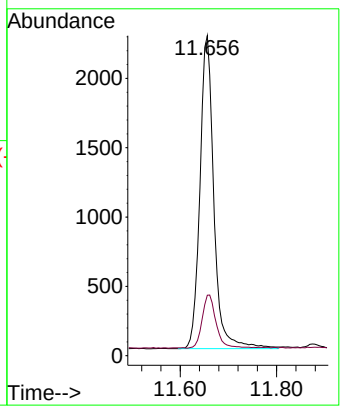




#11
2-Methylnaphthalene-d10
Concen: 0.507 ng
RT: 11.656 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:152 Resp: 454

Ion	Ratio	Lower	Upper
152	100		
151	16.9	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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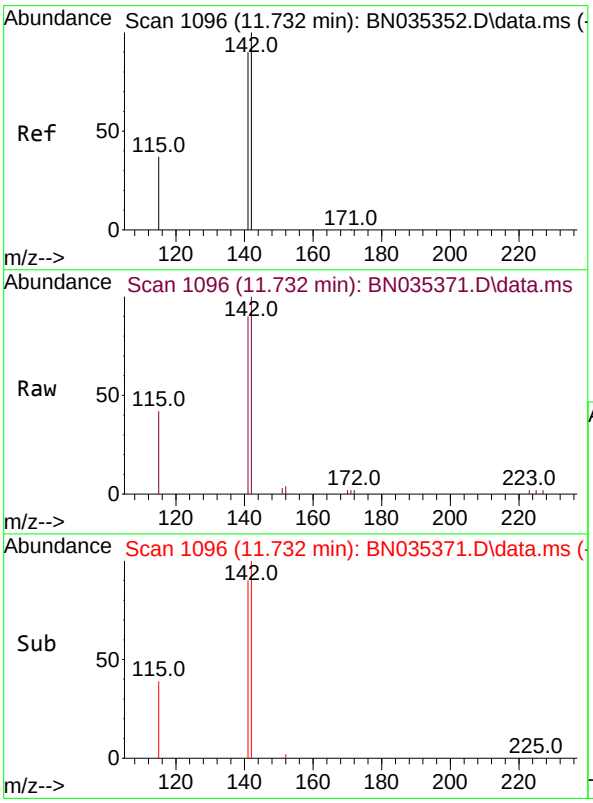
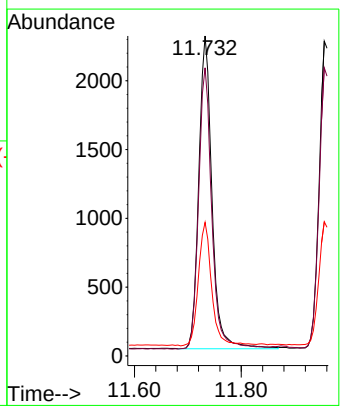
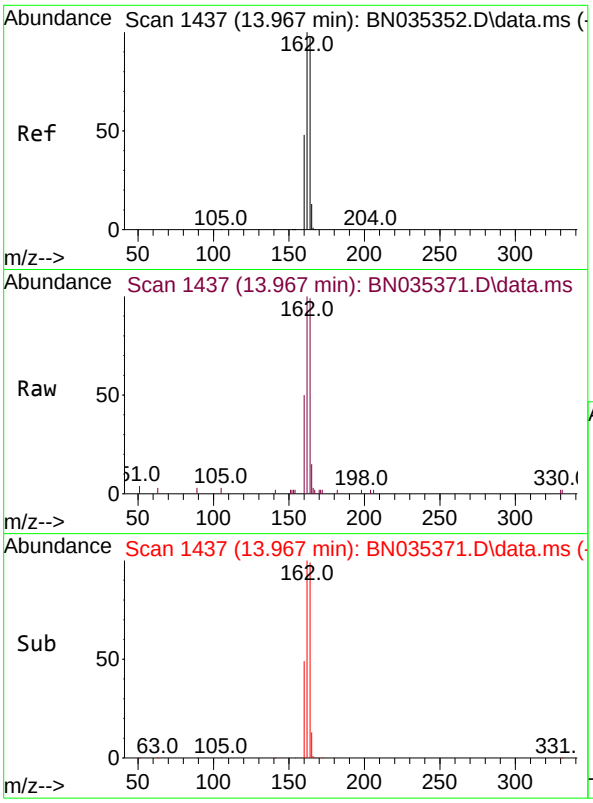


#12
2-Methylnaphthalene
Concen: 0.364 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:142 Resp: 3934

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.4
115	41.8	31.4	47.0

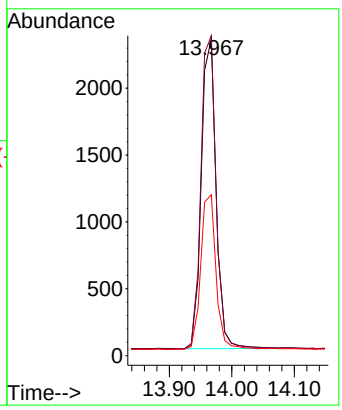




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:164 Resp: 380

Ion	Ratio	Lower	Upper
164	100		
162	101.0	82.2	123.2
160	50.8	40.1	60.1



Instrument :
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ClientSampleId :
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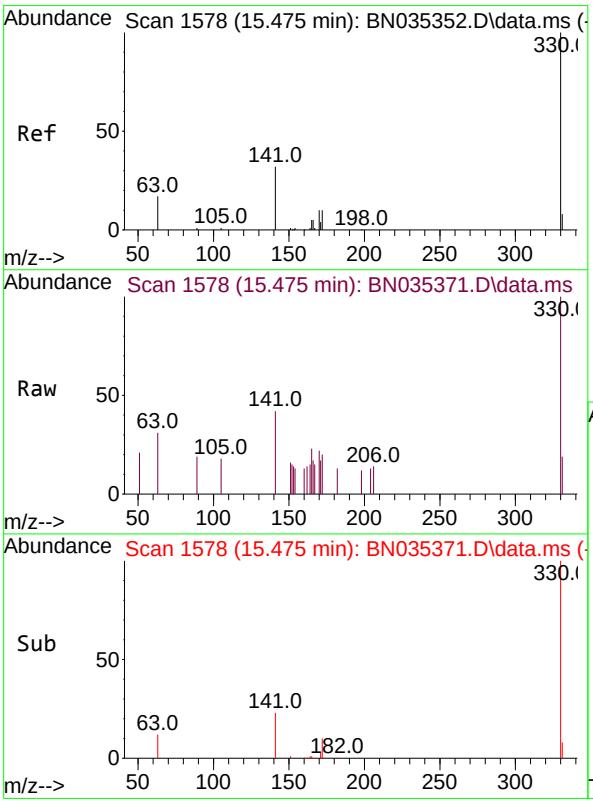
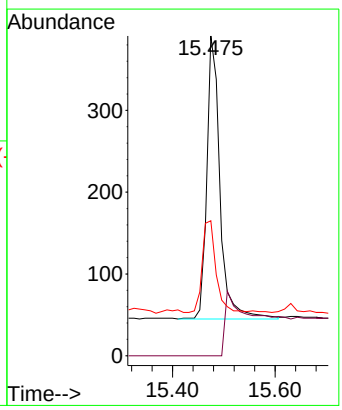
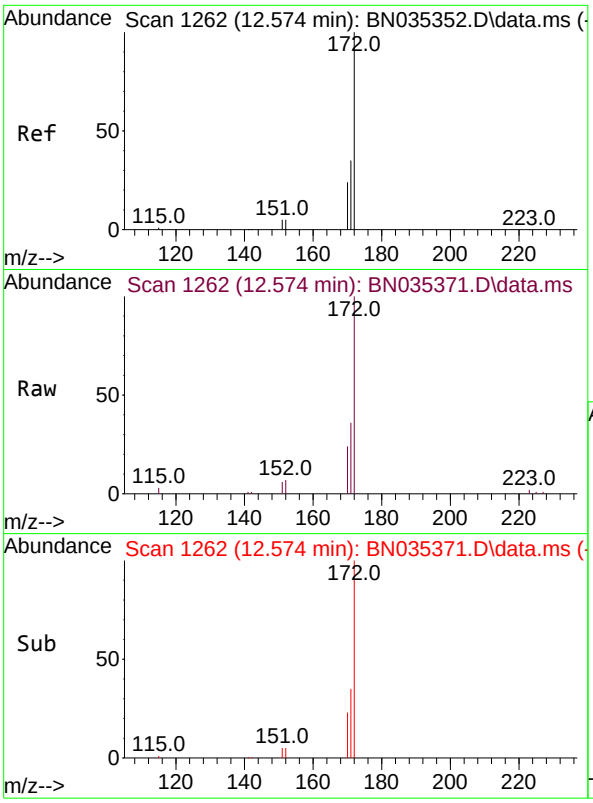


#14
2,4,6-Tribromophenol
Concen: 0.244 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:330 Resp: 658

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.0	26.6	40.0

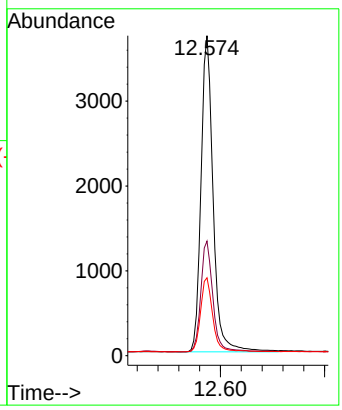




#15
2-Fluorobiphenyl
Concen: 0.418 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:172 Resp: 601

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	24.3	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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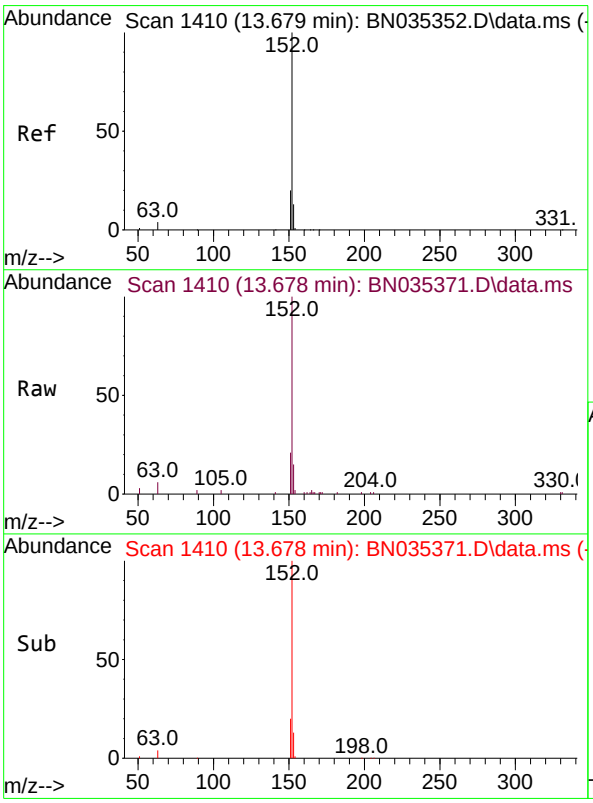
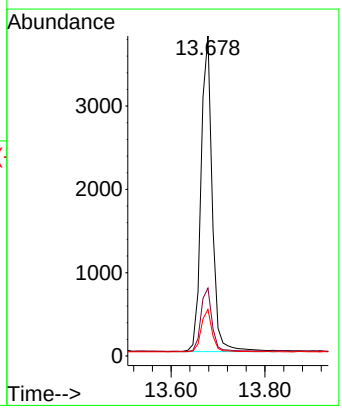
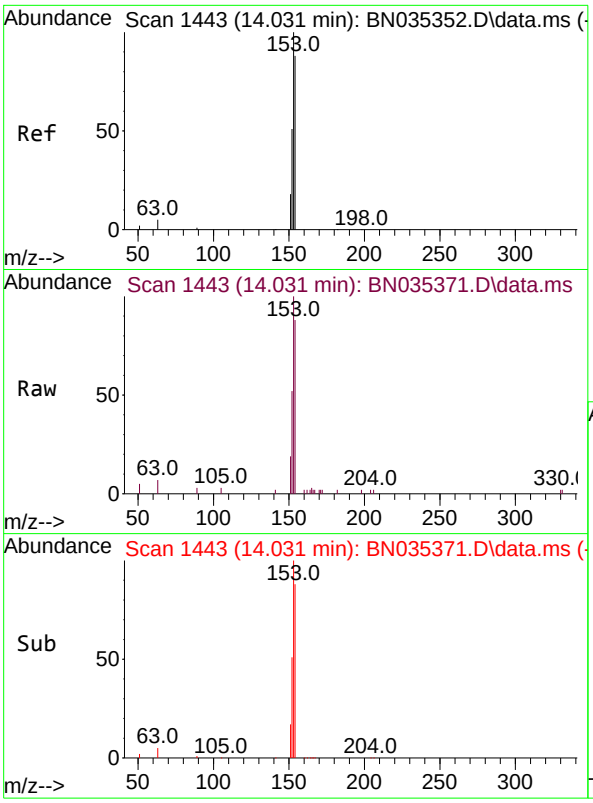


#16
Acenaphthylene
Concen: 0.394 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:152 Resp: 6299

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.1	10.4	15.6

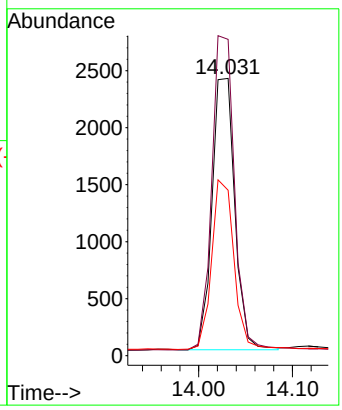




#17
Acenaphthene
Concen: 0.379 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:154 Resp: 401

Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	62.2	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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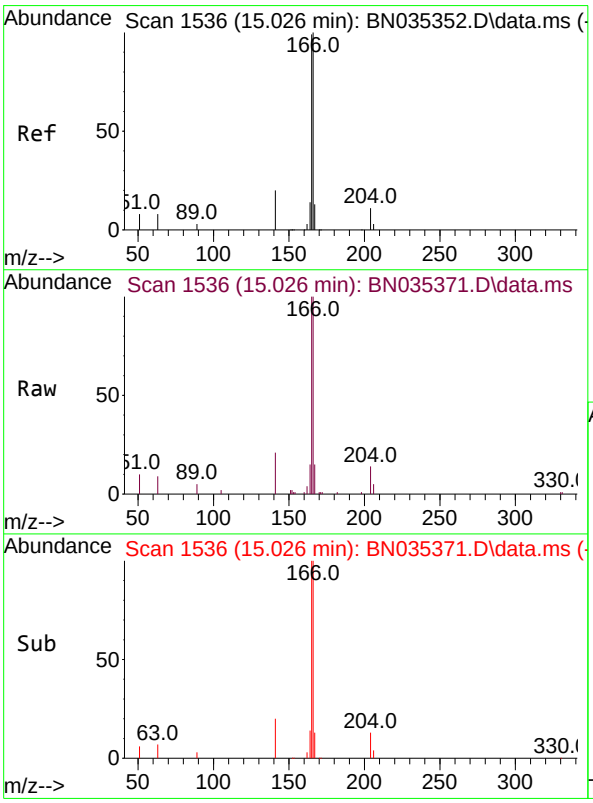
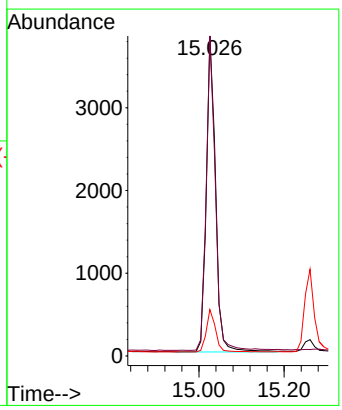
Supervised By :mohammad ahmed 11/29/2024

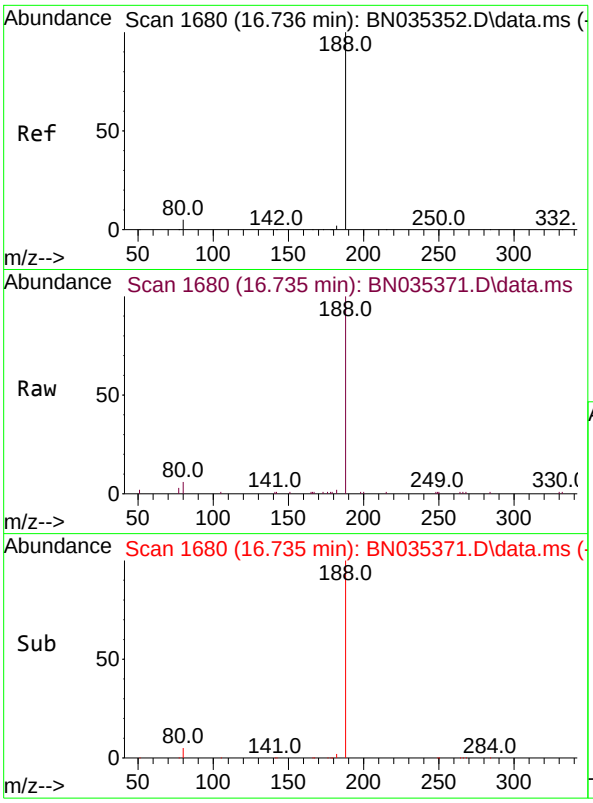


#18
Fluorene
Concen: 0.378 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:166 Resp: 5740

Ion	Ratio	Lower	Upper
166	100		
165	97.3	79.7	119.5
167	13.5	10.8	16.2

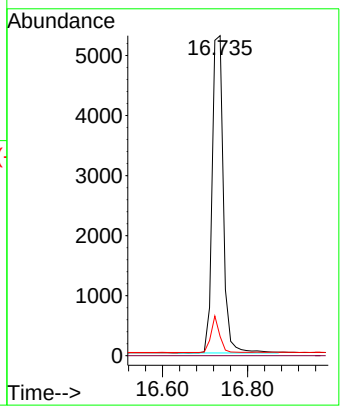




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:188 Resp: 956(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.0	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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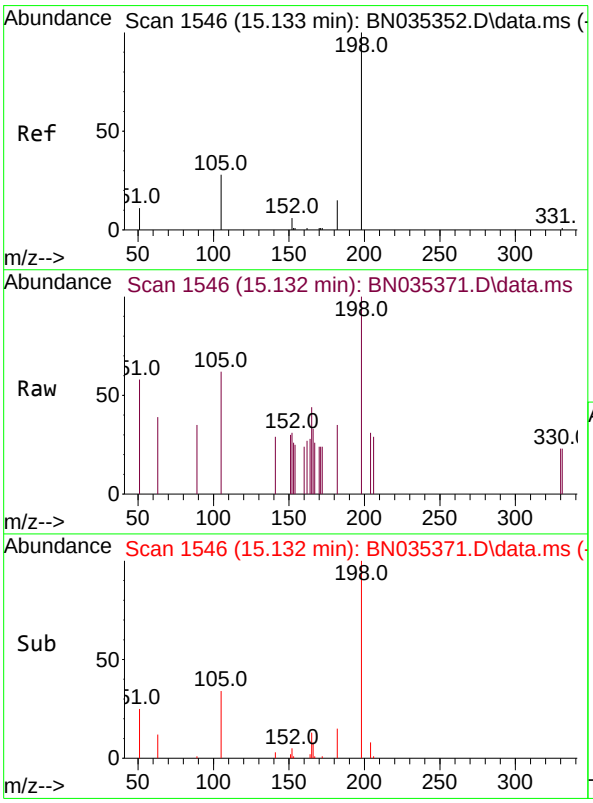
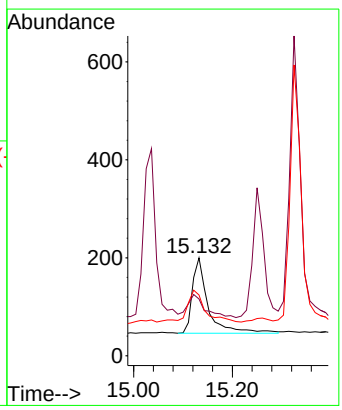
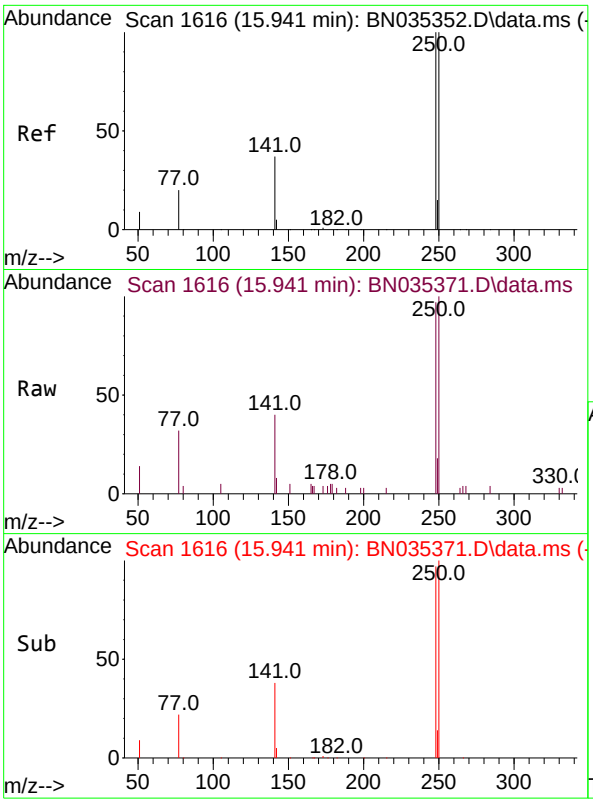


#20
4,6-Dinitro-2-methylphenol
Concen: 0.366 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:198 Resp: 344

Ion	Ratio	Lower	Upper
198	100		
51	58.0	46.5	69.7
105	62.0	45.3	67.9

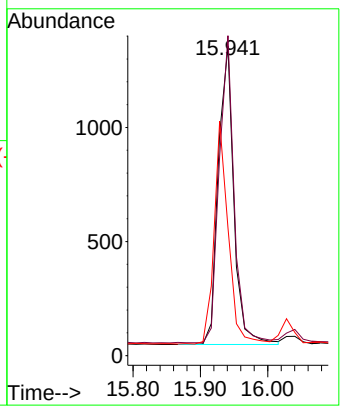




#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:248 Resp: 210

Ion	Ratio	Lower	Upper
248	100		
250	103.4	80.6	120.8
141	41.4	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
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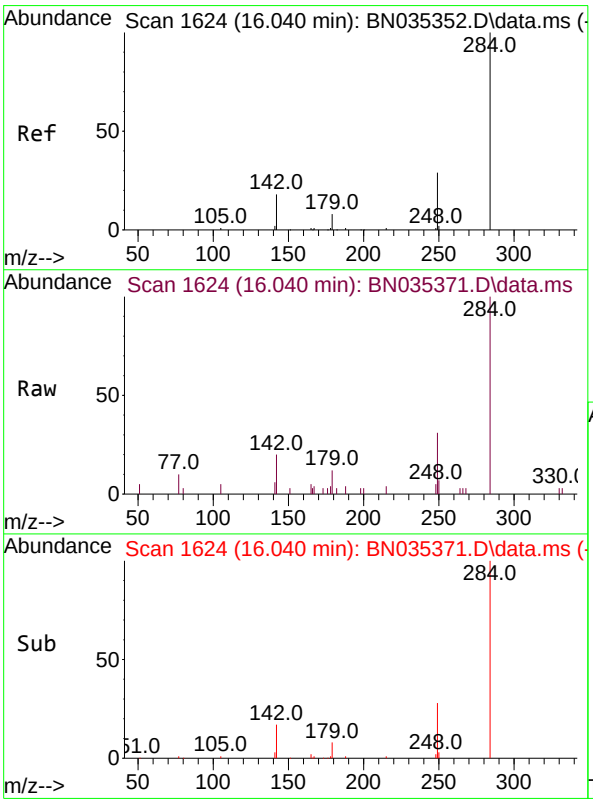
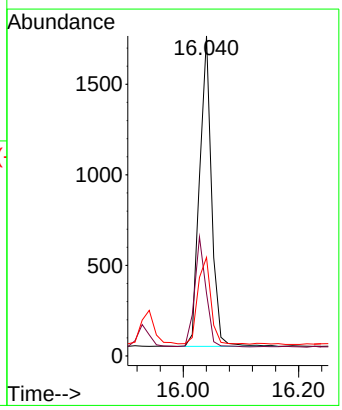
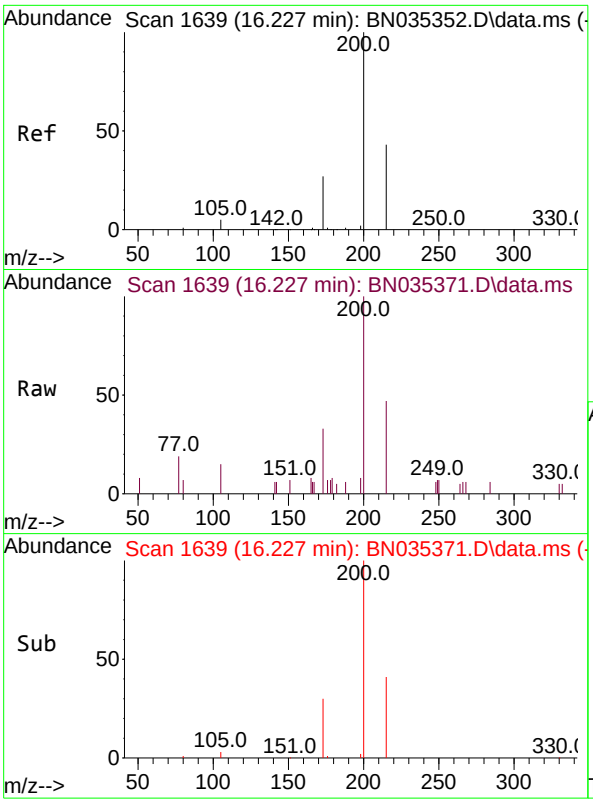


#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:284 Resp: 2466

Ion	Ratio	Lower	Upper
284	100		
142	34.3	26.7	40.1
249	30.7	24.6	36.8

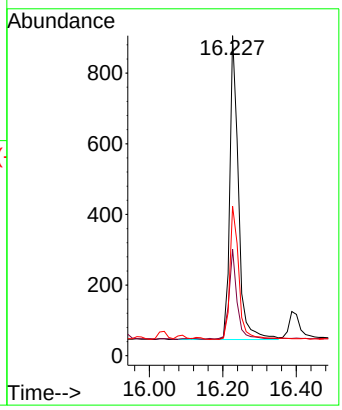




#23
Atrazine
Concen: 0.357 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:200 Resp: 142(

Ion	Ratio	Lower	Upper
200	100		
173	33.3	24.1	36.1
215	46.7	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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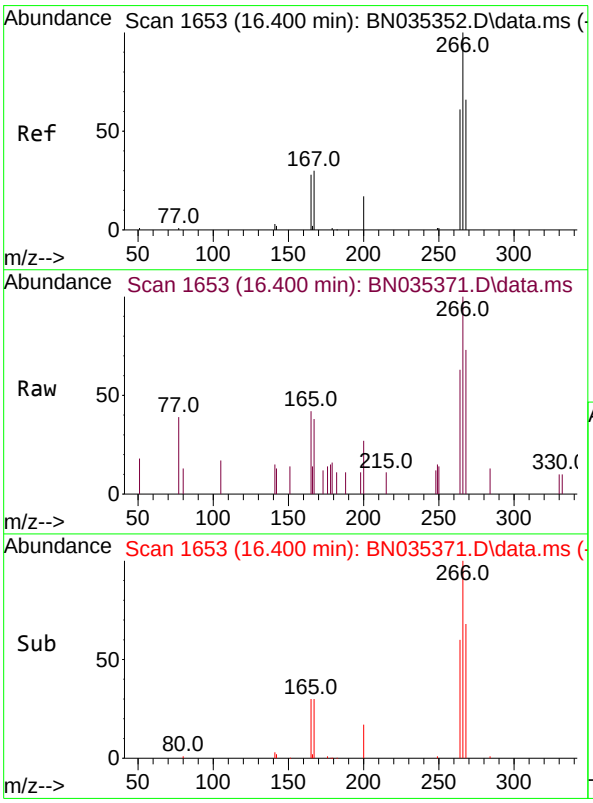
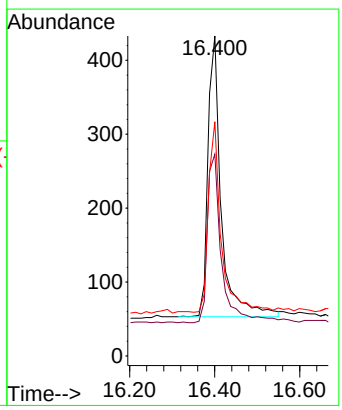
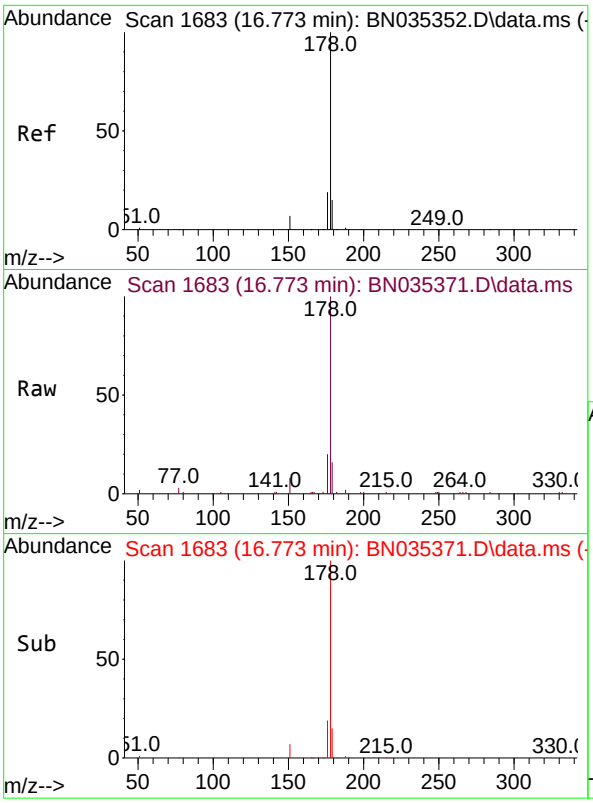


#24
Pentachlorophenol
Concen: 0.290 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:266 Resp: 828

Ion	Ratio	Lower	Upper
266	100		
264	63.5	42.3	63.5#
268	65.7	43.3	64.9#

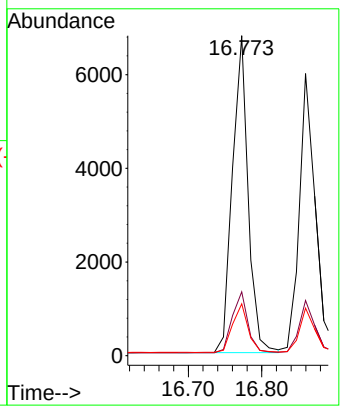




#25
Phenanthrene
Concen: 0.383 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:178 Resp: 1005

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
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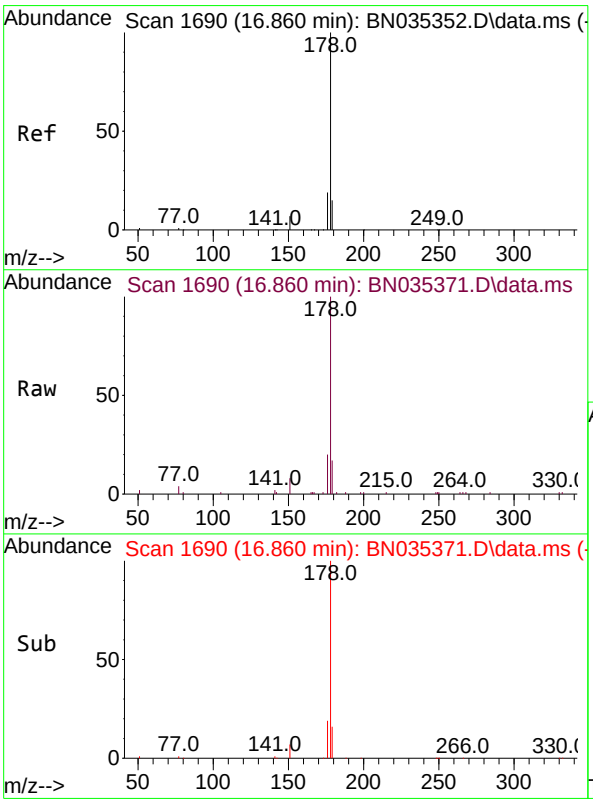
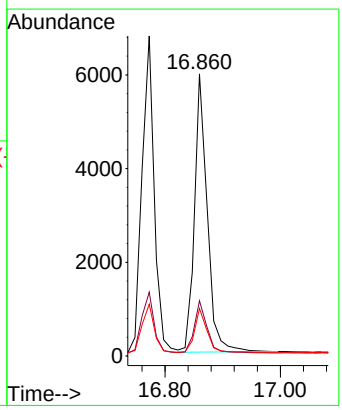
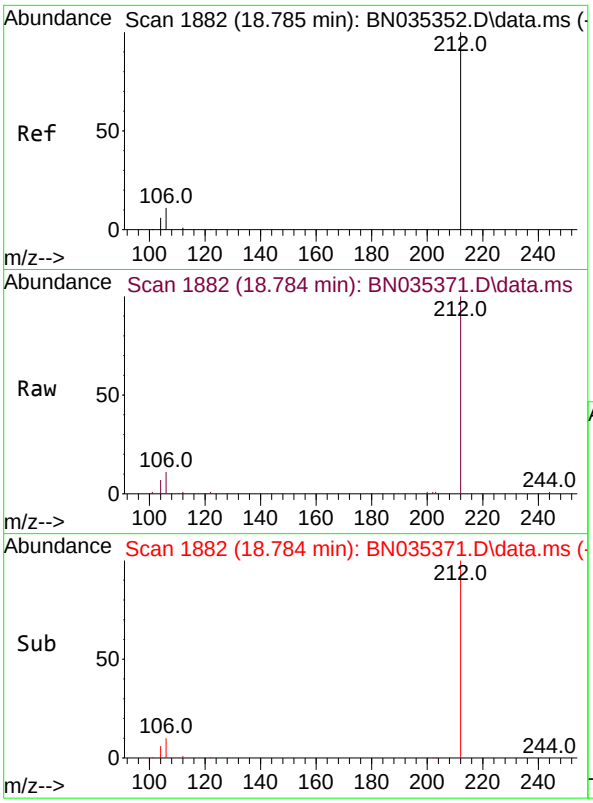


#26
Anthracene
Concen: 0.386 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:178 Resp: 9171

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.4	12.6	18.8

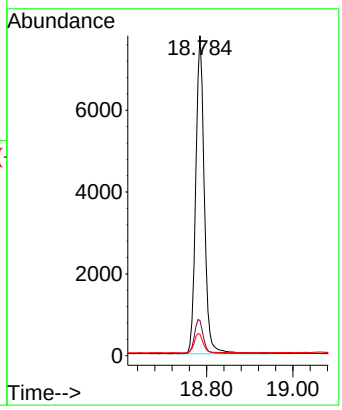




#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:212 Resp: 1071

Ion	Ratio	Lower	Upper
212	100		
106	10.9	9.2	13.8
104	6.3	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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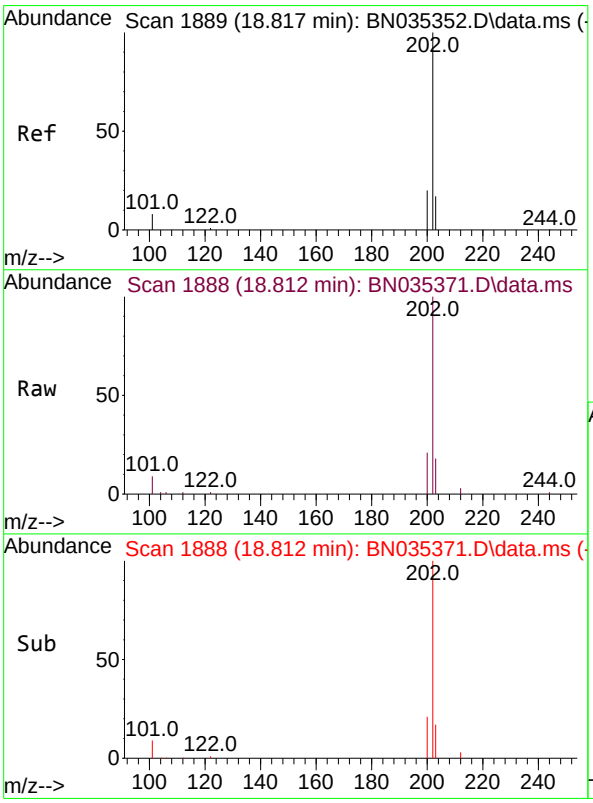
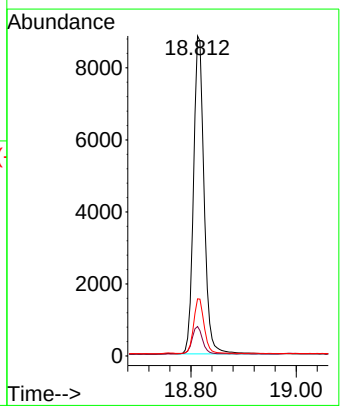
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

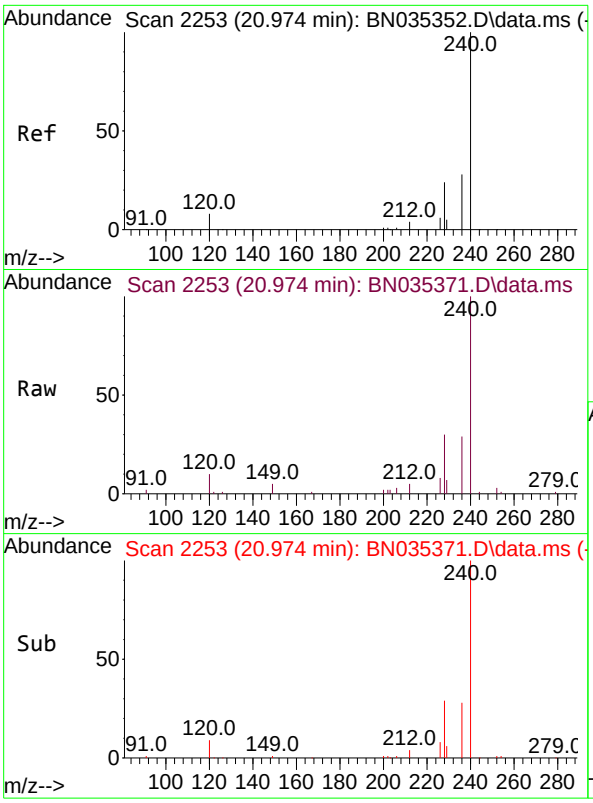


#28
Fluoranthene
Concen: 0.347 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:202 Resp: 12304

Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.4	11.0
203	17.0	13.7	20.5

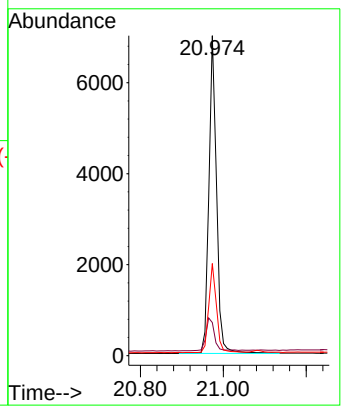




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:240 Resp: 894

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.9	11.9
236	28.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Manual Integrations
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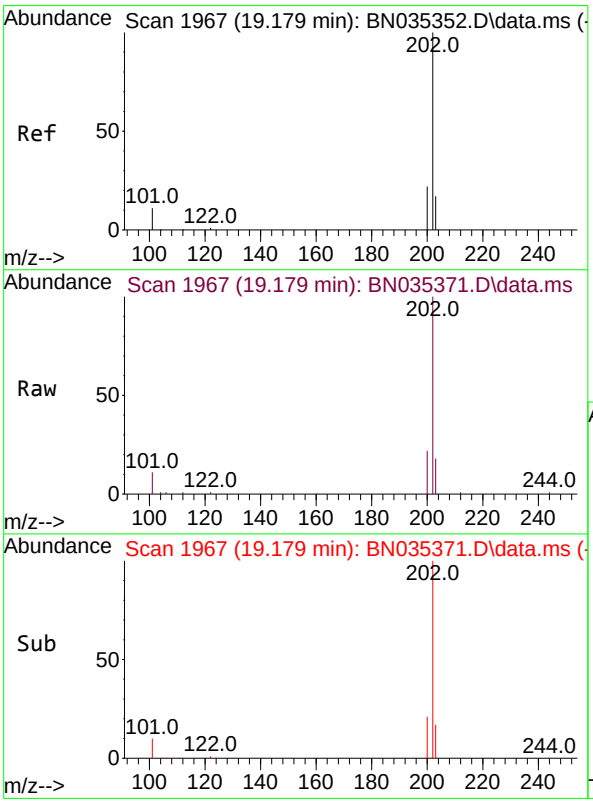
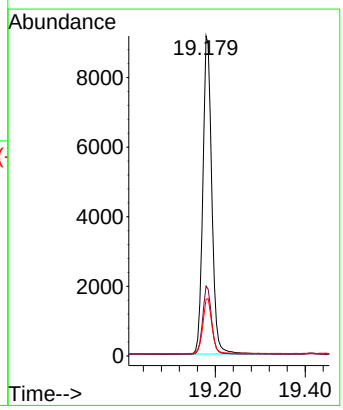
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

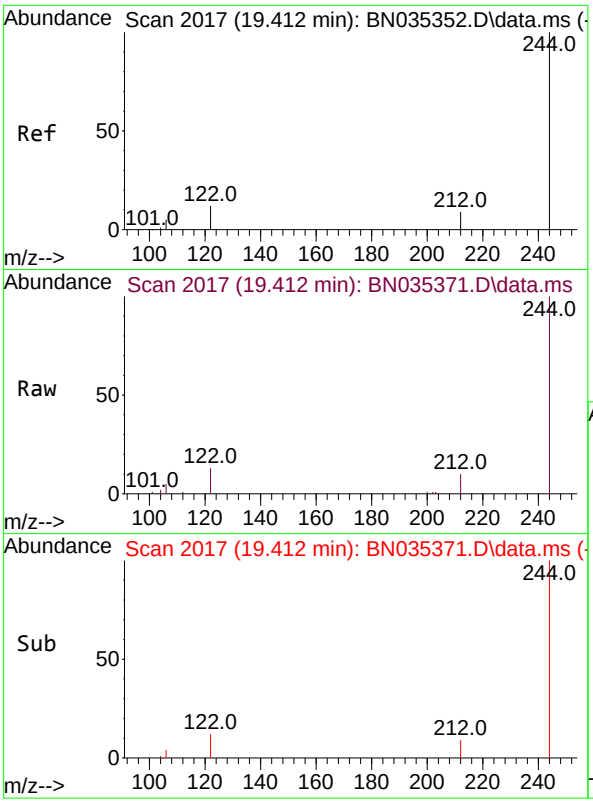


#30
Pyrene
Concen: 0.384 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:202 Resp: 12695

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.6	14.3	21.5

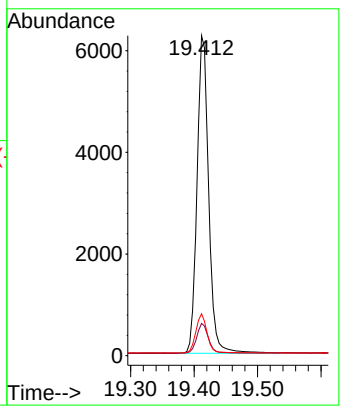




#31
Terphenyl-d14
Concen: 0.451 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:244 Resp: 795

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	13.1	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Manual Integrations
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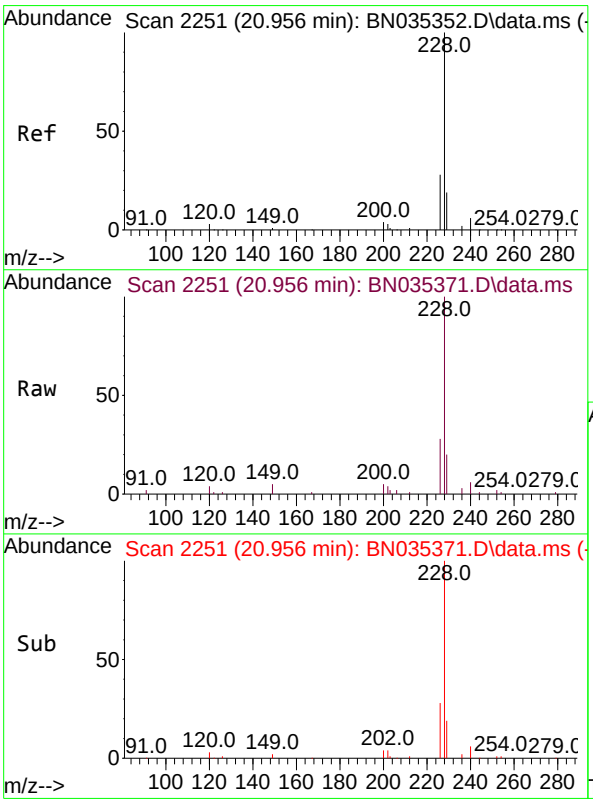
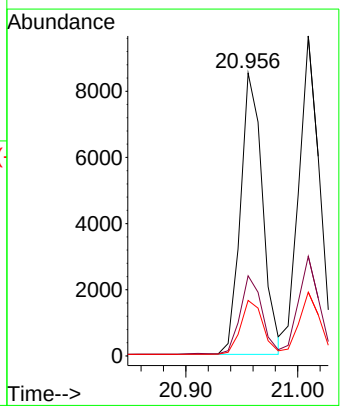
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

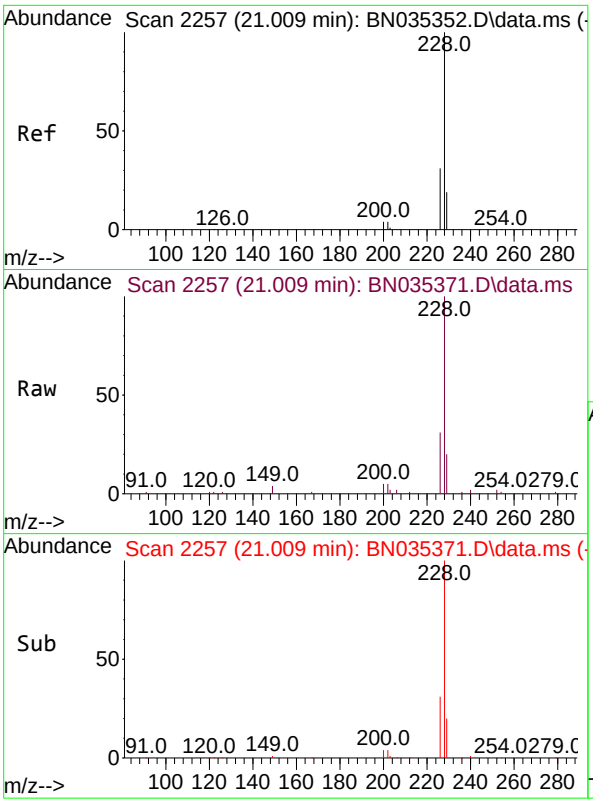


#32
Benzo(a)anthracene
Concen: 0.371 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:228 Resp: 11626

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	19.6	15.8	23.8

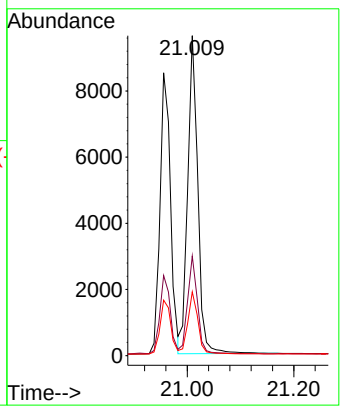




#33
Chrysene
Concen: 0.393 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:228 Resp: 1268

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	20.0	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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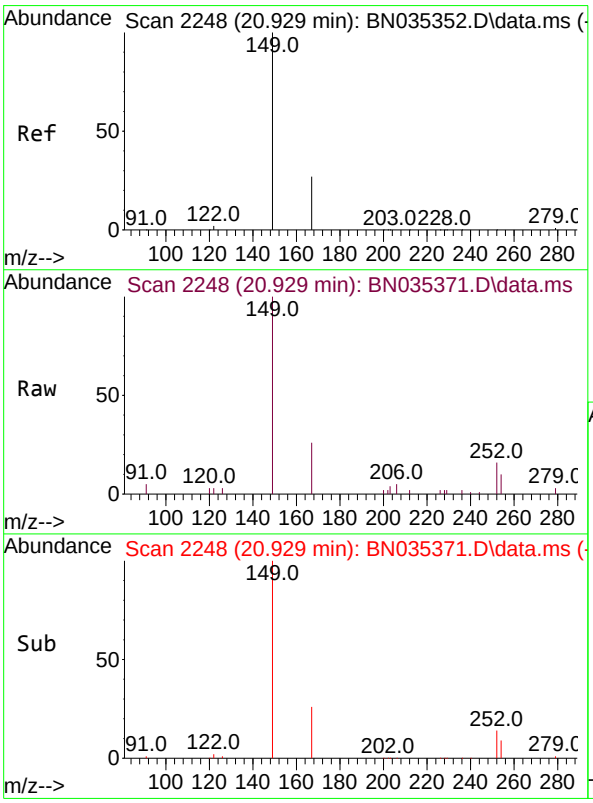
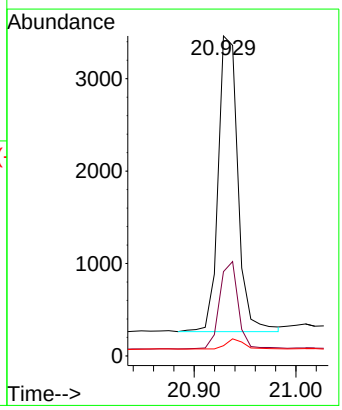
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

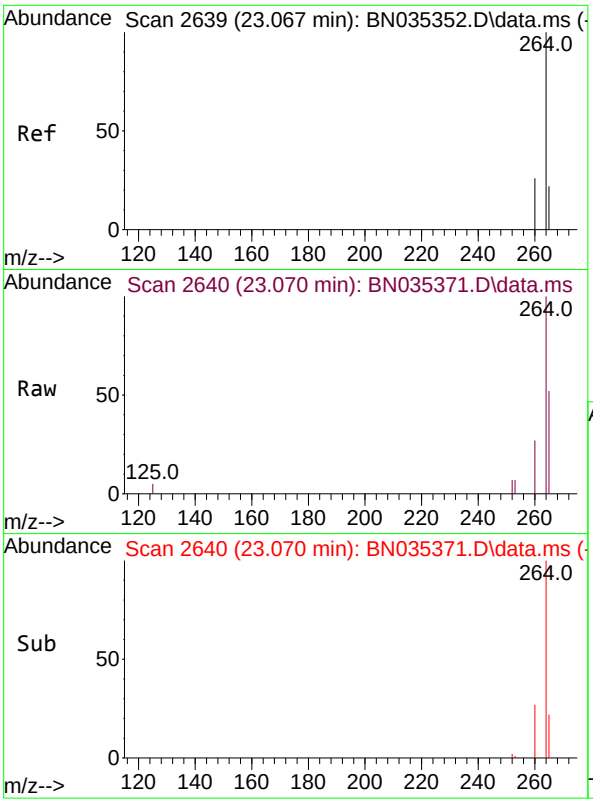


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.348 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:149 Resp: 4303

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	3.3	2.7	4.1

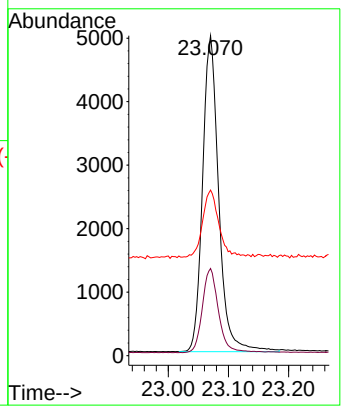




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:264 Resp: 928

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	51.7	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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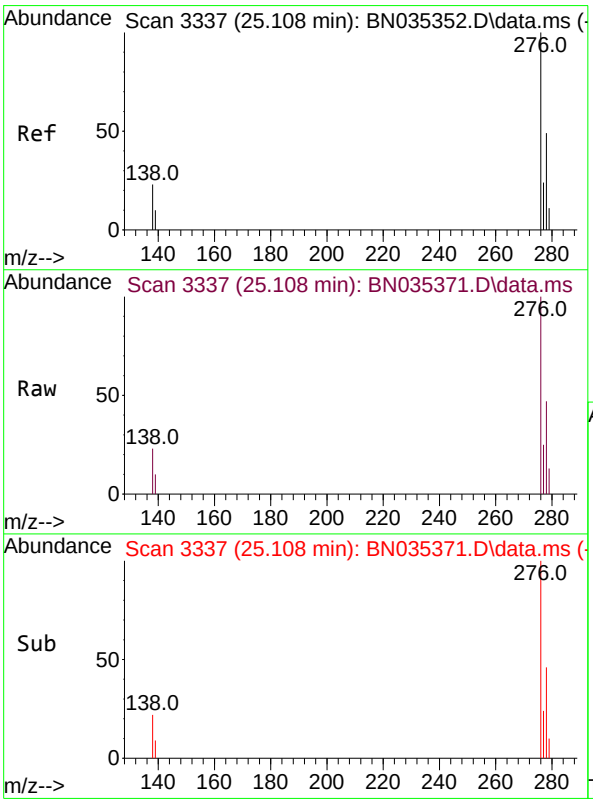
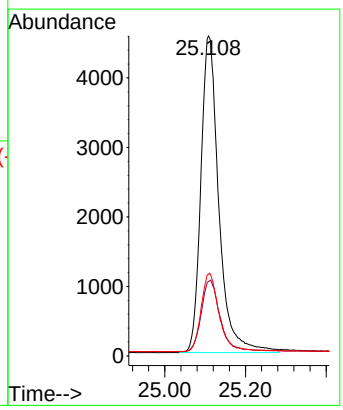
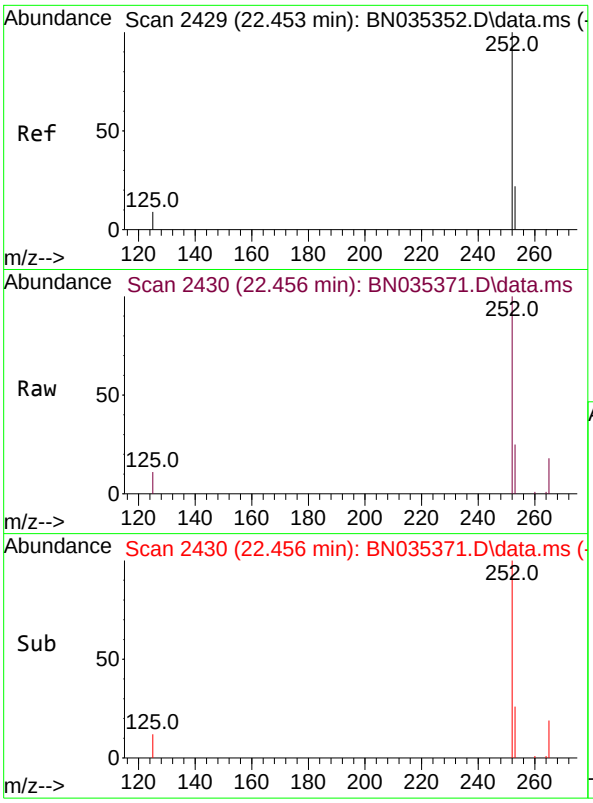


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:276 Resp: 14123

Ion	Ratio	Lower	Upper
276	100		
138	23.3	19.4	29.0
277	24.7	19.8	29.6

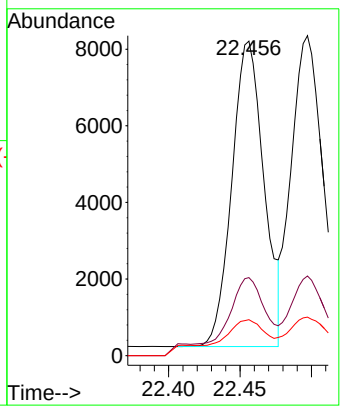




#37
Benzo(b)fluoranthene
Concen: 0.367 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:252 Resp: 1245

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.6	29.4
125	11.4	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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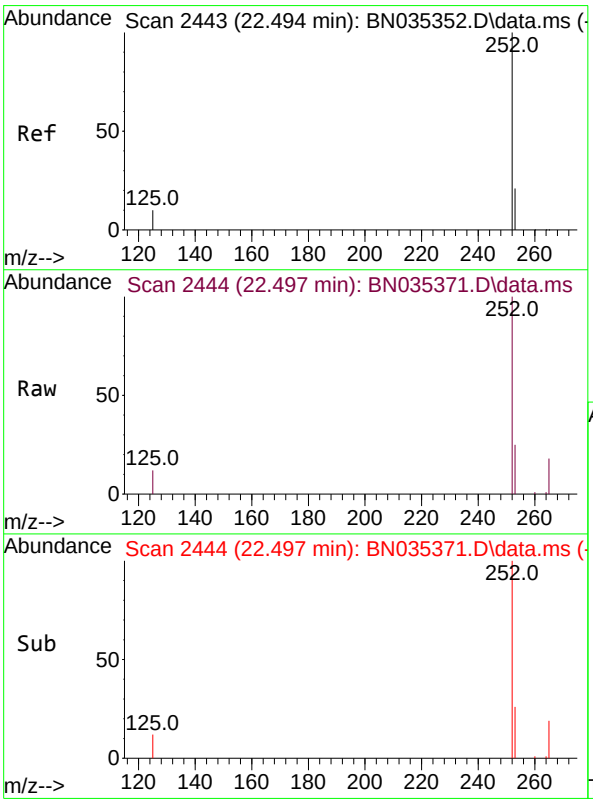
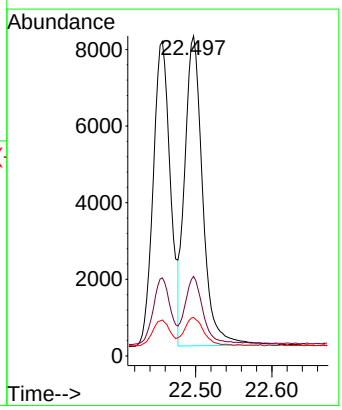
Supervised By :mohammad ahmed 11/29/2024

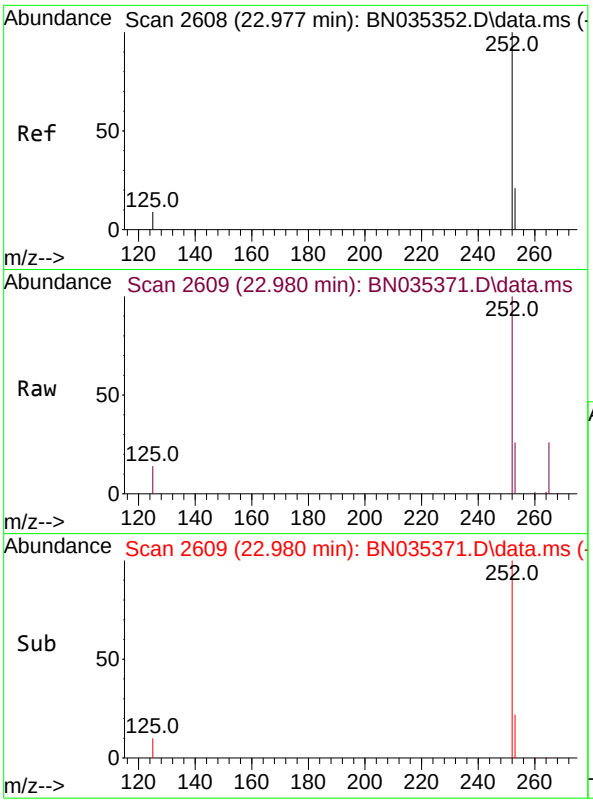


#38
Benzo(k)fluoranthene
Concen: 0.394 ng
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:252 Resp: 13182

Ion	Ratio	Lower	Upper
252	100		
253	24.9	19.5	29.3
125	12.1	10.2	15.4

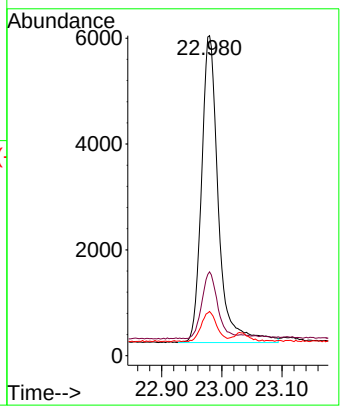




#39
Benzo(a)pyrene
Concen: 0.403 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:252 Resp: 1127

Ion	Ratio	Lower	Upper
252	100		
253	26.2	20.2	30.4
125	13.8	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

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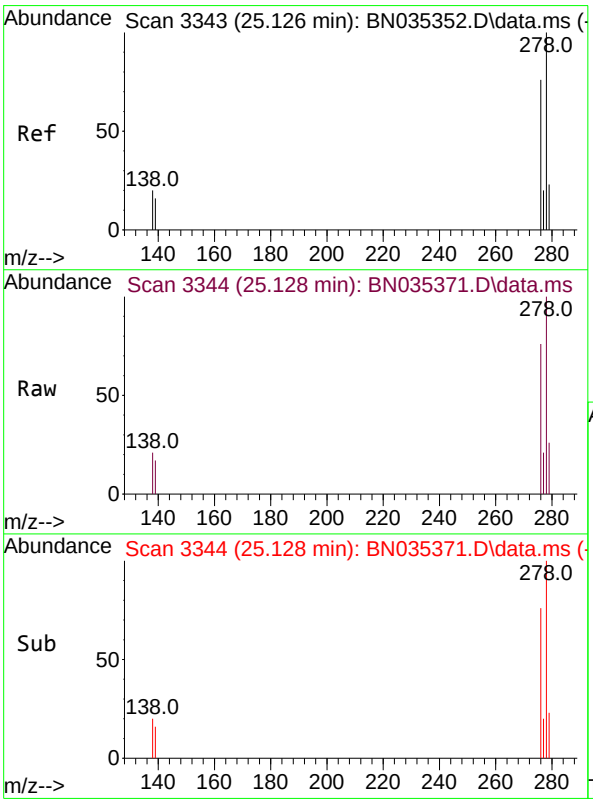
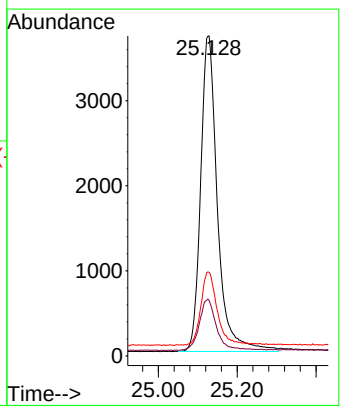
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

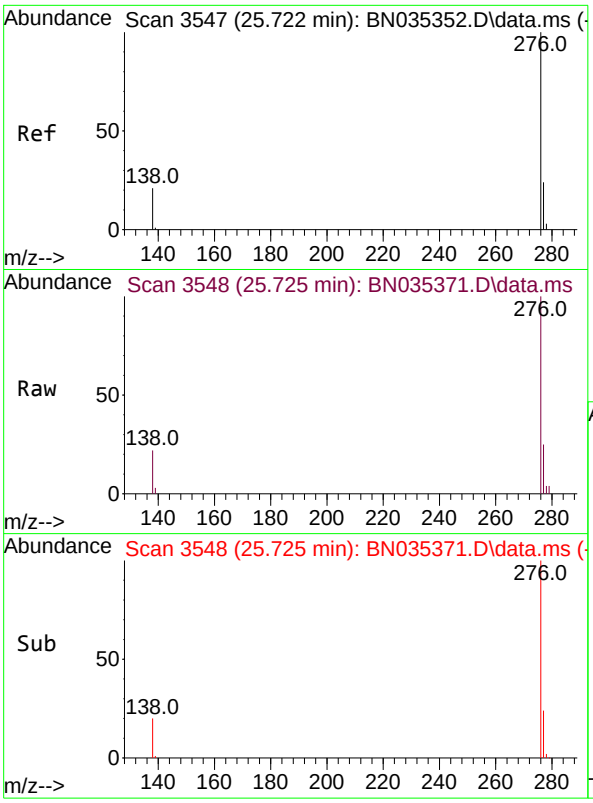


#40
Dibenzo(a,h)anthracene
Concen: 0.384 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:278 Resp: 10990

Ion	Ratio	Lower	Upper
278	100		
139	17.4	14.2	21.4
279	26.1	20.5	30.7

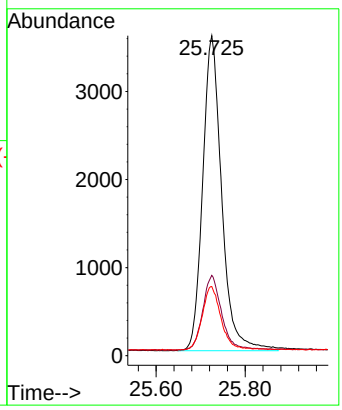




#41
Benzo(g,h,i)perylene
Concen: 0.355 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:276 Resp: 1060

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	21.6	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

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

Manual Integration Report

Sequence:	BN112524	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN035277.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:21 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
SSTDICC0.2	BN035278.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:22 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
SSTDICV0.4	BN035284.D	Fluoranthene-d10	yogesh	11/27/2024 5:29:23 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN035291.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:34 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN035293.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:52 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
P4959-02	BN035298.D	Nitrobenzene-d5	yogesh	11/27/2024 5:30:18 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
P4959-03	BN035299.D	Nitrobenzene-d5	yogesh	11/27/2024 5:30:20 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN035300.D	Nitrobenzene-d5	yogesh	11/27/2024 5:30:22 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN112724	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN035350.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.1	BN035350.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICCC0.4	BN035352.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:11 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICV0.4	BN035357.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:22 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035366.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:37 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035368.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:03 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
PB165198BL	BN035369.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:04 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
PB165198BS	BN035370.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:07 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
PB165198BSD	BN035371.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
P4959-01	BN035374.D	Nitrobenzene-d5	Jagrut	12/2/2024 11:34:17 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035375.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:17 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN112724	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112524

Review By	yogesh	Review On	11/27/2024 5:30:45 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:55 AM		
SubDirectory	BN112524	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035276.D	25 Nov 2024 09:37	RC/JU	Ok
2	SSTDICC0.1	BN035277.D	25 Nov 2024 10:16	RC/JU	Ok,M
3	SSTDICC0.2	BN035278.D	25 Nov 2024 10:52	RC/JU	Ok,M
4	SSTDICCC0.4	BN035279.D	25 Nov 2024 11:28	RC/JU	Ok
5	SSTDICC0.8	BN035280.D	25 Nov 2024 12:04	RC/JU	Ok
6	SSTDICC1.6	BN035281.D	25 Nov 2024 12:40	RC/JU	Ok
7	SSTDICC3.2	BN035282.D	25 Nov 2024 13:16	RC/JU	Ok
8	SSTDICC5.0	BN035283.D	25 Nov 2024 13:52	RC/JU	Ok
9	SSTDICV0.4	BN035284.D	25 Nov 2024 14:29	RC/JU	Ok,M
10	PB165150BL	BN035285.D	25 Nov 2024 15:44	RC/JU	Ok,M
11	P4934-02	BN035286.D	25 Nov 2024 16:20	RC/JU	Ok
12	P4934-05	BN035287.D	25 Nov 2024 16:56	RC/JU	Ok,M
13	P4934-06MS	BN035288.D	25 Nov 2024 17:32	RC/JU	Ok,M
14	P4934-07MSD	BN035289.D	25 Nov 2024 18:08	RC/JU	Ok,M
15	PB165150BS	BN035290.D	25 Nov 2024 18:44	RC/JU	Ok,M
16	SSTDCCC0.4	BN035291.D	25 Nov 2024 19:20	RC/JU	Ok,M
17	DFTPP	BN035292.D	25 Nov 2024 20:35	RC/JU	Ok
18	SSTDCCC0.4	BN035293.D	25 Nov 2024 23:02	RC/JU	Ok,M
19	PB165198BL	BN035294.D	25 Nov 2024 23:38	RC/JU	Ok,M
20	PB165198BS	BN035295.D	26 Nov 2024 00:14	RC/JU	Not Ok
21	PB165198BSD	BN035296.D	26 Nov 2024 00:50	RC/JU	Not Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112524

Review By	yogesh	Review On	11/27/2024 5:30:45 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:55 AM				
SubDirectory	BN112524	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112524		

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4959-01	BN035297.D	26 Nov 2024 01:26	RC/JU	ReRun
23	P4959-02	BN035298.D	26 Nov 2024 02:02	RC/JU	Ok,M
24	P4959-03	BN035299.D	26 Nov 2024 02:38	RC/JU	Ok,M
25	SSTDCCC0.4	BN035300.D	26 Nov 2024 03:14	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM		
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM		
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035349.D	27 Nov 2024 14:55	RC/JU	Ok
2	SSTDICC0.1	BN035350.D	27 Nov 2024 15:34	RC/JU	Ok,M
3	SSTDICC0.2	BN035351.D	27 Nov 2024 16:10	RC/JU	Ok,M
4	SSTDICCC0.4	BN035352.D	27 Nov 2024 16:46	RC/JU	Ok,M
5	SSTDICC0.8	BN035353.D	27 Nov 2024 17:21	RC/JU	Ok
6	SSTDICC1.6	BN035354.D	27 Nov 2024 17:57	RC/JU	Ok
7	SSTDICC3.2	BN035355.D	27 Nov 2024 18:33	RC/JU	Ok
8	SSTDICC5.0	BN035356.D	27 Nov 2024 19:09	RC/JU	Ok
9	SSTDICV0.4	BN035357.D	27 Nov 2024 20:21	RC/JU	Ok,M
10	PB165224BL	BN035358.D	27 Nov 2024 20:57	RC/JU	Ok,M
11	PB165266BL	BN035359.D	27 Nov 2024 21:32	RC/JU	Ok,M
12	PB165224BS	BN035360.D	27 Nov 2024 22:08	RC/JU	Ok,M
13	PB165224BSD	BN035361.D	27 Nov 2024 22:44	RC/JU	Ok,M
14	P4969-02	BN035362.D	27 Nov 2024 23:20	RC/JU	Ok,M
15	P4969-04	BN035363.D	27 Nov 2024 23:56	RC/JU	Ok,M
16	P5003-02	BN035364.D	28 Nov 2024 00:32	RC/JU	Ok,M
17	P5003-03	BN035365.D	28 Nov 2024 01:08	RC/JU	Ok,M
18	SSTDCCC0.4	BN035366.D	28 Nov 2024 02:20	RC/JU	Ok,M
19	DFTPP	BN035367.D	28 Nov 2024 03:35	RC/JU	Ok
20	SSTDCCC0.4	BN035368.D	28 Nov 2024 04:51	RC/JU	Ok,M
21	PB165198BL	BN035369.D	28 Nov 2024 05:27	RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM		
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM		
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB165198BS	BN035370.D	28 Nov 2024 06:03	RC/JU	Ok,M
23	PB165198BSD	BN035371.D	28 Nov 2024 06:39	RC/JU	Ok,M
24	PB165266BS	BN035372.D	28 Nov 2024 07:15	RC/JU	Ok,M
25	PB165266BSD	BN035373.D	28 Nov 2024 07:50	RC/JU	Ok,M
26	P4959-01	BN035374.D	28 Nov 2024 08:26	RC/JU	Ok,M
27	SSTDCCC0.4	BN035375.D	28 Nov 2024 09:02	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112524

Review By	yogesh	Review On	11/27/2024 5:30:45 AM	
Supervise By	mohammad	Supervise On	11/27/2024 6:04:55 AM	
SubDirectory	BN112524	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
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	BN035276.D	25 Nov 2024 09:37		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035277.D	25 Nov 2024 10:16	Compound #3,20,24,34 removed from 0.1ppm	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN035278.D	25 Nov 2024 10:52	Compound #20 Kept on LR	RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN035279.D	25 Nov 2024 11:28	This calibration is used for Only 1-4 Dioxane DOD Sample	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN035280.D	25 Nov 2024 12:04		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035281.D	25 Nov 2024 12:40		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN035282.D	25 Nov 2024 13:16		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN035283.D	25 Nov 2024 13:52	Compound #20,24,30,34 removed from 5.0ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN112524	BN035284.D	25 Nov 2024 14:29		RC/JU	Ok,M
10	PB165150BL	PB165150BL	BN035285.D	25 Nov 2024 15:44		RC/JU	Ok,M
11	P4934-02	BPOW6-11-20241118	BN035286.D	25 Nov 2024 16:20		RC/JU	Ok
12	P4934-05	BPOW6-10-20241119	BN035287.D	25 Nov 2024 16:56		RC/JU	Ok,M
13	P4934-06MS	BPOW6-10-20241119M	BN035288.D	25 Nov 2024 17:32		RC/JU	Ok,M
14	P4934-07MSD	BPOW6-10-20241119M	BN035289.D	25 Nov 2024 18:08		RC/JU	Ok,M
15	PB165150BS	PB165150BS	BN035290.D	25 Nov 2024 18:44		RC/JU	Ok,M
16	SSTDCCC0.4	SSTDCCC0.4EC	BN035291.D	25 Nov 2024 19:20		RC/JU	Ok,M
17	DFTPP	DFTPP	BN035292.D	25 Nov 2024 20:35		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112524

Review By	yogesh	Review On	11/27/2024 5:30:45 AM	
Supervise By	mohammad	Supervise On	11/27/2024 6:04:55 AM	
SubDirectory	BN112524	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	SSTDCCC0.4	SSTDCCC0.4	BN035293.D	25 Nov 2024 23:02	CCC Fail high side for compound #2	RC/JU	Ok,M
19	PB165198BL	PB165198BL	BN035294.D	25 Nov 2024 23:38		RC/JU	Ok,M
20	PB165198BS	PB165198BS	BN035295.D	26 Nov 2024 00:14	CCC fail high side for compound #2	RC/JU	Not Ok
21	PB165198BSD	PB165198BSD	BN035296.D	26 Nov 2024 00:50	CCC fail high side for compound #2	RC/JU	Not Ok
22	P4959-01	RW5-SP100-20241121	BN035297.D	26 Nov 2024 01:26	Need 5X Dilution, CCC fail high side for compound #2	RC/JU	ReRun
23	P4959-02	RW5-SP201-20241121	BN035298.D	26 Nov 2024 02:02		RC/JU	Ok,M
24	P4959-03	RW5-SP303-20241121	BN035299.D	26 Nov 2024 02:38		RC/JU	Ok,M
25	SSTDCCC0.4	SSTDCCC0.4EC	BN035300.D	26 Nov 2024 03:14		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM	
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM	
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035349.D	27 Nov 2024 14:55		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035350.D	27 Nov 2024 15:34		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN035351.D	27 Nov 2024 16:10		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN035352.D	27 Nov 2024 16:46	This Calibration is Good For DOD	RC/JU	Ok,M
5	SSTDICC0.8	SSTDICC0.8	BN035353.D	27 Nov 2024 17:21		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035354.D	27 Nov 2024 17:57		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN035355.D	27 Nov 2024 18:33	Compound #20 removed from 3.2ppm	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN035356.D	27 Nov 2024 19:09	Compound #20 removed from 5.0ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN112724	BN035357.D	27 Nov 2024 20:21		RC/JU	Ok,M
10	PB165224BL	PB165224BL	BN035358.D	27 Nov 2024 20:57		RC/JU	Ok,M
11	PB165266BL	PB165266BL	BN035359.D	27 Nov 2024 21:32		RC/JU	Ok,M
12	PB165224BS	PB165224BS	BN035360.D	27 Nov 2024 22:08		RC/JU	Ok,M
13	PB165224BSD	PB165224BSD	BN035361.D	27 Nov 2024 22:44		RC/JU	Ok,M
14	P4969-02	TOWER-1	BN035362.D	27 Nov 2024 23:20		RC/JU	Ok,M
15	P4969-04	TOWER-2	BN035363.D	27 Nov 2024 23:56		RC/JU	Ok,M
16	P5003-02	RW-10A-HYD-2024112	BN035364.D	28 Nov 2024 00:32		RC/JU	Ok,M
17	P5003-03	RW-10A-HYD-2024112	BN035365.D	28 Nov 2024 01:08		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM	
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM	
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	SSTDCCC0.4	SSTDCCC0.4EC	BN035366.D	28 Nov 2024 02:20		RC/JU	Ok,M
19	DFTPP	DFTPP	BN035367.D	28 Nov 2024 03:35		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN035368.D	28 Nov 2024 04:51		RC/JU	Ok,M
21	PB165198BL	PB165198BL	BN035369.D	28 Nov 2024 05:27		RC/JU	Ok,M
22	PB165198BS	PB165198BS	BN035370.D	28 Nov 2024 06:03		RC/JU	Ok,M
23	PB165198BSD	PB165198BSD	BN035371.D	28 Nov 2024 06:39		RC/JU	Ok,M
24	PB165266BS	PB165266BS	BN035372.D	28 Nov 2024 07:15		RC/JU	Ok,M
25	PB165266BSD	PB165266BSD	BN035373.D	28 Nov 2024 07:50		RC/JU	Ok,M
26	P4959-01	RW5-SP100-20241121	BN035374.D	28 Nov 2024 08:26		RC/JU	Ok,M
27	SSTDCCC0.4	SSTDCCC0.4EC	BN035375.D	28 Nov 2024 09:02		RC/JU	Ok,M

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : P4959

Test : SVOC-SIMGroup1

Prepbatch ID : PB165198,

Sequence ID/Qc Batch ID: BN112524,BN112724,

Standard ID :
EP2559,EP2562,EP2565,SP6527,SP6547,SP6548,SP6573,SP6606,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3746,E3759,E3768,E3788,E3791,E3817,E3818,E3828,M5173,S10103,S10247,S10782,S10977,S11003,S11011,S11074,S11097,S11494,S11566,S11766,S11771,S11831,S12029,S12077,S12079,S12096,S12105,S12113,S12117,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453,S12469,S12517,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2562	11/14/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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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	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 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
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3492	8270-SIM-Spike 0.4 PPM	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 08/21/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11771 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 + 99.85840ml of E3788 = Final Quantity: 100.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6629	09/12/2024	03/04/2025	Jagrut Upadhyay	None	None	Yogesh Patel 10/14/2024

FROM 0.10000ml of S12314 + 4.90000ml of E3791 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3339	8270 sim calibration stock 10ppm (CPI)	SP6656	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = 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	SP6657	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = 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	SP6658	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.68000ml of E3817 + 0.01000ml of SP6629 + 0.32000ml of SP6656 = 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	SP6659	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.84000ml of E3817 + 0.01000ml of SP6629 + 0.16000ml of SP6656 = 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	SP6660	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.92000ml of E3817 + 0.01000ml of SP6629 + 0.08000ml of SP6656 = 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	SP6661	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.96000ml of E3817 + 0.01000ml of SP6629 + 0.04000ml of SP6656 = 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	SP6662	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6661 = 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	SP6663	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.75000ml of E3817 + 0.01000ml of SP6629 + 0.25000ml of SP6661 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3491	8270-SIM-Surrogate 0.4 PPM	SP6666	10/29/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.00800ml of S12189 + 0.01600ml of S12207 + 0.04000ml of S11831 + 199.93600ml of E3818 = Final Quantity: 200.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

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	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = 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
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = 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	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

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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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

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)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

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)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

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)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

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)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

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

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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	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

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	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

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	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [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	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

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	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

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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	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 #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

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

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	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

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

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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	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	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

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	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

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	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

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	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

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	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

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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	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	03/04/2025	09/04/2024 / anahy	05/30/2024 / Rahul	S12314

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	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

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]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

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]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

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]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

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

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Santa Rosa, CA 95403

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(800)878-7654 Toll Free
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Manufacturer's Quality System
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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
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S9236
to
S9240

*Not a certified value

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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

5580 Skylane Blvd
Santa Rosa, CA 95403

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

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~~S11097~~ S11096 to S11099

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-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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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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.

Received on 03/08/22 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	1,003.6 µg/mL	+/- 5.8897 µg/mL	Gravimetric
	CAS # 87-86-5 (Lot 211229RSR)		+/- 45.7132 µg/mL	Unstressed
	Purity 99%		+/- 66.0037 µg/mL	Stressed
2	DFTPP (Decafluorotriphenylphosphine)	1,006.6 µg/mL	+/- 5.9074 µg/mL	Gravimetric
	CAS # 5074-71-5 (Lot Q117-147)		+/- 45.8508 µg/mL	Unstressed
	Purity 95%		+/- 66.2023 µg/mL	Stressed
3	Benzidine	1,008.4 µg/mL	+/- 5.9179 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 211228JLM)		+/- 45.9318 µg/mL	Unstressed
	Purity 99%		+/- 66.3193 µg/mL	Stressed
4	4,4'-DDT	1,007.6 µg/mL	+/- 5.9132 µg/mL	Gravimetric
	CAS # 50-29-3 (Lot 210916JLM)		+/- 45.8954 µg/mL	Unstressed
	Purity 99%		+/- 66.2667 µg/mL	Stressed

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

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

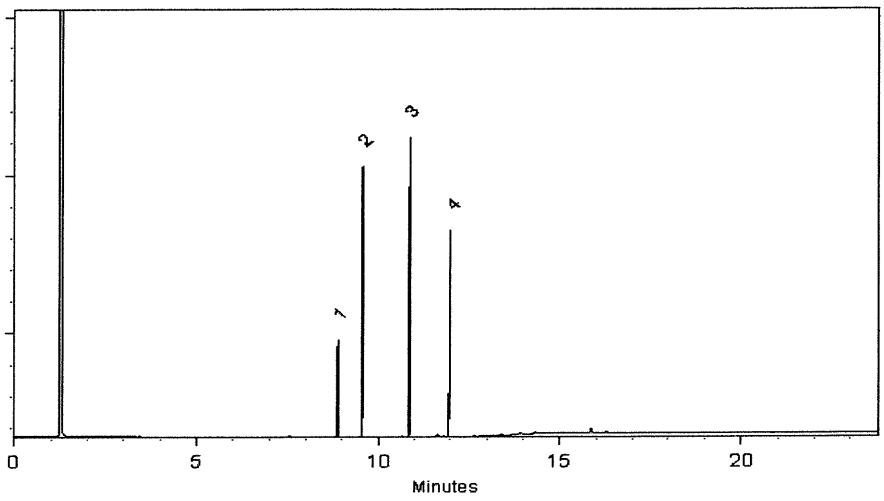
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on 09/07/22 by CG

S10778 to S10782

Catalog No. : 33913 **Lot No.:** A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene-d10 **CAS #** 7297-45-2 (Lot EF-135) **Purity** 96%	2,015.0 µg/mL	+/- 11.8254 µg/mL +/- 90.7728 µg/mL +/- 100.7207 µg/mL	Gravimetric Unstressed Stressed
2	Fluoranthene-d10 **CAS #** 93951-69-0 (Lot PR-20668) **Purity** 99%	2,007.0 µg/mL	+/- 11.7782 µg/mL +/- 90.4107 µg/mL +/- 100.3188 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)

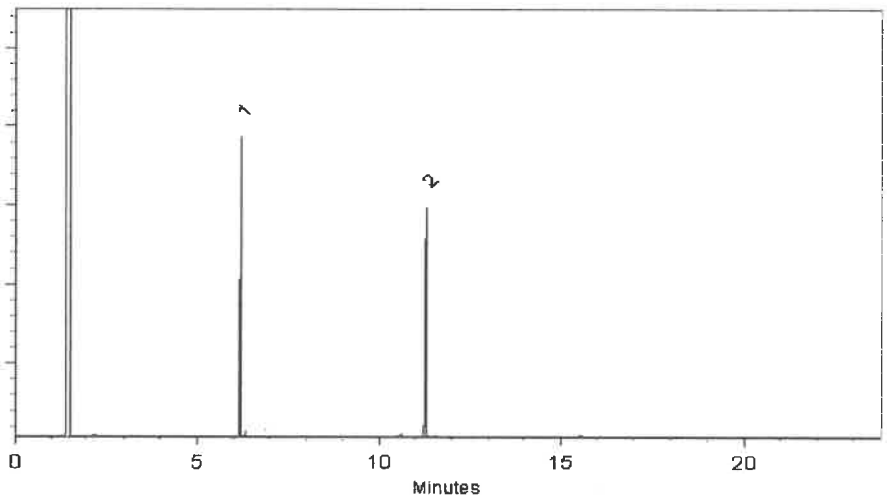
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022 **Balance:** B442140311

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 13-Jun-2022

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

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Certificate #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 on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

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

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

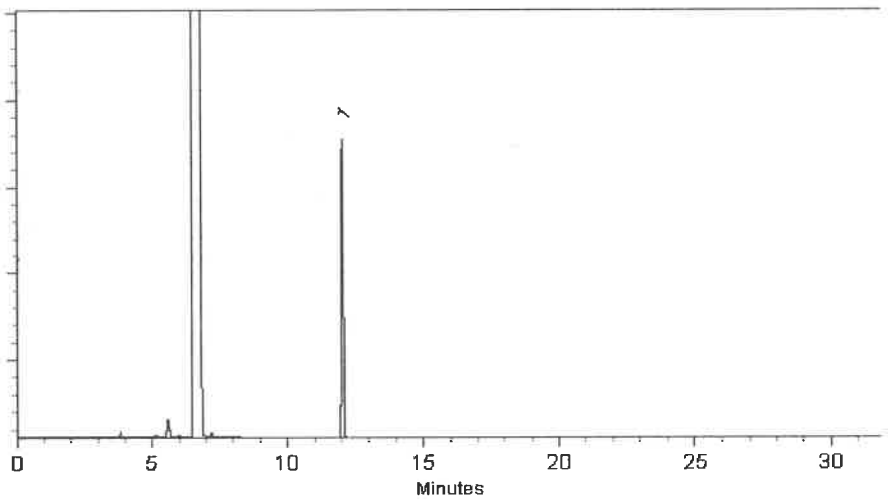
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°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.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

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

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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.

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)

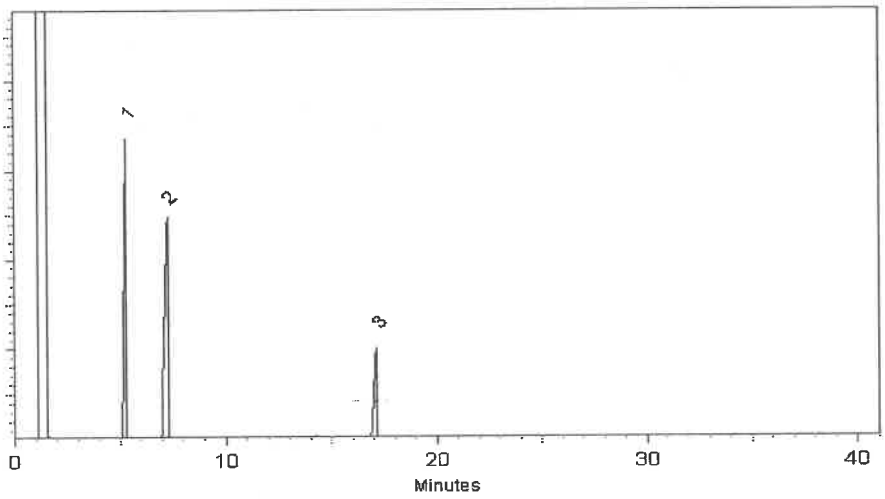
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Received by CG on 12/28/22
S10981 to S11010

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)

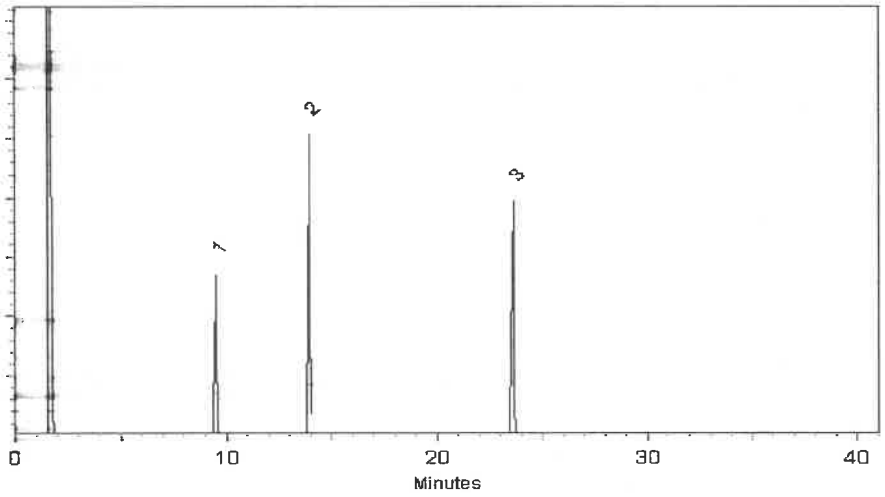
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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.

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.

RG-02-01, Ed. 3

Recd. by RP 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

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 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

PO: PO2-76 PRODUCT CODE: SHIP DATE: 9/3/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
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: MG24F10024

E 3791

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.: 24H2762011
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	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	5
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

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

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
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	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 10/9/24

E 3818

Jamie Croak
Director Quality Operations, Bioscience Production

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

Page 1 of 1

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
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	0.2 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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

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.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

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

James Ethier
Jamie Ethier
Vice President Global Quality

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

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 **Page 1 of 1**

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

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. : 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 — 7.6 / 0911

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

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

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

01-Nov-2022 rev.

RESTEK

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.)

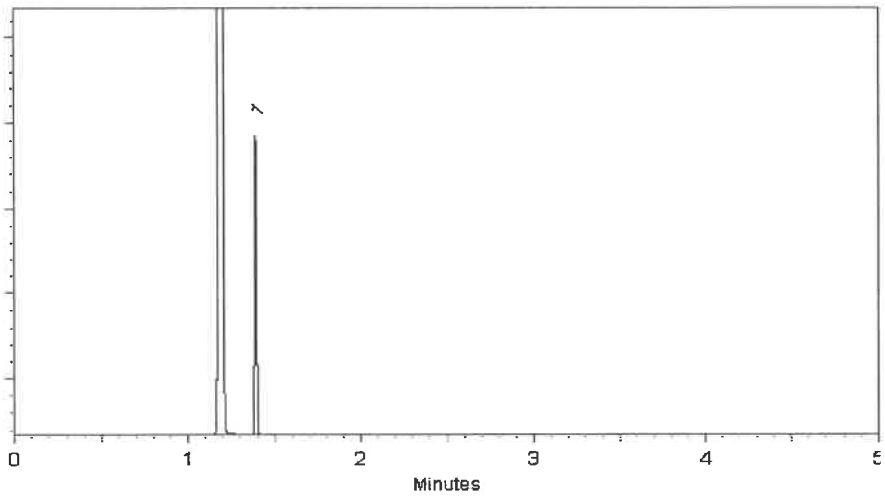
Inj. Temp:
250°C

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.)

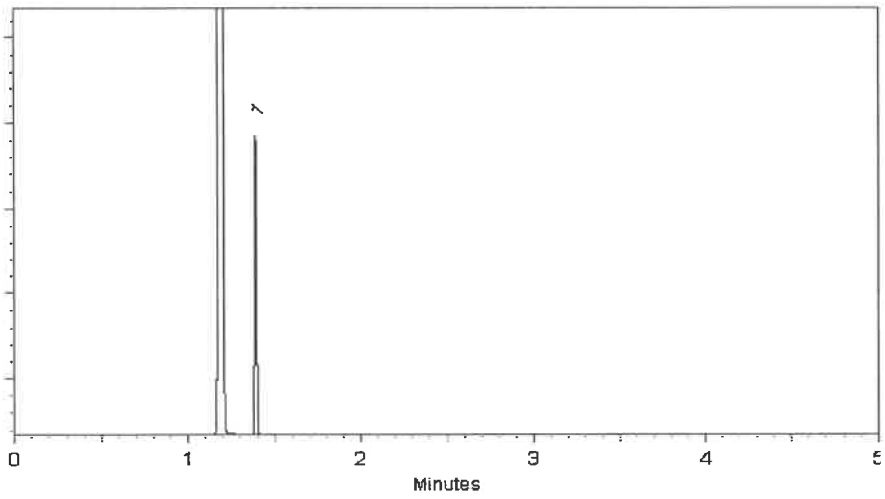
Inj. Temp:
250°C

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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chromatographic plus

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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. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 } RC/ 11/30/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 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	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* 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.)

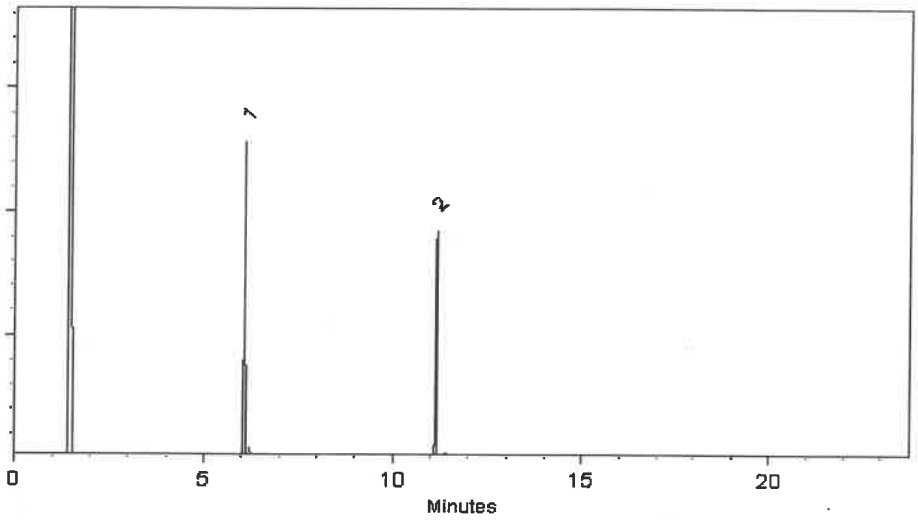
Inj. Temp:
250°C

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.

Dakota Parson - Operations Technician I **Date Mixed:** 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 28-Sep-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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31206 **Lot No.:** A0201320

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

S12013 ↓ S12042 RC 12/26/23

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.)

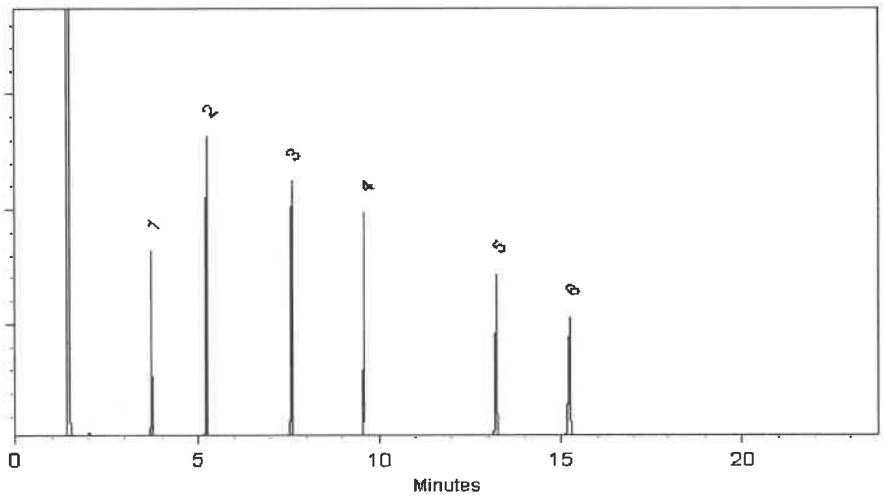
Inj. Temp:
250°C

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

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Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

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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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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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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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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Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

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

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%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

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

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.

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

S12117 ↓ S12146 RC/ 03/18/24

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

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%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31087 **Lot No.:** A0206206

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 : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

Solvent: Methanol
CAS # 67-56-1
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:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

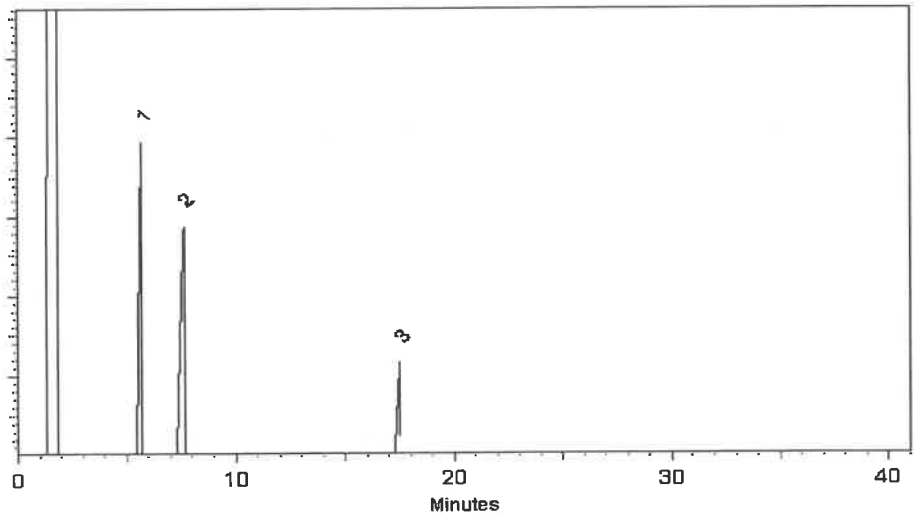
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 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.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

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

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CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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.

Quality Confirmation Test

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.)

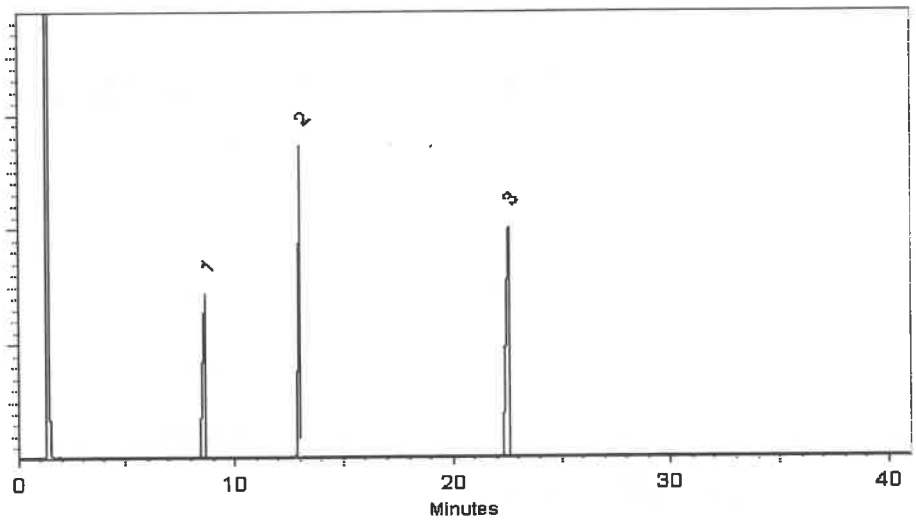
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 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.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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.

Quality Confirmation Test

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.)

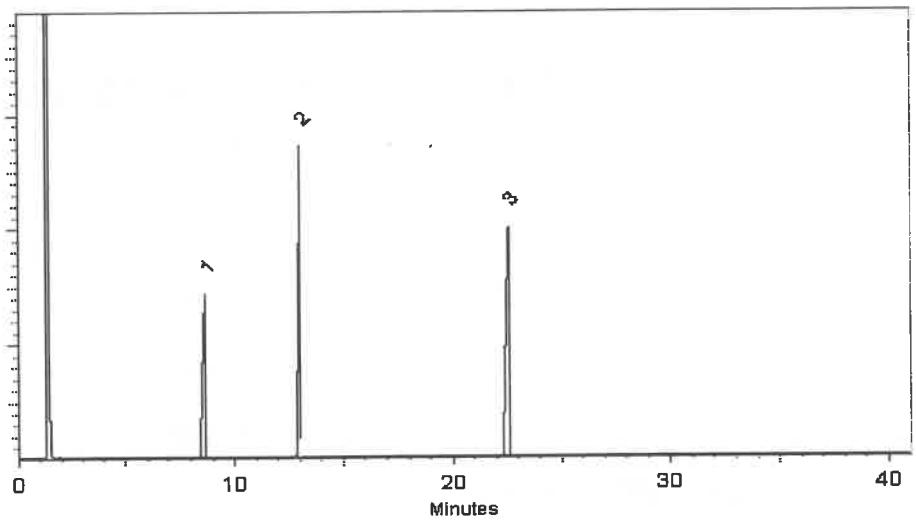
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 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.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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

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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

S12312 ↓ S12331 RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

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 : December 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%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* 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.)

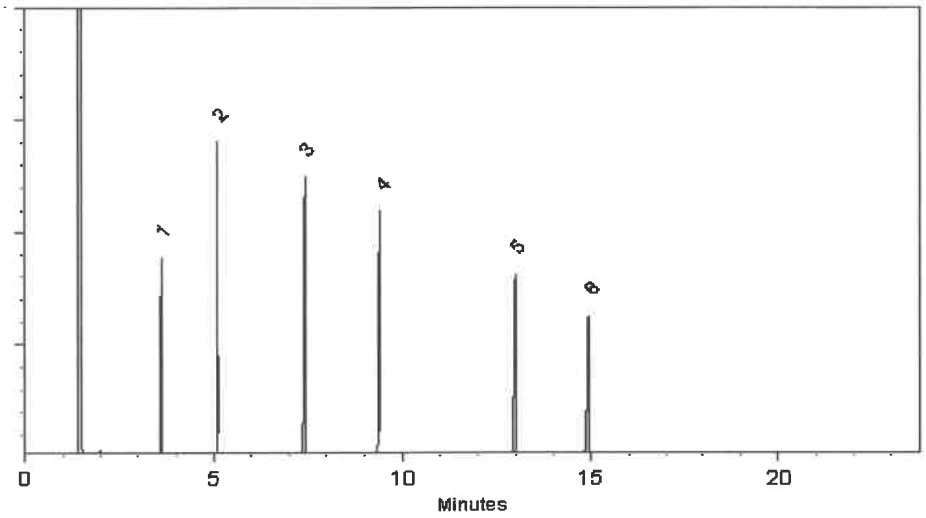
Inj. Temp:
250°C

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.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

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

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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

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 : December 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%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* 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.)

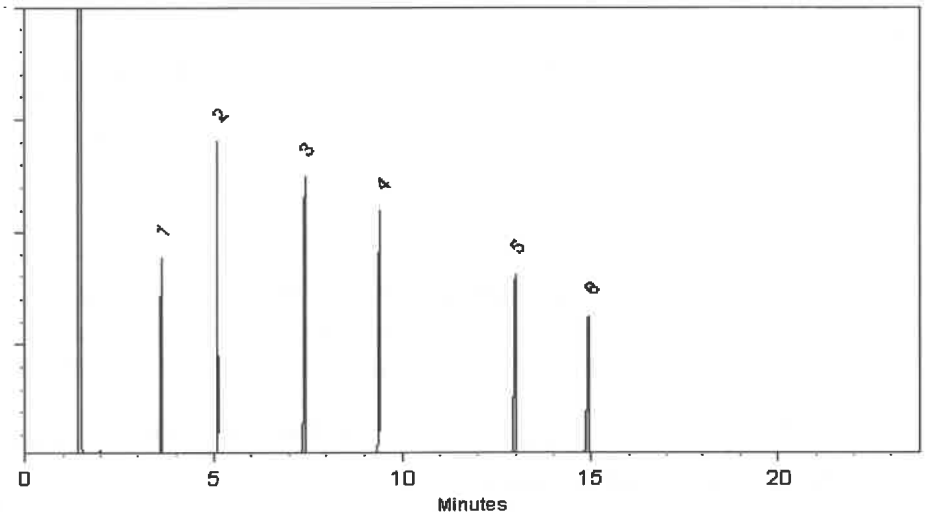
Inj. Temp:
250°C

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.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

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. : 555223 **Lot No.:** A0214021

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 : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

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	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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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. : 555223 **Lot No.:** A0214021

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 : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

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	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

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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ISO/IEC 17025 Accredited
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Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 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	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

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.

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035297.D
Acq On : 26 Nov 2024 01:26
Operator : RC/JU
Sample : P4959-01
Misc :
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Nov 26 02:54:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3474	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8594	0.400	ng	# 0.00
13) Acenaphthene-d10	13.973	164	5314	0.400	ng	# 0.00
19) Phenanthrene-d10	16.741	188	12516	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	912	0.400	ng	# 0.00
35) Perylene-d12	23.078	264	6981	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1086	0.165	ng	0.00
5) Phenol-d6	6.521	99	751	0.082	ng	0.00
8) Nitrobenzene-d5	8.451	82	1671m	0.240	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	5726	0.476	ng	0.00
14) 2,4,6-Tribromophenol	15.480	330	885	0.326	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	1025	0.349	ng	0.00
27) Fluoranthene-d10	18.790	212	16757	0.500	ng	0.00
31) Terphenyl-d14	19.417	244	12231	0.726	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	28516	11.419	ng	# 70
6) bis(2-Chloroethyl)ether	6.766	93	518	0.067	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035297.D
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Operator : RC/JU
Sample : P4959-01
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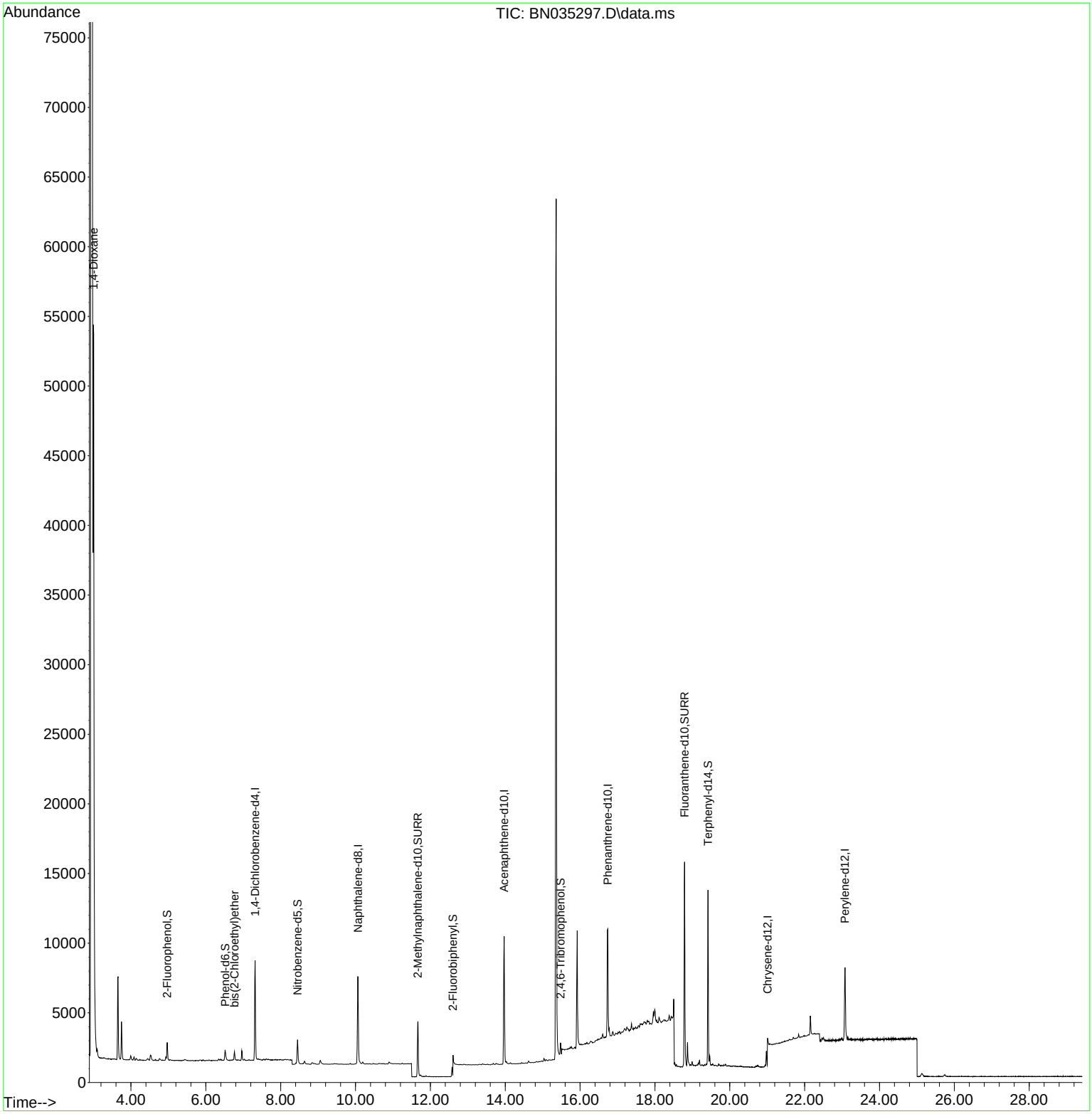
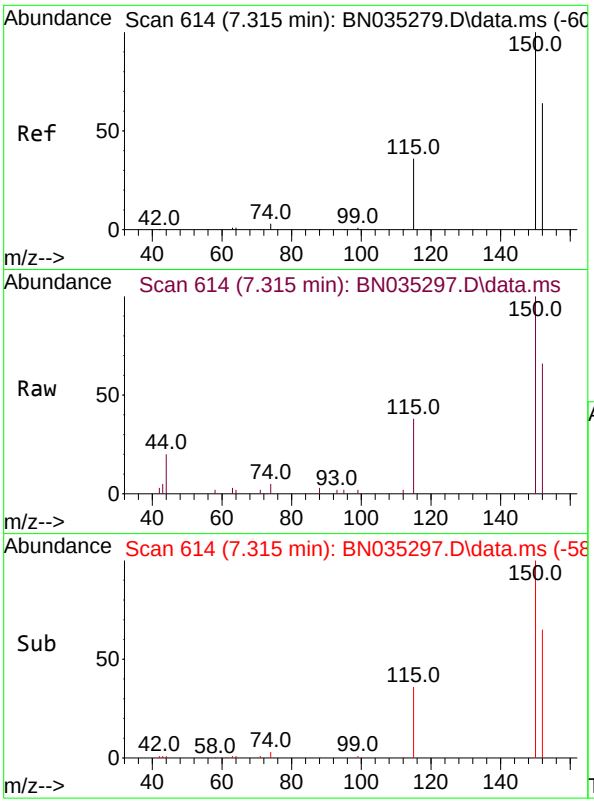
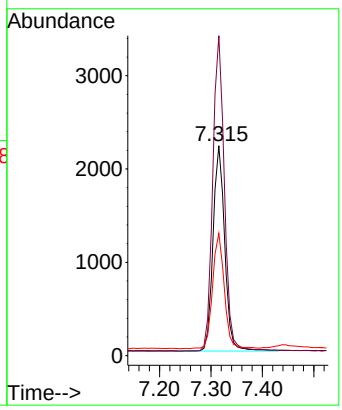




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:152 Resp: 347

Ion	Ratio	Lower	Upper
152	100		
150	152.5	124.5	186.7
115	58.3	47.8	71.8



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Manual Integrations
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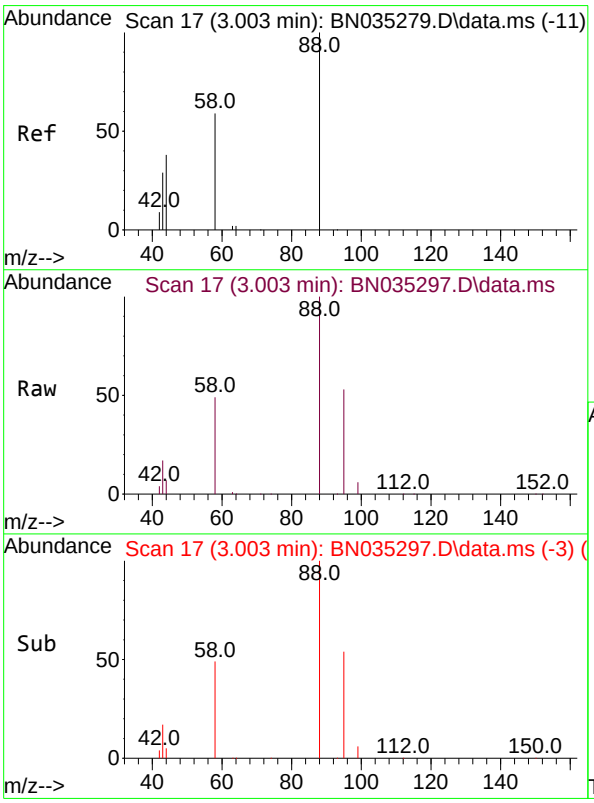
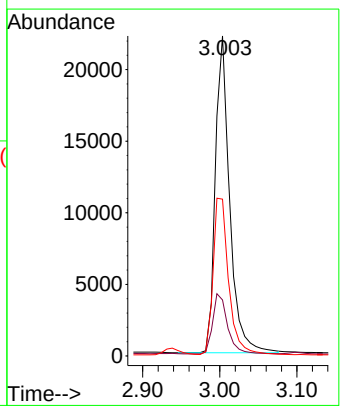
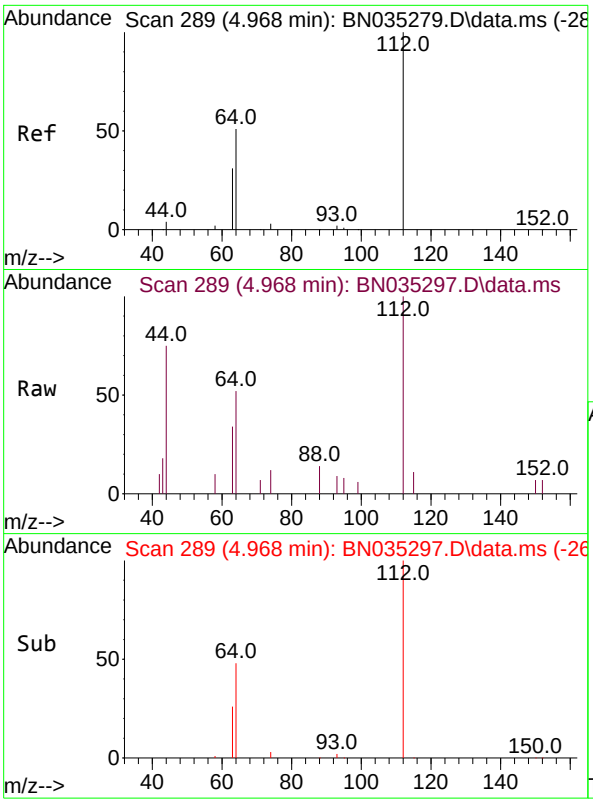


#2
1,4-Dioxane
Concen: 11.419 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion: 88 Resp: 28516

Ion	Ratio	Lower	Upper
88	100		
43	19.7	48.1	72.1#
58	53.5	46.9	70.3

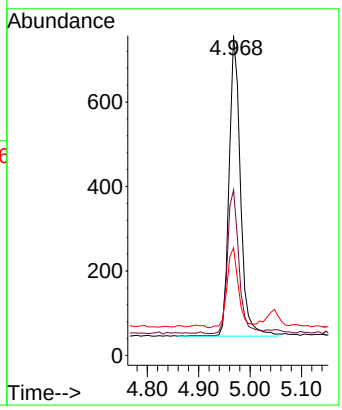




#4
2-Fluorophenol
Concen: 0.165 ng
RT: 4.968 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:112 Resp: 108

Ion	Ratio	Lower	Upper
112	100		
64	48.4	40.4	60.6
63	27.0	23.8	35.8



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

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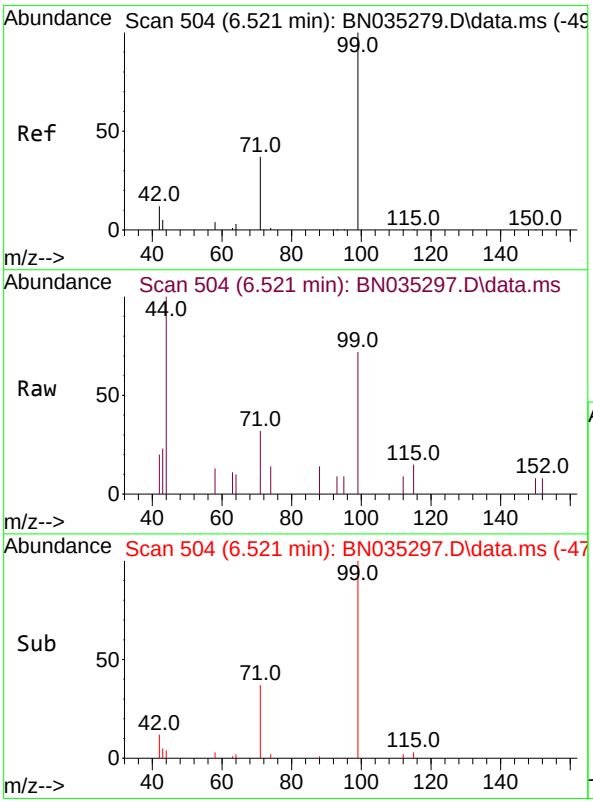
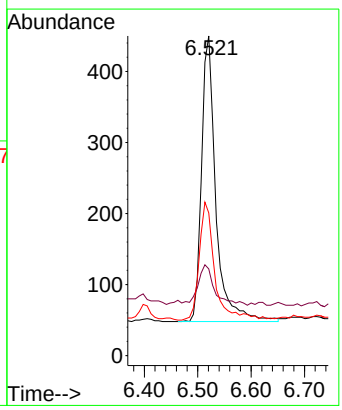
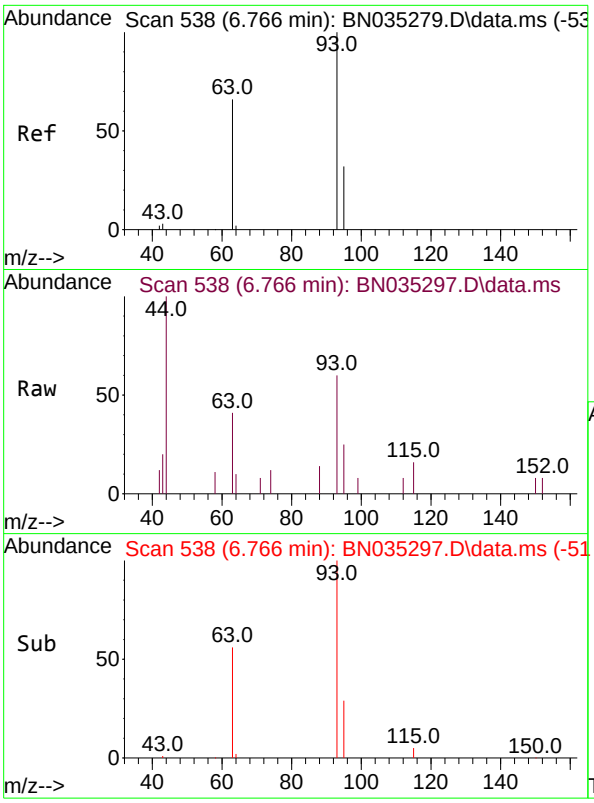


#5
Phenol-d6
Concen: 0.082 ng
RT: 6.521 min Scan# 504
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion: 99 Resp: 751

Ion	Ratio	Lower	Upper
99	100		
42	16.2	12.8	19.2
71	45.0	31.4	47.2

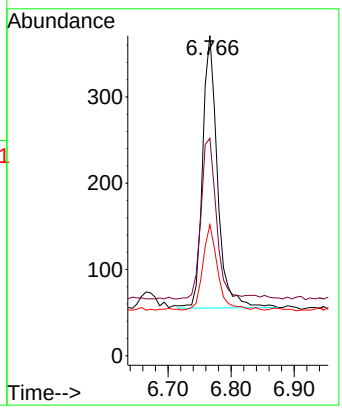




#6
bis(2-Chloroethyl)ether
Concen: 0.067 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion: 93 Resp: 51

Ion	Ratio	Lower	Upper
93	100		
63	60.4	52.3	78.5
95	31.5	25.5	38.3



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Manual Integrations
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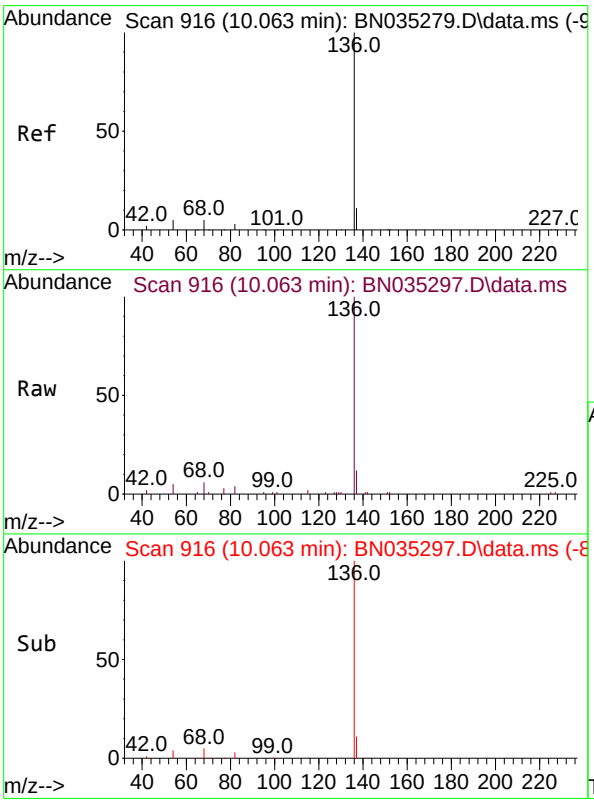
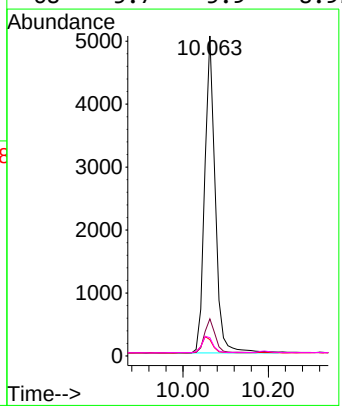
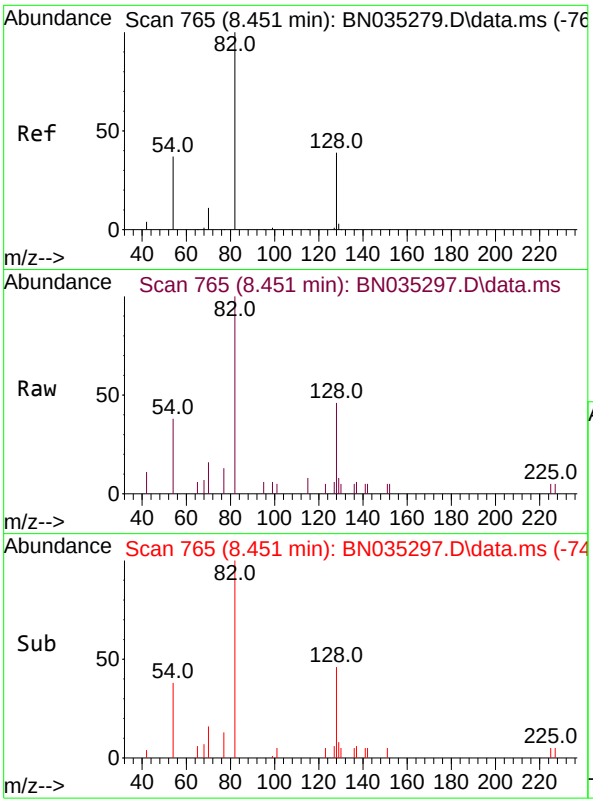


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:136 Resp: 8594

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.7	14.5
54	5.1	5.3	7.9#
68	5.7	5.9	8.9#





#8
Nitrobenzene-d5
Concen: 0.240 ng m
RT: 8.451 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion: 82 Resp: 167

Ion	Ratio	Lower	Upper
82	100		
128	45.9	33.0	49.4
54	38.0	33.3	49.9

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Manual Integrations
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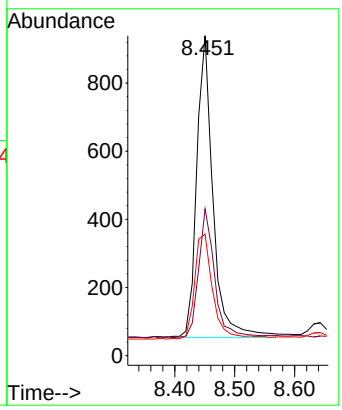
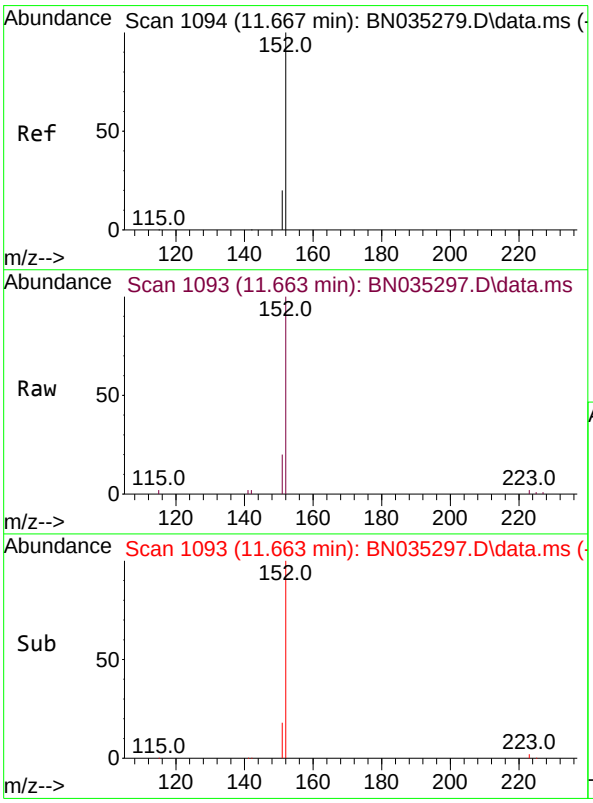
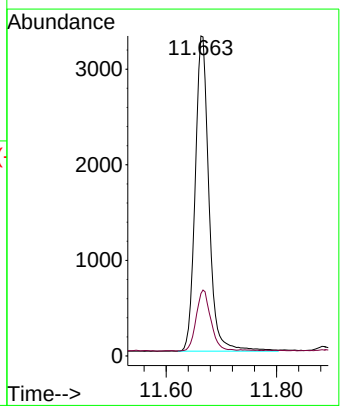


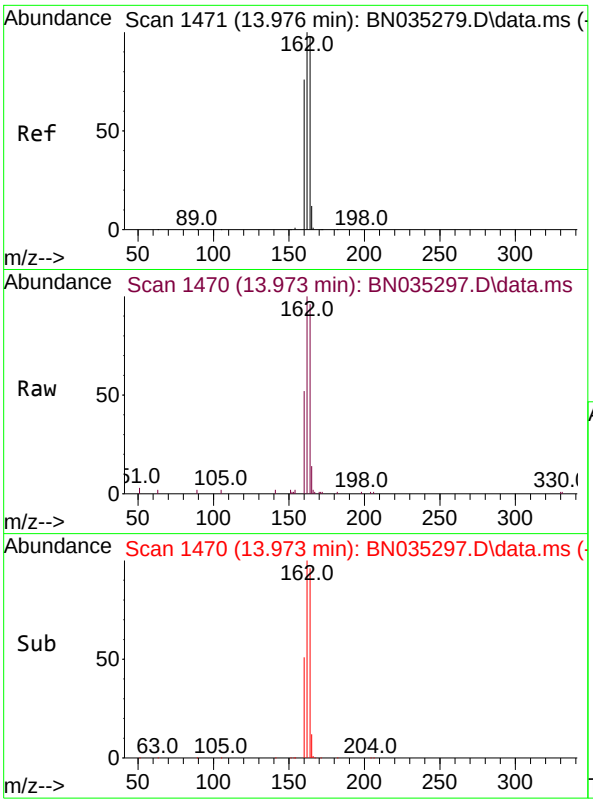


#11
2-Methylnaphthalene-d10
Concen: 0.476 ng
RT: 11.663 min Scan# 1093
Delta R.T. -0.004 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:152 Resp: 5726

Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.2	25.8





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.973 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:164 Resp: 5314

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.0	123.0
160	53.6	63.0	94.4

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

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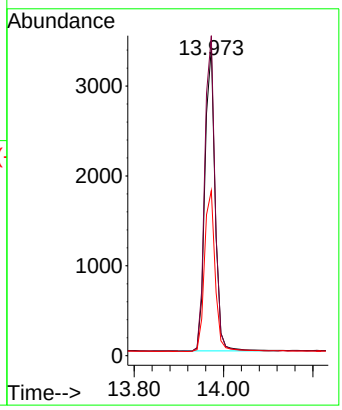
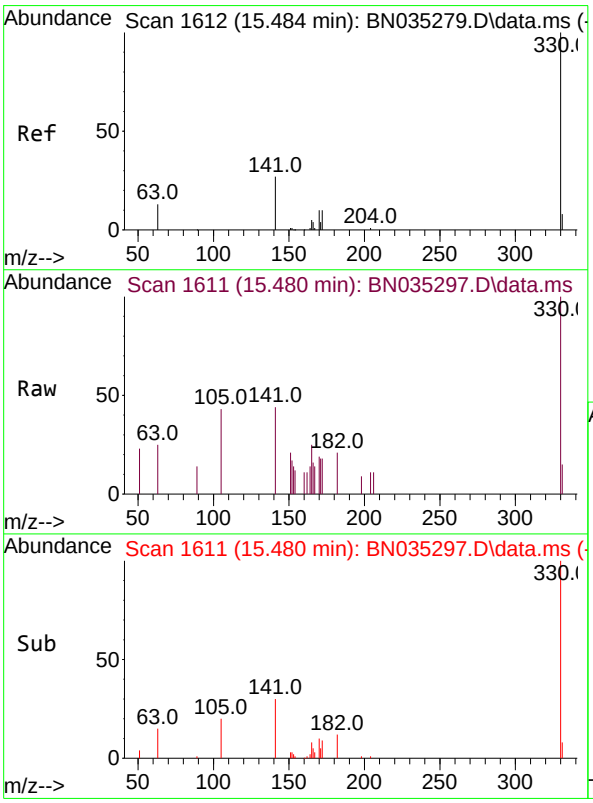
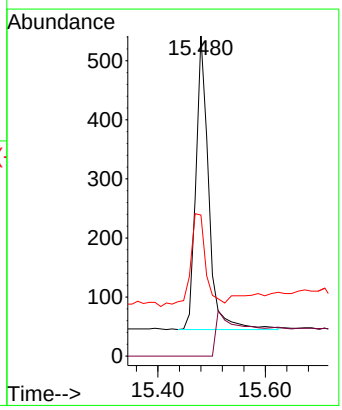


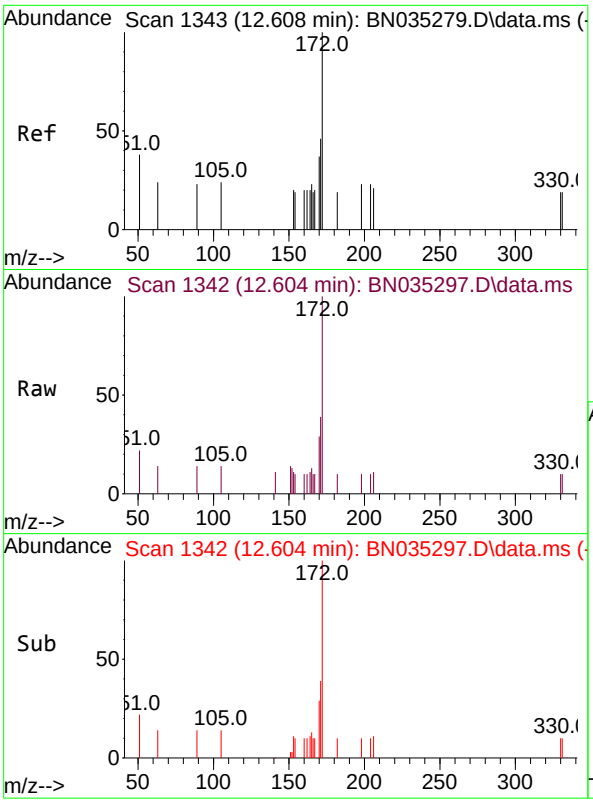


#14
2,4,6-Tribromophenol
Concen: 0.326 ng
RT: 15.480 min Scan# 1611
Delta R.T. -0.004 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:330 Resp: 885

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.4	32.4	48.6

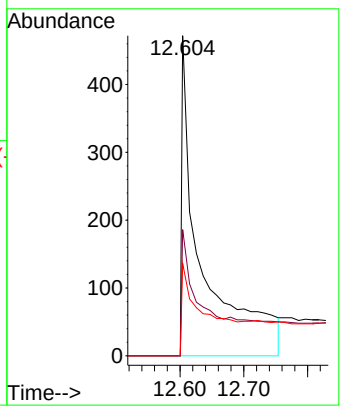




#15
2-Fluorobiphenyl
Concen: 0.349 ng
RT: 12.604 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:172 Resp: 102

Ion	Ratio	Lower	Upper
172	100		
171	39.4	36.6	55.0
170	28.8	29.7	44.5#



Instrument :
BNA_N
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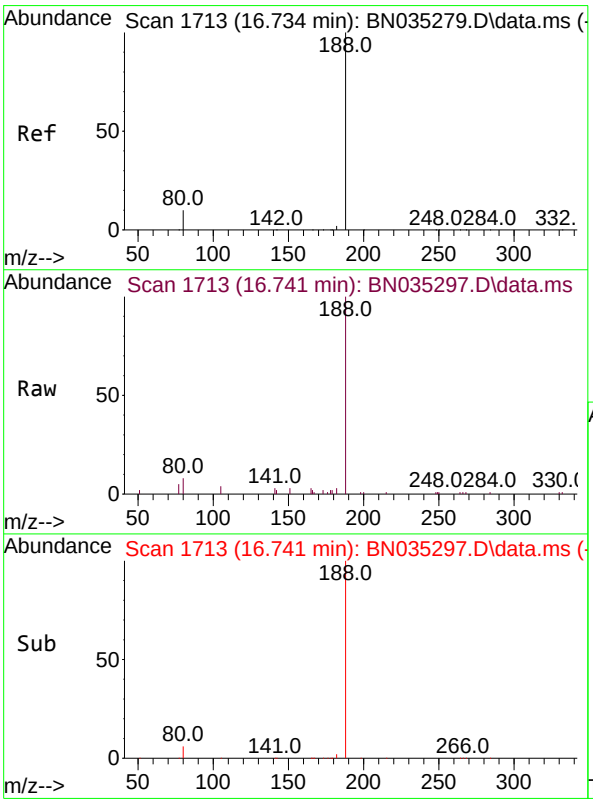
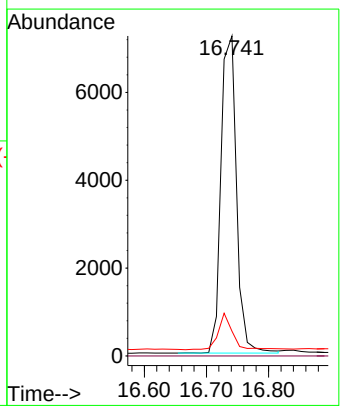
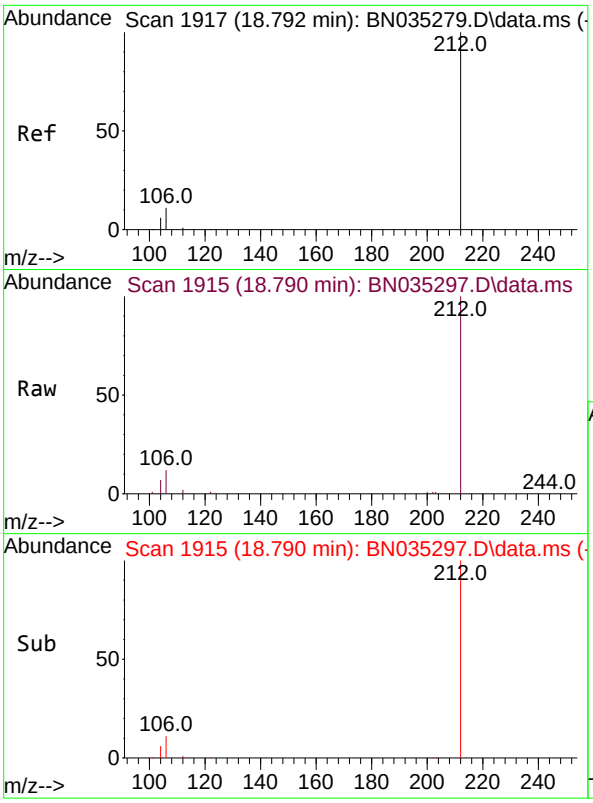


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.741 min Scan# 1713
Delta R.T. 0.007 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:188 Resp: 12516

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.8	8.9	13.3#

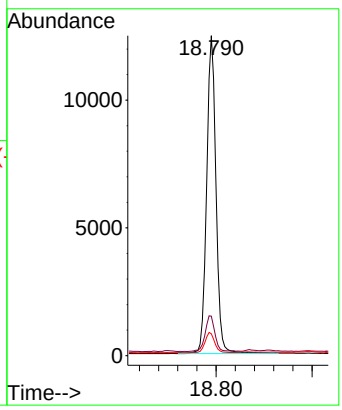




#27
Fluoranthene-d10
Concen: 0.500 ng
RT: 18.790 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:212 Resp: 1675

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.8	14.8
104	6.4	5.6	8.4



Instrument :
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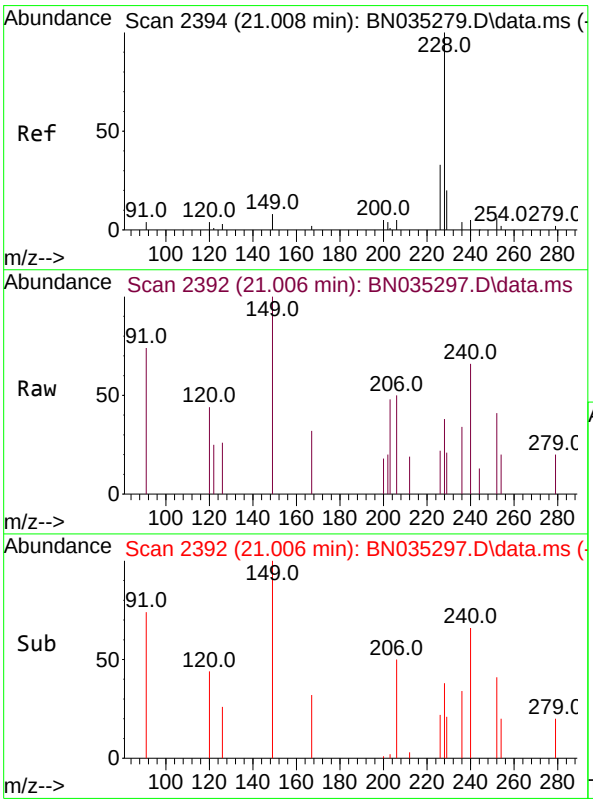
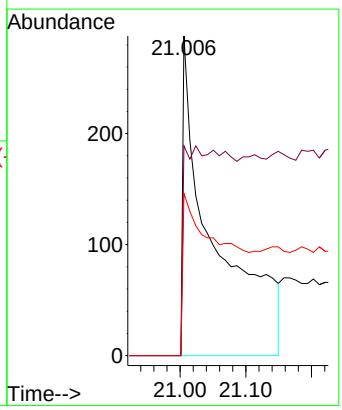
11/27/2024

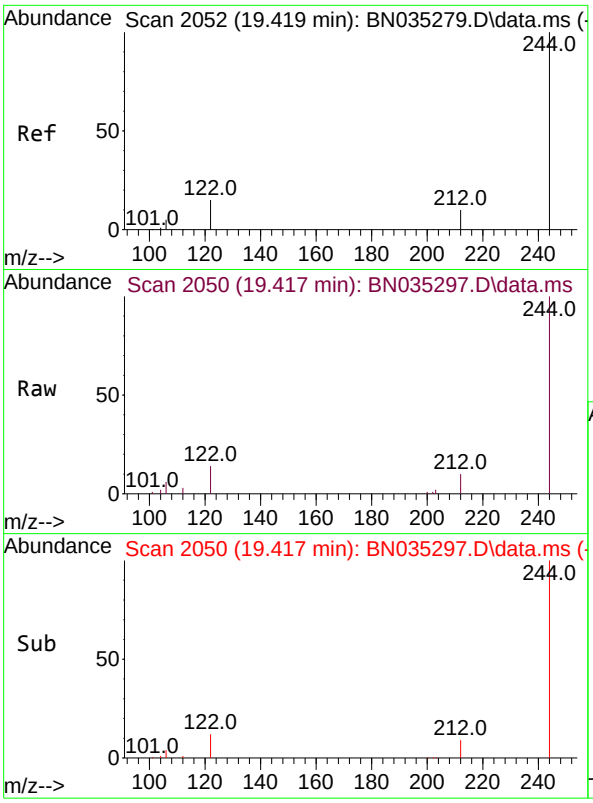


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.002 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:240 Resp: 912

Ion	Ratio	Lower	Upper
240	100		
120	65.6	54.9	82.3
236	50.7	54.0	81.0#

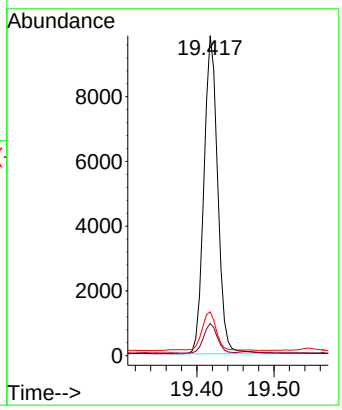




#31
Terphenyl-d14
Concen: 0.726 ng
RT: 19.417 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:244 Resp: 1223

Ion	Ratio	Lower	Upper
244	100		
212	10.0	9.4	14.0
122	13.7	13.0	19.4



Instrument :
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Manual Integrations APPROVED

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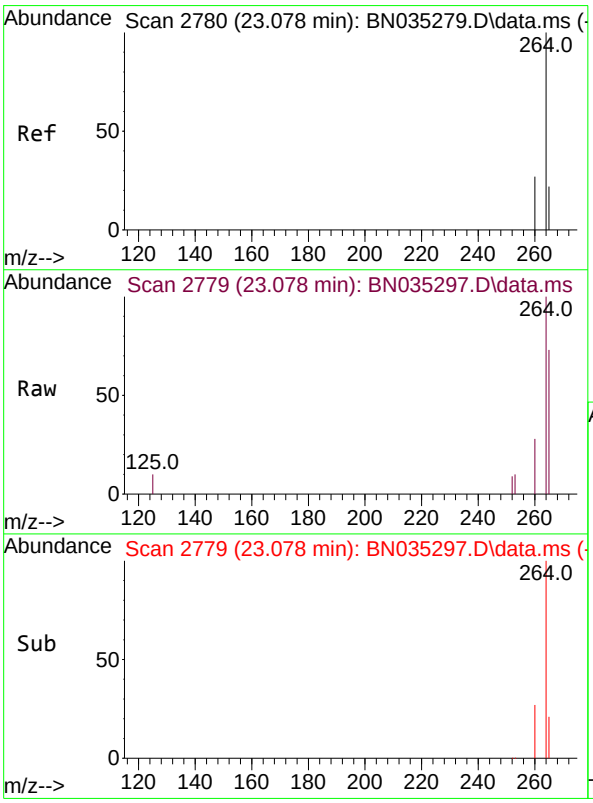
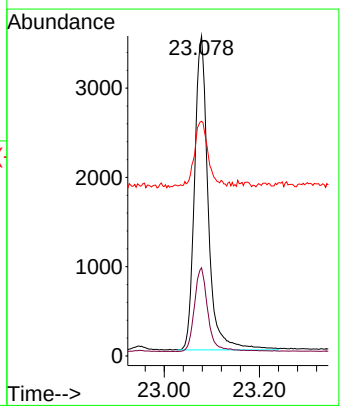
11/27/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 2779
Delta R.T. 0.001 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:264 Resp: 6981

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.3	33.5
265	73.4	68.6	103.0



SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: P4959

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: Tetra Tech	PROJECT NAME: NWIRP Bethpage	BILL TO: PO#
ADDRESS: 4433 Corporation Ln, Suite 300	PROJECT #: 112G08005-WE13 LOCATION: RW5B	ADDRESS:
CITY: Virginia Beach STATE: VA ZIP: 23462	PROJECT MANAGER: Ernie Wu	CITY: STATE: ZIP:
ATTENTION: Ernie Wu	E-MAIL: ernie,wu@tetratech.com	ATTENTION: PHONE:
PHONE: 757-466-4901 FAX: 757-461-4148	PHONE: 757-466-4901 FAX: 757-461-4148	

DATA TURNAROUND INFORMATION

FAX: 10 DAYS*
HARD COPY: 10 DAYS*
EDD 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD Format
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other

ANALYSIS

	1	2	3	4	5	6	7	8	9
1,4-Dioxane SW846 8270 SIM									

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES 1	B 2	3	4	5	6	7	8	9	COMMENTS
1.	RW5-SP100-20241121	GW		x	11/21/24	12:45	1	x									
2.	RW5-SP201-20241121	GW		x	11/21/24	12:47	1	x									
3.	RW5-SP303-20241121	GW		x	11/21/24	12:53	1	x									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	11/21/24 1600	1.
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2. FEDEX	11-22-24 1005	2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 1.5°C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: Y
Comments:

Page ____ of ____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR 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 (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035277.D
Acq On : 25 Nov 2024 10:16
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 25 18:31:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.315	152	2616	0.400	ng		0.00
7) Naphthalene-d8	10.063	136	6701	0.400	ng		0.00
13) Acenaphthene-d10	13.976	164	3999	0.400	ng		0.00
19) Phenanthrene-d10	16.734	188	9103	0.400	ng		0.00
29) Chrysene-d12	21.008	240	834	0.400	ng		0.00
35) Perylene-d12	23.081	264	5298	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	561	0.114	ng		0.00
5) Phenol-d6	6.520	99	781	0.113	ng		0.00
8) Nitrobenzene-d5	8.450	82	713	0.131	ng		0.00
11) 2-Methylnaphthalene-d10	11.670	152	939	0.100	ng		0.00
14) 2,4,6-Tribromophenol	15.484	330	174	0.085	ng		0.00
15) 2-Fluorobiphenyl	12.608	172	595	0.269	ng		0.00
27) Fluoranthene-d10	18.792	212	2168	0.089	ng		0.00
31) Terphenyl-d14	19.419	244	1310	0.085	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.010	88	245	0.130	ng	#	78
3) n-Nitrosodimethylamine	3.307	42	166	0.085	ng	#	74
6) bis(2-Chloroethyl)ether	6.766	93	595	0.102	ng		97
9) Naphthalene	10.116	128	1817	0.098	ng	#	92
10) Hexachlorobutadiene	10.415	225	471	0.090	ng	#	98
12) 2-Methylnaphthalene	11.746	142	1156	0.095	ng		98
16) Acenaphthylene	13.688	152	1859	0.092	ng		99
17) Acenaphthene	14.030	154	1144	0.090	ng		92
18) Fluorene	15.035	166	1538	0.087	ng		99
20) 4,6-Dinitro-2-methylph...	15.141	198	47	0.226	ng	#	21
21) 4-Bromophenyl-phenylether	15.952	248	565	0.098	ng	#	70
22) Hexachlorobenzene	16.051	284	743	0.090	ng		98
23) Atrazine	16.237	200	206	0.085	ng	#	82
24) Pentachlorophenol	16.399	266	157	0.079	ng	#	85
25) Phenanthrene	16.783	178	2552	0.091	ng		99
26) Anthracene	16.870	178	2057	0.086	ng		99
28) Fluoranthene	18.825	202	2840	0.080	ng		99
30) Pyrene	19.192	202	2830	0.093	ng		100
32) Benzo(a)anthracene	21.017	228	2709	0.093	ng		98
33) Chrysene	21.017	228	2709	0.093	ng		98
34) Bis(2-ethylhexyl)phtha...	21.017	149	540	Below Cal		#	66
36) Indeno(1,2,3-cd)pyrene	25.121	276	1824	0.084	ng		98
37) Benzo(b)fluoranthene	22.464	252	1993	0.087	ng	#	78
38) Benzo(k)fluoranthene	22.505	252	2076	0.085	ng	#	78
39) Benzo(a)pyrene	22.987	252	1578	0.090	ng	#	73
40) Dibenzo(a,h)anthracene	25.142	278	1273	0.078	ng	#	76
41) Benzo(g,h,i)perylene	25.738	276	1716	0.091	ng	#	88

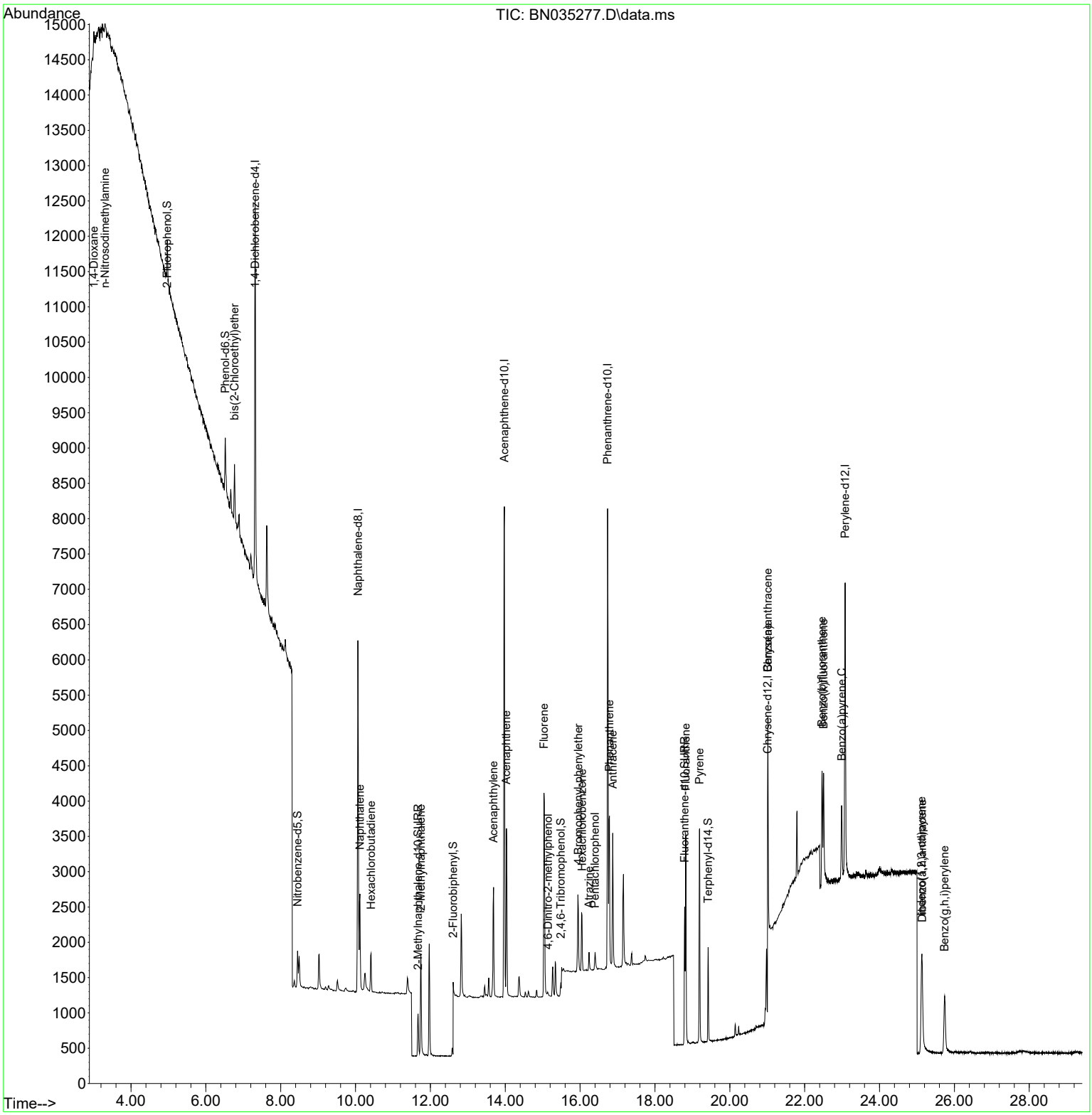
(#) = qualifier out of range (m) = manual integration (+) = signals summed

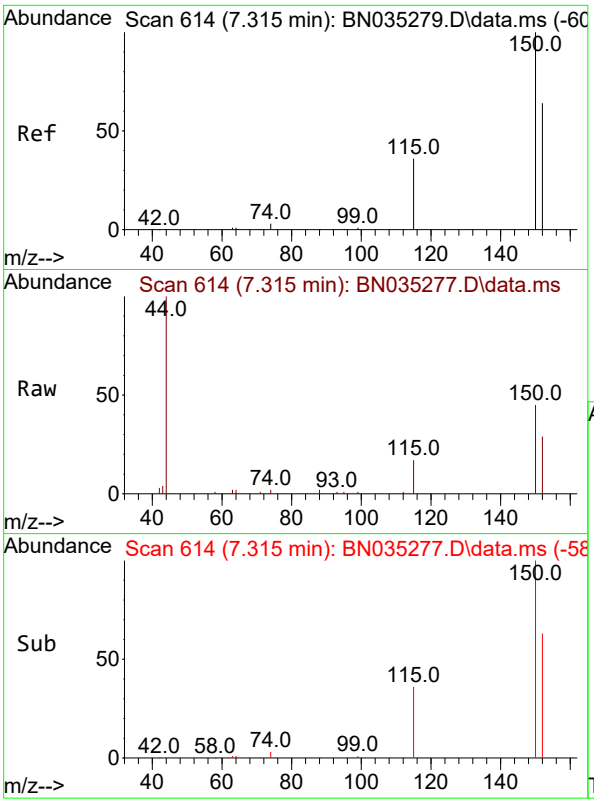
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035277.D
Acq On : 25 Nov 2024 10:16
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 25 18:31:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration



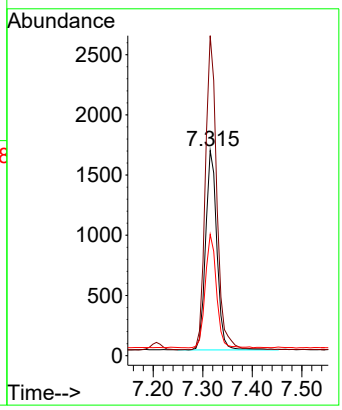


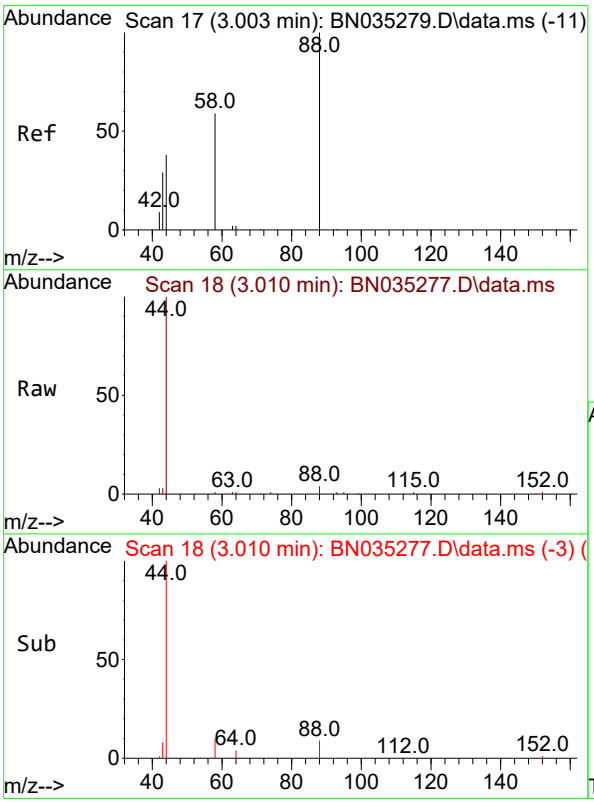
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2616

Ion	Ratio	Lower	Upper
152	100		
150	156.0	124.5	186.7
115	59.1	47.8	71.8

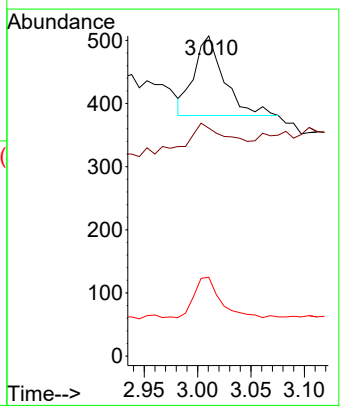


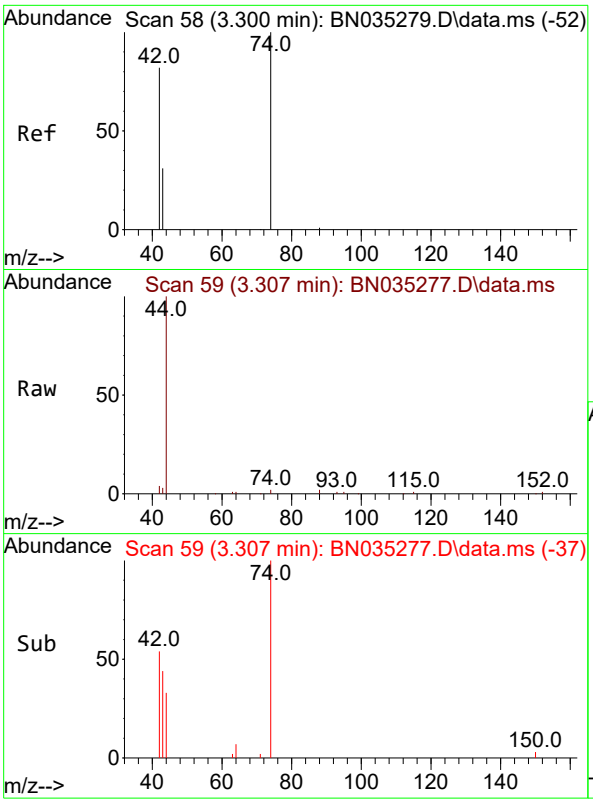


#2
1,4-Dioxane
Concen: 0.130 ng
RT: 3.010 min Scan# 18
Delta R.T. 0.007 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion: 88 Resp: 245

Ion	Ratio	Lower	Upper
88	100		
43	78.8	48.1	72.1#
58	44.9	46.9	70.3#



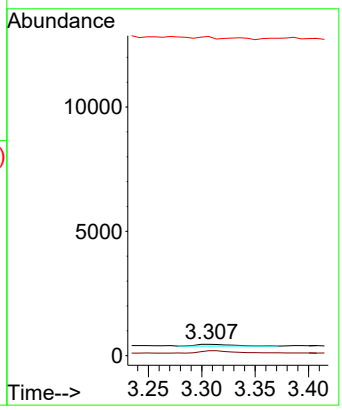


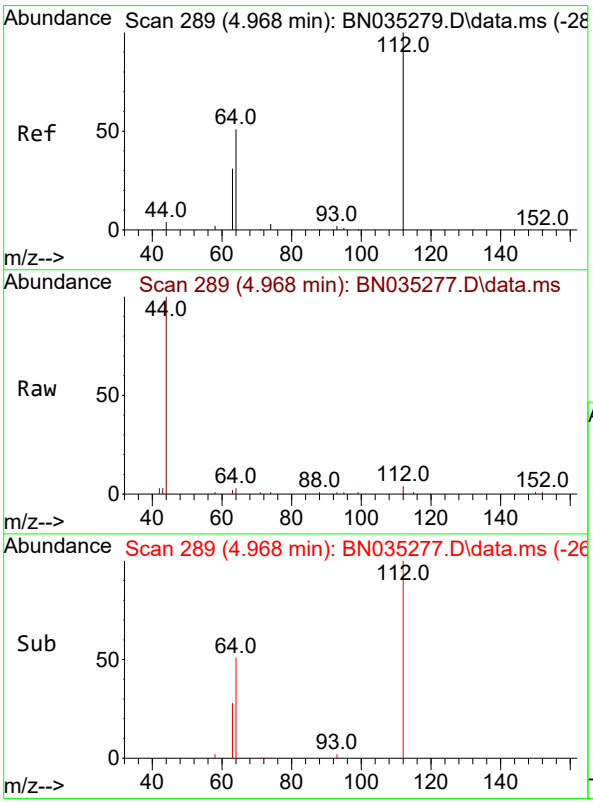
#3
n-Nitrosodimethylamine
Concen: 0.085 ng
RT: 3.307 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 166

Ion	Ratio	Lower	Upper
42	100		
74	142.8	102.7	154.1
44	0.0	34.1	51.1#

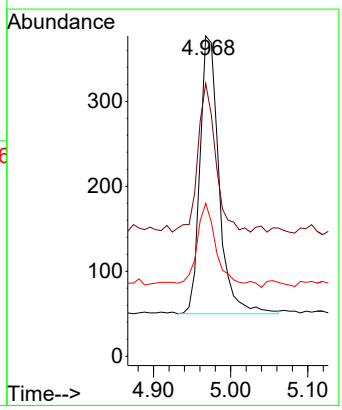


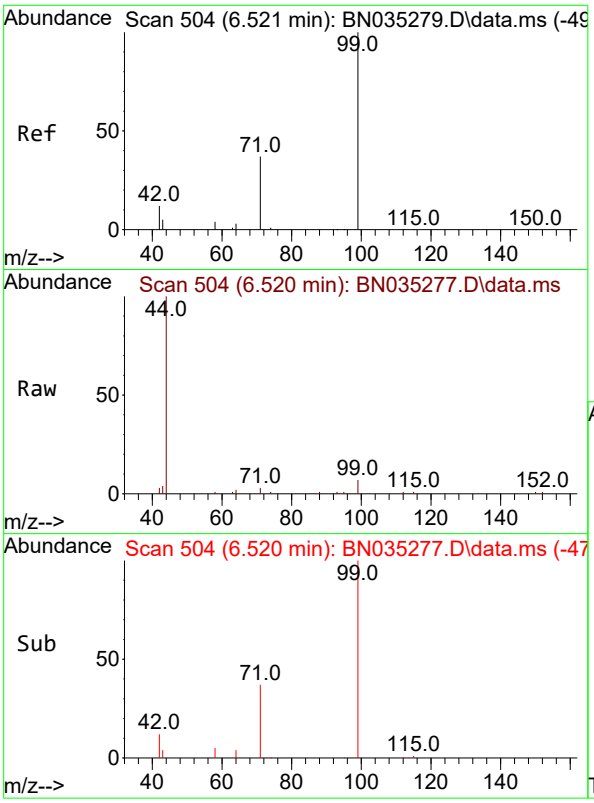


#4
2-Fluorophenol
Concen: 0.114 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:112 Resp: 561

Ion	Ratio	Lower	Upper
112	100		
64	49.9	40.4	60.6
63	32.1	23.8	35.8



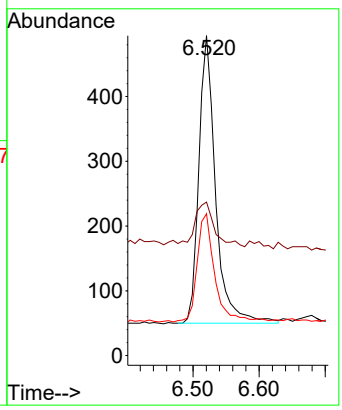


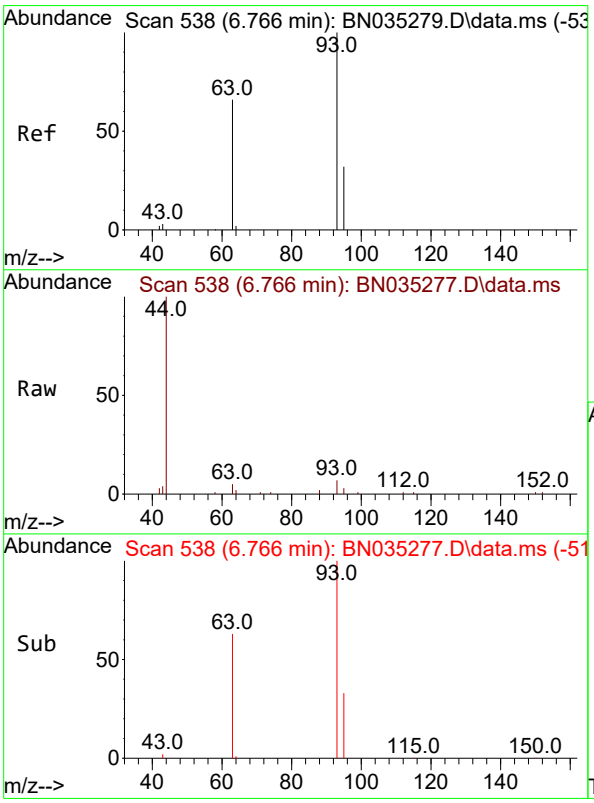
#5
Phenol-d6
Concen: 0.113 ng
RT: 6.520 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 781

Ion	Ratio	Lower	Upper
99	100		
42	18.4	12.8	19.2
71	39.8	31.4	47.2

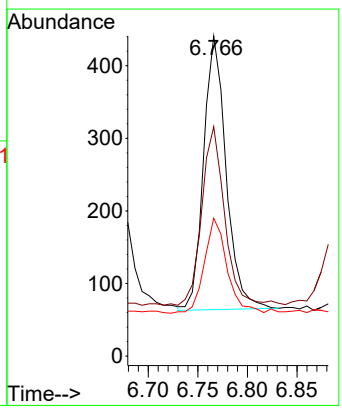


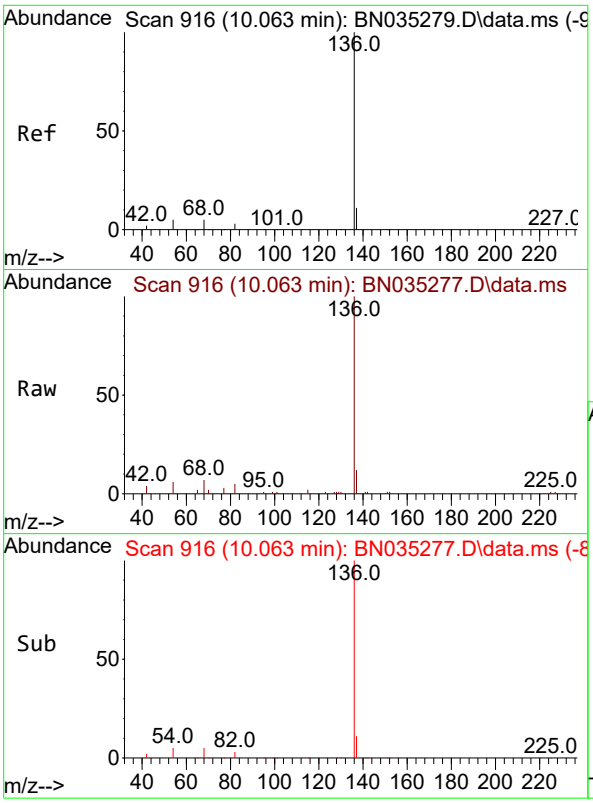


#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion: 93 Resp: 595

Ion	Ratio	Lower	Upper
93	100		
63	66.6	52.3	78.5
95	35.0	25.5	38.3



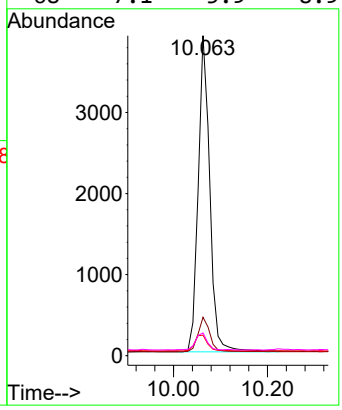


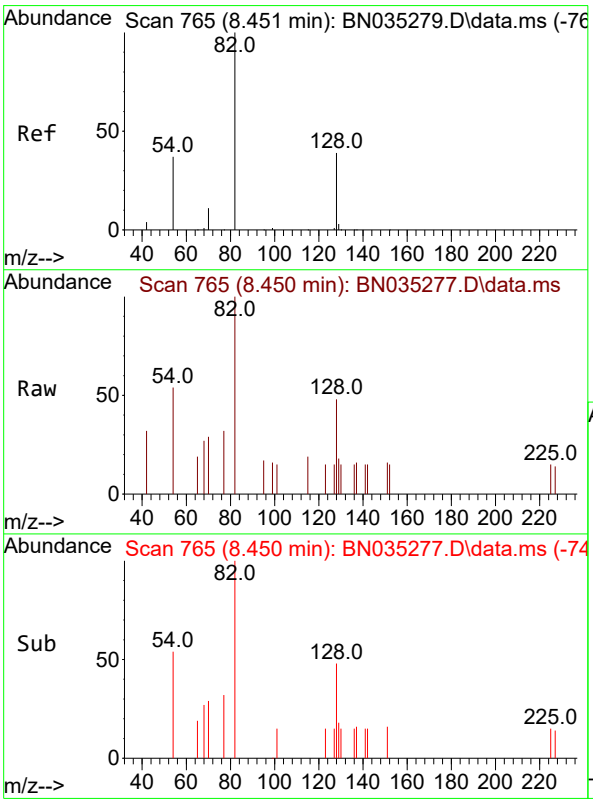
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 6701

Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.7	14.5
54	6.4	5.3	7.9
68	7.1	5.9	8.9

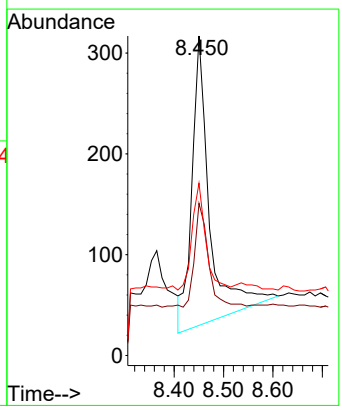


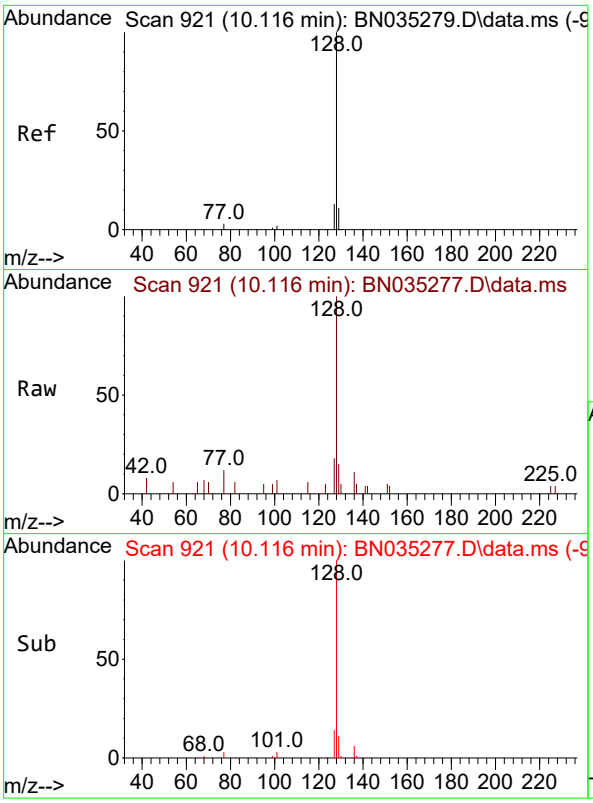


#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion: 82 Resp: 713

Ion	Ratio	Lower	Upper
82	100		
128	47.6	33.0	49.4
54	53.9	33.3	49.9#



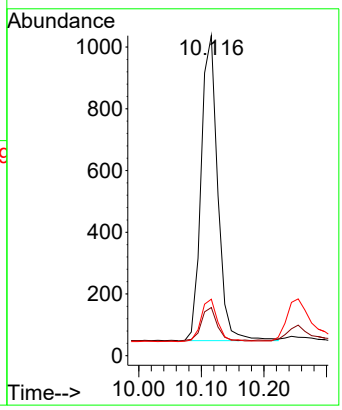


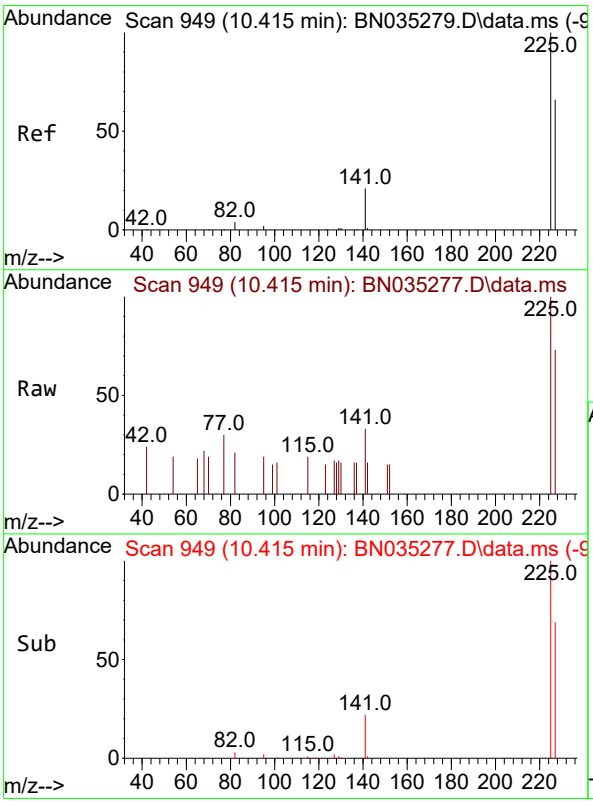
#9
Naphthalene
Concen: 0.098 ng
RT: 10.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1817

Ion	Ratio	Lower	Upper
128	100		
129	15.0	9.6	14.4#
127	17.6	11.3	16.9#

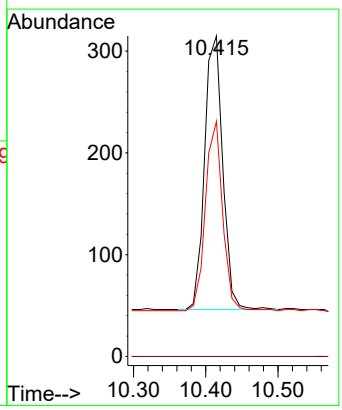


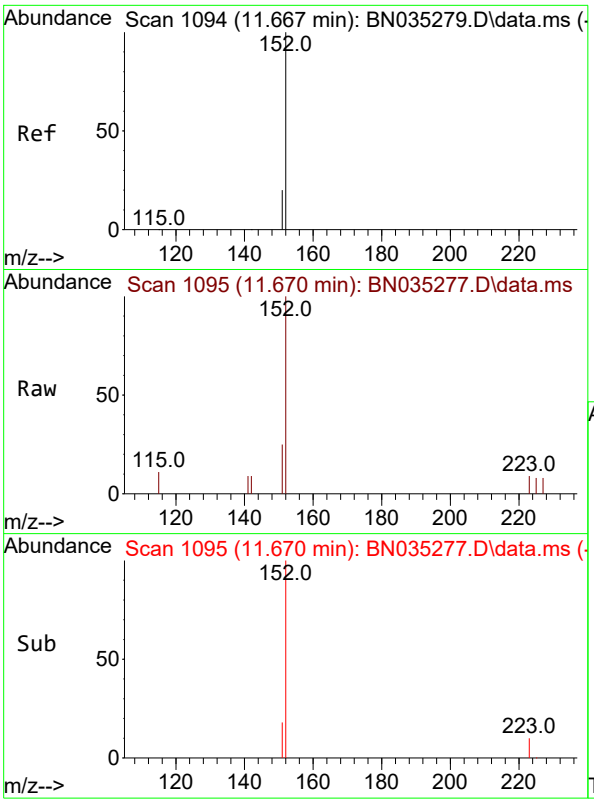


#10
Hexachlorobutadiene
Concen: 0.090 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:225 Resp: 471

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.6	51.3	76.9



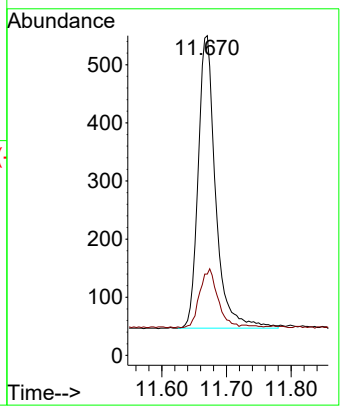


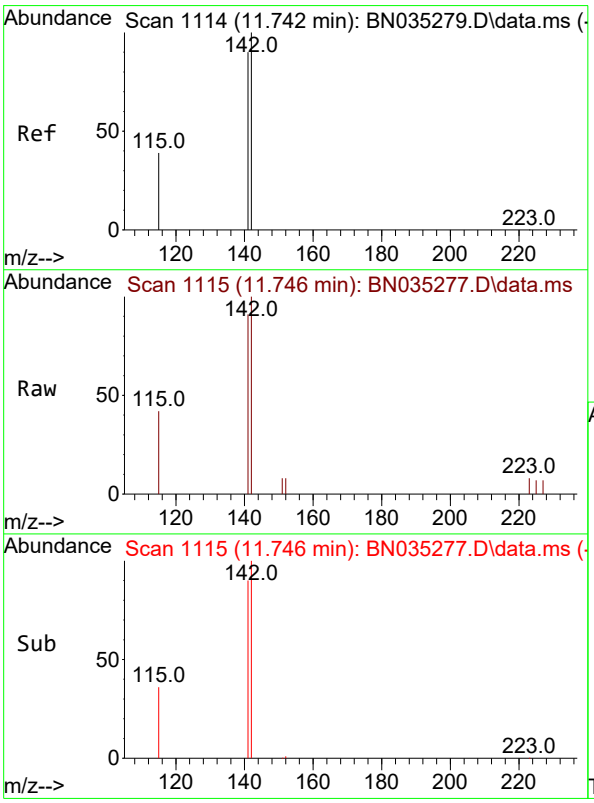
#11
2-Methylnaphthalene-d10
Concen: 0.100 ng
RT: 11.670 min Scan# 1
Delta R.T. 0.004 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 939

Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.2	25.8

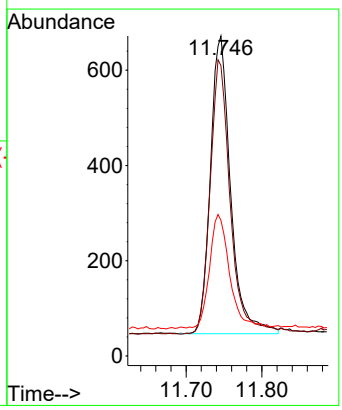


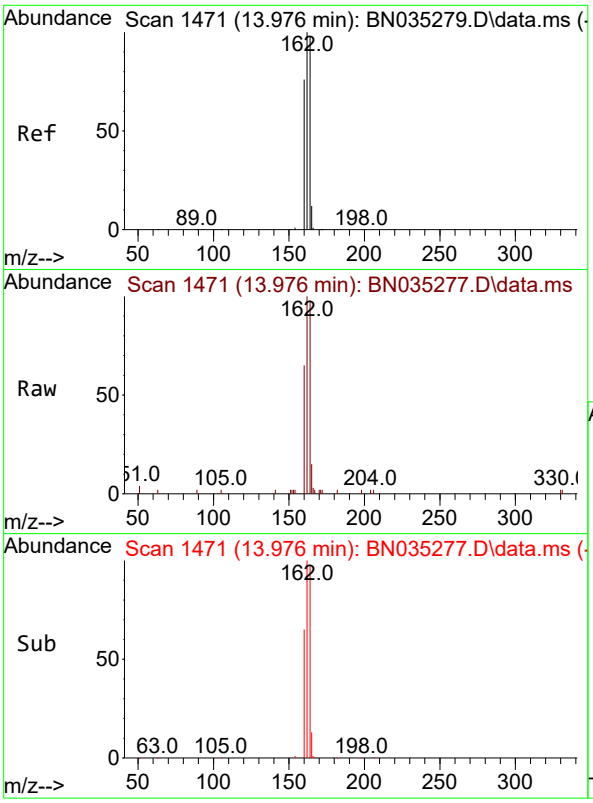


#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 11.746 min Scan# 1115
Delta R.T. 0.004 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:142 Resp: 1156

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.8	107.8
115	42.4	32.6	49.0



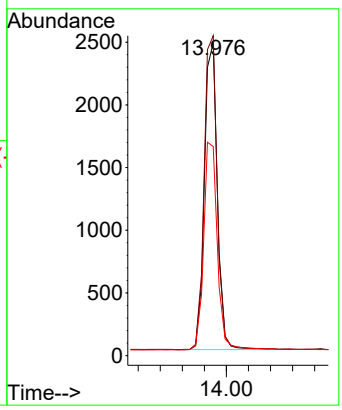


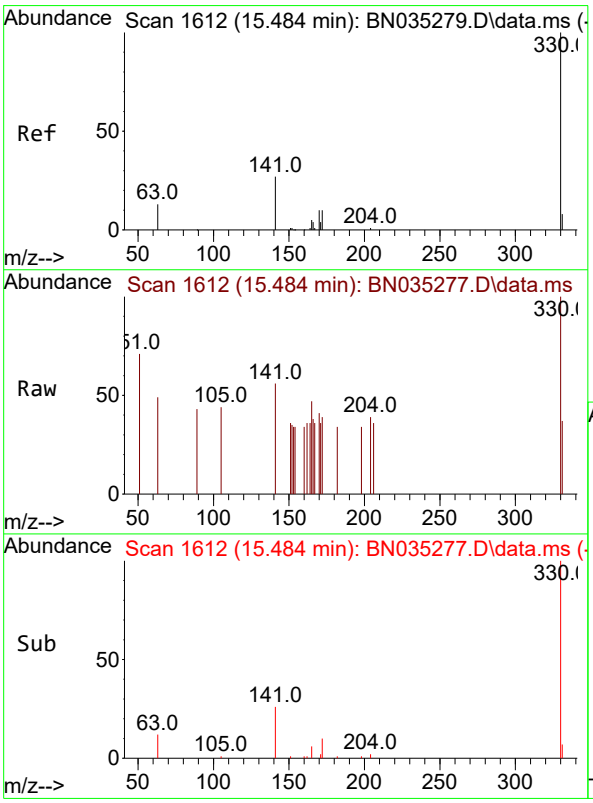
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 3999

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.0	123.0
160	66.8	63.0	94.4

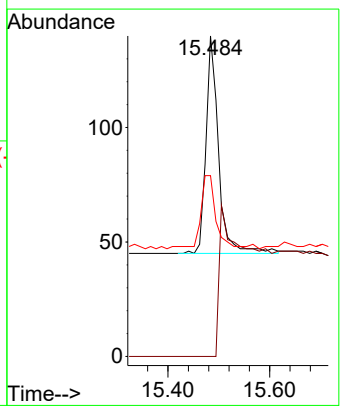


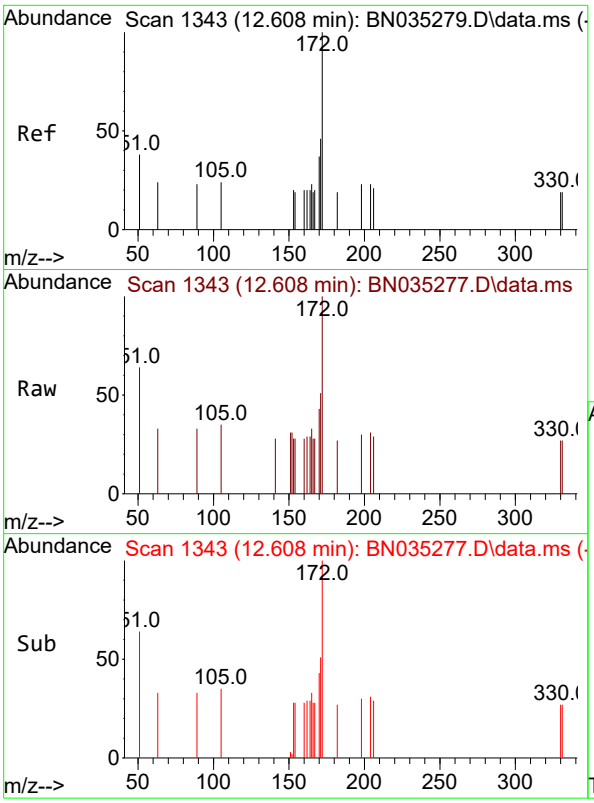


#14
2,4,6-Tribromophenol
Concen: 0.085 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:330 Resp: 174

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.5	32.4	48.6



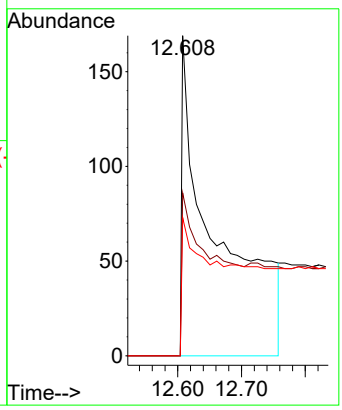


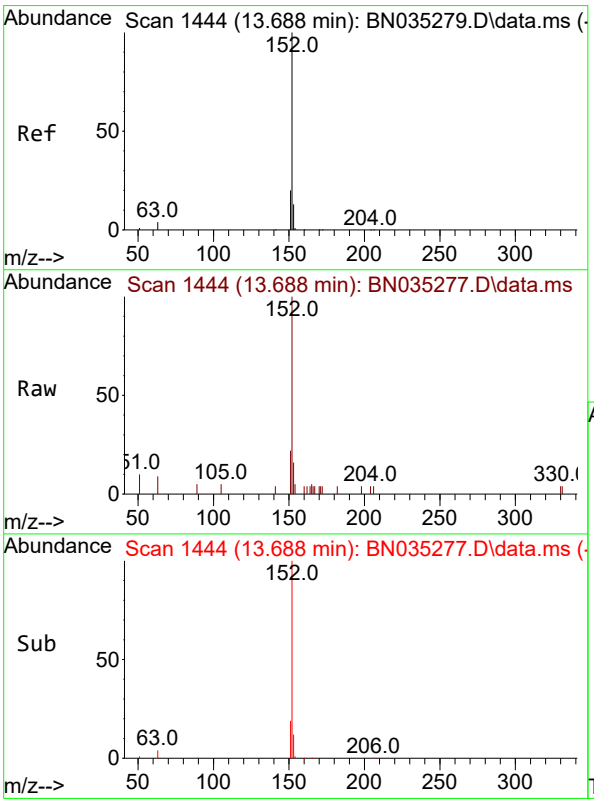
#15
2-Fluorobiphenyl
Concen: 0.269 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 595

Ion	Ratio	Lower	Upper
172	100		
171	50.9	36.6	55.0
170	43.2	29.7	44.5

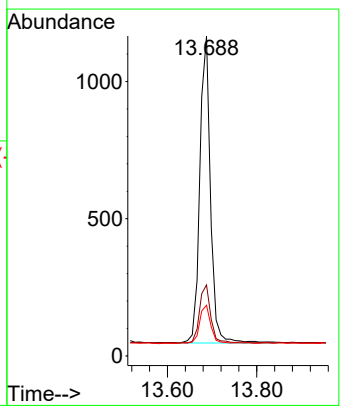


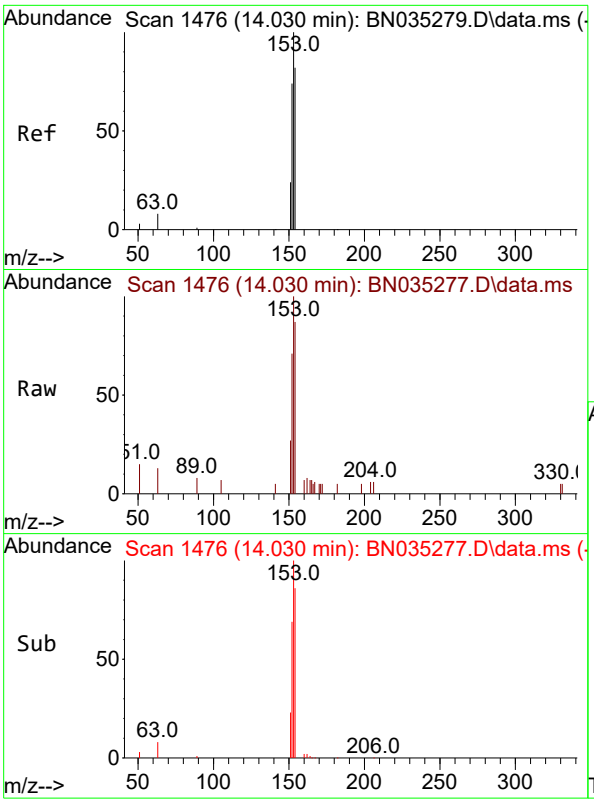


#16
Acenaphthylene
Concen: 0.092 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:152 Resp: 1859

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.9	23.9
153	13.4	10.2	15.4



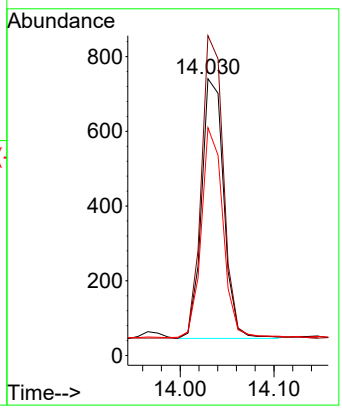


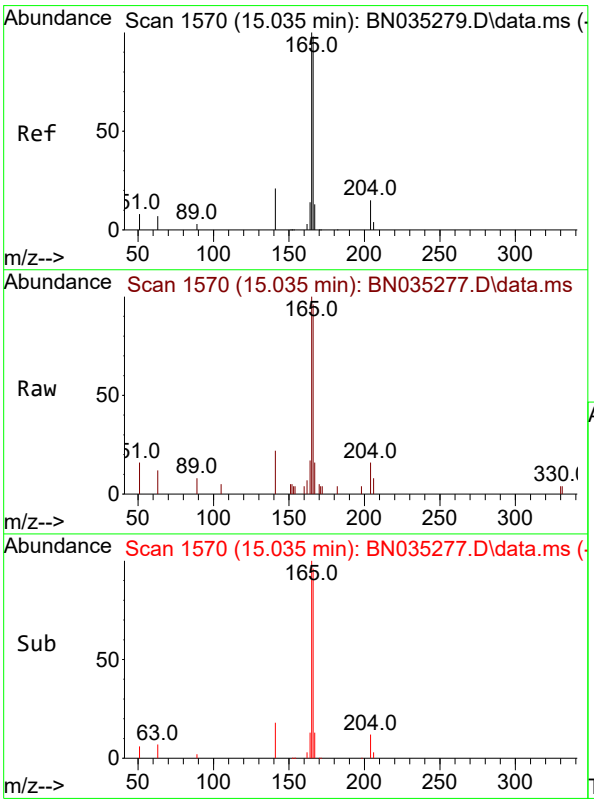
#17
Acenaphthene
Concen: 0.090 ng
RT: 14.030 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 1144

Ion	Ratio	Lower	Upper
154	100		
153	115.4	96.1	144.1
152	78.8	72.2	108.2

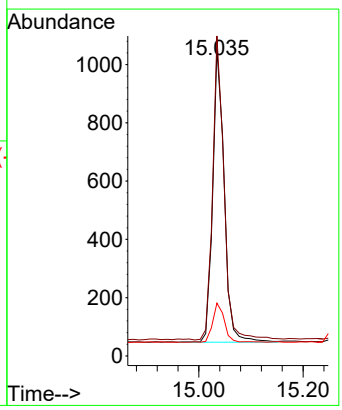


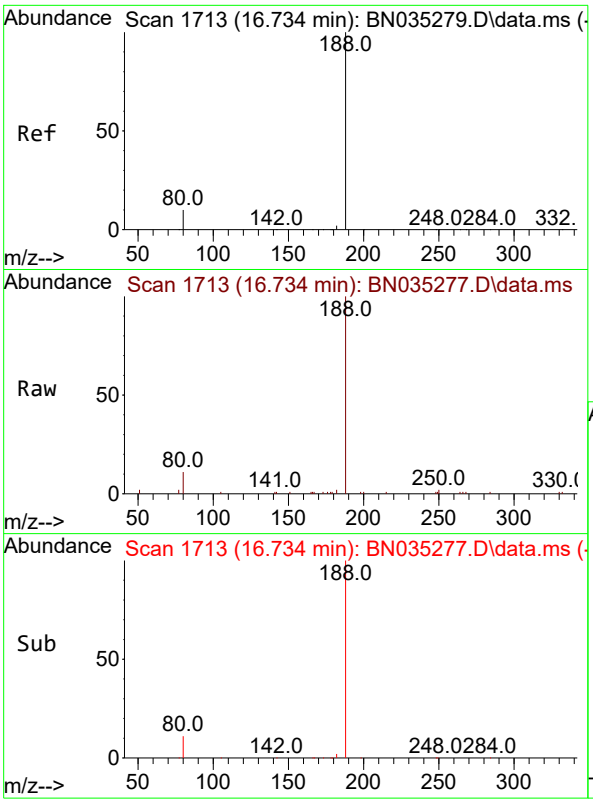


#18
Fluorene
Concen: 0.087 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:166 Resp: 1538

Ion	Ratio	Lower	Upper
166	100		
165	101.9	81.2	121.8
167	13.8	10.5	15.7



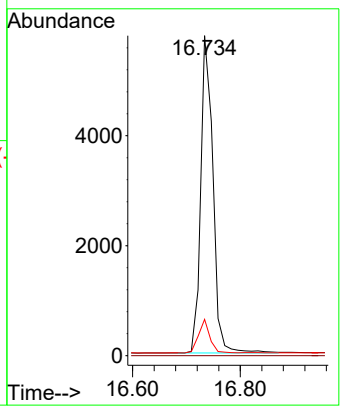


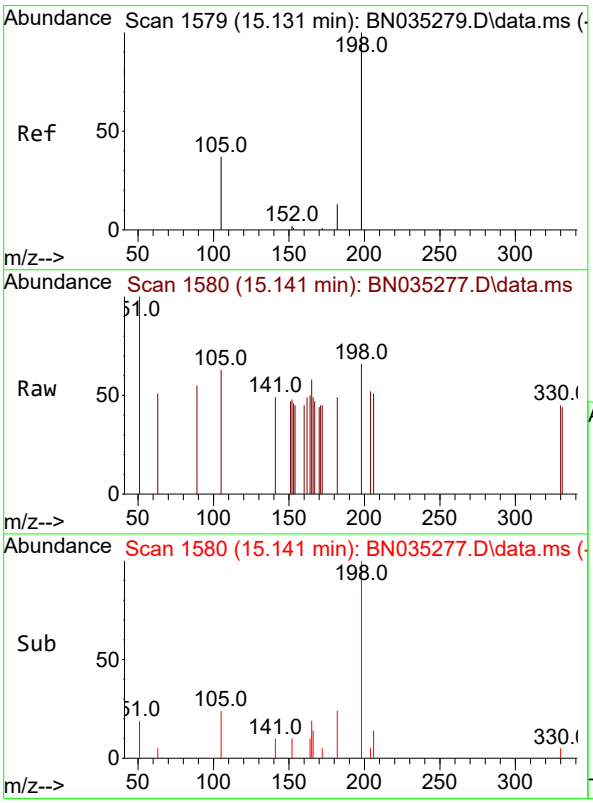
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 9103

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.4	8.9	13.3

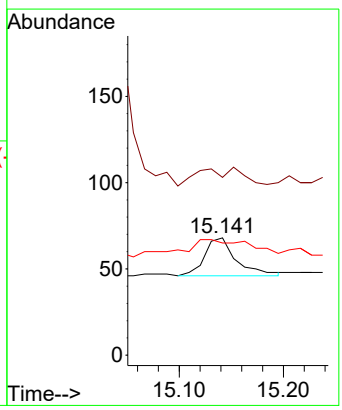


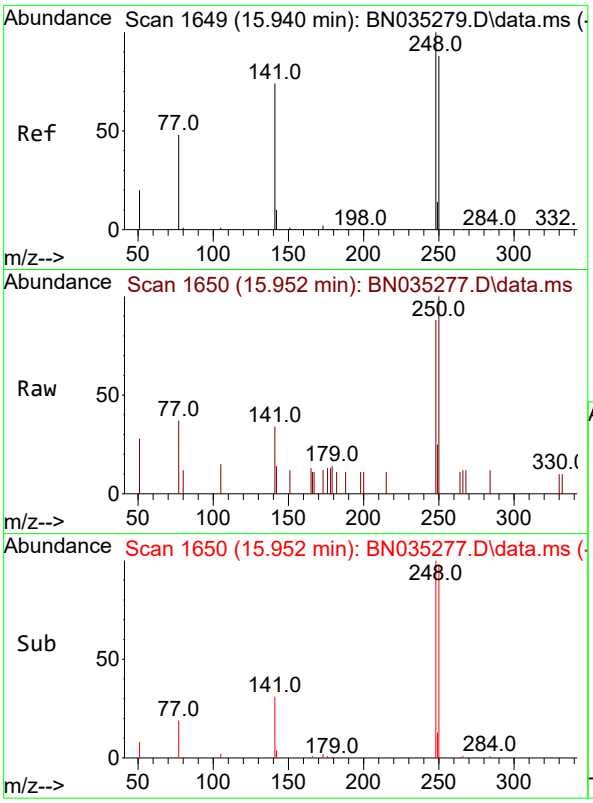


#20
4,6-Dinitro-2-methylphenol
Concen: 0.226 ng
RT: 15.141 min Scan# 1580
Delta R.T. 0.010 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:198 Resp: 47

Ion	Ratio	Lower	Upper
198	100		
51	151.5	53.6	80.4#
105	95.6	47.4	71.2#



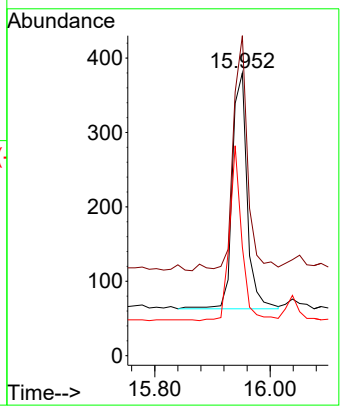


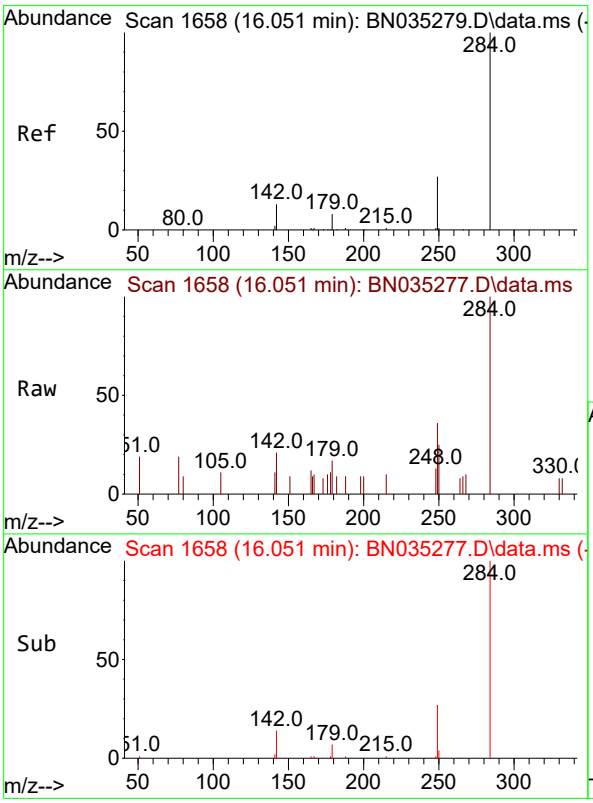
#21
4-Bromophenyl-phenylether
Concen: 0.098 ng
RT: 15.952 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 565

Ion	Ratio	Lower	Upper
248	100		
250	113.2	74.8	112.2#
141	38.4	59.0	88.4#

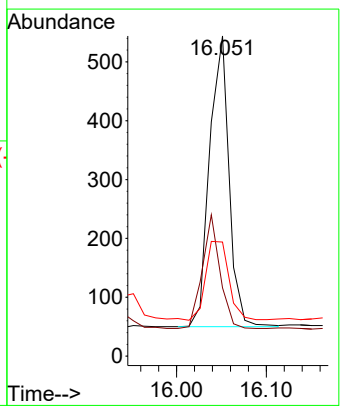


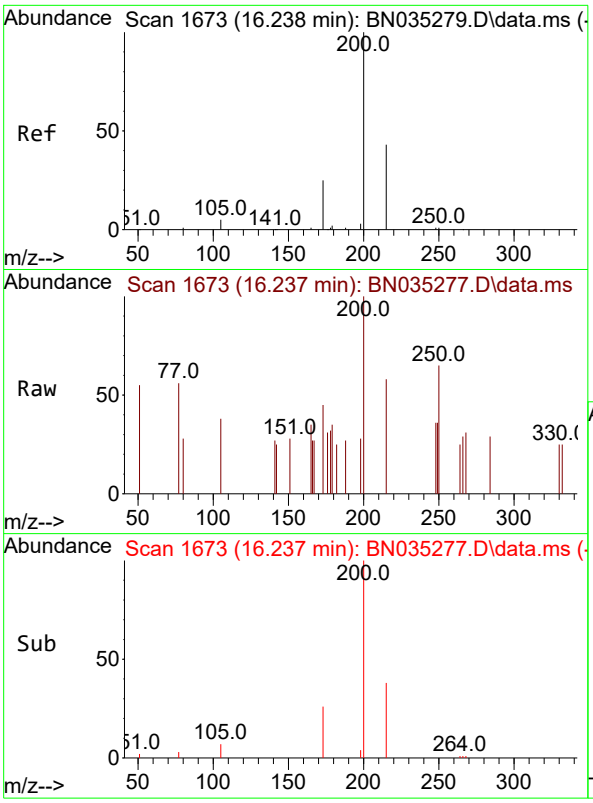


#22
Hexachlorobenzene
Concen: 0.090 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:284 Resp: 743

Ion	Ratio	Lower	Upper
284	100		
142	35.4	28.7	43.1
249	33.1	25.4	38.0



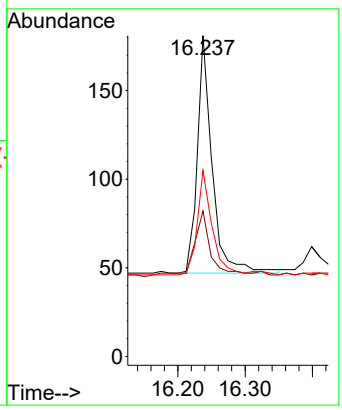


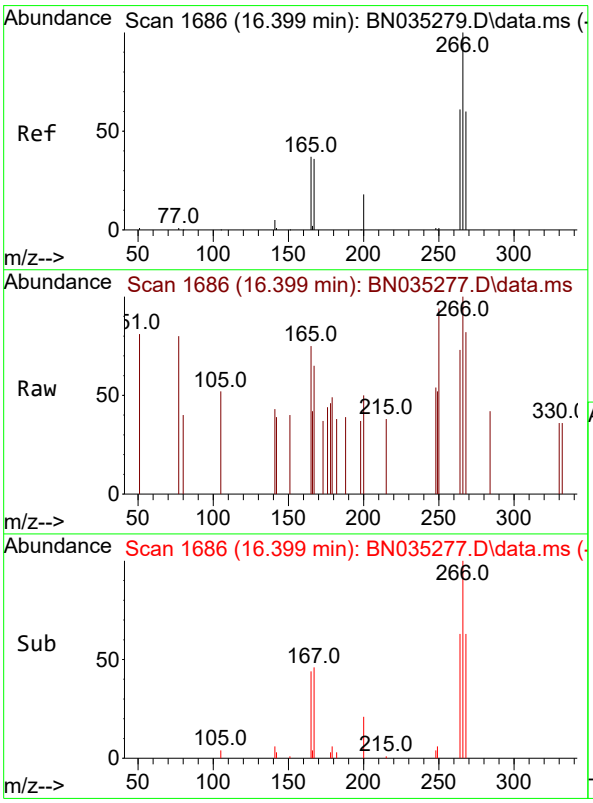
#23
Atrazine
Concen: 0.085 ng
RT: 16.237 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 206

Ion	Ratio	Lower	Upper
200	100		
173	45.3	25.8	38.8#
215	58.0	38.6	58.0#

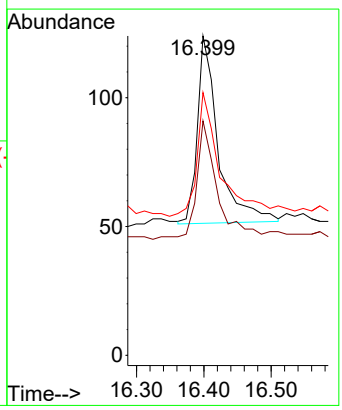


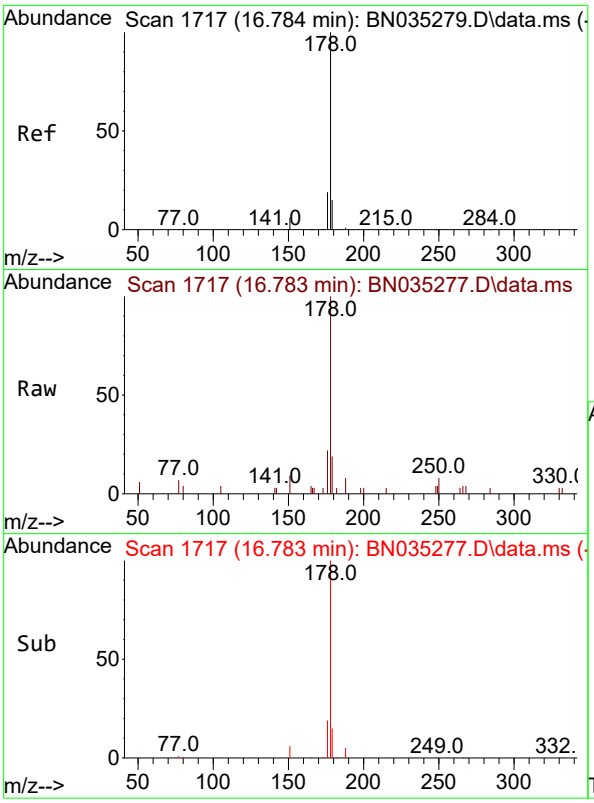


#24
Pentachlorophenol
Concen: 0.079 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:266 Resp: 157

Ion	Ratio	Lower	Upper
266	100		
264	68.2	49.3	73.9
268	77.1	48.6	73.0#



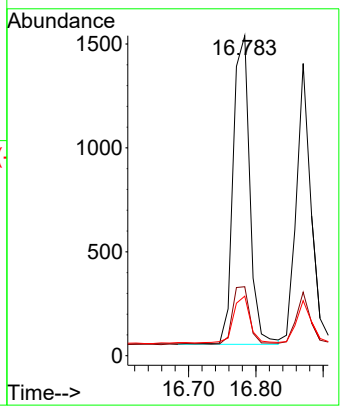


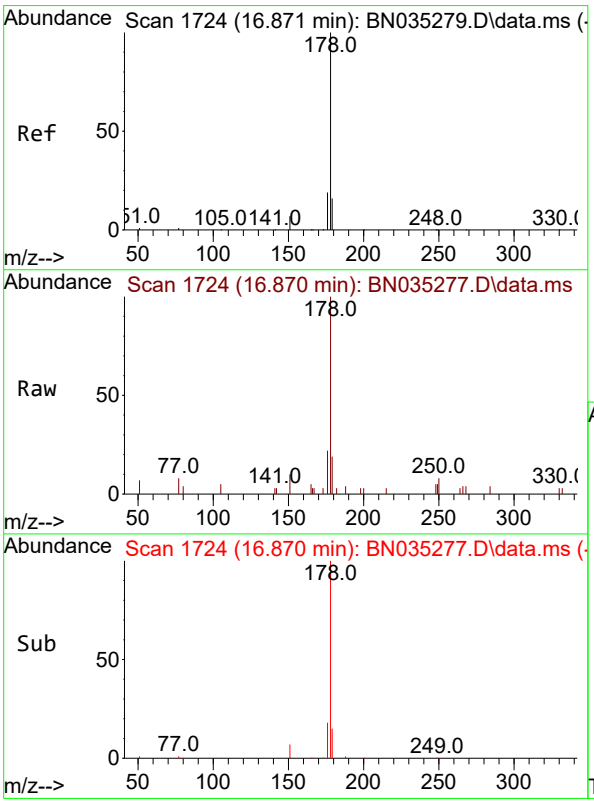
#25
Phenanthrene
Concen: 0.091 ng
RT: 16.783 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2552

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.2	12.6	18.8

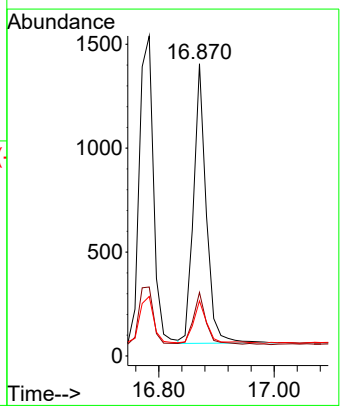


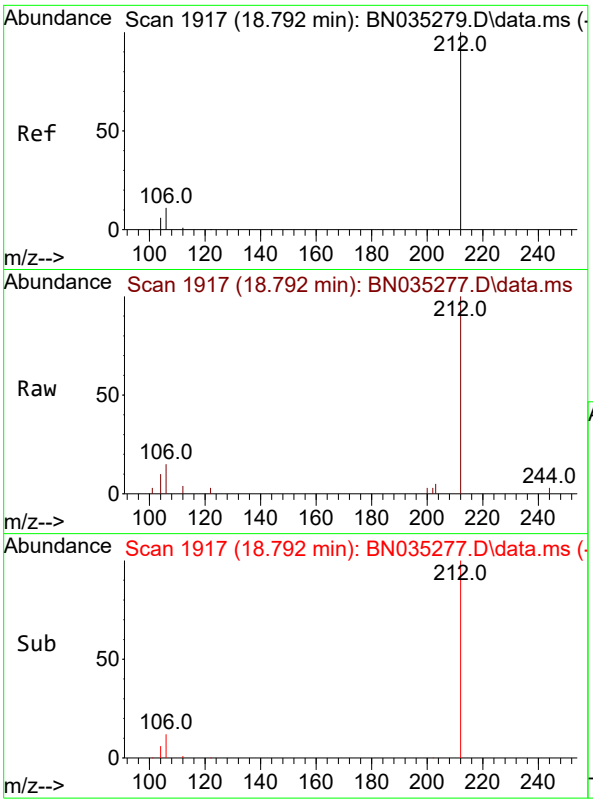


#26
Anthracene
Concen: 0.086 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:178 Resp: 2057

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.4
179	15.9	12.4	18.6



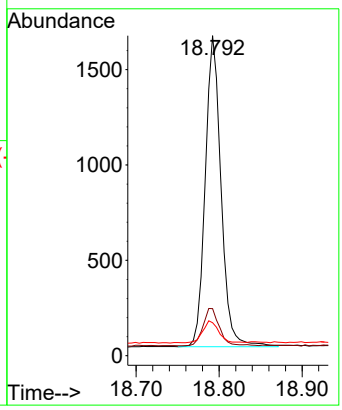


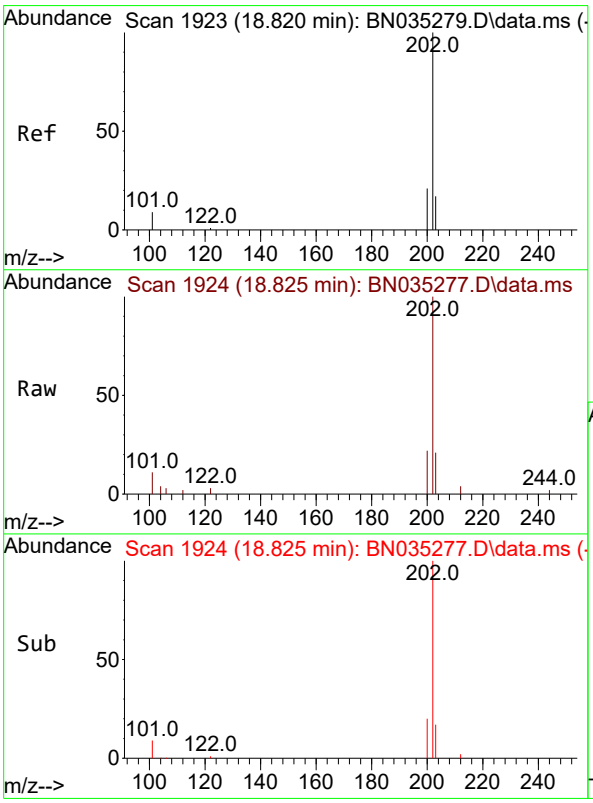
#27
Fluoranthene-d10
Concen: 0.089 ng
RT: 18.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 2168

Ion	Ratio	Lower	Upper
212	100		
106	12.5	9.8	14.8
104	7.1	5.6	8.4

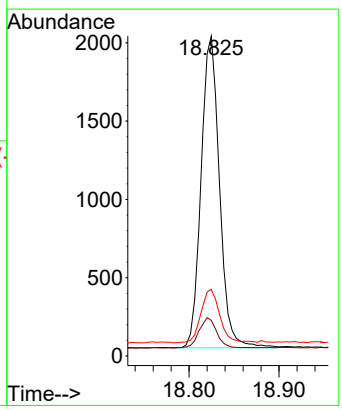


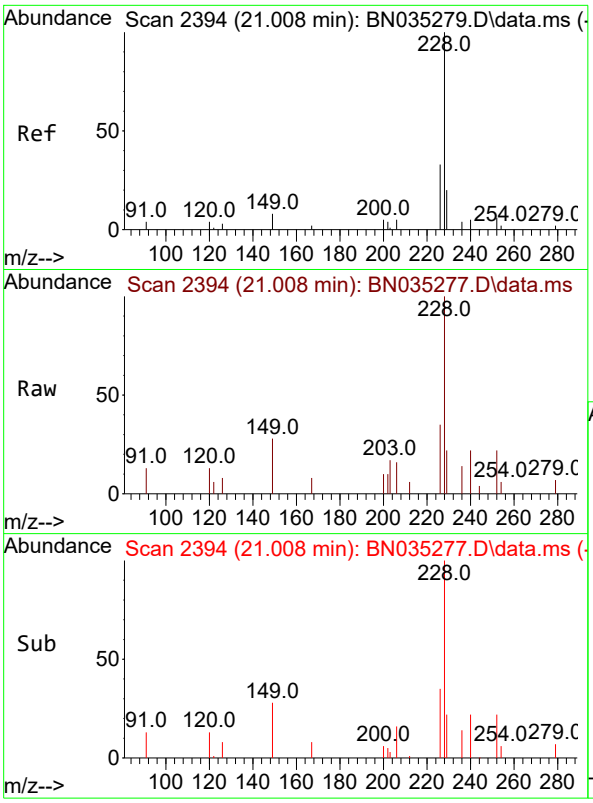


#28
Fluoranthene
Concen: 0.080 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.005 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:202 Resp: 2840

Ion	Ratio	Lower	Upper
202	100		
101	9.6	7.6	11.4
203	17.6	13.8	20.8



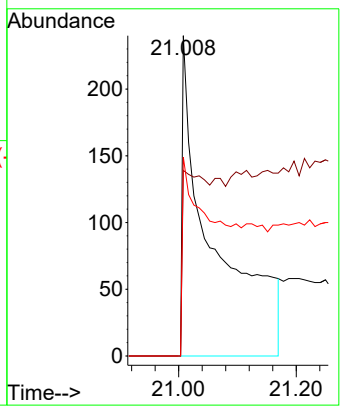


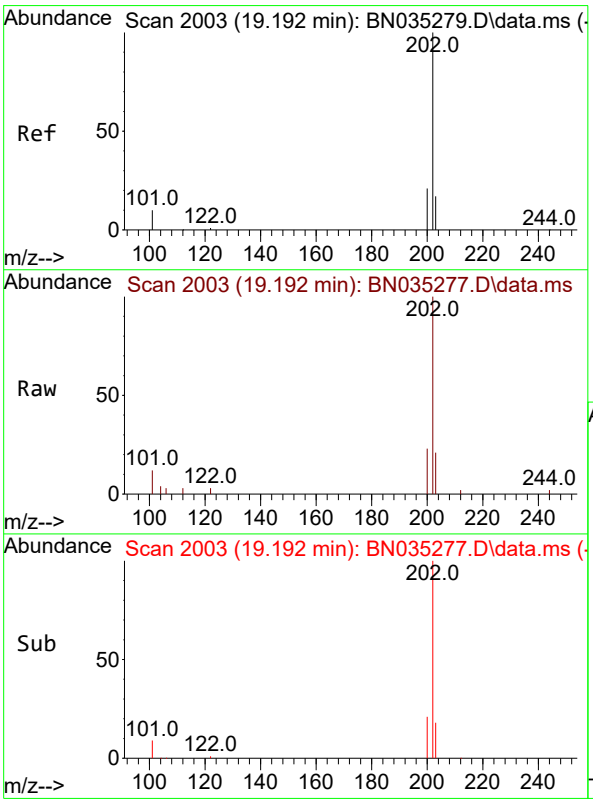
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 834

Ion	Ratio	Lower	Upper
240	100		
120	57.9	54.9	82.3
236	62.1	54.0	81.0

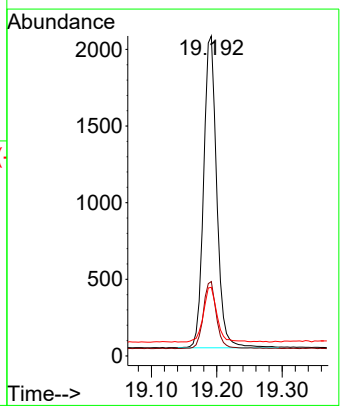


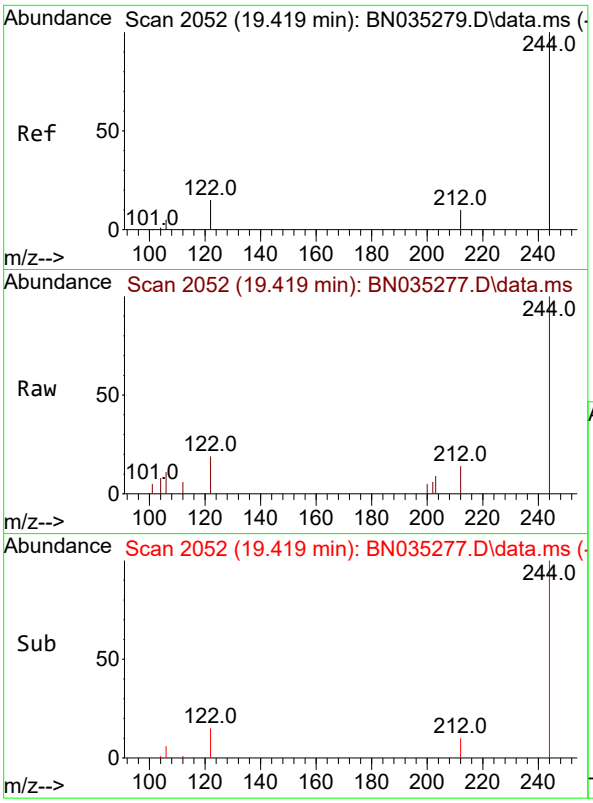


#30
Pyrene
Concen: 0.093 ng
RT: 19.192 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:202 Resp: 2830

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.8	25.2
203	17.9	14.4	21.6



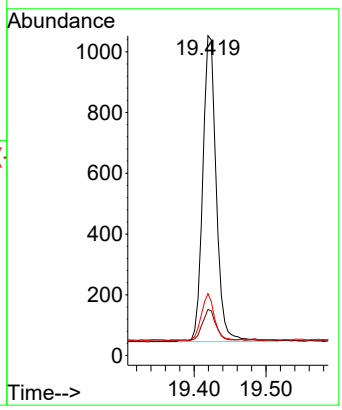


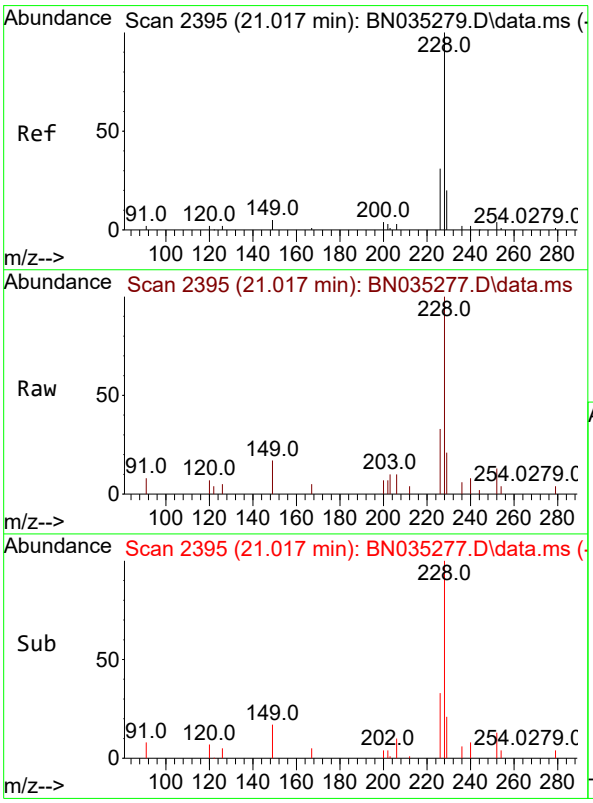
#31
Terphenyl-d14
Concen: 0.085 ng
RT: 19.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 1310

Ion	Ratio	Lower	Upper
244	100		
212	14.4	9.4	14.0#
122	19.4	13.0	19.4

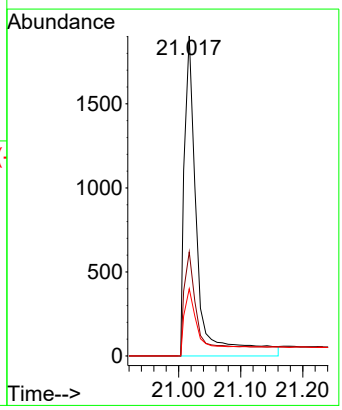


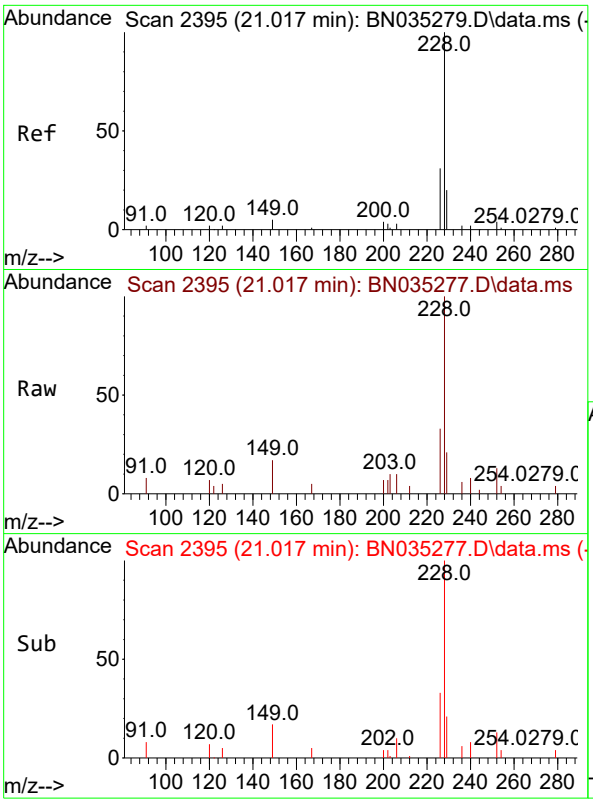


#32
Benzo(a)anthracene
Concen: 0.093 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:228 Resp: 2709

Ion	Ratio	Lower	Upper
228	100		
226	32.5	24.7	37.1
229	21.0	16.2	24.2



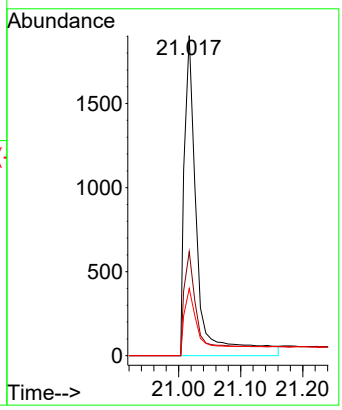


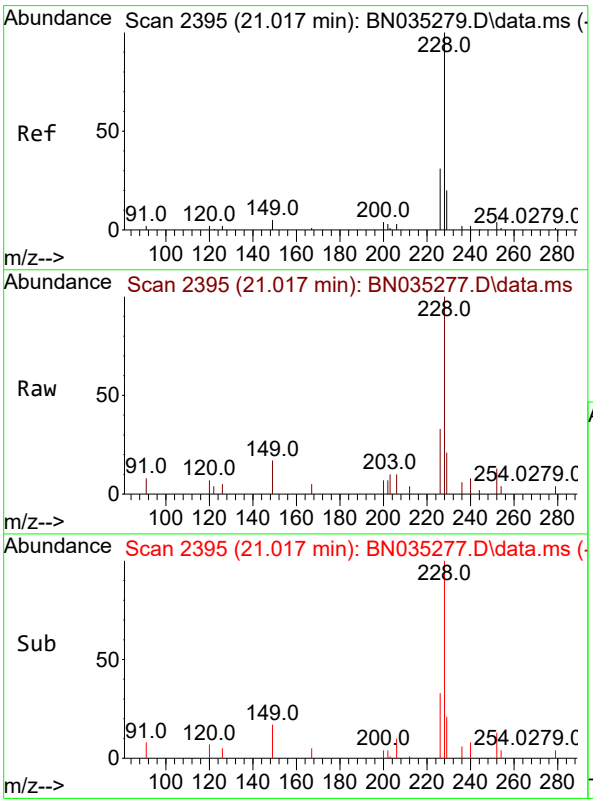
#33
Chrysene
Concen: 0.093 ng
RT: 21.017 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 2709

Ion	Ratio	Lower	Upper
228	100		
226	32.5	24.7	37.1
229	21.0	16.2	24.2

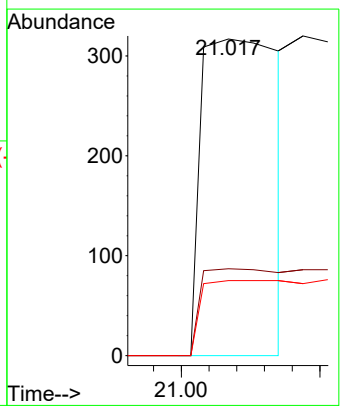


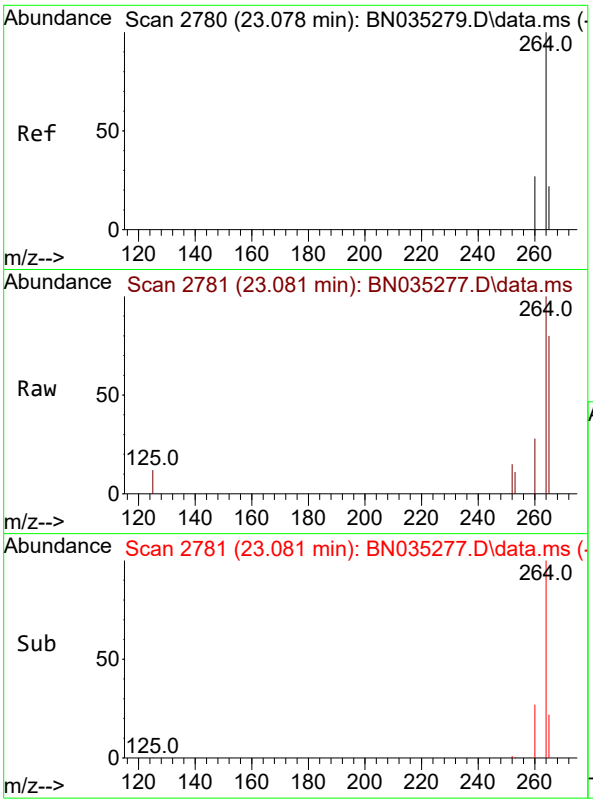


#34
Bis(2-ethylhexyl)phthalate
Concen: Below Cal
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:149 Resp: 540

Ion	Ratio	Lower	Upper
149	100		
167	27.4	0.0	0.0#
279	30.7	13.0	19.6#



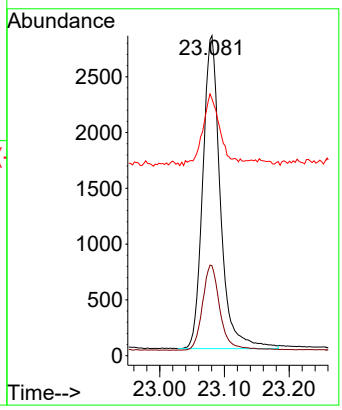


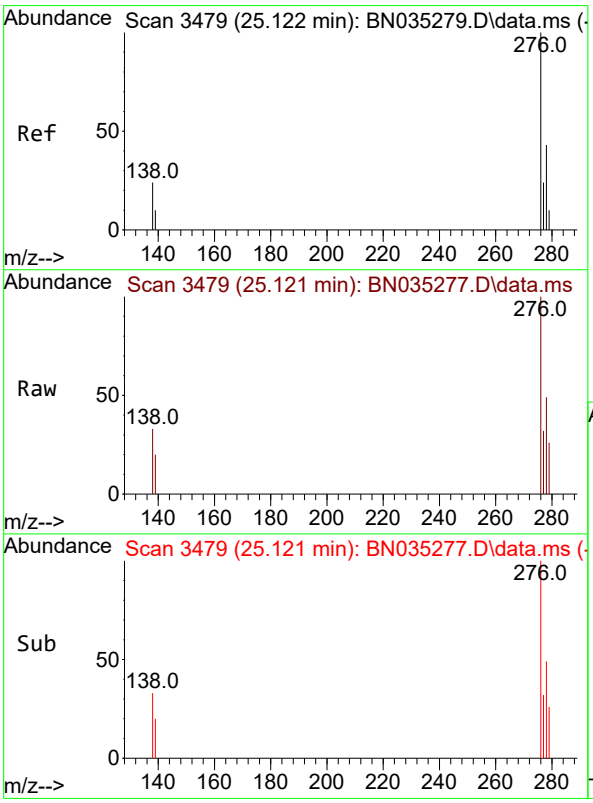
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 5298

Ion	Ratio	Lower	Upper
264	100		
260	28.1	22.3	33.5
265	80.3	68.6	103.0

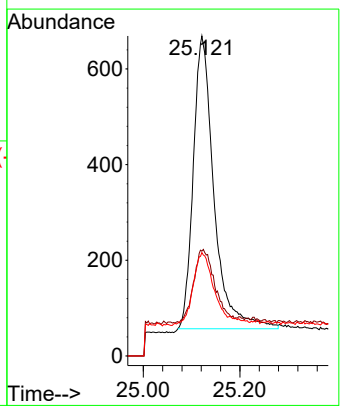


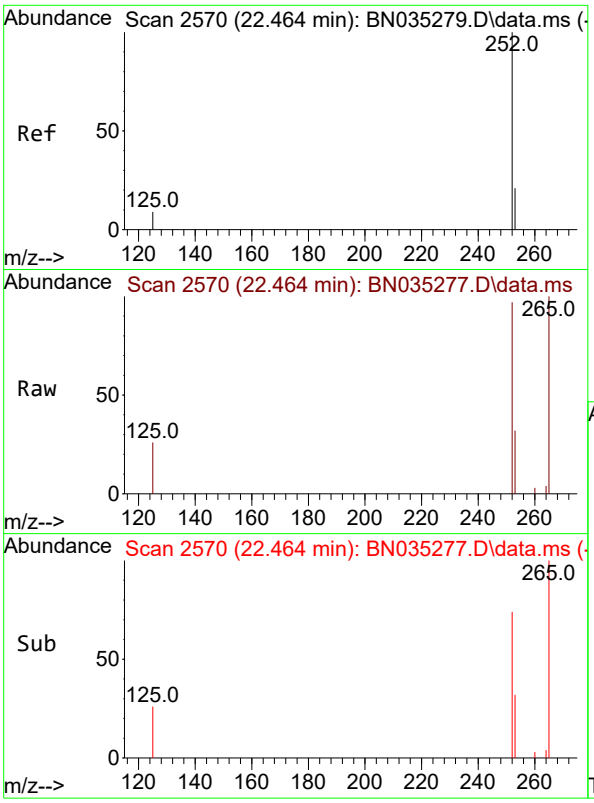


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.084 ng
RT: 25.121 min Scan# 3479
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:276 Resp: 1824

Ion	Ratio	Lower	Upper
276	100		
138	21.8	18.8	28.2
277	22.8	18.2	27.4



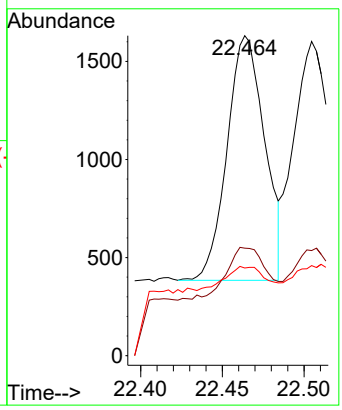


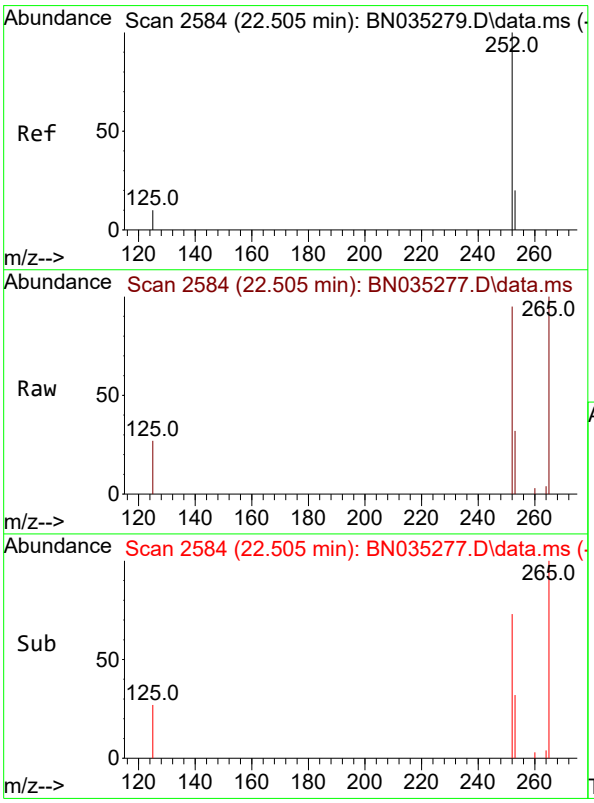
#37
Benzo(b)fluoranthene
Concen: 0.087 ng
RT: 22.464 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 1993

Ion	Ratio	Lower	Upper
252	100		
253	33.6	20.2	30.2#
125	27.4	12.0	18.0#

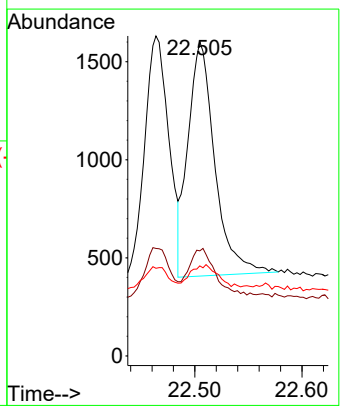


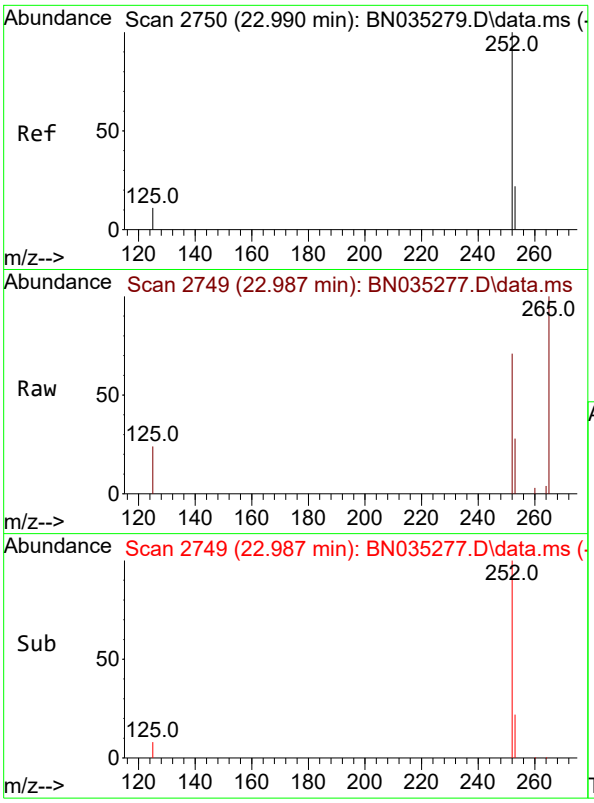


#38
Benzo(k)fluoranthene
Concen: 0.085 ng
RT: 22.505 min Scan# 2584
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:252 Resp: 2076

Ion	Ratio	Lower	Upper
252	100		
253	33.5	20.1	30.1#
125	28.7	12.7	19.1#



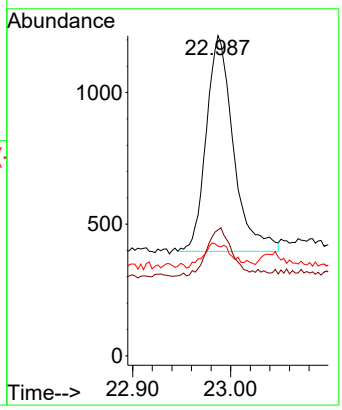


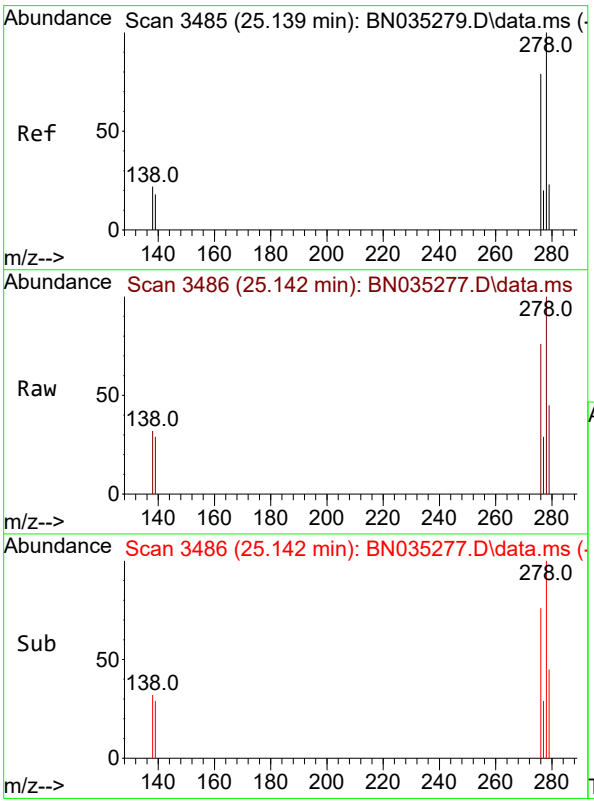
#39
Benzo(a)pyrene
Concen: 0.090 ng
RT: 22.987 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 1578

Ion	Ratio	Lower	Upper
252	100		
253	39.3	22.3	33.5#
125	34.3	15.3	22.9#

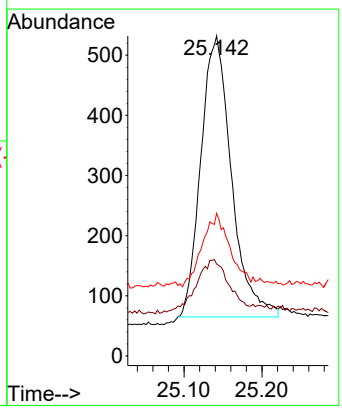


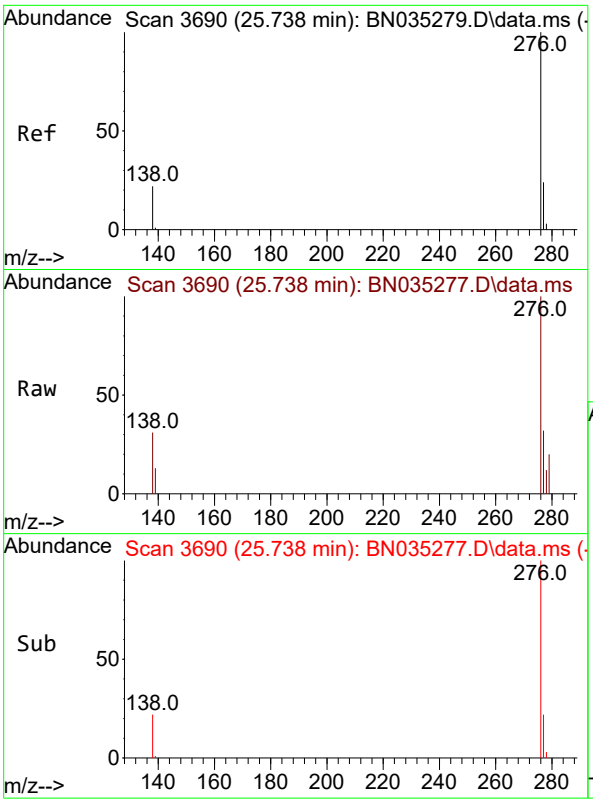


#40
Dibenzo(a,h)anthracene
Concen: 0.078 ng
RT: 25.142 min Scan# 3486
Delta R.T. 0.003 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:278 Resp: 1273

Ion	Ratio	Lower	Upper
278	100		
139	28.8	17.0	25.6#
279	44.5	23.0	34.4#



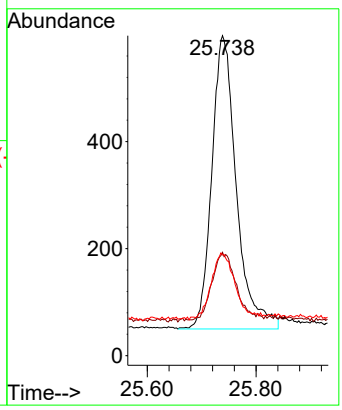


#41
Benzo(g,h,i)perylene
Concen: 0.091 ng
RT: 25.738 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 1716

Ion	Ratio	Lower	Upper
276	100		
277	32.3	21.1	31.7#
138	31.4	19.8	29.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035278.D
Acq On : 25 Nov 2024 10:52
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 25 18:31:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration

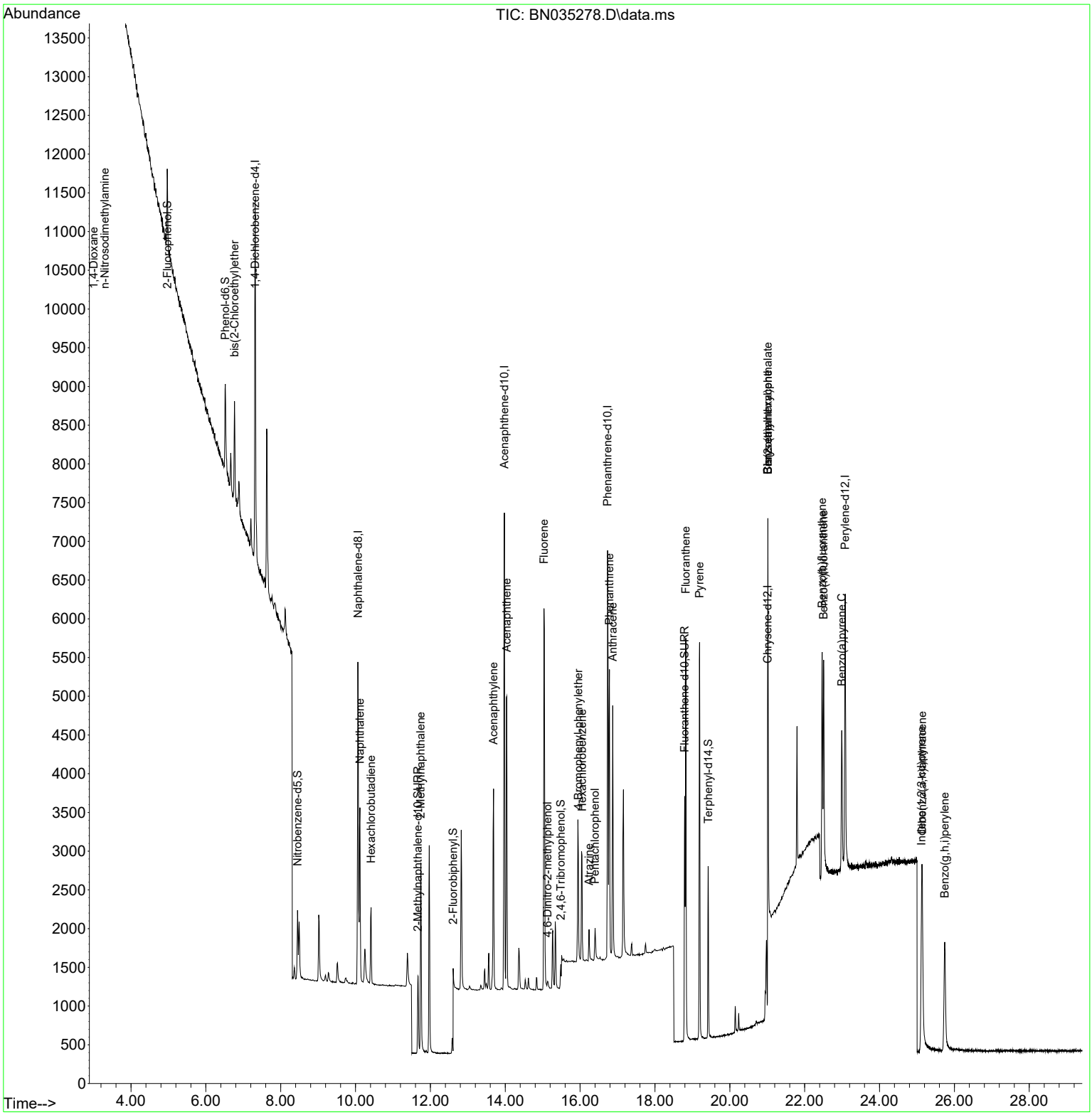
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.315	152	2248	0.400	ng		0.00
7) Naphthalene-d8	10.063	136	5670	0.400	ng		0.00
13) Acenaphthene-d10	13.976	164	3200	0.400	ng		0.00
19) Phenanthrene-d10	16.734	188	7531	0.400	ng		0.00
29) Chrysene-d12	21.008	240	797	0.400	ng		0.00
35) Perylene-d12	23.084	264	4527	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.975	112	891	0.210	ng		0.00
5) Phenol-d6	6.520	99	1264	0.213	ng		0.00
8) Nitrobenzene-d5	8.450	82	1060	0.231	ng		0.00
11) 2-Methylnaphthalene-d10	11.666	152	1506	0.190	ng		0.00
14) 2,4,6-Tribromophenol	15.484	330	279	0.171	ng		0.00
15) 2-Fluorobiphenyl	12.608	172	679	0.384	ng		0.00
27) Fluoranthene-d10	18.792	212	3625	0.180	ng		0.00
31) Terphenyl-d14	19.424	244	2197	0.149	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	310	0.192	ng	#	75
3) n-Nitrosodimethylamine	3.299	42	314	0.188	ng	#	82
6) bis(2-Chloroethyl)ether	6.766	93	978	0.196	ng		98
9) Naphthalene	10.116	128	2990	0.190	ng		96
10) Hexachlorobutadiene	10.415	225	818	0.185	ng	#	98
12) 2-Methylnaphthalene	11.742	142	1929	0.187	ng		97
16) Acenaphthylene	13.688	152	2991	0.186	ng		99
17) Acenaphthene	14.040	154	1852	0.183	ng		97
18) Fluorene	15.035	166	2587	0.182	ng		98
20) 4,6-Dinitro-2-methylph...	15.131	198	102	0.283	ng	#	49
21) 4-Bromophenyl-phenylether	15.952	248	888	0.186	ng	#	70
22) Hexachlorobenzene	16.051	284	1264	0.185	ng		98
23) Atrazine	16.237	200	357	0.177	ng		92
24) Pentachlorophenol	16.399	266	252	0.154	ng		97
25) Phenanthrene	16.783	178	4155	0.180	ng		100
26) Anthracene	16.870	178	3384	0.170	ng		99
28) Fluoranthene	18.825	202	4828	0.165	ng		100
30) Pyrene	19.192	202	4697	0.162	ng		99
32) Benzo(a)anthracene	21.017	228	4459	0.161	ng		99
33) Chrysene	21.017	228	4459	0.161	ng		99
34) Bis(2-ethylhexyl)phtha...	21.017	149	696	0.104	ng	#	92
36) Indeno(1,2,3-cd)pyrene	25.121	276	3191	0.172	ng		99
37) Benzo(b)fluoranthene	22.467	252	3513	0.179	ng	#	90
38) Benzo(k)fluoranthene	22.505	252	3588	0.172	ng	#	90
39) Benzo(a)pyrene	22.990	252	2673	0.178	ng	#	87
40) Dibenzo(a,h)anthracene	25.142	278	2328	0.166	ng	#	90
41) Benzo(g,h,i)perylene	25.741	276	2967	0.183	ng		95

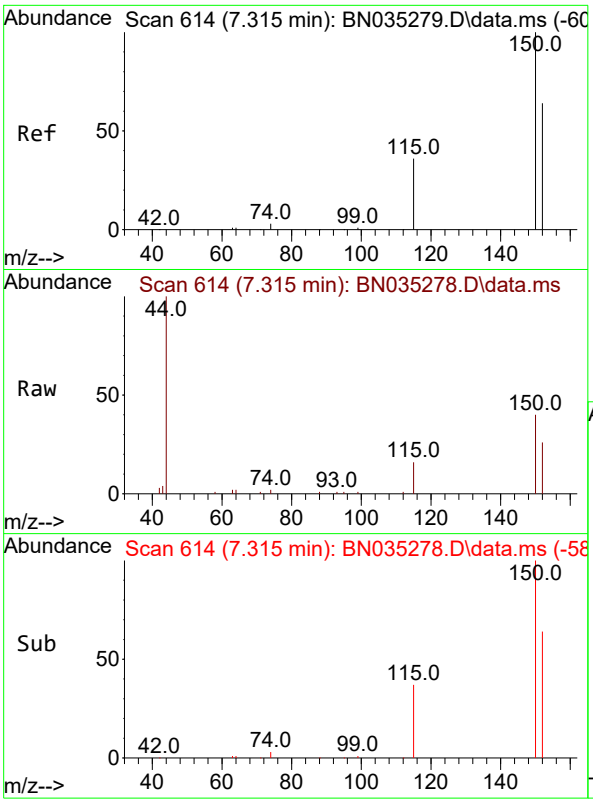
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035278.D
Acq On : 25 Nov 2024 10:52
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 25 18:31:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration



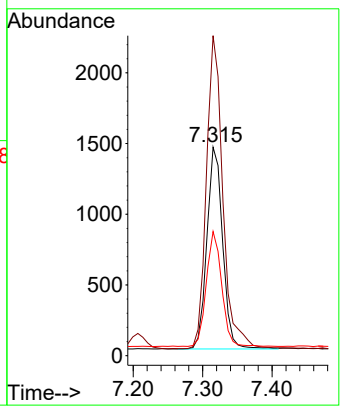


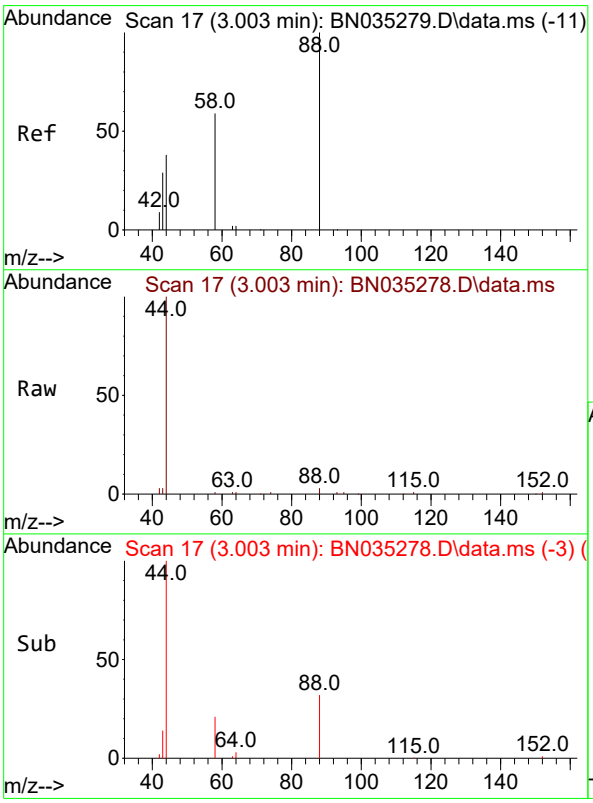
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 2248

Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.5	186.7
115	59.6	47.8	71.8

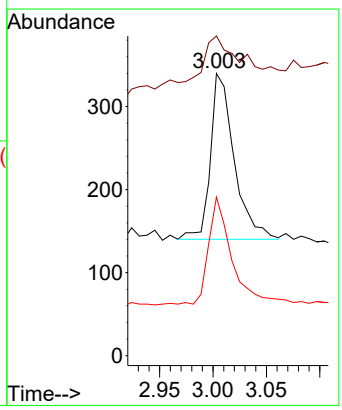


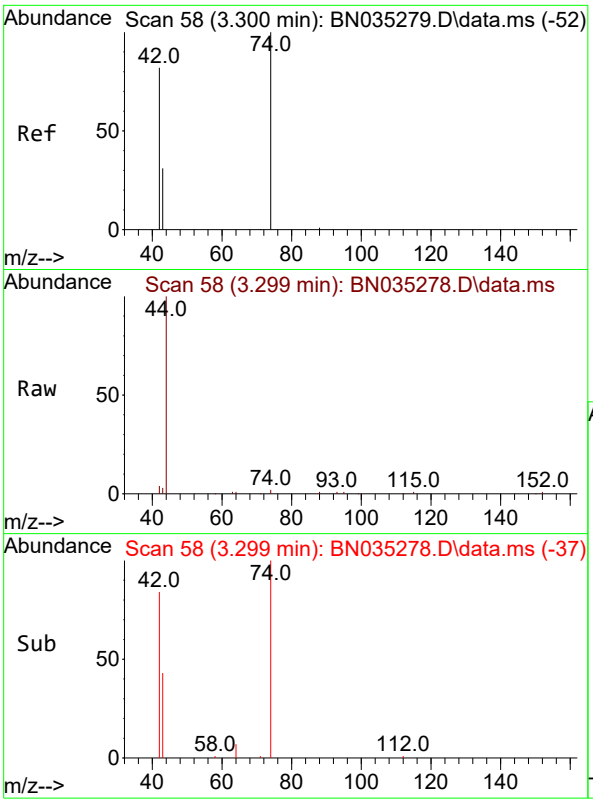


#2
1,4-Dioxane
Concen: 0.192 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion: 88 Resp: 310

Ion	Ratio	Lower	Upper
88	100		
43	91.0	48.1	72.1#
58	65.5	46.9	70.3



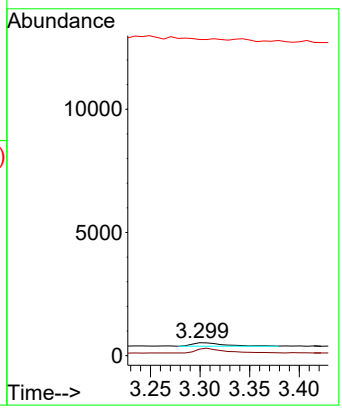


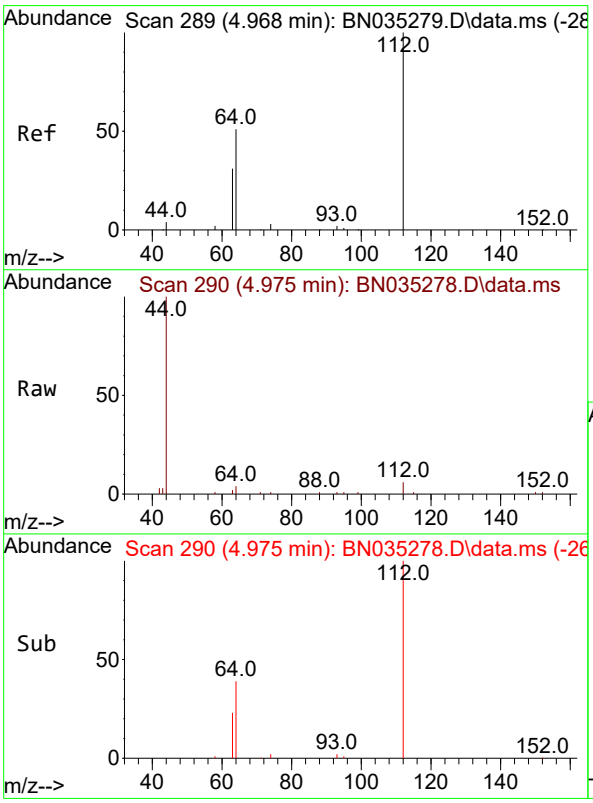
#3
n-Nitrosodimethylamine
Concen: 0.188 ng
RT: 3.299 min Scan# 5
Delta R.T. -0.001 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 314

Ion	Ratio	Lower	Upper
42	100		
74	125.8	102.7	154.1
44	0.0	34.1	51.1#

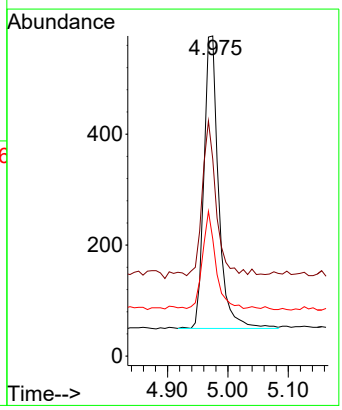


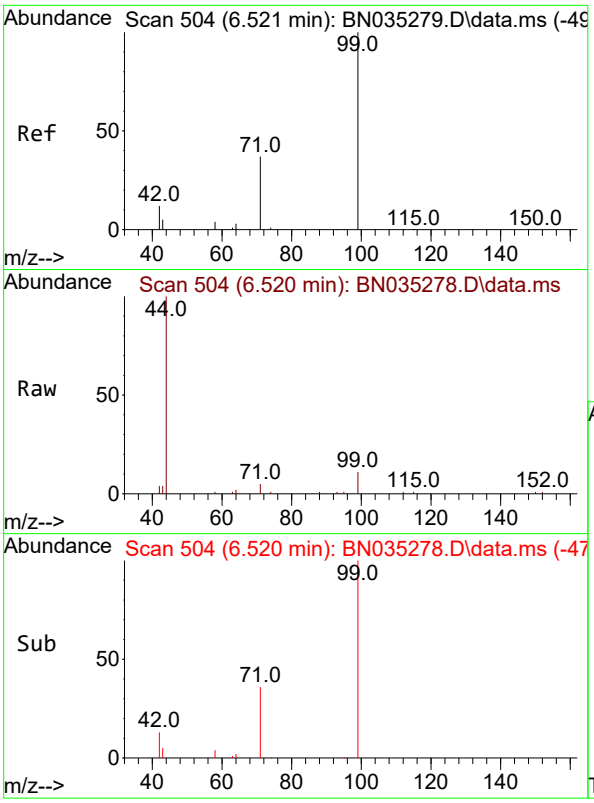


#4
2-Fluorophenol
Concen: 0.210 ng
RT: 4.975 min Scan# 290
Delta R.T. 0.007 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:112 Resp: 891

Ion	Ratio	Lower	Upper
112	100		
64	50.3	40.4	60.6
63	29.5	23.8	35.8



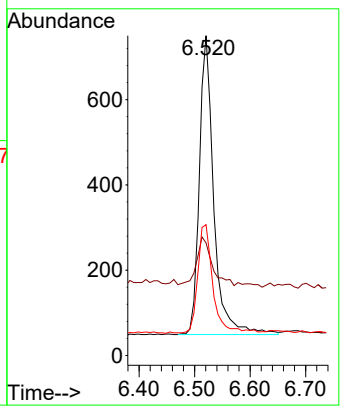


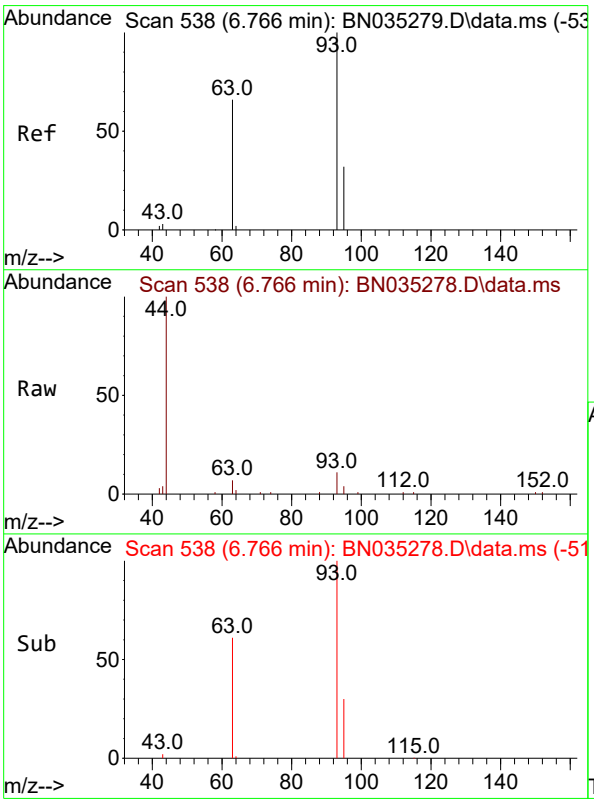
#5
Phenol-d6
Concen: 0.213 ng
RT: 6.520 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1264

Ion	Ratio	Lower	Upper
99	100		
42	20.3	12.8	19.2#
71	37.8	31.4	47.2

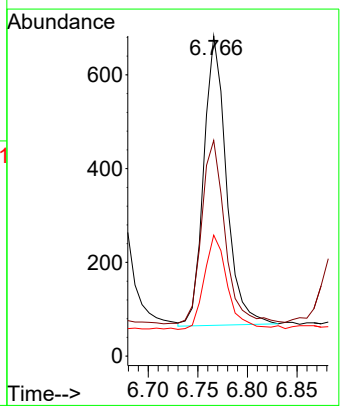


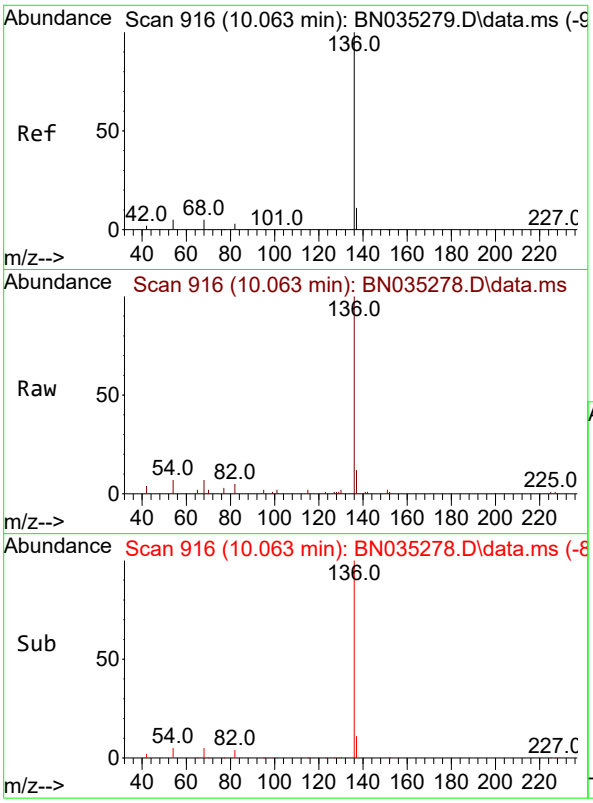


#6
bis(2-Chloroethyl)ether
Concen: 0.196 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion: 93 Resp: 978

Ion	Ratio	Lower	Upper
93	100		
63	66.0	52.3	78.5
95	33.7	25.5	38.3



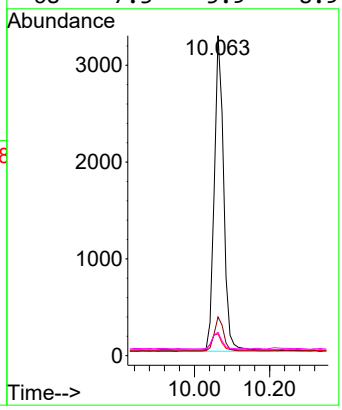


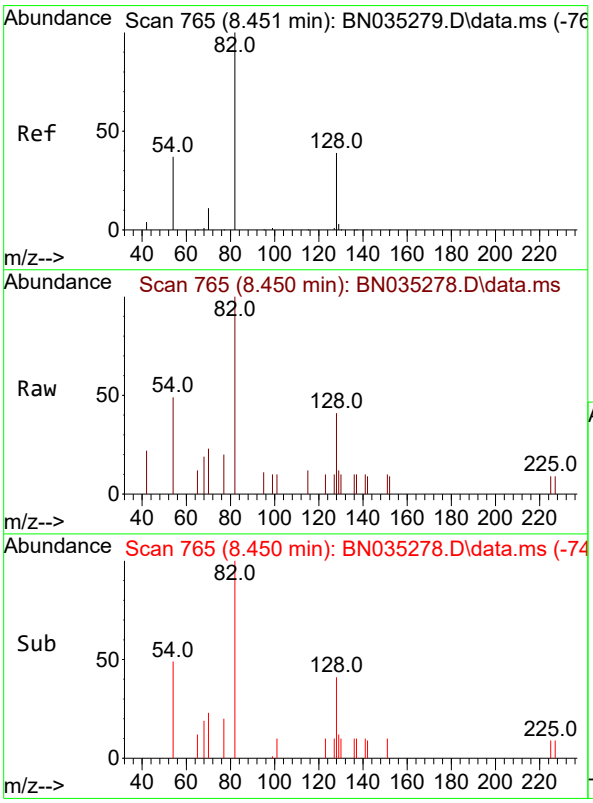
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 5670

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	6.8	5.3	7.9
68	7.3	5.9	8.9

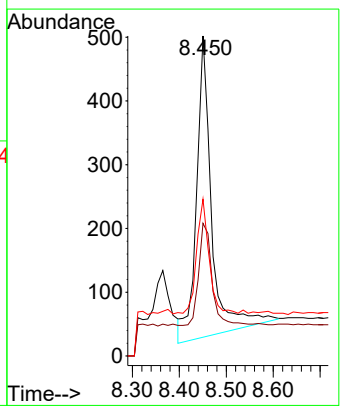


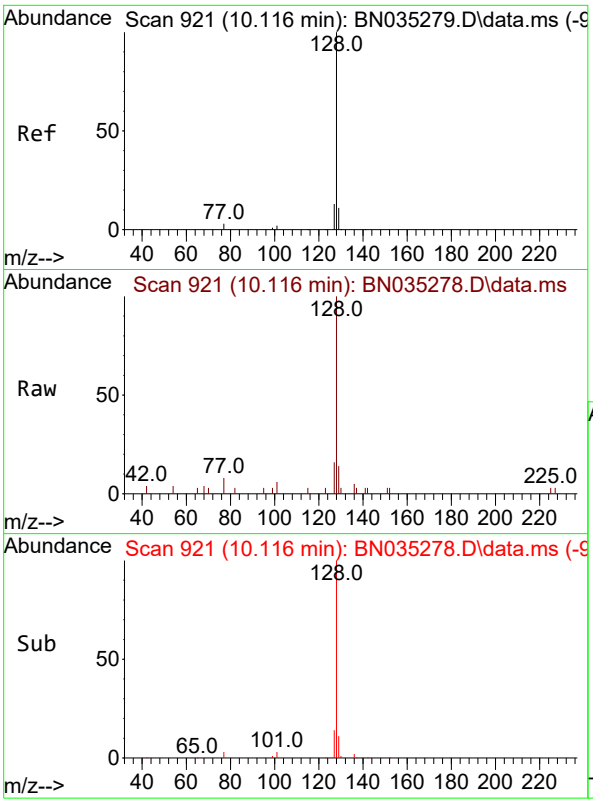


#8
Nitrobenzene-d5
Concen: 0.231 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion: 82 Resp: 1060

Ion	Ratio	Lower	Upper
82	100		
128	41.4	33.0	49.4
54	49.0	33.3	49.9



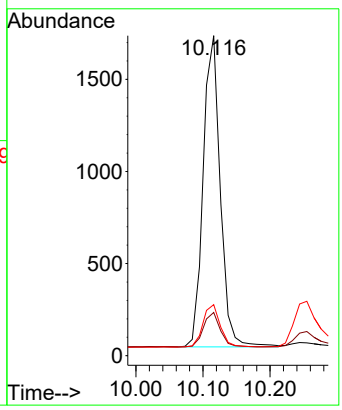


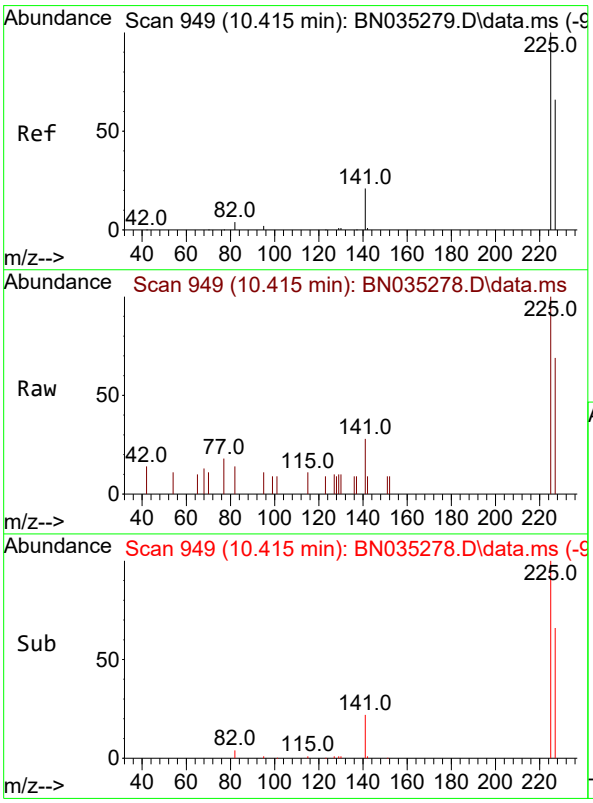
#9
Naphthalene
Concen: 0.190 ng
RT: 10.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2990

Ion	Ratio	Lower	Upper
128	100		
129	13.5	9.6	14.4
127	15.9	11.3	16.9

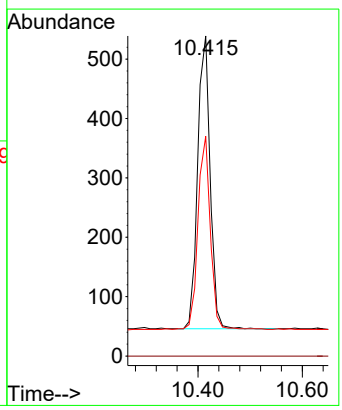


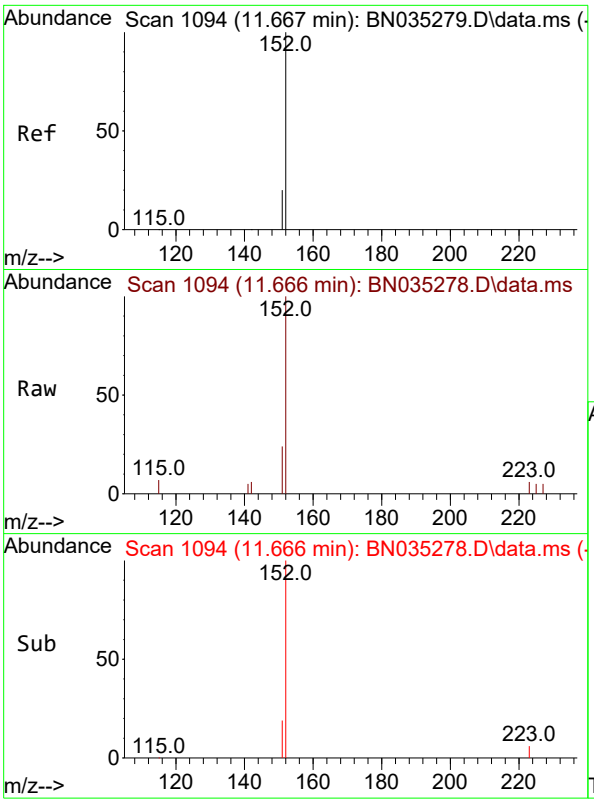


#10
Hexachlorobutadiene
Concen: 0.185 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:225 Resp: 818

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	51.3	76.9



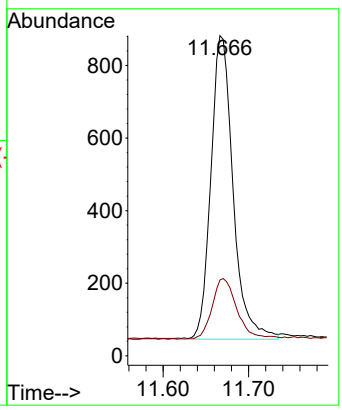


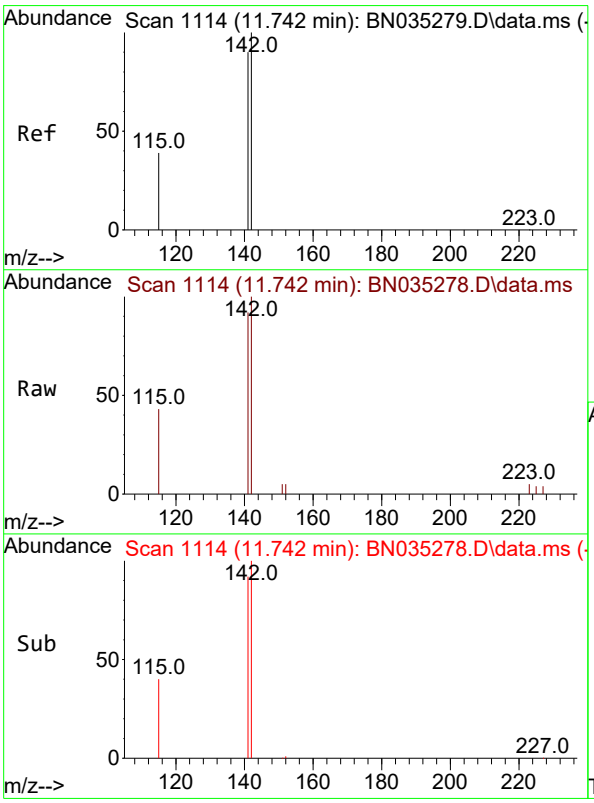
#11
2-Methylnaphthalene-d10
Concen: 0.190 ng
RT: 11.666 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1506

Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.2	25.8

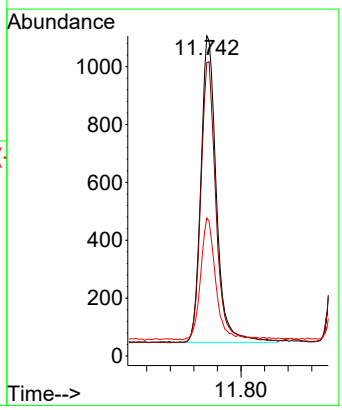


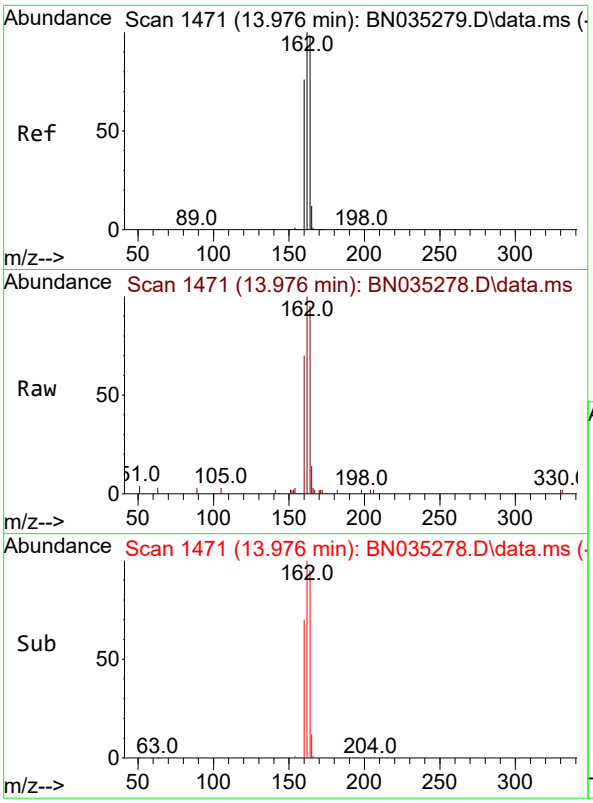


#12
2-Methylnaphthalene
Concen: 0.187 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:142 Resp: 1929

Ion	Ratio	Lower	Upper
142	100		
141	91.7	71.8	107.8
115	43.1	32.6	49.0



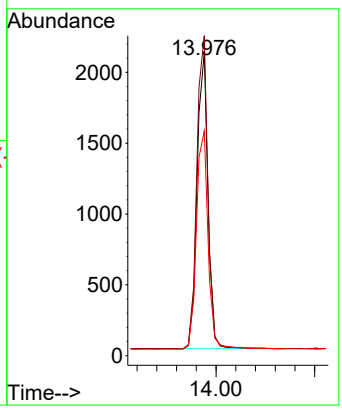


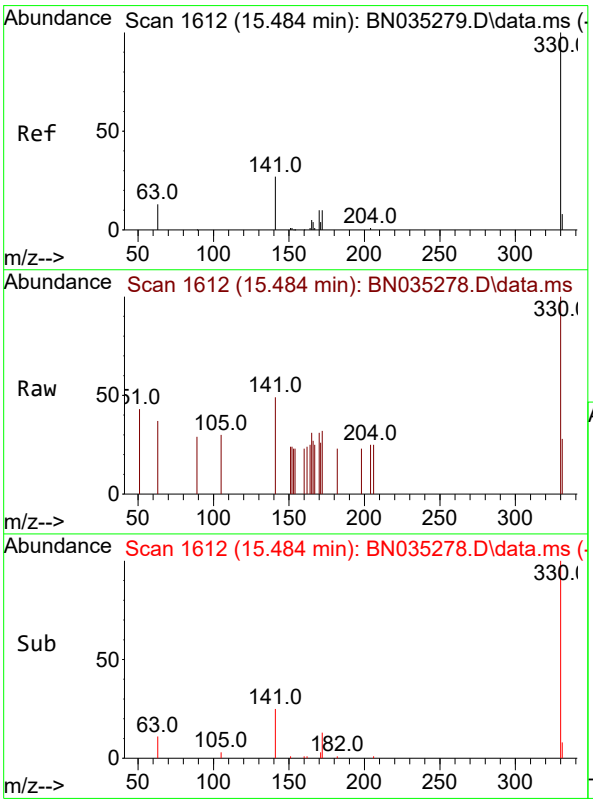
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 3200

Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.0	123.0
160	74.2	63.0	94.4

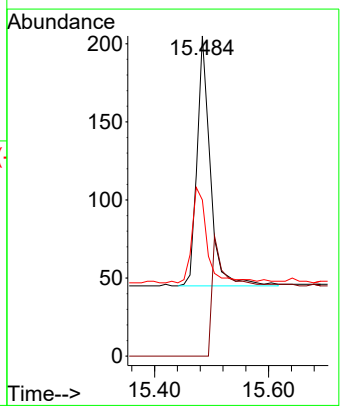


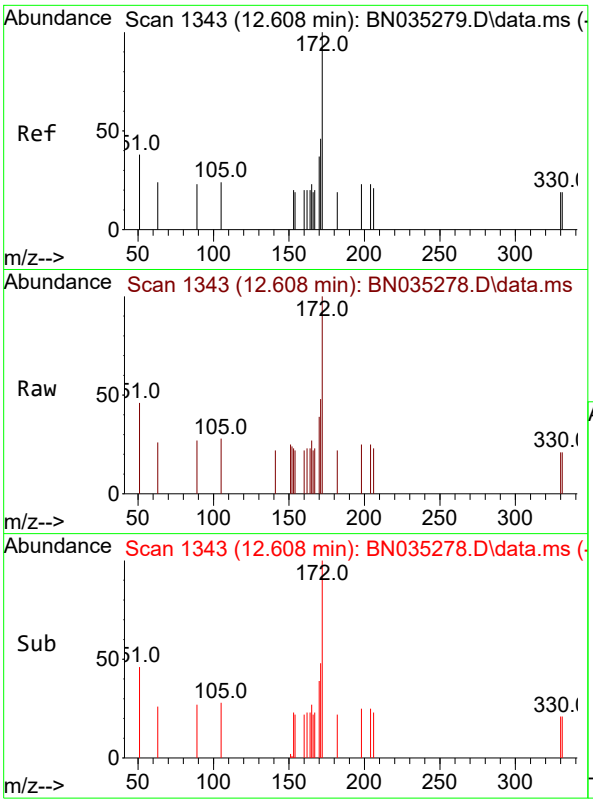


#14
2,4,6-Tribromophenol
Concen: 0.171 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:330 Resp: 279

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	43.4	32.4	48.6



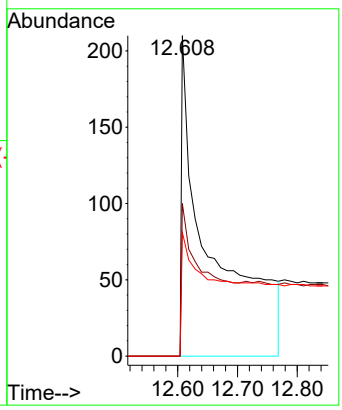


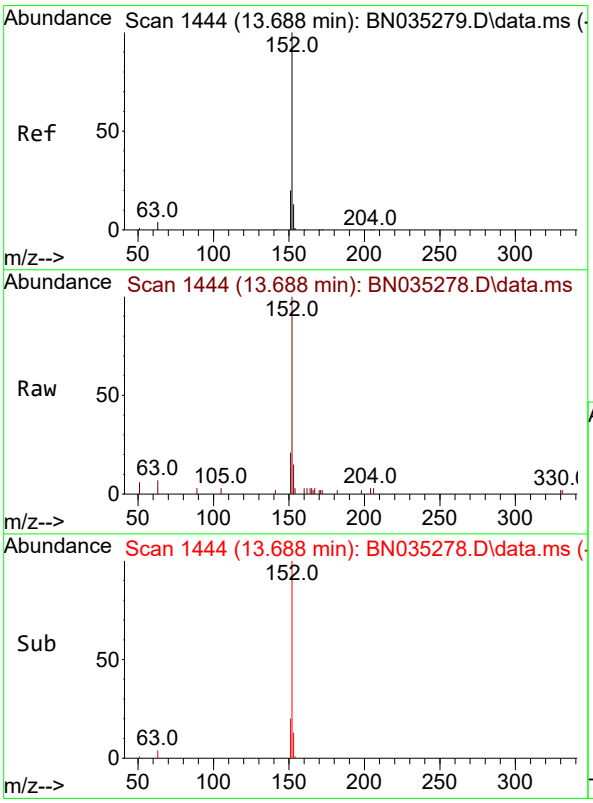
#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 679

Ion	Ratio	Lower	Upper
172	100		
171	47.6	36.6	55.0
170	38.6	29.7	44.5

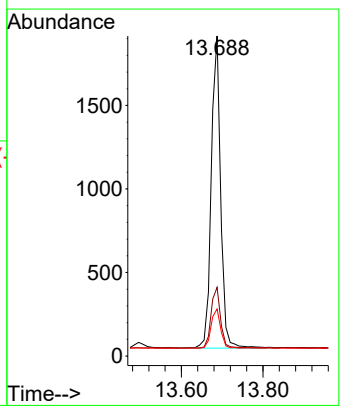


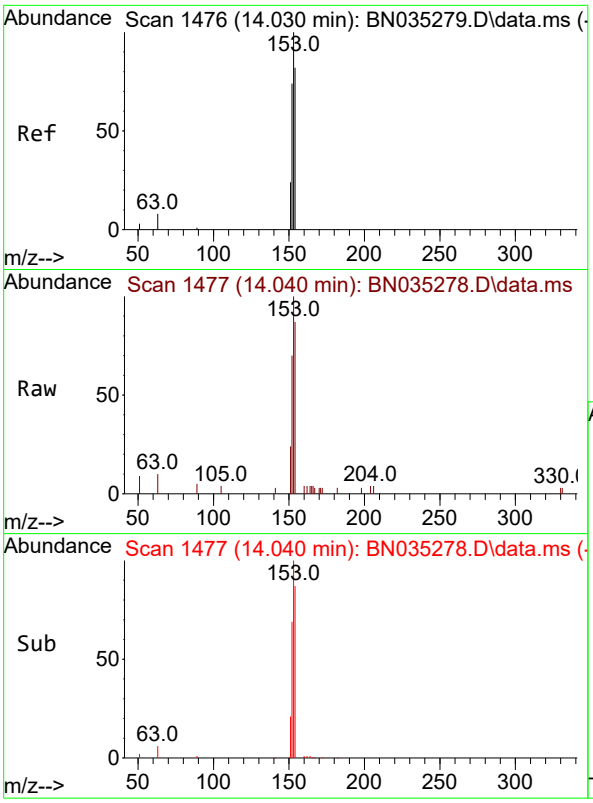


#16
Acenaphthylene
Concen: 0.186 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:152 Resp: 2991

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.9	23.9
153	12.9	10.2	15.4



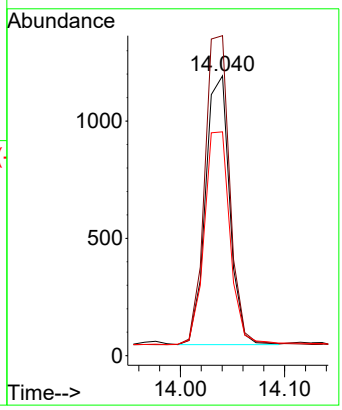


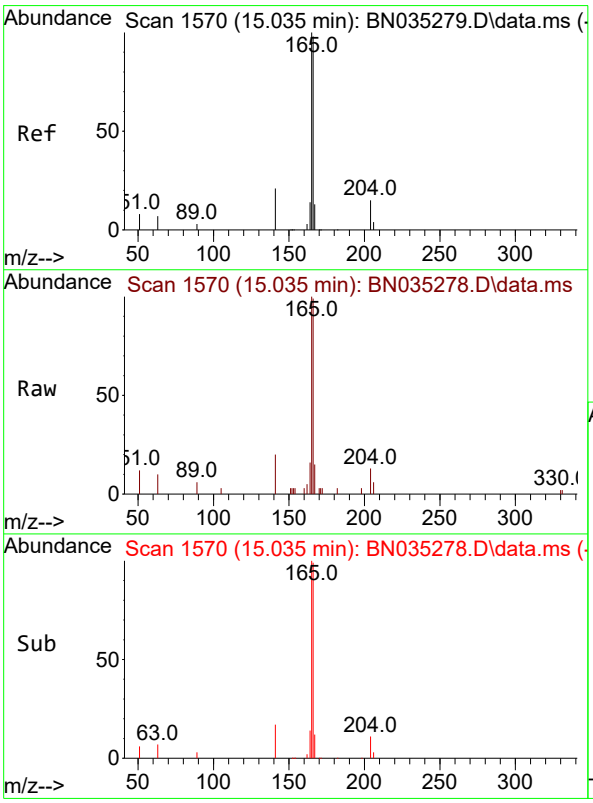
#17
Acenaphthene
Concen: 0.183 ng
RT: 14.040 min Scan# 14
Delta R.T. 0.010 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 1852

Ion	Ratio	Lower	Upper
154	100		
153	119.7	96.1	144.1
152	84.6	72.2	108.2

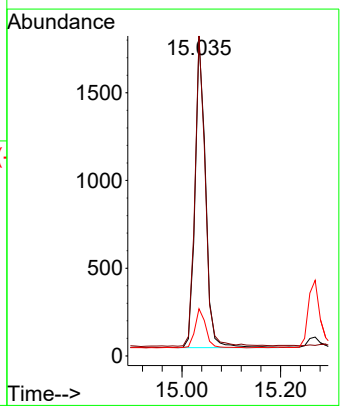


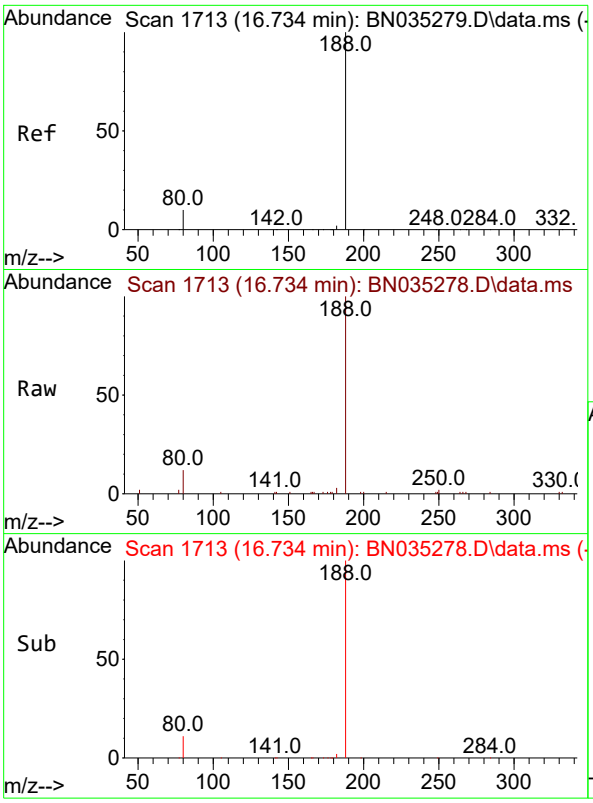


#18
Fluorene
Concen: 0.182 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:166 Resp: 2587

Ion	Ratio	Lower	Upper
166	100		
165	99.7	81.2	121.8
167	13.2	10.5	15.7



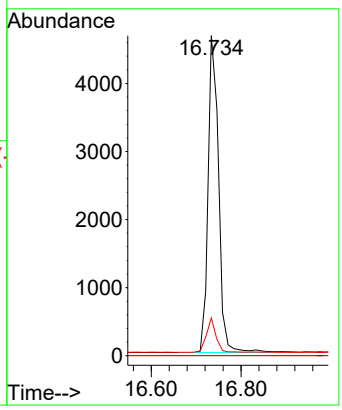


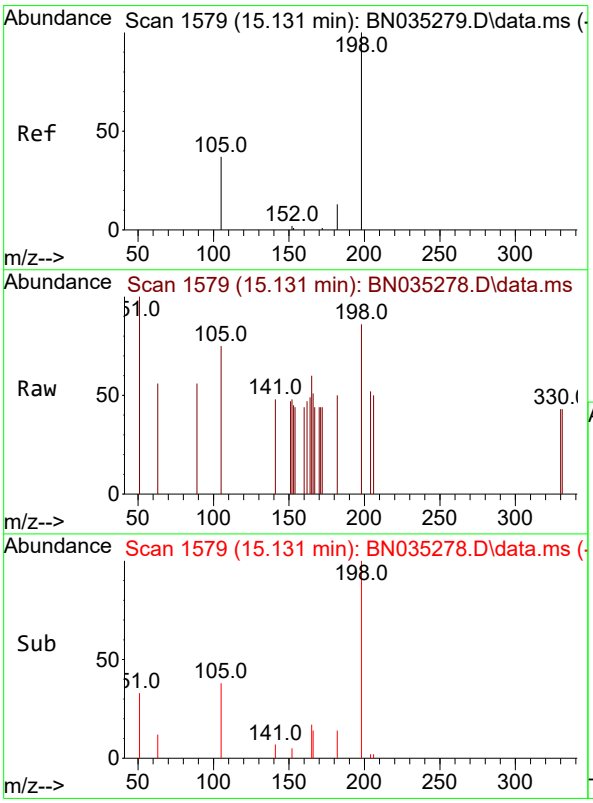
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 7531

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.9	13.3

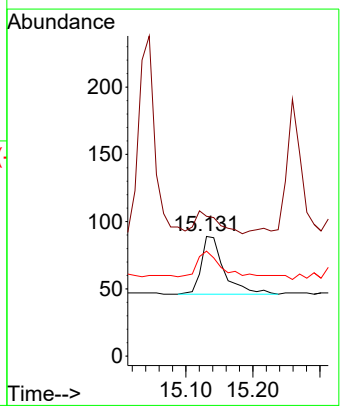


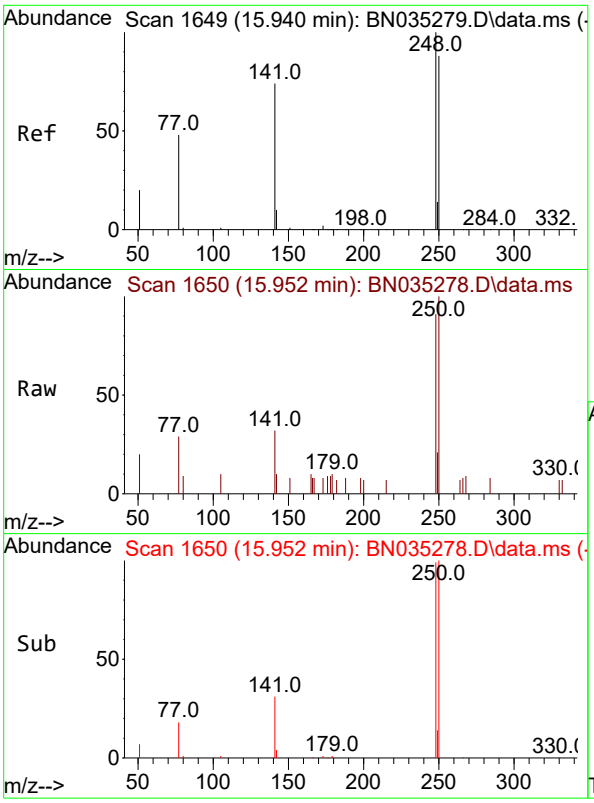


#20
4,6-Dinitro-2-methylphenol
Concen: 0.283 ng
RT: 15.131 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:198 Resp: 102

Ion	Ratio	Lower	Upper
198	100		
51	116.9	53.6	80.4#
105	87.6	47.4	71.2#



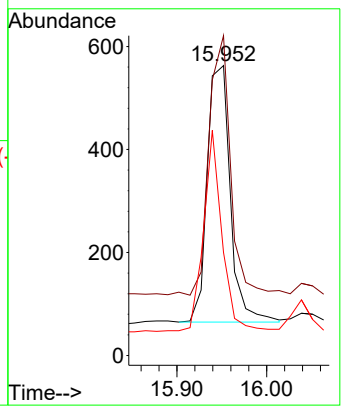


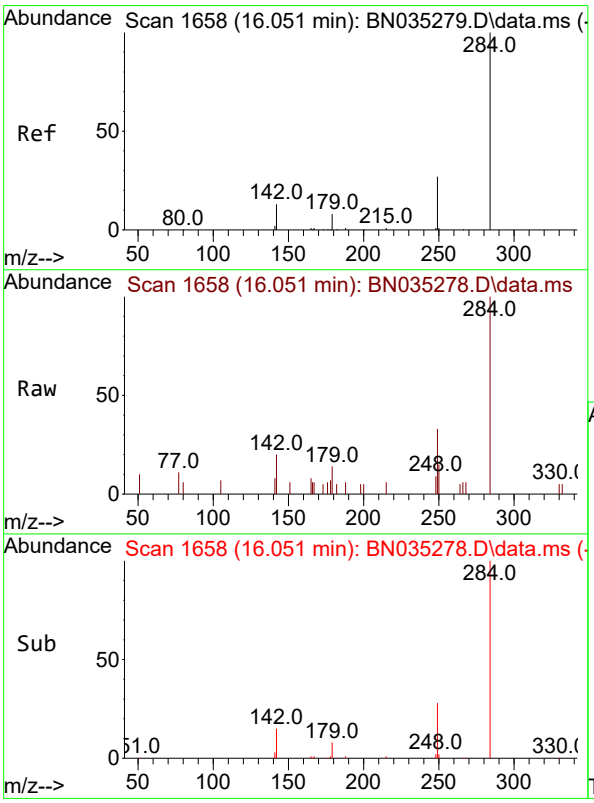
#21
4-Bromophenyl-phenylether
Concen: 0.186 ng
RT: 15.952 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 888

Ion	Ratio	Lower	Upper
248	100		
250	110.3	74.8	112.2
141	35.5	59.0	88.4#

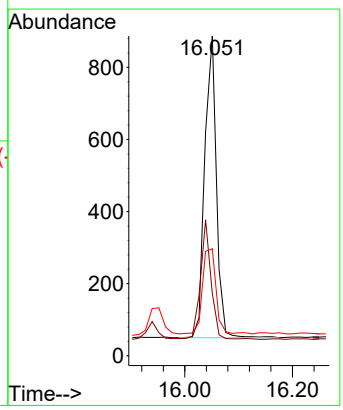


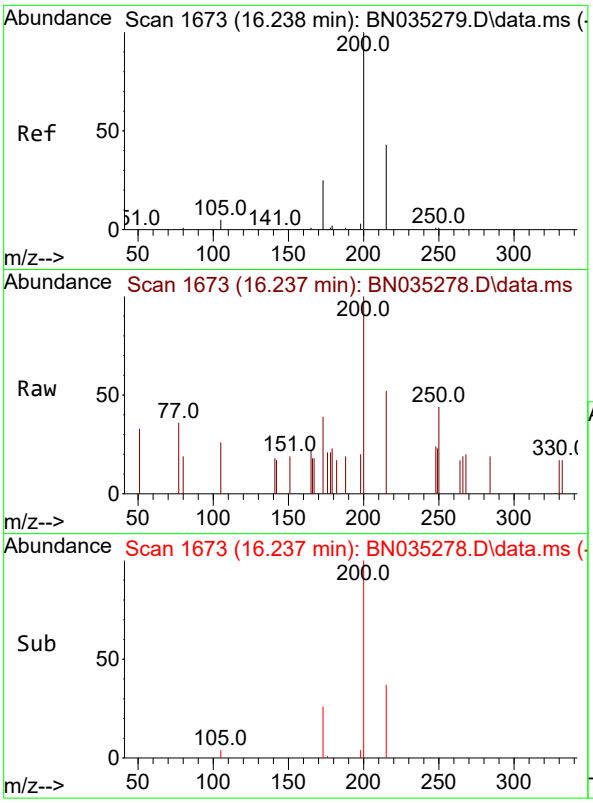


#22
Hexachlorobenzene
Concen: 0.185 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:284 Resp: 1264

Ion	Ratio	Lower	Upper
284	100		
142	35.2	28.7	43.1
249	33.8	25.4	38.0



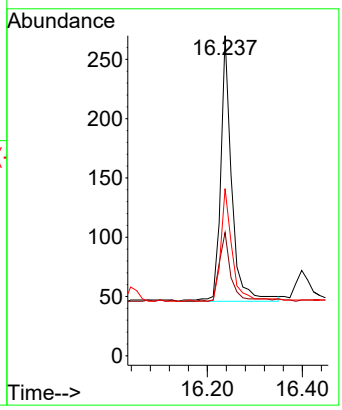


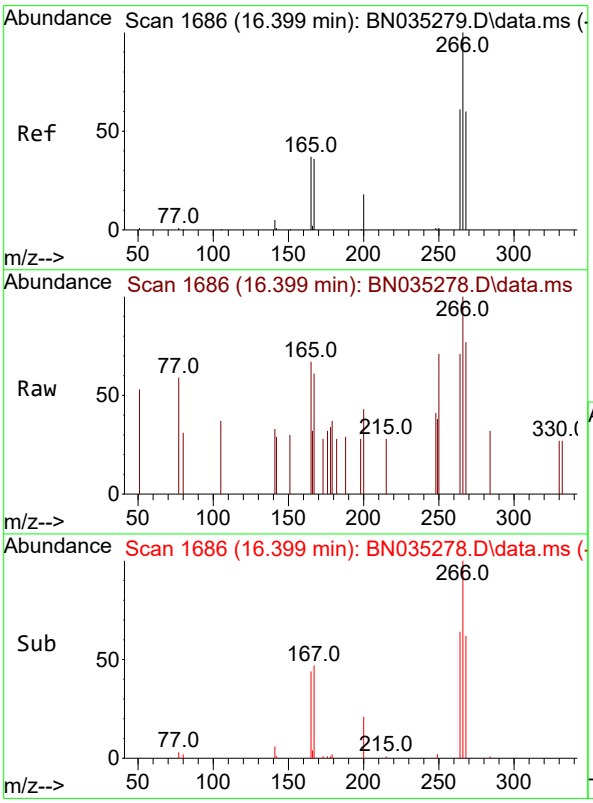
#23
Atrazine
Concen: 0.177 ng
RT: 16.237 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 357

Ion	Ratio	Lower	Upper
200	100		
173	38.5	25.8	38.8
215	52.2	38.6	58.0

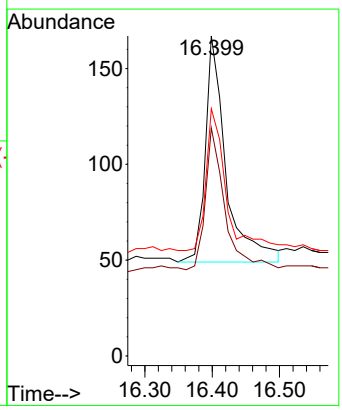


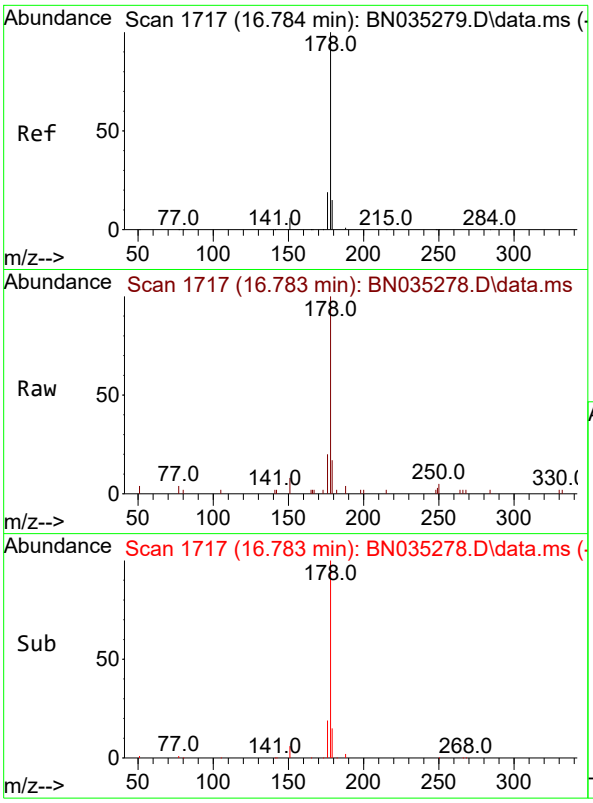


#24
Pentachlorophenol
Concen: 0.154 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:266 Resp: 252

Ion	Ratio	Lower	Upper
266	100		
264	59.1	49.3	73.9
268	63.1	48.6	73.0



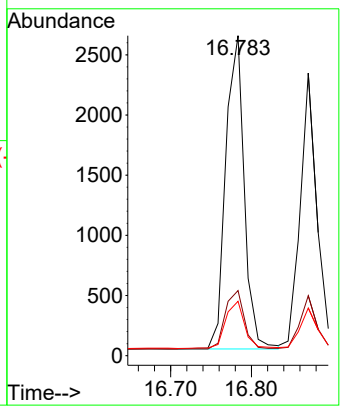


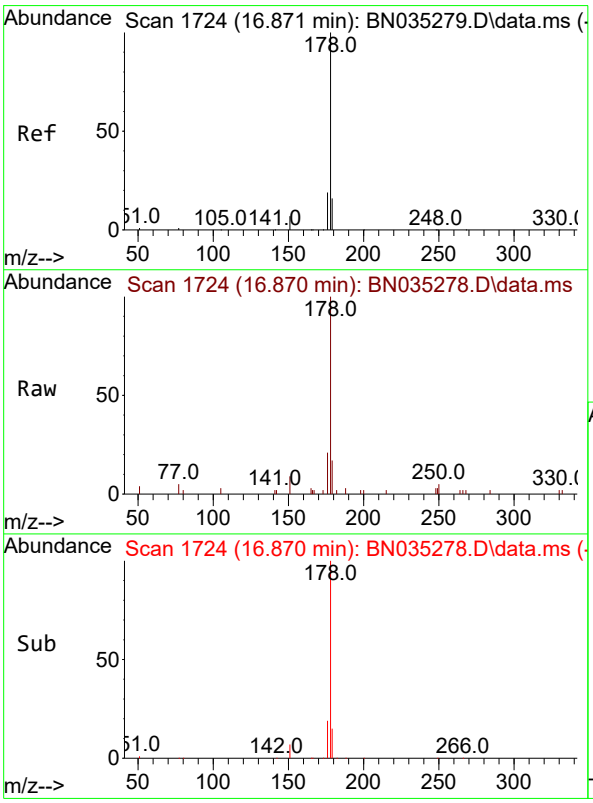
#25
Phenanthrene
Concen: 0.180 ng
RT: 16.783 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 4155

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.5	12.6	18.8

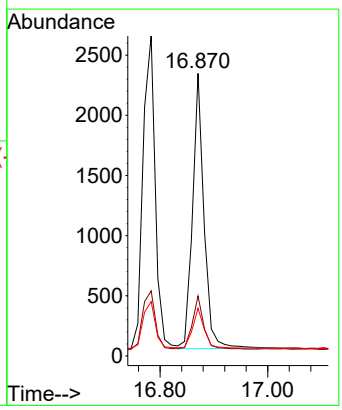


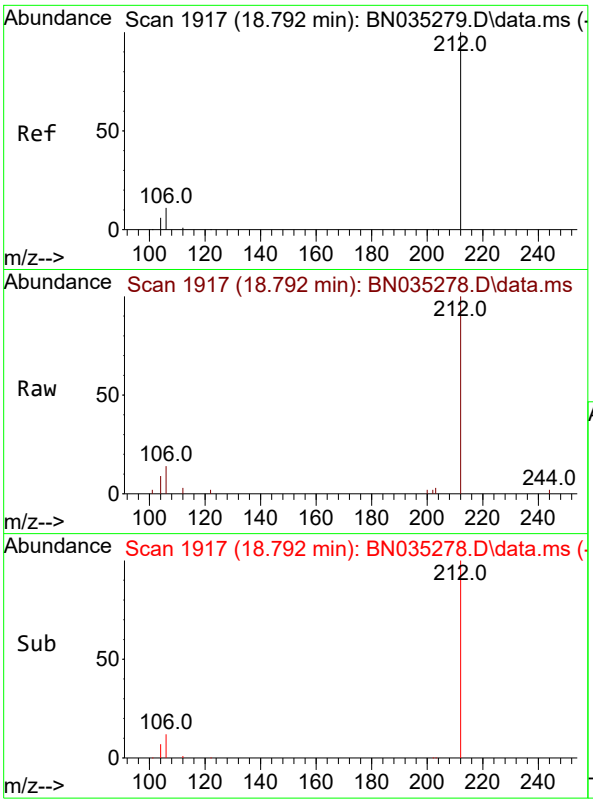


#26
Anthracene
Concen: 0.170 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:178 Resp: 3384

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.4
179	15.0	12.4	18.6



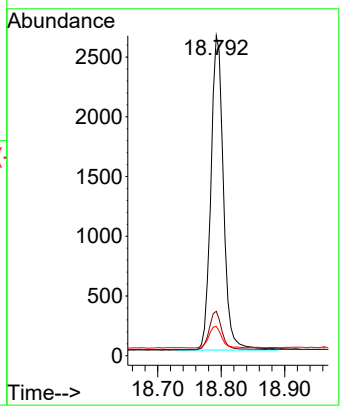


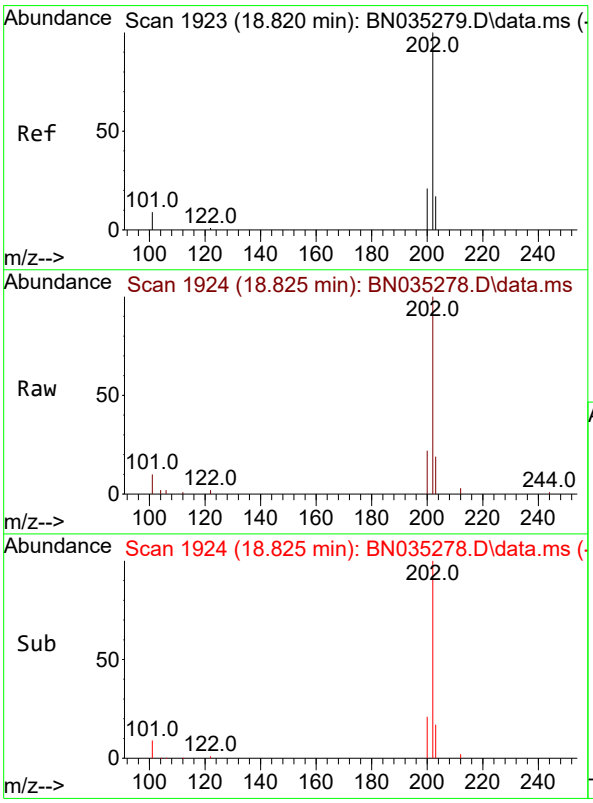
#27
Fluoranthene-d10
Concen: 0.180 ng
RT: 18.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 3625

Ion	Ratio	Lower	Upper
212	100		
106	12.3	9.8	14.8
104	6.9	5.6	8.4

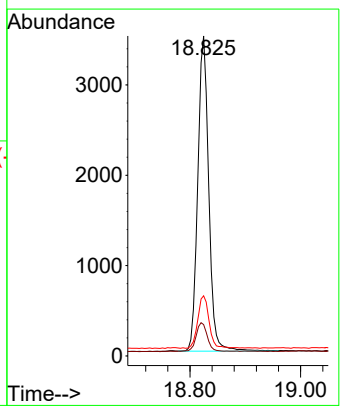


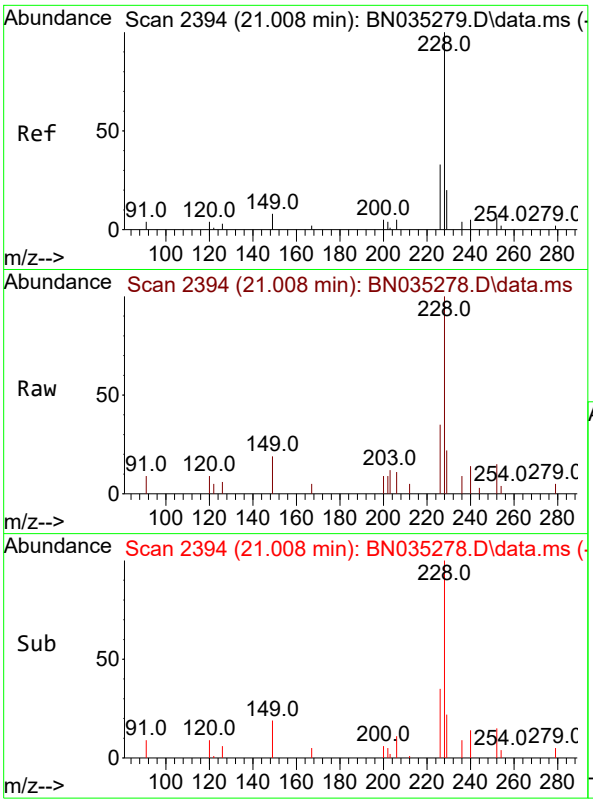


#28
Fluoranthene
Concen: 0.165 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.005 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:202 Resp: 4828

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.6	11.4
203	17.3	13.8	20.8



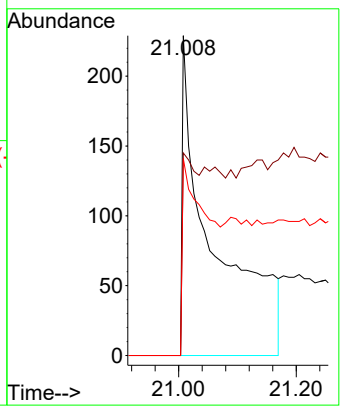


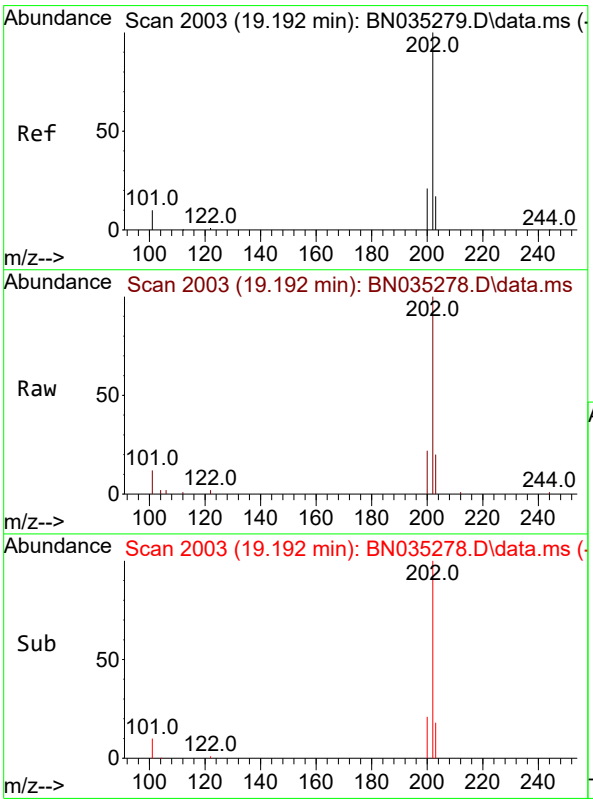
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 797

Ion	Ratio	Lower	Upper
240	100		
120	63.3	54.9	82.3
236	61.6	54.0	81.0

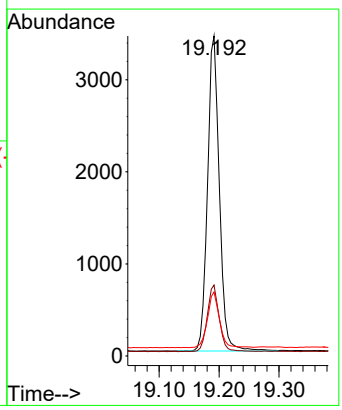


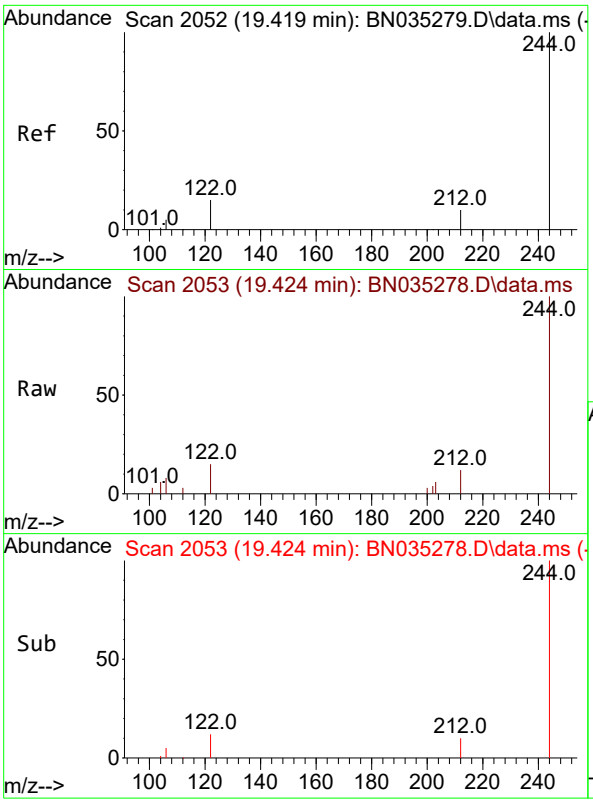


#30
Pyrene
Concen: 0.162 ng
RT: 19.192 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:202 Resp: 4697

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.7	14.4	21.6



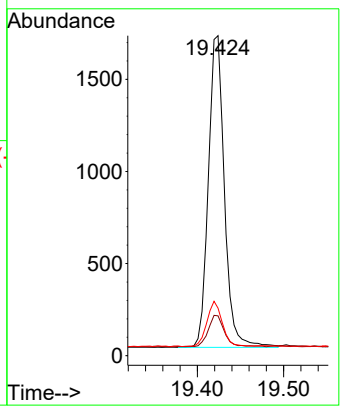


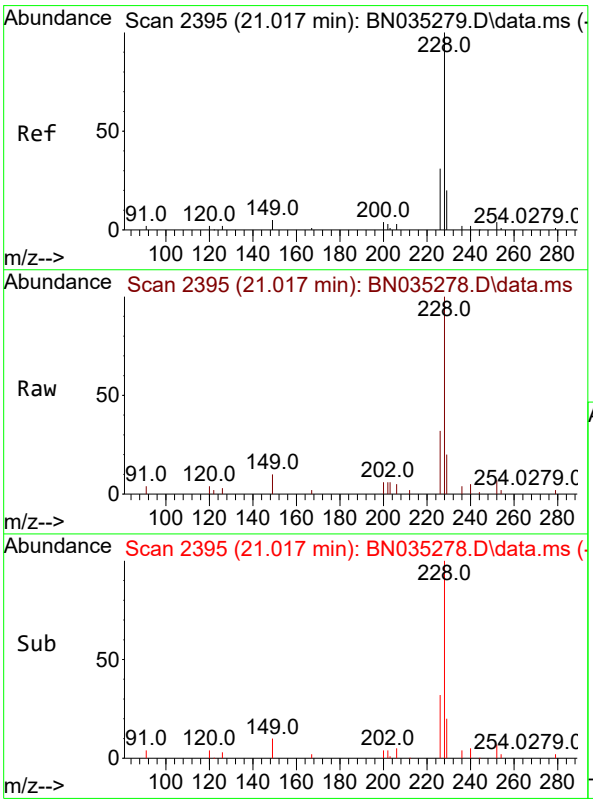
#31
Terphenyl-d14
Concen: 0.149 ng
RT: 19.424 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 2197

Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.4	14.0
122	14.9	13.0	19.4

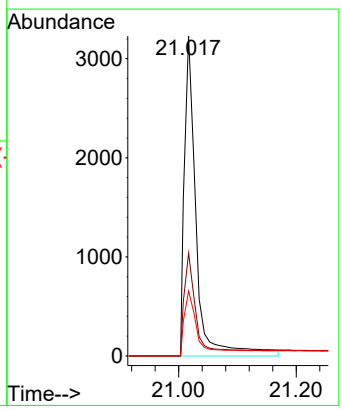


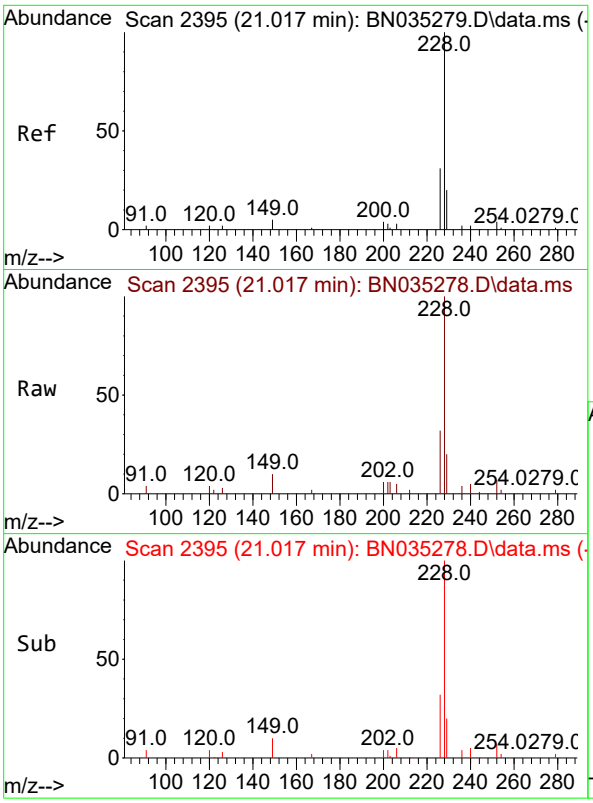


#32
Benzo(a)anthracene
Concen: 0.161 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:228 Resp: 4459

Ion	Ratio	Lower	Upper
228	100		
226	32.1	24.7	37.1
229	20.3	16.2	24.2



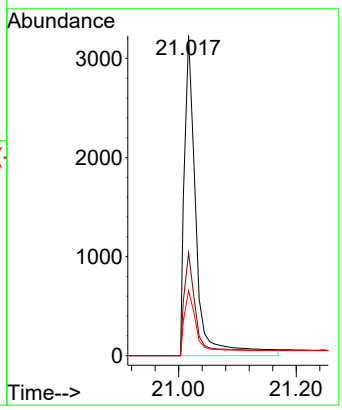


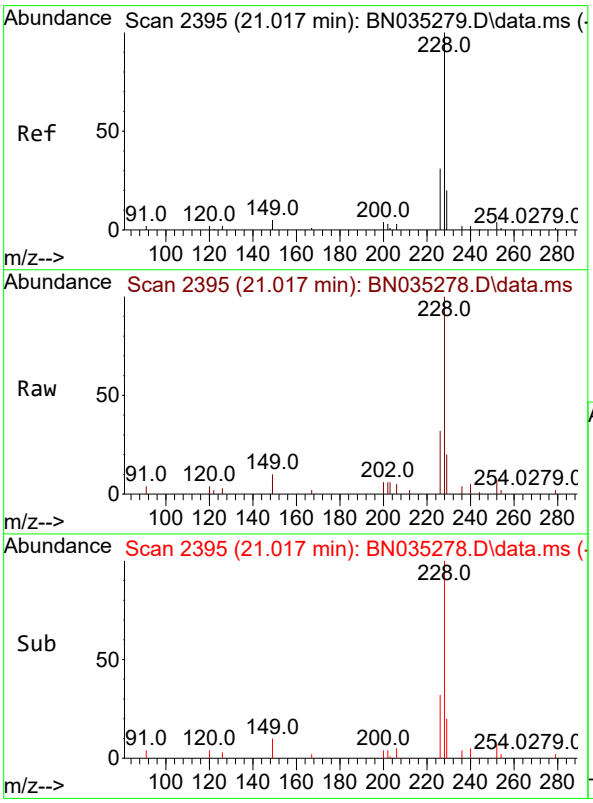
#33
Chrysene
Concen: 0.161 ng
RT: 21.017 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 4459

Ion	Ratio	Lower	Upper
228	100		
226	32.1	24.7	37.1
229	20.3	16.2	24.2

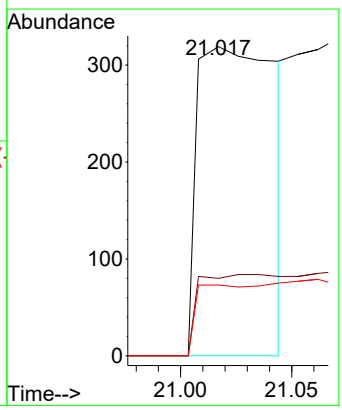


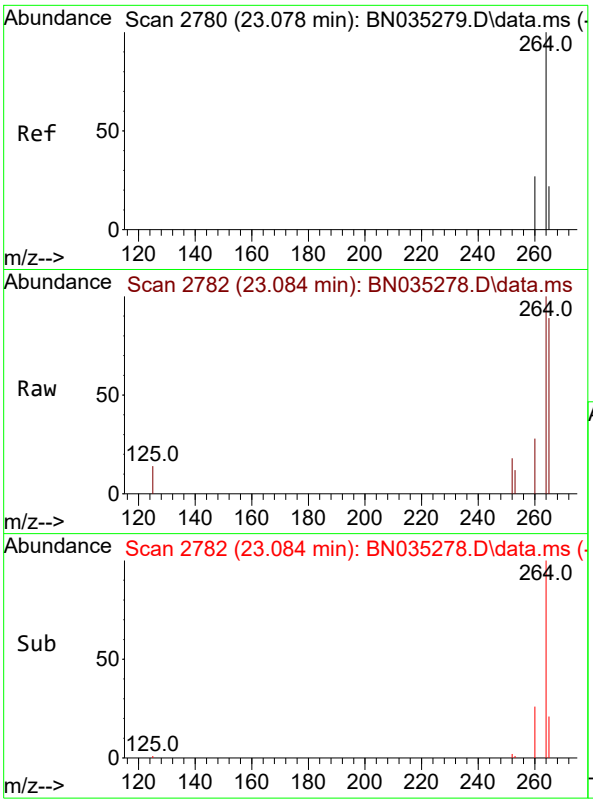


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.104 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:149 Resp: 696

Ion	Ratio	Lower	Upper
149	100		
167	26.7	0.0	0.0#
279	12.8	13.0	19.6#



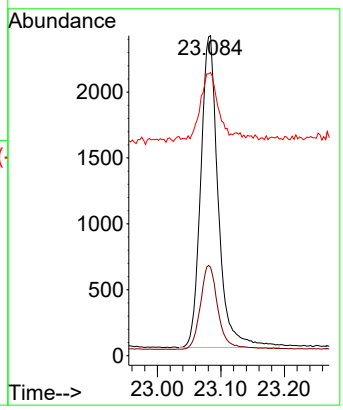


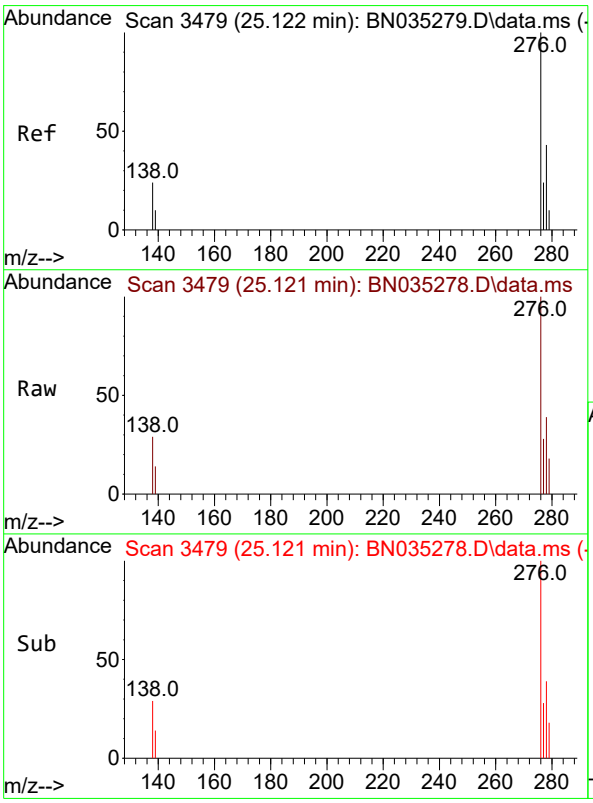
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.084 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 4527

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.3	33.5
265	88.5	68.6	103.0

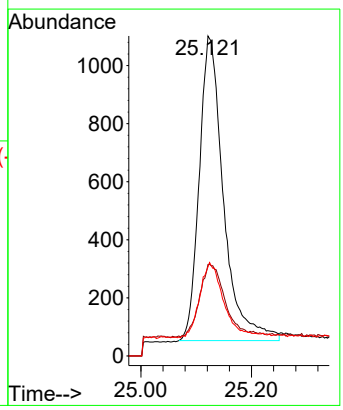


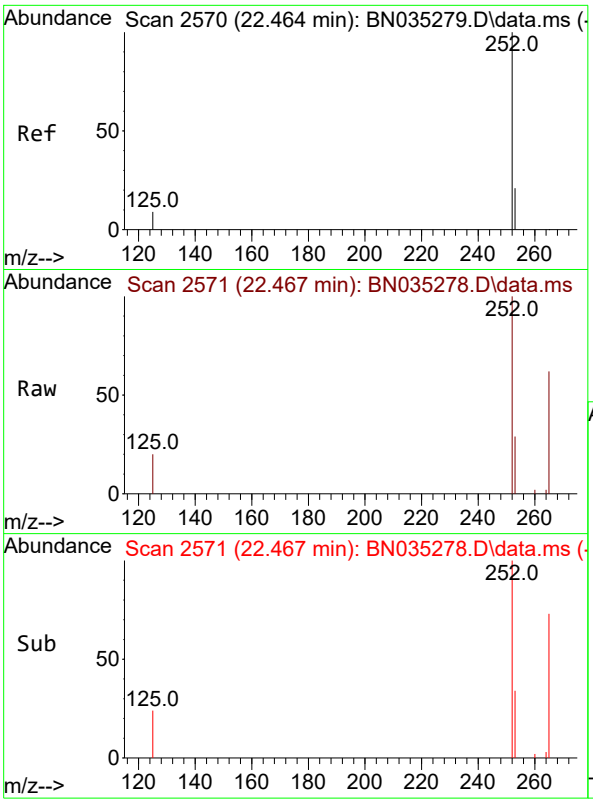


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.172 ng
RT: 25.121 min Scan# 3479
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:276 Resp: 3191

Ion	Ratio	Lower	Upper
276	100		
138	23.2	18.8	28.2
277	23.0	18.2	27.4



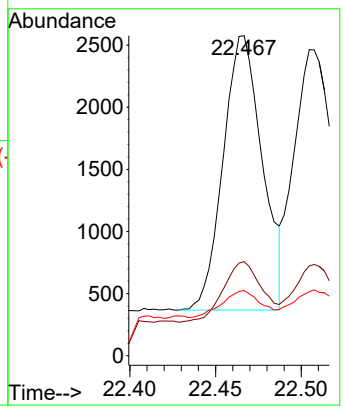


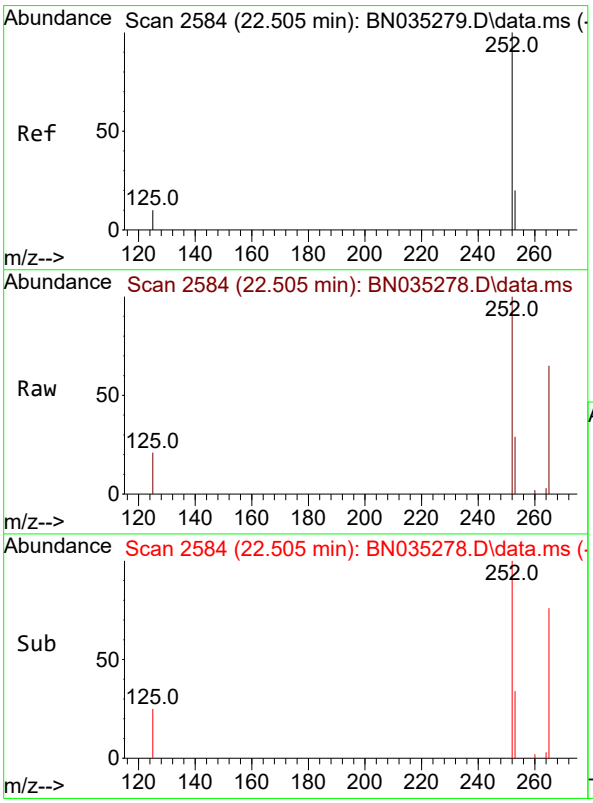
#37
Benzo(b)fluoranthene
Concen: 0.179 ng
RT: 22.467 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 3513

Ion	Ratio	Lower	Upper
252	100		
253	29.4	20.2	30.2
125	20.4	12.0	18.0#

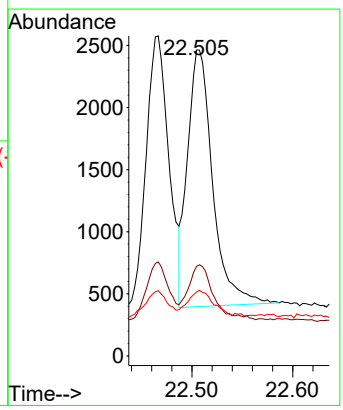


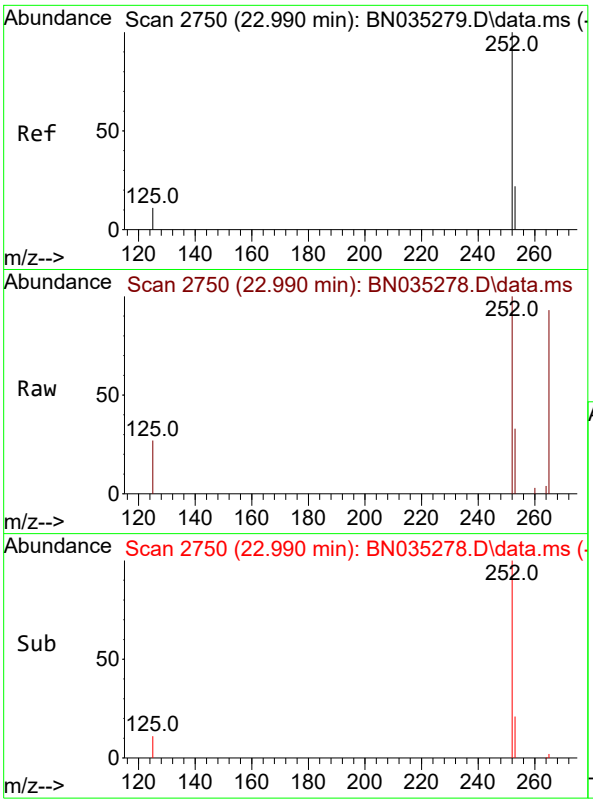


#38
Benzo(k)fluoranthene
Concen: 0.172 ng
RT: 22.505 min Scan# 2584
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:252 Resp: 3588

Ion	Ratio	Lower	Upper
252	100		
253	29.3	20.1	30.1
125	20.9	12.7	19.1#



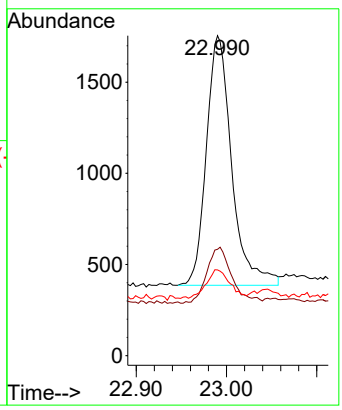


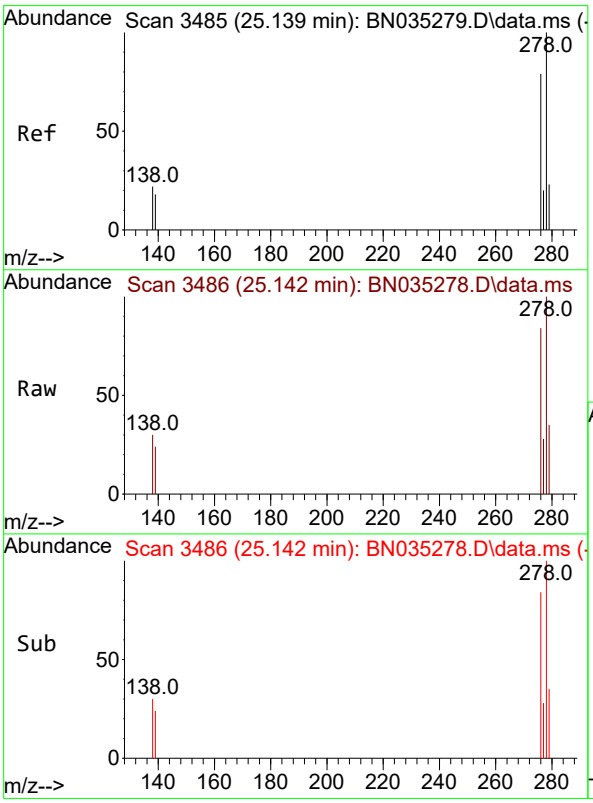
#39
Benzo(a)pyrene
Concen: 0.178 ng
RT: 22.990 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 2673

Ion	Ratio	Lower	Upper
252	100		
253	33.2	22.3	33.5
125	26.8	15.3	22.9#

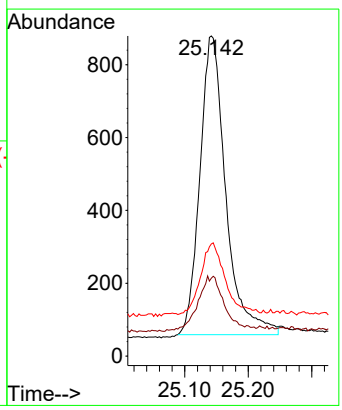


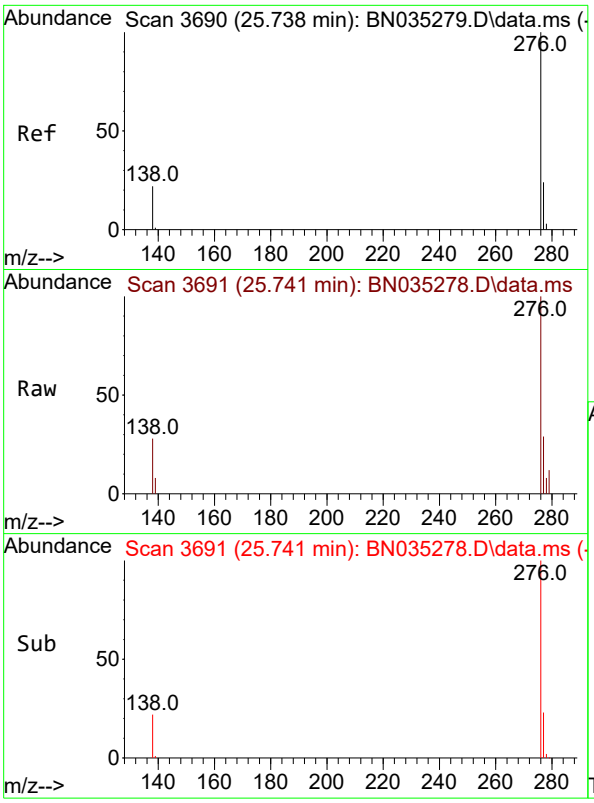


#40
Dibenzo(a,h)anthracene
Concen: 0.166 ng
RT: 25.142 min Scan# 3486
Delta R.T. 0.003 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:278 Resp: 2328

Ion	Ratio	Lower	Upper
278	100		
139	24.3	17.0	25.6
279	35.0	23.0	34.4#



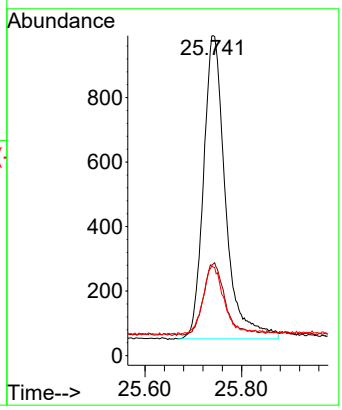


#41
Benzo(g,h,i)perylene
Concen: 0.183 ng
RT: 25.741 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 2967

Ion	Ratio	Lower	Upper
276	100		
277	28.6	21.1	31.7
138	27.6	19.8	29.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035284.D
Acq On : 25 Nov 2024 14:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Quant Time: Nov 25 22:35:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration

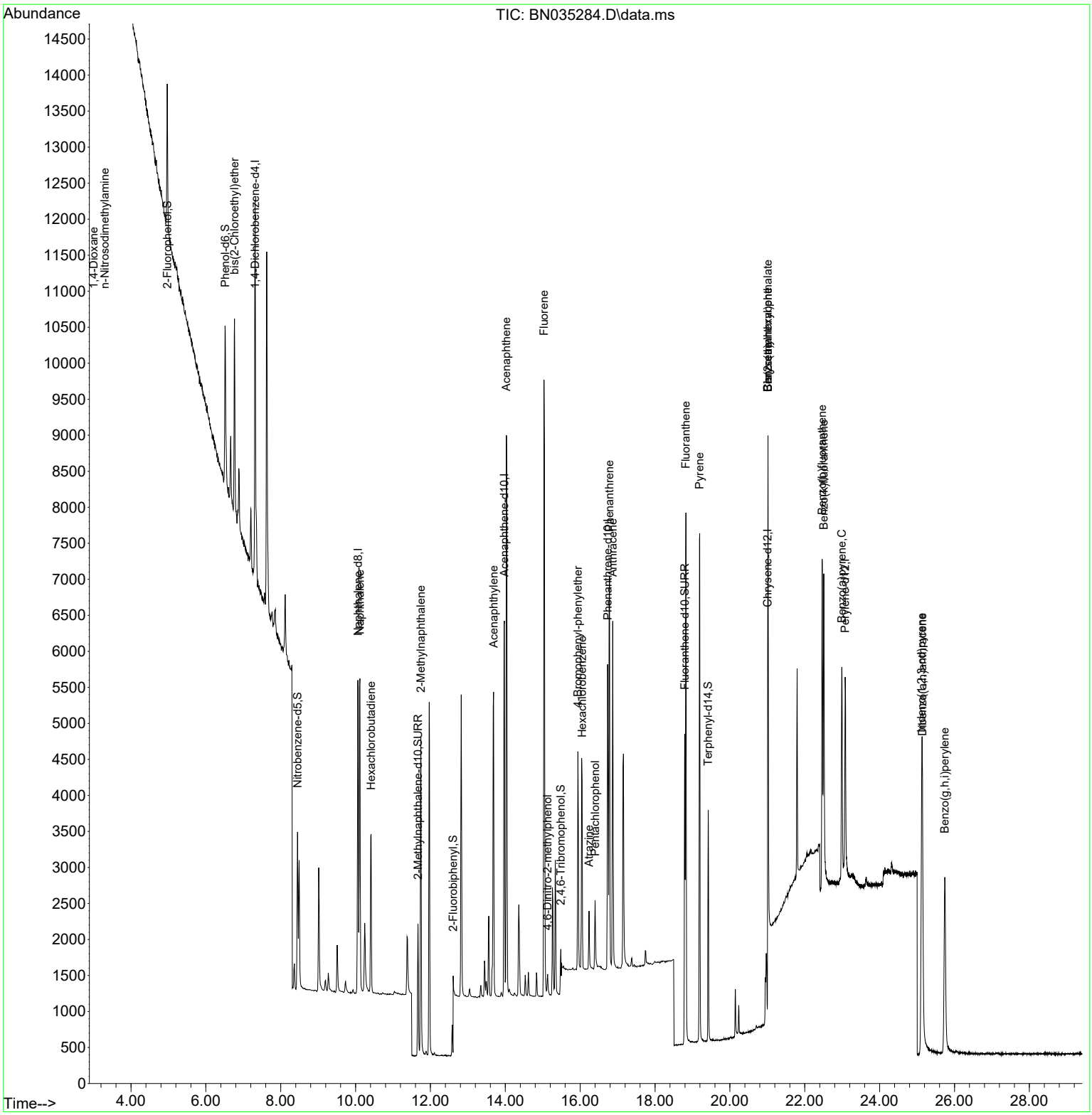
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2519	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5593	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	2659	0.400	ng	# 0.00
19) Phenanthrene-d10	16.734	188	5748	0.400	ng	0.00
29) Chrysene-d12	21.008	240	611	0.400	ng	0.00
35) Perylene-d12	23.081	264	3470	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1712	0.360	ng	0.00
5) Phenol-d6	6.521	99	2314	0.348	ng	0.00
8) Nitrobenzene-d5	8.450	82	2129	0.469	ng	0.00
11) 2-Methylnaphthalene-d10	11.667	152	2635	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	546	0.402	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	683	0.465	ng	0.00
27) Fluoranthene-d10	18.792	212	4874	0.317	ng	0.00
31) Terphenyl-d14	19.419	244	3187	0.282	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	689	0.381	ng	# 83
3) n-Nitrosodimethylamine	3.299	42	809	0.431	ng	# 76
6) bis(2-Chloroethyl)ether	6.766	93	2132	0.381	ng	99
9) Naphthalene	10.116	128	5975	0.385	ng	99
10) Hexachlorobutadiene	10.415	225	1929	0.442	ng	# 100
12) 2-Methylnaphthalene	11.742	142	3297	0.325	ng	98
16) Acenaphthylene	13.688	152	5175	0.387	ng	99
17) Acenaphthene	14.030	154	3227	0.383	ng	# 90
18) Fluorene	15.035	166	4194	0.355	ng	97
20) 4,6-Dinitro-2-methylph...	15.131	198	239	0.477	ng	98
21) 4-Bromophenyl-phenylether	15.940	248	1328	0.364	ng	92
22) Hexachlorobenzene	16.051	284	2564	0.491	ng	98
23) Atrazine	16.237	200	643	0.419	ng	98
24) Pentachlorophenol	16.399	266	510	0.407	ng	95
25) Phenanthrene	16.784	178	6385	0.362	ng	100
26) Anthracene	16.870	178	4852	0.320	ng	99
28) Fluoranthene	18.825	202	6686	0.300	ng	99
30) Pyrene	19.192	202	6525	0.294	ng	100
32) Benzo(a)anthracene	21.017	228	5799	0.273	ng	100
33) Chrysene	21.017	228	5799	0.273	ng	100
34) Bis(2-ethylhexyl)phtha...	21.017	149	520	0.041	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.121	276	5652	0.398	ng	99
37) Benzo(b)fluoranthene	22.464	252	5358	0.355	ng	97
38) Benzo(k)fluoranthene	22.508	252	5559	0.348	ng	97
39) Benzo(a)pyrene	22.990	252	4167	0.361	ng	97
40) Dibenzo(a,h)anthracene	25.145	278	4182	0.389	ng	98
41) Benzo(g,h,i)perylene	25.738	276	5121	0.412	ng	99

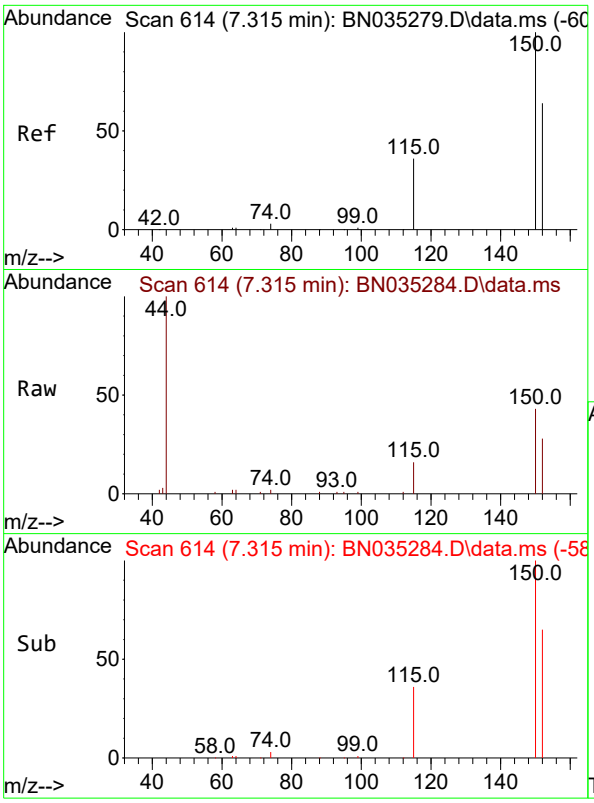
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035284.D
Acq On : 25 Nov 2024 14:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Quant Time: Nov 25 22:35:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration



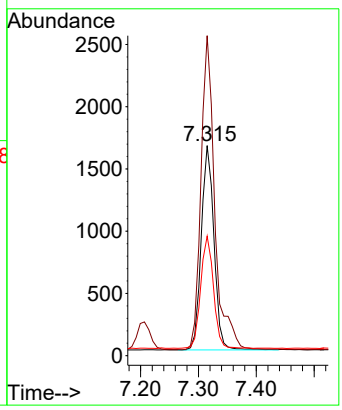


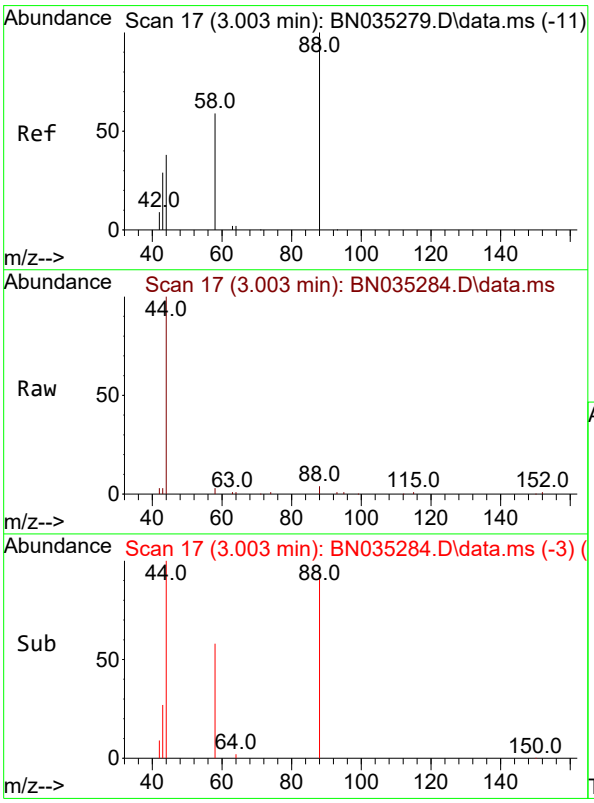
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:152 Resp: 2519

Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.5	186.7
115	56.9	47.8	71.8

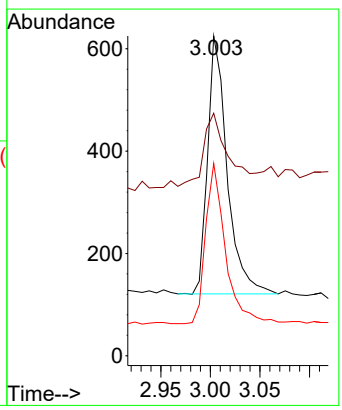


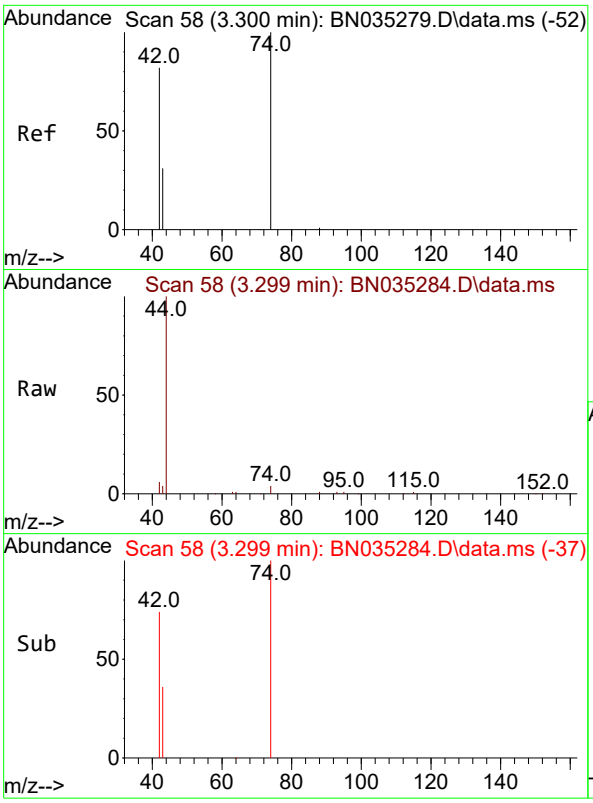


#2
1,4-Dioxane
Concen: 0.381 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion: 88 Resp: 689

Ion	Ratio	Lower	Upper
88	100		
43	38.3	48.1	72.1#
58	62.8	46.9	70.3



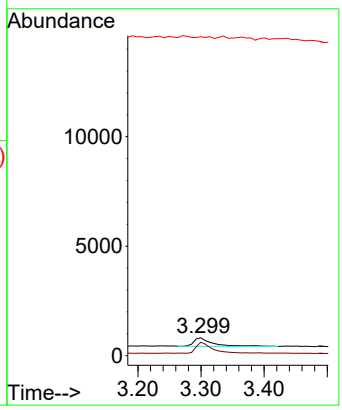


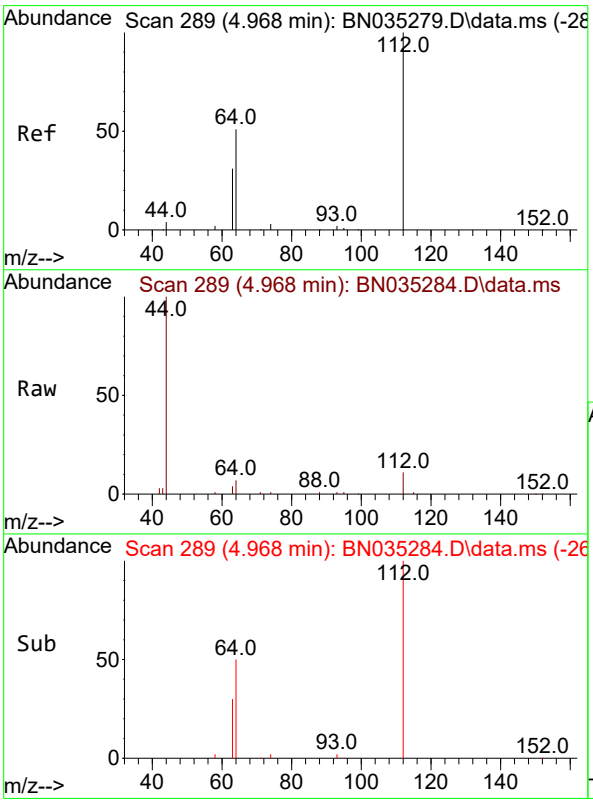
#3
n-Nitrosodimethylamine
Concen: 0.431 ng
RT: 3.299 min Scan# 5
Delta R.T. -0.001 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion: 42 Resp: 809

Ion	Ratio	Lower	Upper
42	100		
74	116.4	102.7	154.1
44	0.0	34.1	51.1#

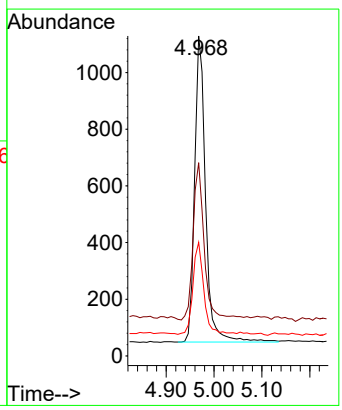


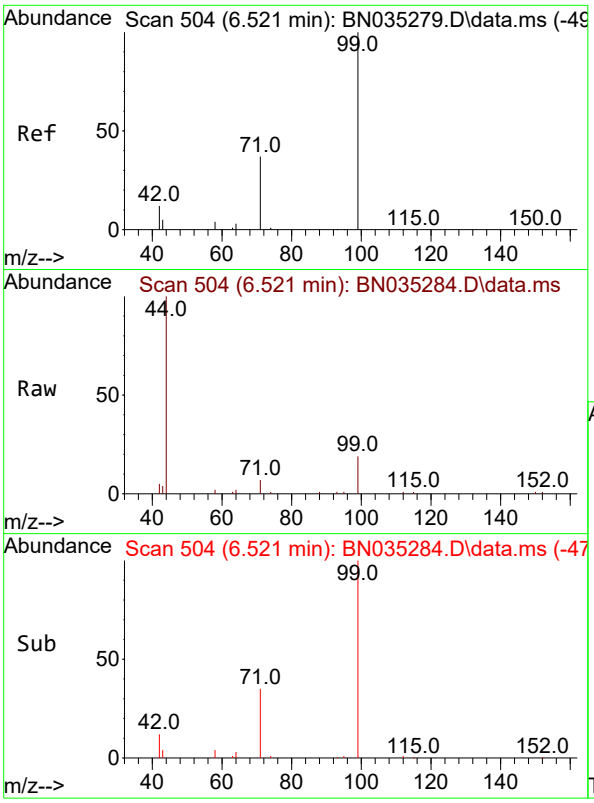


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:112 Resp: 1712

Ion	Ratio	Lower	Upper
112	100		
64	53.3	40.4	60.6
63	29.8	23.8	35.8



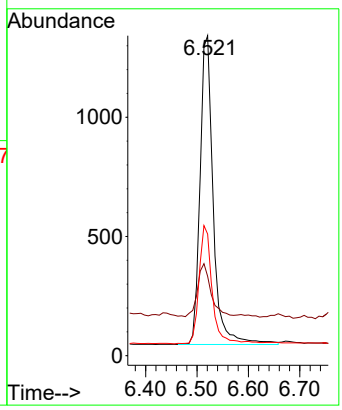


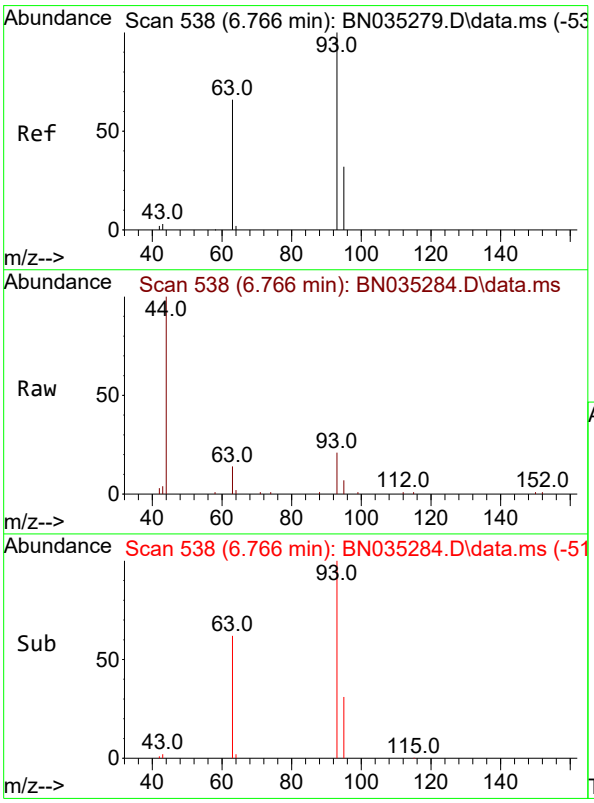
#5
Phenol-d6
Concen: 0.348 ng
RT: 6.521 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion: 99 Resp: 2314

Ion	Ratio	Lower	Upper
99	100		
42	17.3	12.8	19.2
71	38.1	31.4	47.2

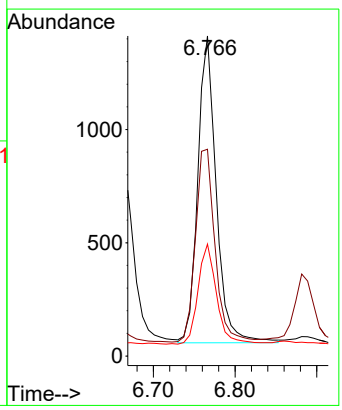


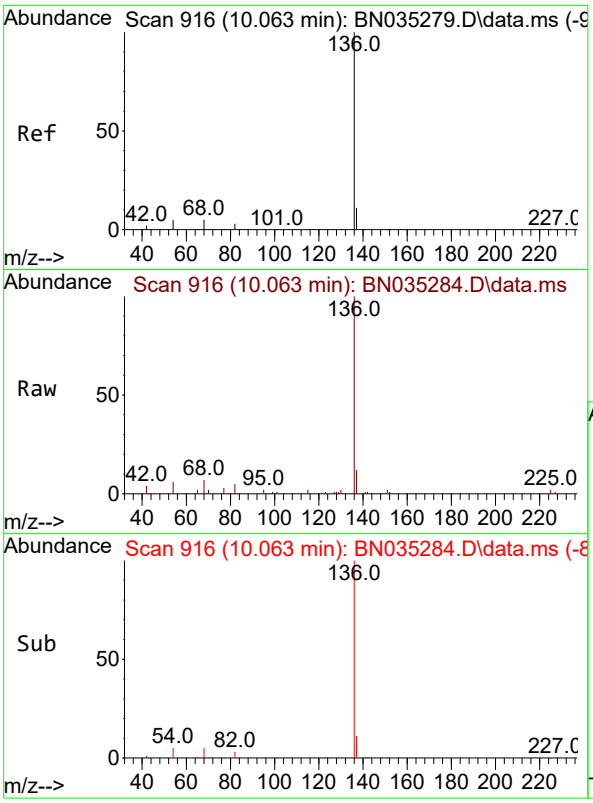


#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion: 93 Resp: 2132

Ion	Ratio	Lower	Upper
93	100		
63	66.4	52.3	78.5
95	32.6	25.5	38.3



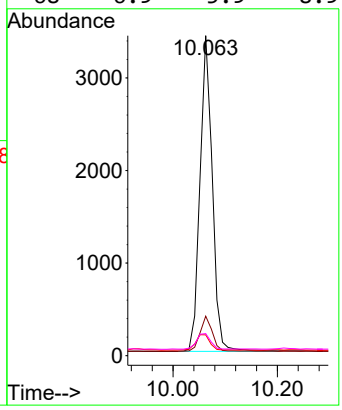


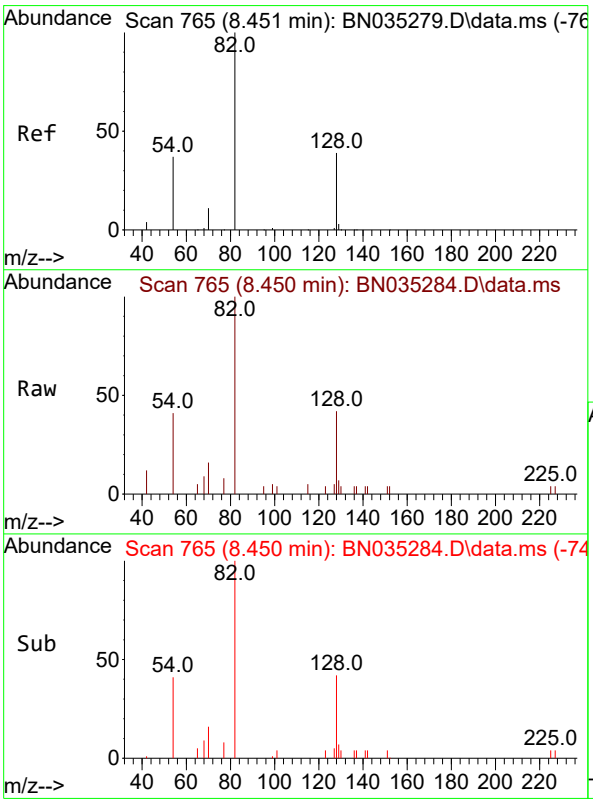
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:136 Resp: 5593

Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.7	14.5
54	6.5	5.3	7.9
68	6.9	5.9	8.9

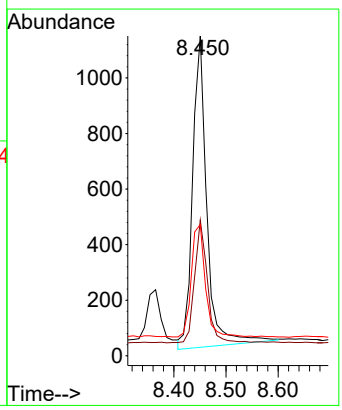


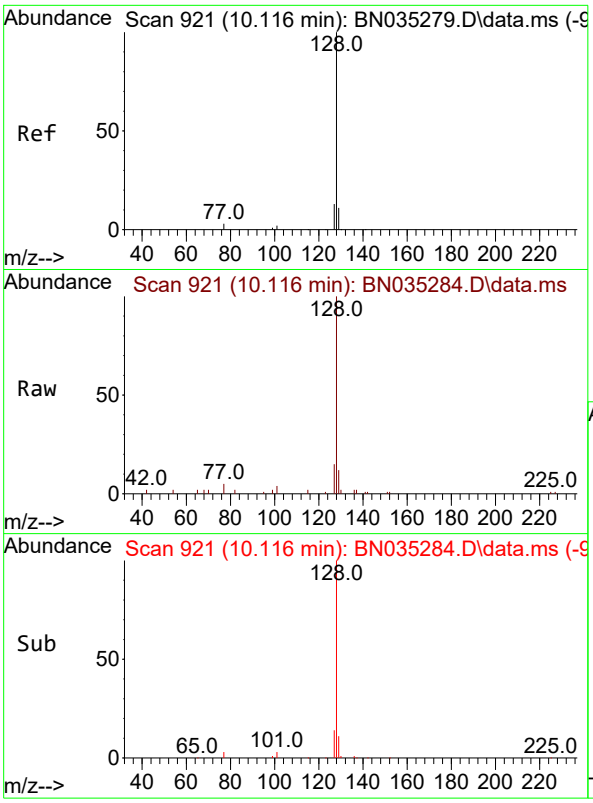


#8
Nitrobenzene-d5
Concen: 0.469 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion: 82 Resp: 2129

Ion	Ratio	Lower	Upper
82	100		
128	42.5	33.0	49.4
54	41.1	33.3	49.9



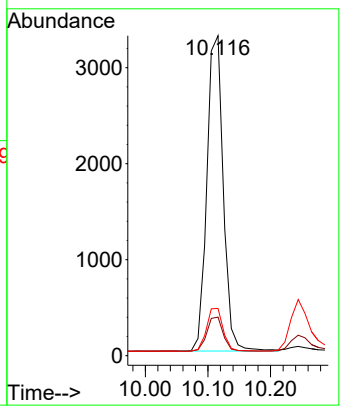


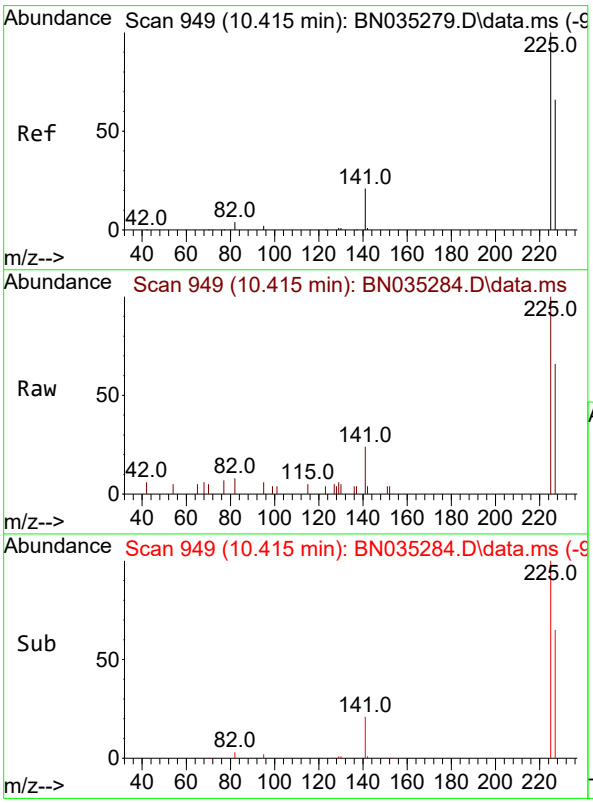
#9
Naphthalene
Concen: 0.385 ng
RT: 10.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:128 Resp: 5975

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.6	14.4
127	14.8	11.3	16.9

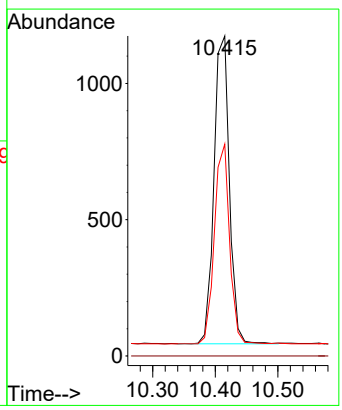


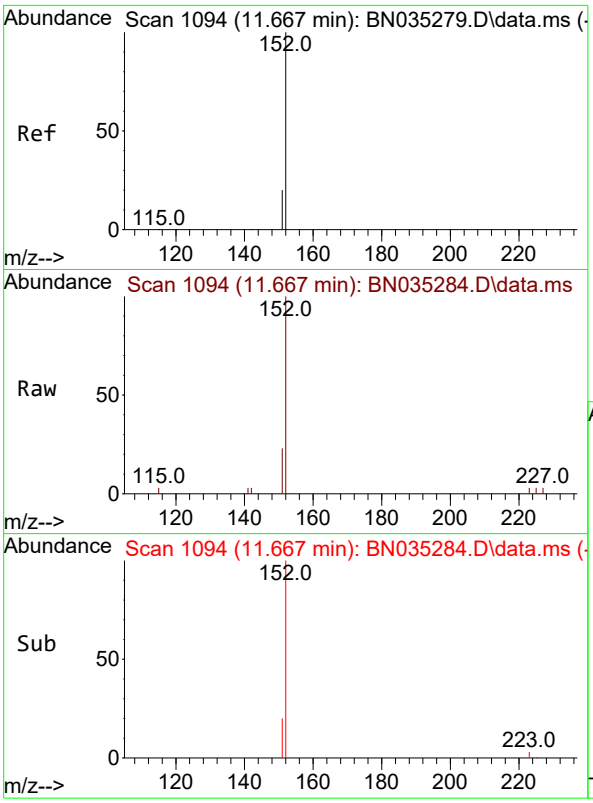


#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:225 Resp: 1929

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.3	76.9



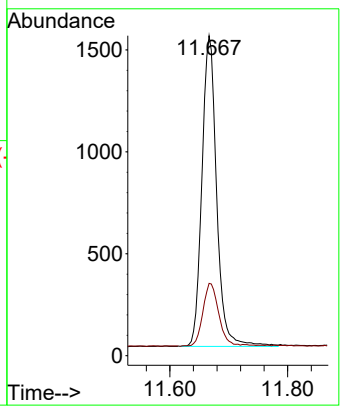


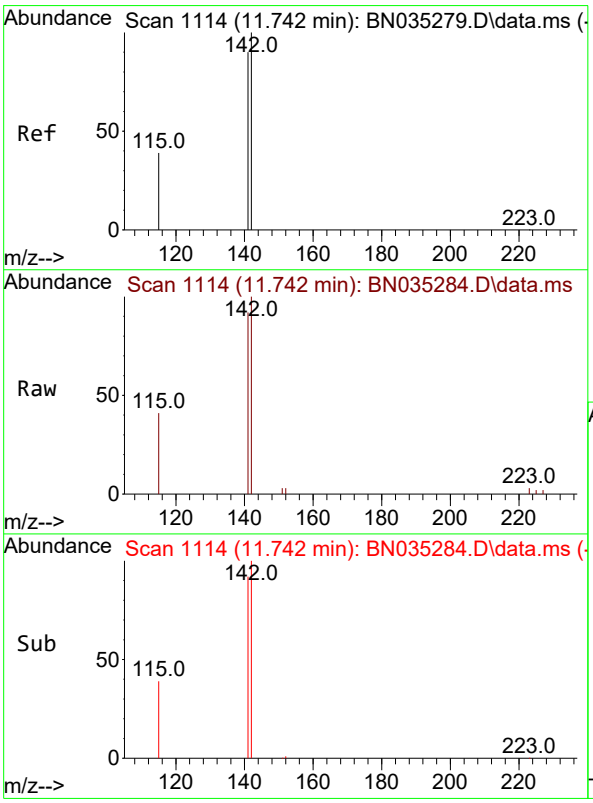
#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.667 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:152 Resp: 2635

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.2	25.8

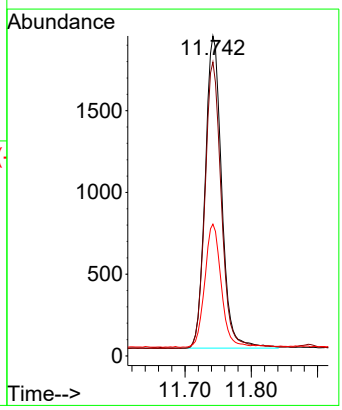


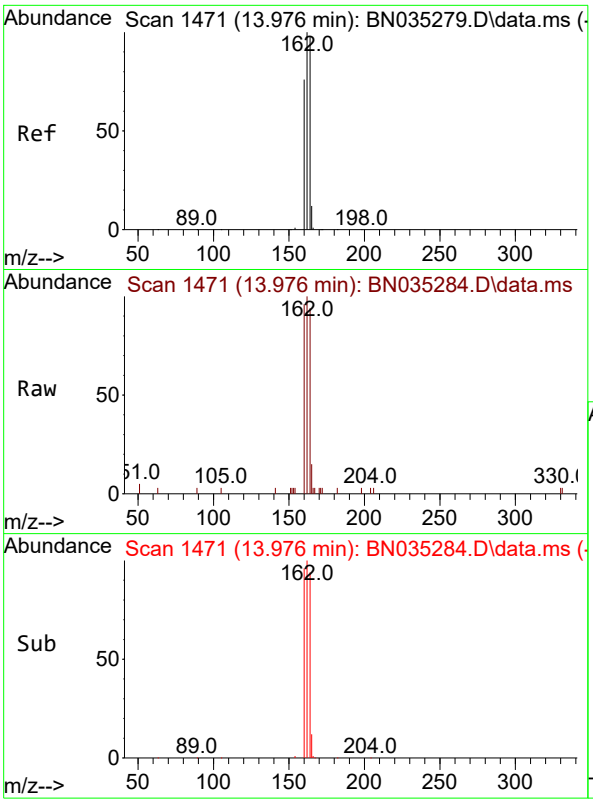


#12
2-Methylnaphthalene
Concen: 0.325 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:142 Resp: 3297

Ion	Ratio	Lower	Upper
142	100		
141	91.9	71.8	107.8
115	41.2	32.6	49.0



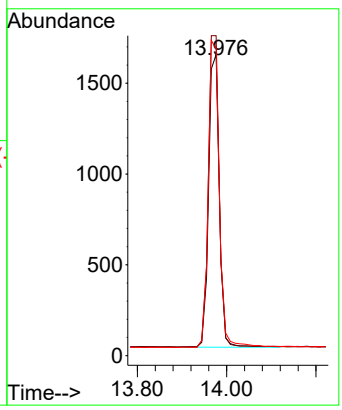


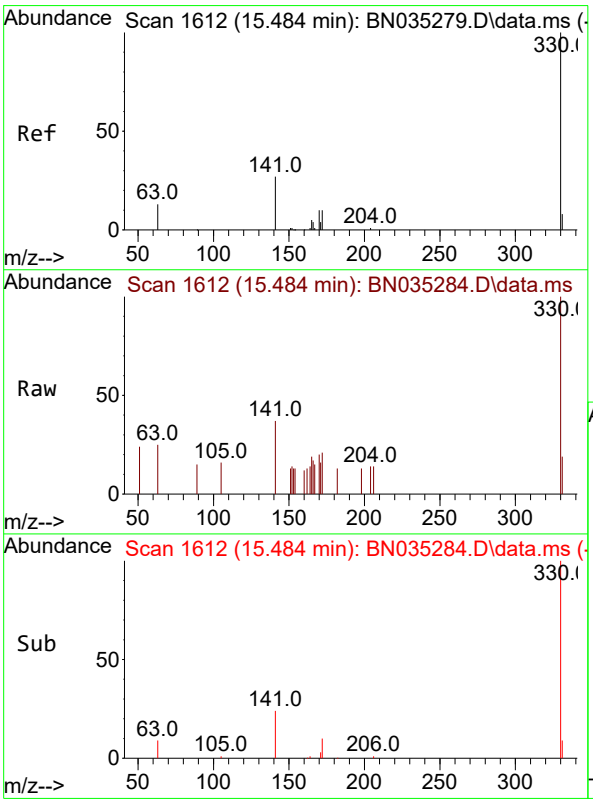
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:164 Resp: 2659

Ion	Ratio	Lower	Upper
164	100		
162	106.3	82.0	123.0
160	101.9	63.0	94.4#

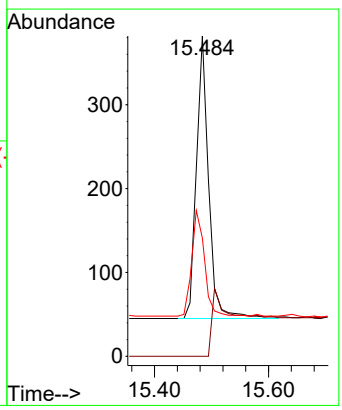


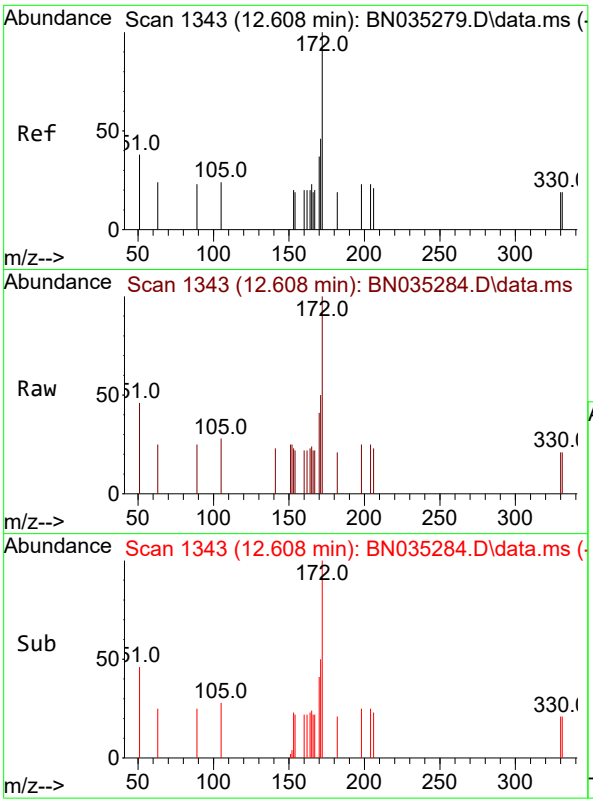


#14
2,4,6-Tribromophenol
Concen: 0.402 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:330 Resp: 546

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.7	32.4	48.6



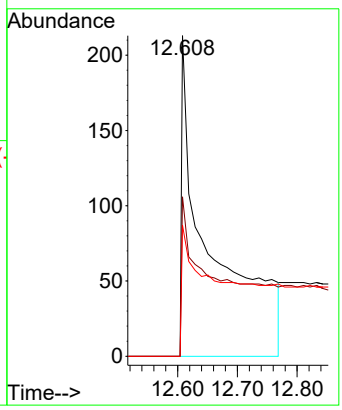


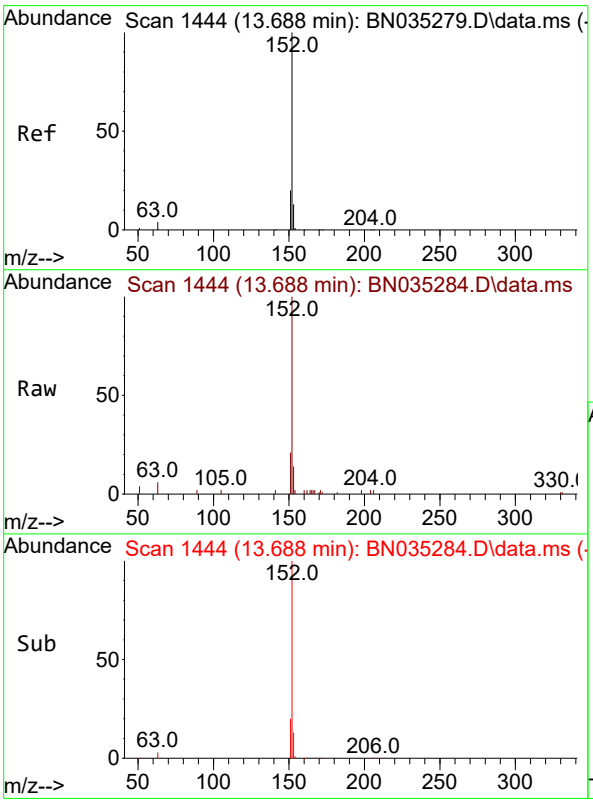
#15
2-Fluorobiphenyl
Concen: 0.465 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:172 Resp: 683

Ion	Ratio	Lower	Upper
172	100		
171	49.8	36.6	55.0
170	40.8	29.7	44.5

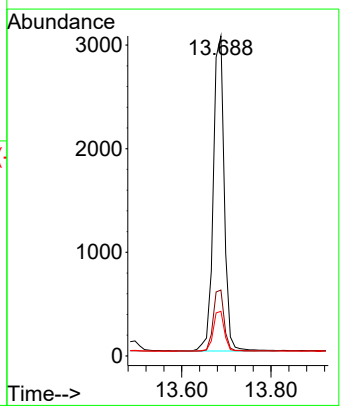


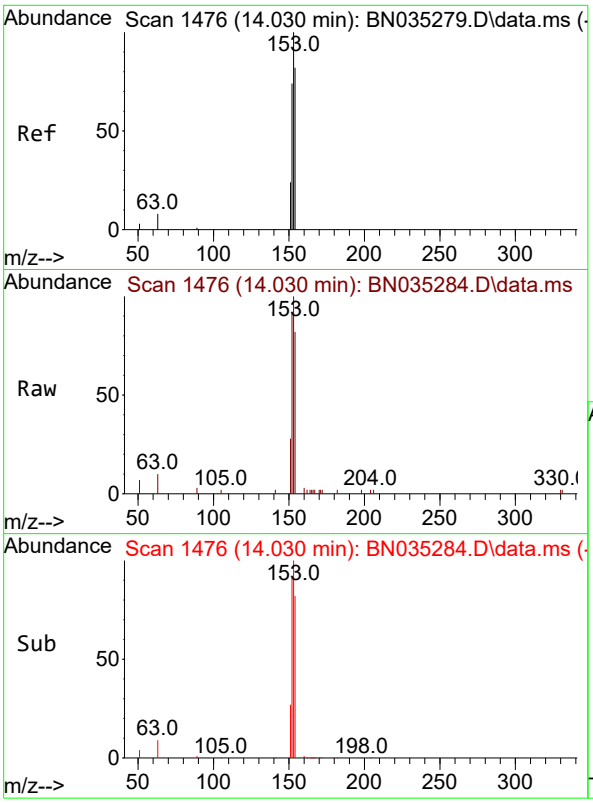


#16
Acenaphthylene
Concen: 0.387 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:152 Resp: 5175

Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.9	23.9
153	12.9	10.2	15.4



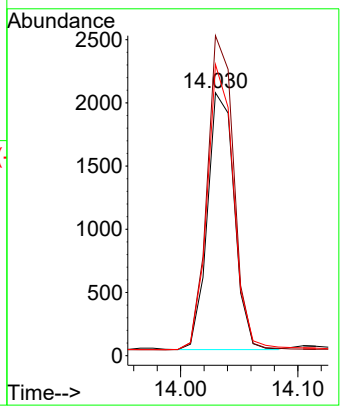


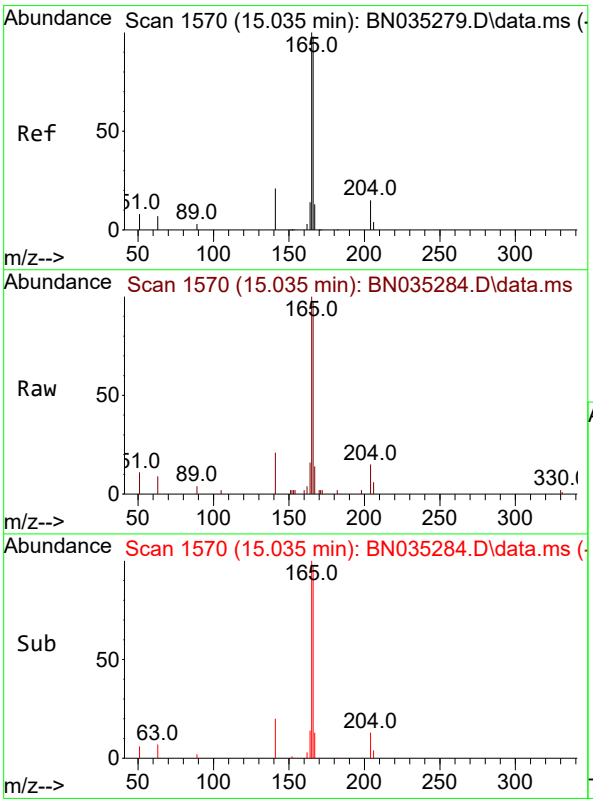
#17
Acenaphthene
Concen: 0.383 ng
RT: 14.030 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:154 Resp: 3227

Ion	Ratio	Lower	Upper
154	100		
153	121.8	96.1	144.1
152	111.1	72.2	108.2#

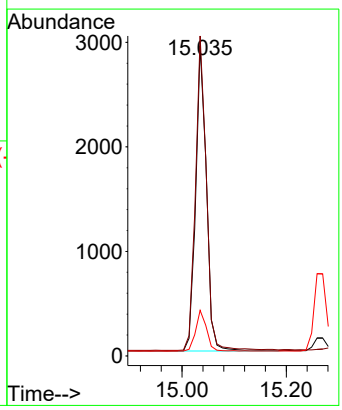


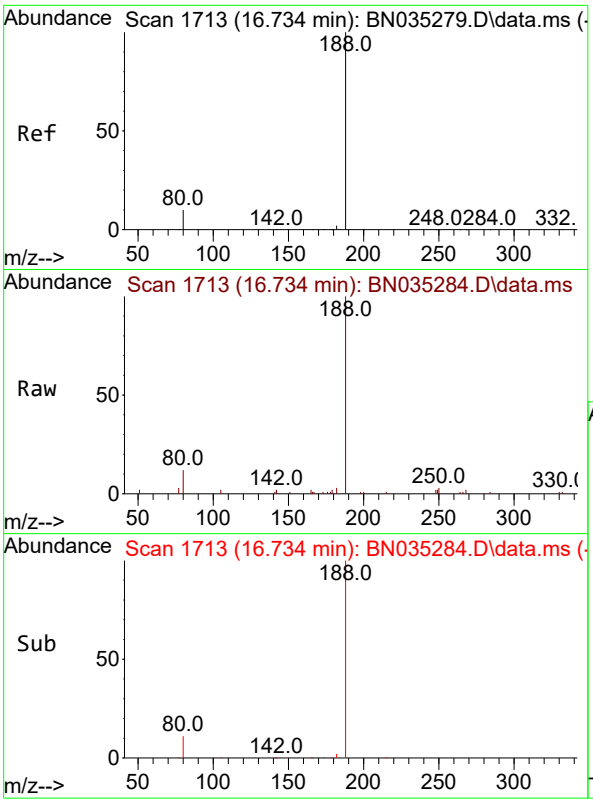


#18
Fluorene
Concen: 0.355 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:166 Resp: 4194

Ion	Ratio	Lower	Upper
166	100		
165	104.2	81.2	121.8
167	13.7	10.5	15.7



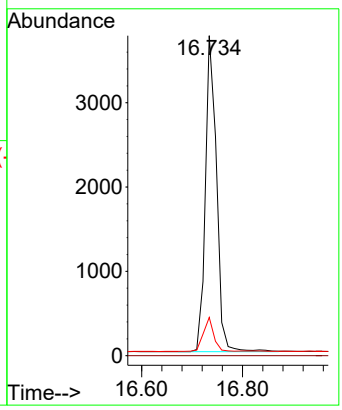


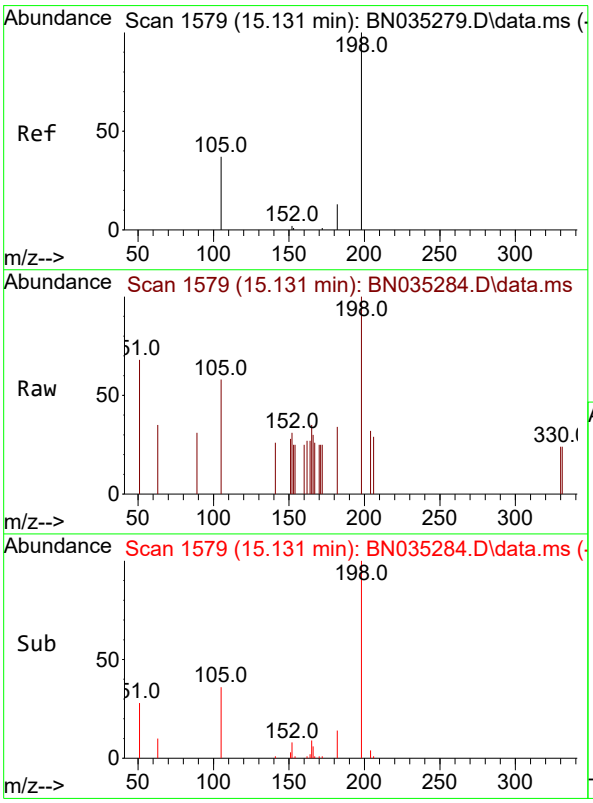
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:188 Resp: 5748

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.9	13.3

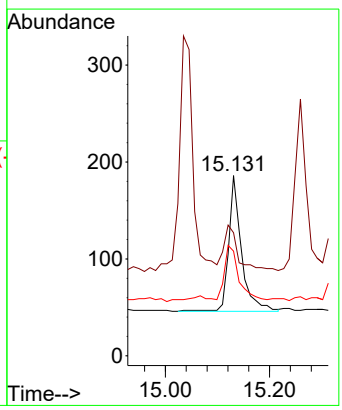


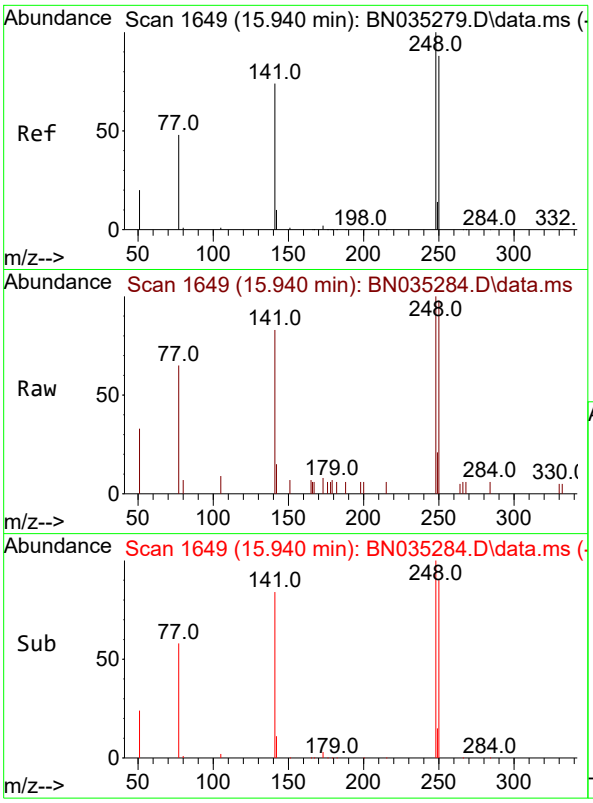


#20
4,6-Dinitro-2-methylphenol
Concen: 0.477 ng
RT: 15.131 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:198 Resp: 239

Ion	Ratio	Lower	Upper
198	100		
51	68.3	53.6	80.4
105	58.1	47.4	71.2



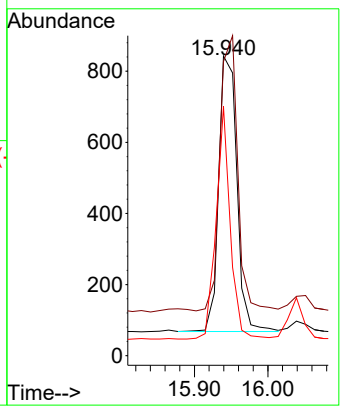


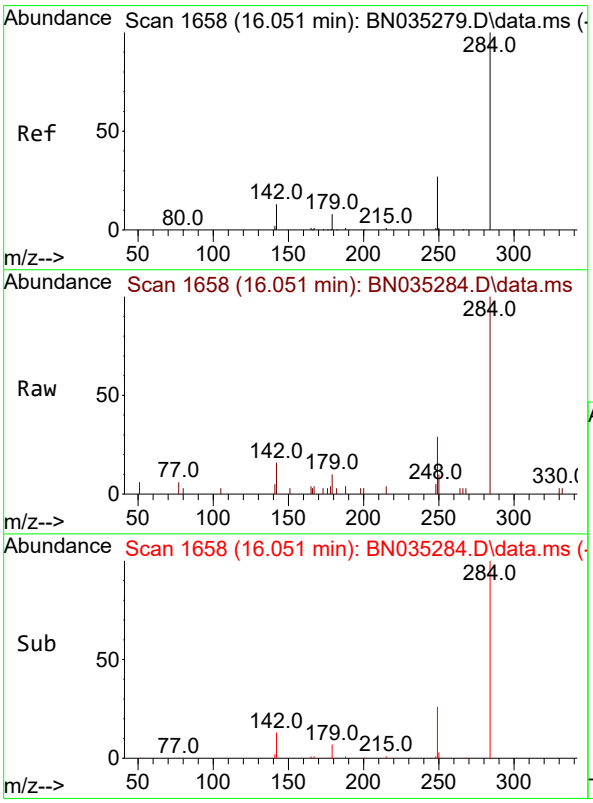
#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 15.940 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:248 Resp: 1328

Ion	Ratio	Lower	Upper
248	100		
250	98.1	74.8	112.2
141	83.2	59.0	88.4

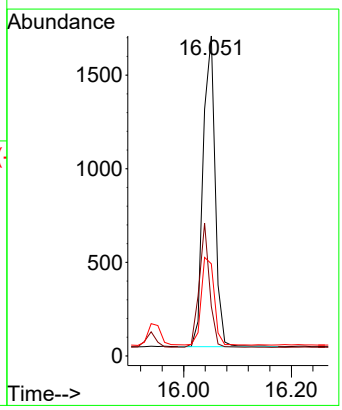


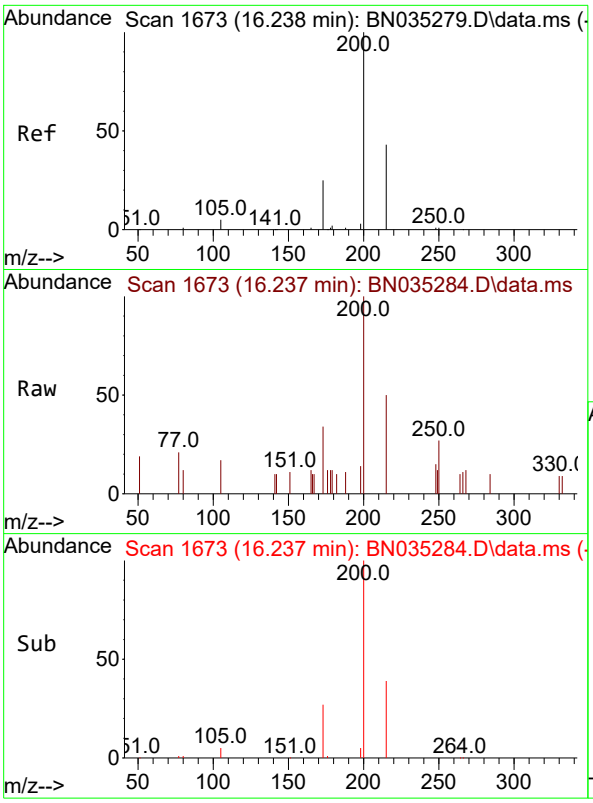


#22
Hexachlorobenzene
Concen: 0.491 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:284 Resp: 2564

Ion	Ratio	Lower	Upper
284	100		
142	35.1	28.7	43.1
249	30.5	25.4	38.0



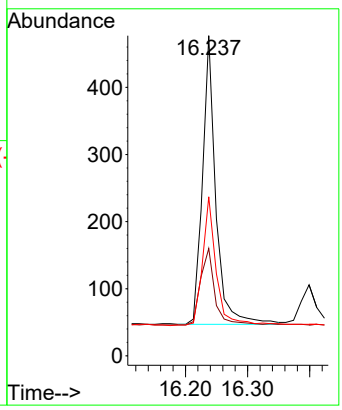


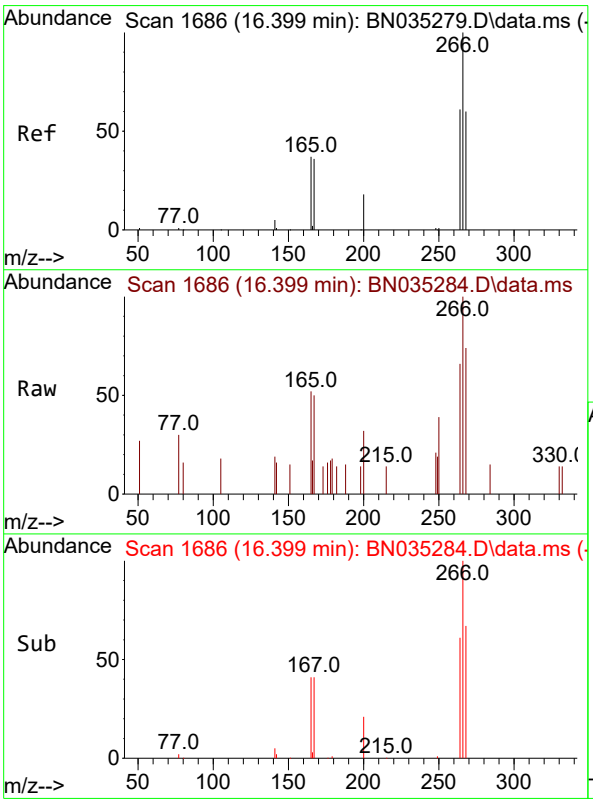
#23
Atrazine
Concen: 0.419 ng
RT: 16.237 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:200 Resp: 643

Ion	Ratio	Lower	Upper
200	100		
173	33.5	25.8	38.8
215	49.7	38.6	58.0

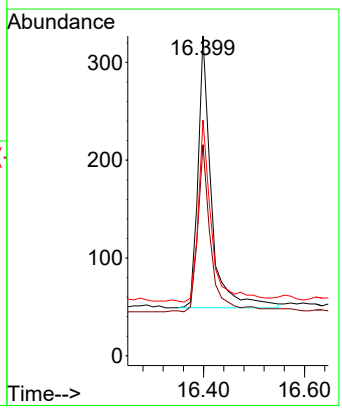


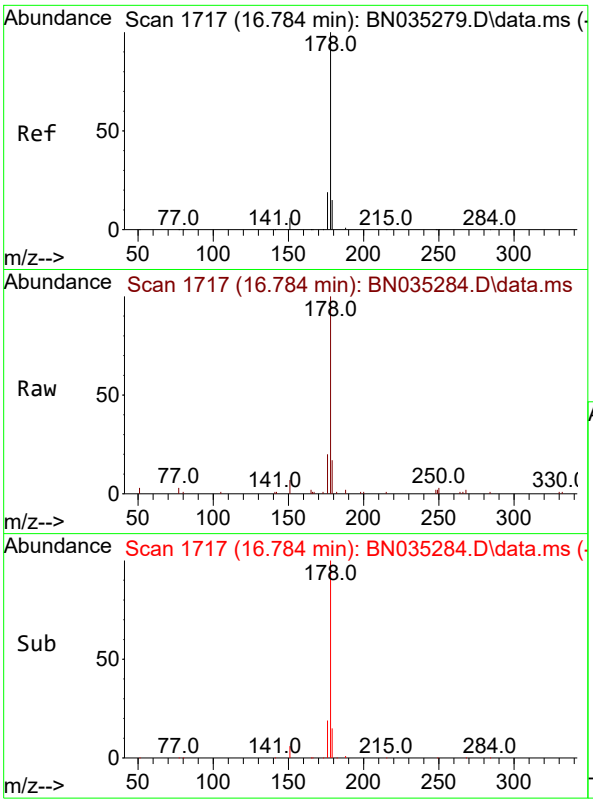


#24
Pentachlorophenol
Concen: 0.407 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:266 Resp: 510

Ion	Ratio	Lower	Upper
266	100		
264	59.8	49.3	73.9
268	66.9	48.6	73.0



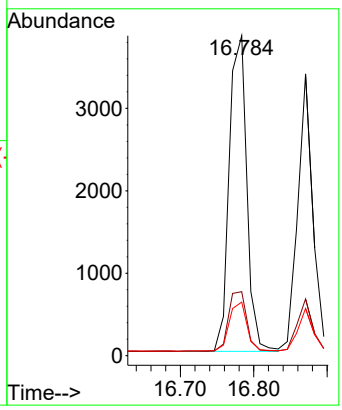


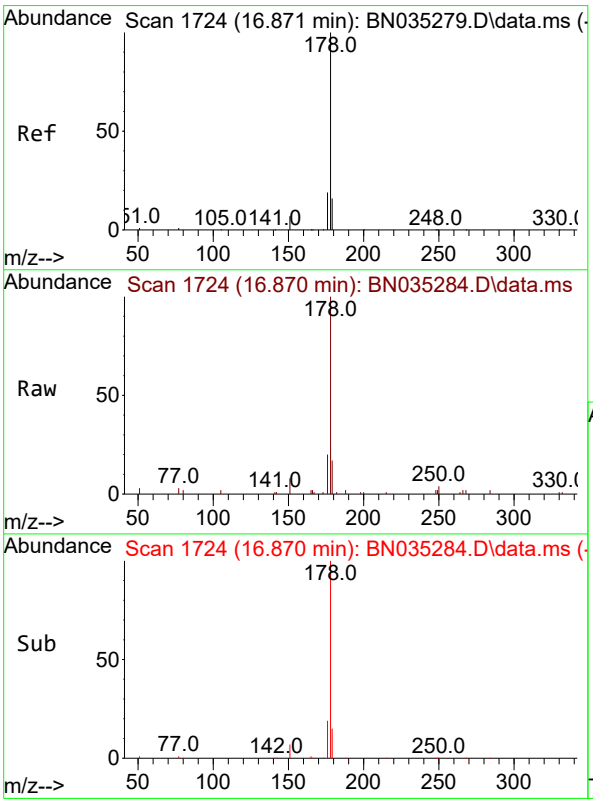
#25
Phenanthrene
Concen: 0.362 ng
RT: 16.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:178 Resp: 6385

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.0
179	15.8	12.6	18.8

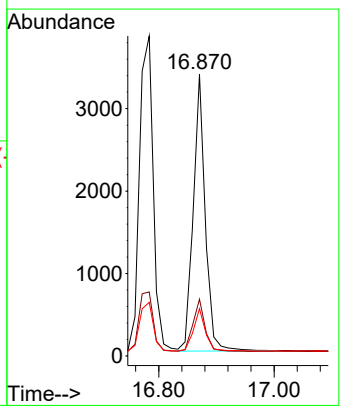


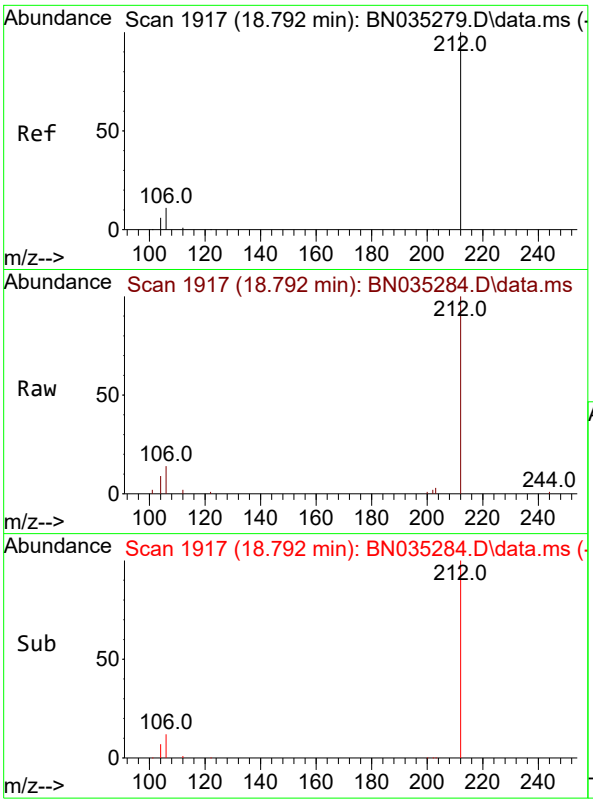


#26
Anthracene
Concen: 0.320 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:178 Resp: 4852

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.4
179	15.5	12.4	18.6



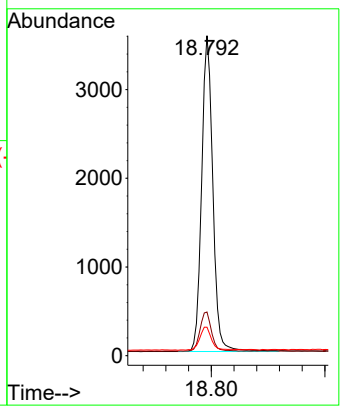


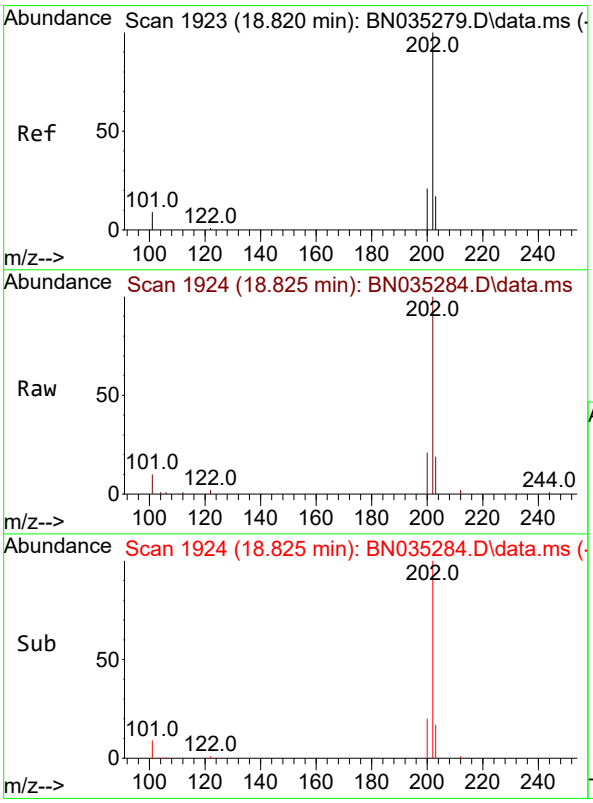
#27
Fluoranthene-d10
Concen: 0.317 ng
RT: 18.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:212 Resp: 4874

Ion	Ratio	Lower	Upper
212	100		
106	12.7	9.8	14.8
104	7.9	5.6	8.4

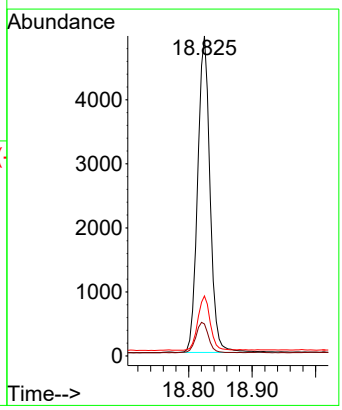


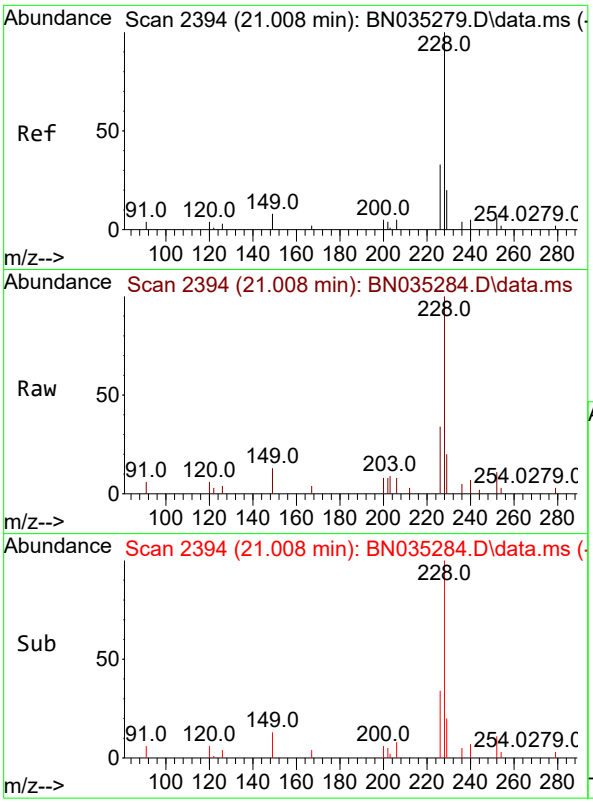


#28
Fluoranthene
Concen: 0.300 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.005 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:202 Resp: 6686

Ion	Ratio	Lower	Upper
202	100		
101	9.8	7.6	11.4
203	17.1	13.8	20.8



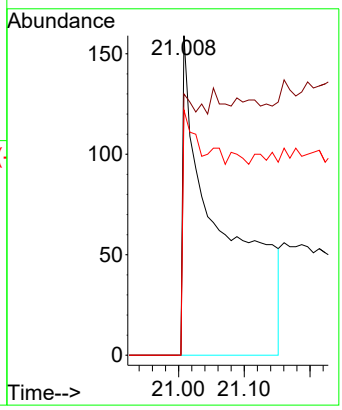


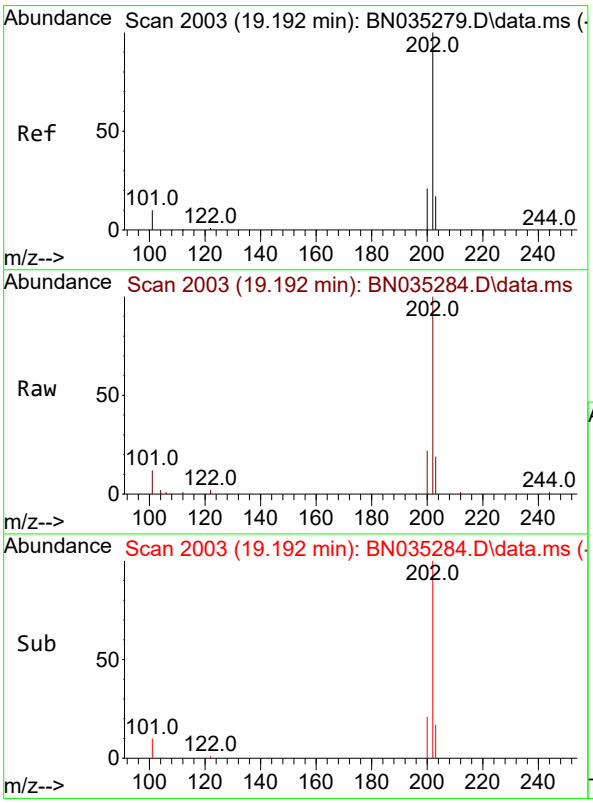
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:240 Resp: 611

Ion	Ratio	Lower	Upper
240	100		
120	81.8	54.9	82.3
236	76.7	54.0	81.0

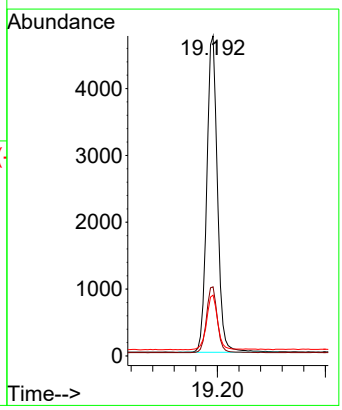


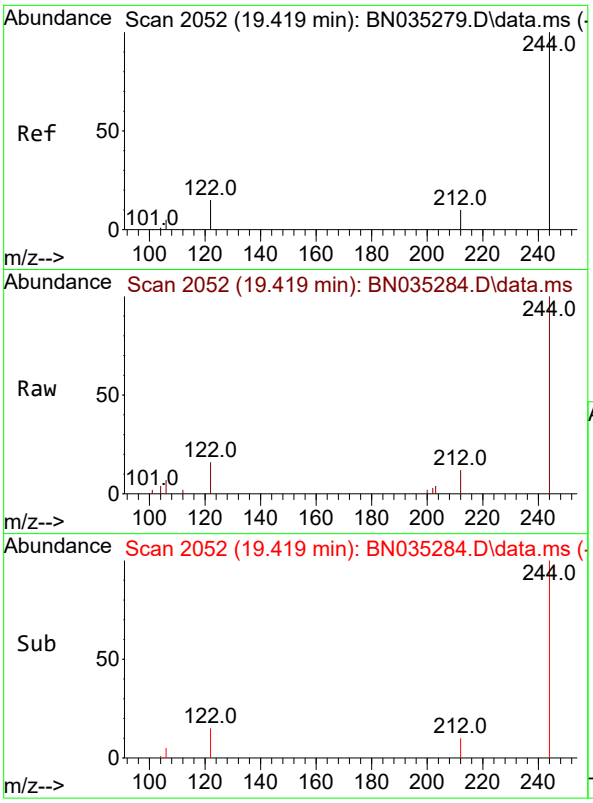


#30
Pyrene
Concen: 0.294 ng
RT: 19.192 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:202 Resp: 6525

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.9	14.4	21.6



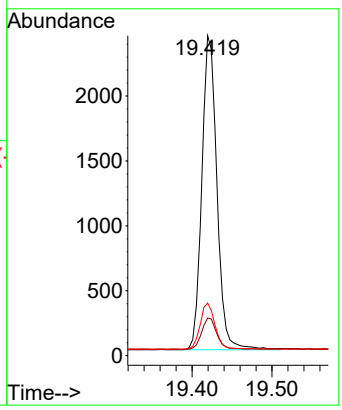


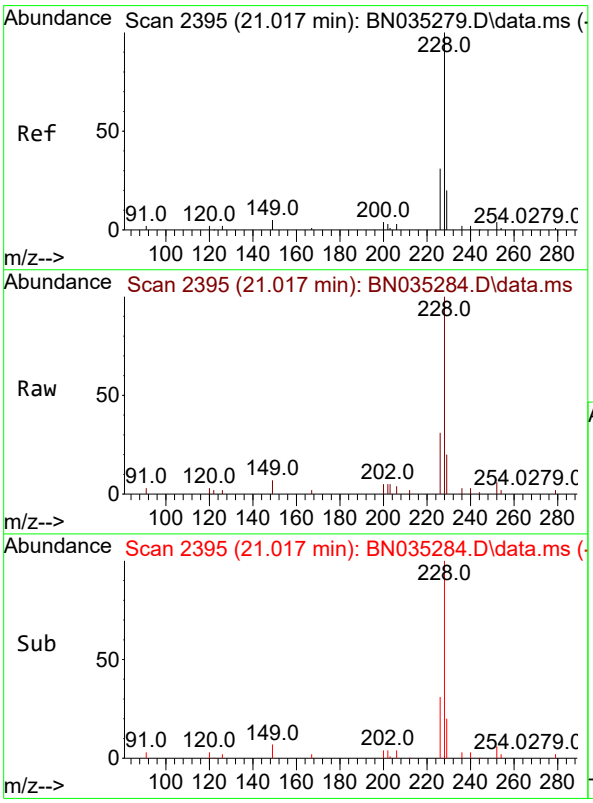
#31
Terphenyl-d14
Concen: 0.282 ng
RT: 19.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:244 Resp: 3187

Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.4	14.0
122	16.4	13.0	19.4

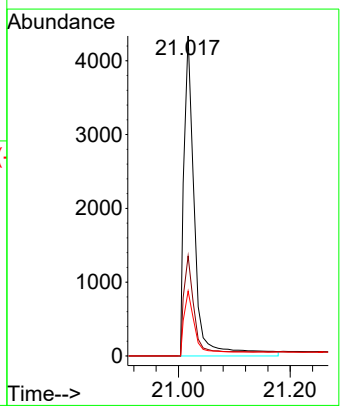


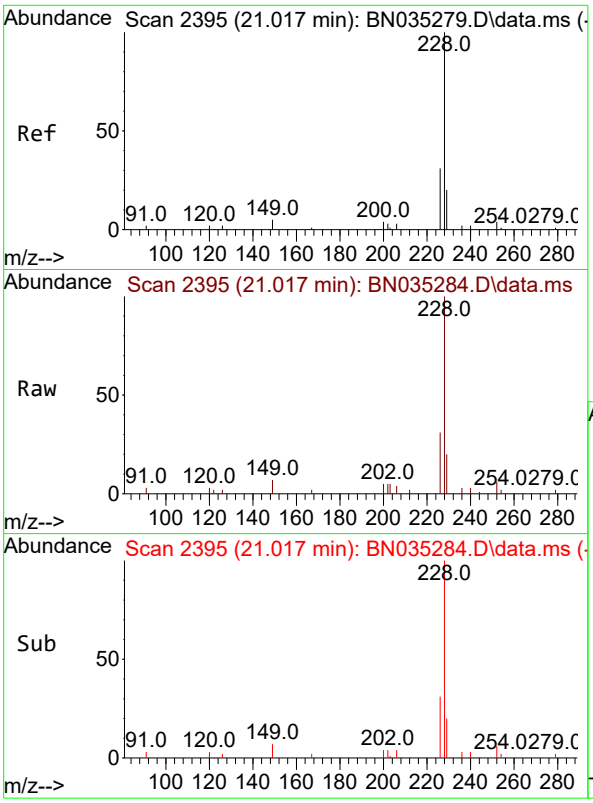


#32
Benzo(a)anthracene
Concen: 0.273 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:228 Resp: 5799

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.7	37.1
229	20.3	16.2	24.2



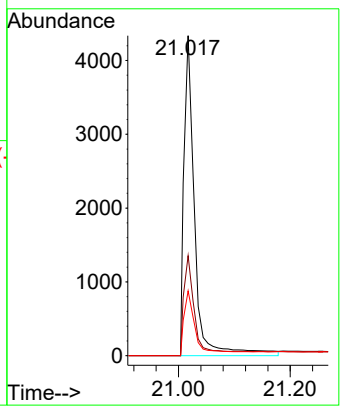


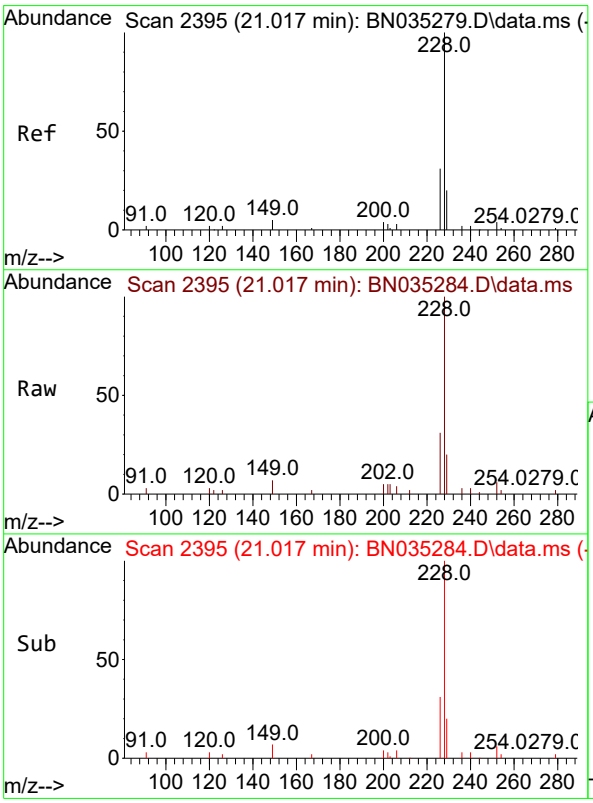
#33
Chrysene
Concen: 0.273 ng
RT: 21.017 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:228 Resp: 5799

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.7	37.1
229	20.3	16.2	24.2

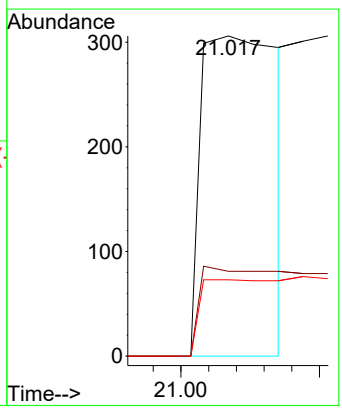


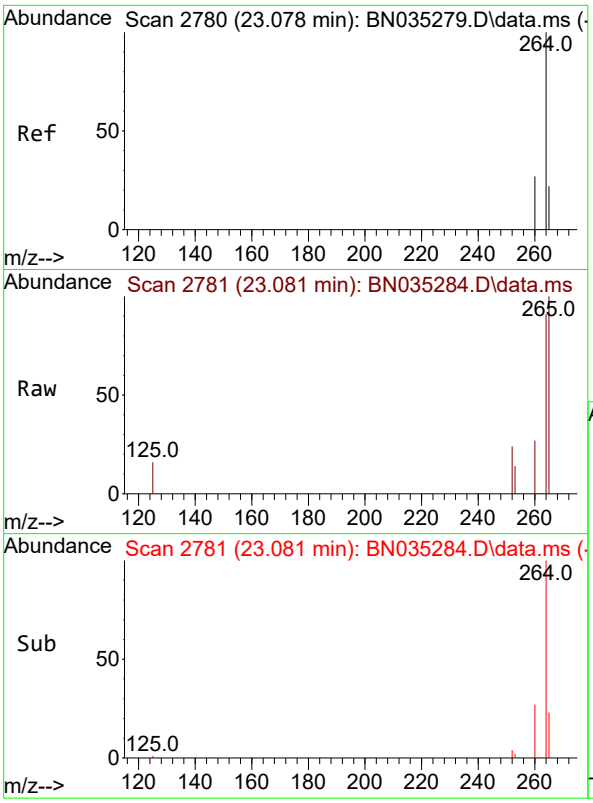


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.041 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:149 Resp: 520

Ion	Ratio	Lower	Upper
149	100		
167	35.4	0.0	0.0#
279	17.1	13.0	19.6



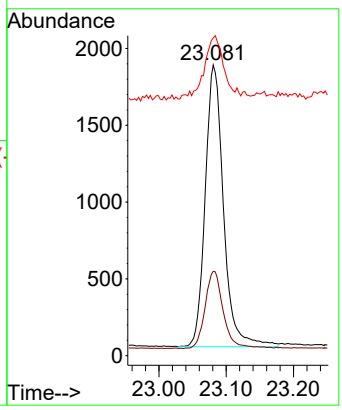


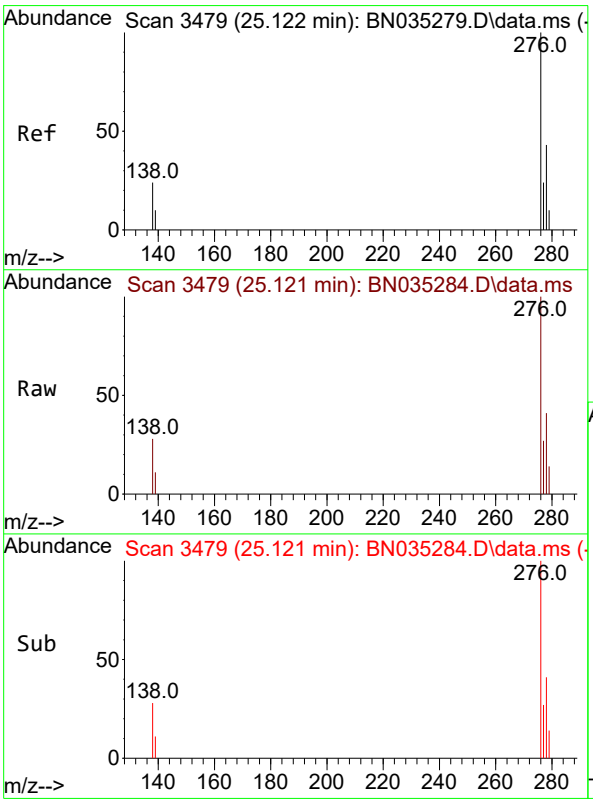
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:264 Resp: 3470

Ion	Ratio	Lower	Upper
264	100		
260	29.0	22.3	33.5
265	109.3	68.6	103.0#

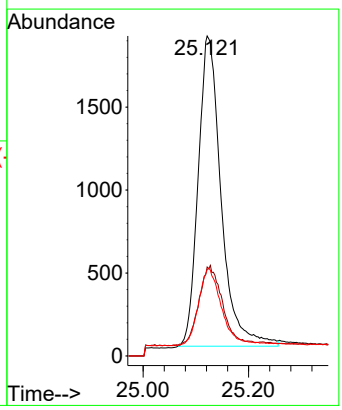


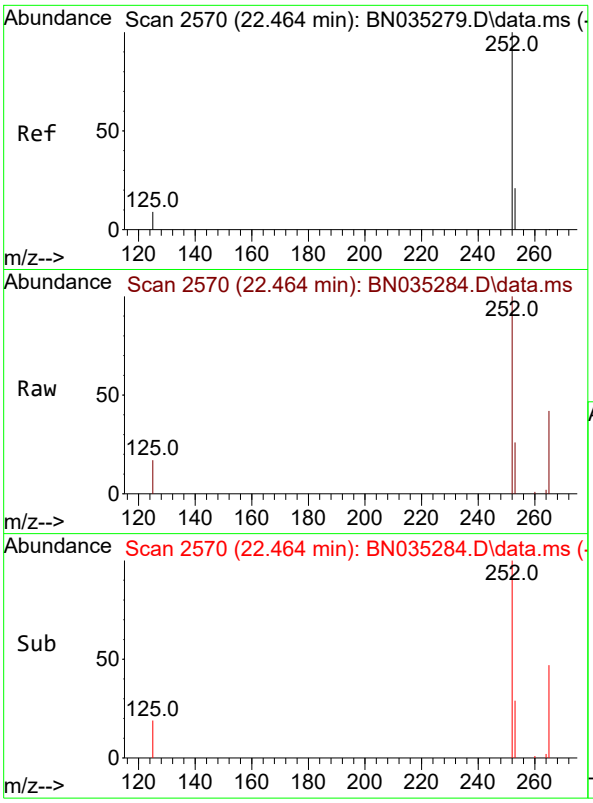


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.398 ng
RT: 25.121 min Scan# 3479
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:276 Resp: 5652

Ion	Ratio	Lower	Upper
276	100		
138	23.1	18.8	28.2
277	23.0	18.2	27.4



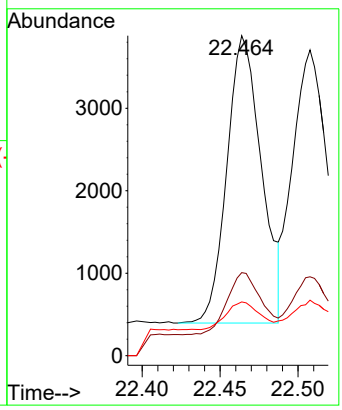


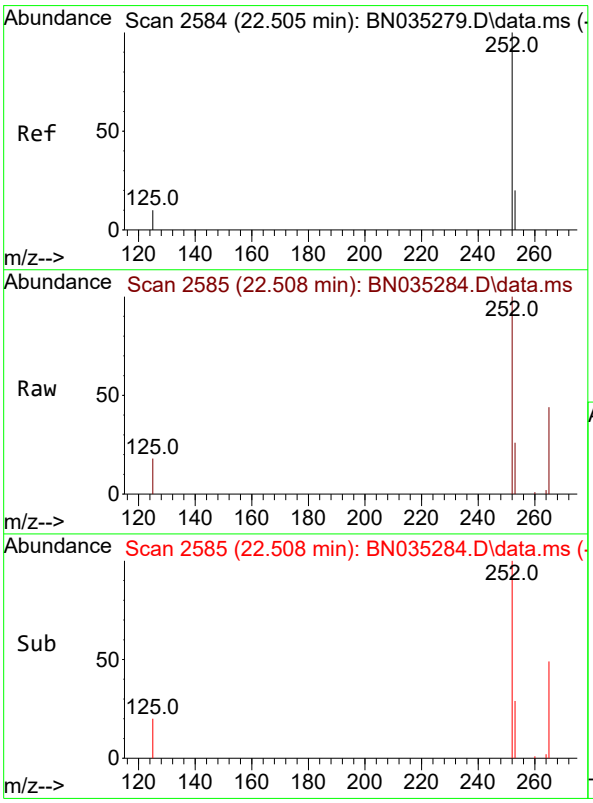
#37
Benzo(b)fluoranthene
Concen: 0.355 ng
RT: 22.464 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:252 Resp: 5358

Ion	Ratio	Lower	Upper
252	100		
253	26.0	20.2	30.2
125	16.8	12.0	18.0

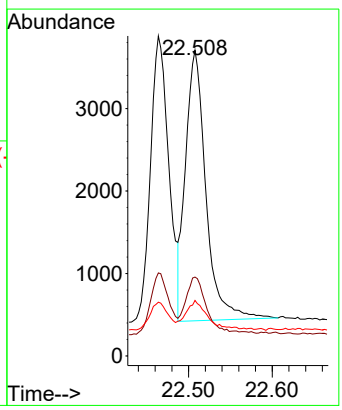


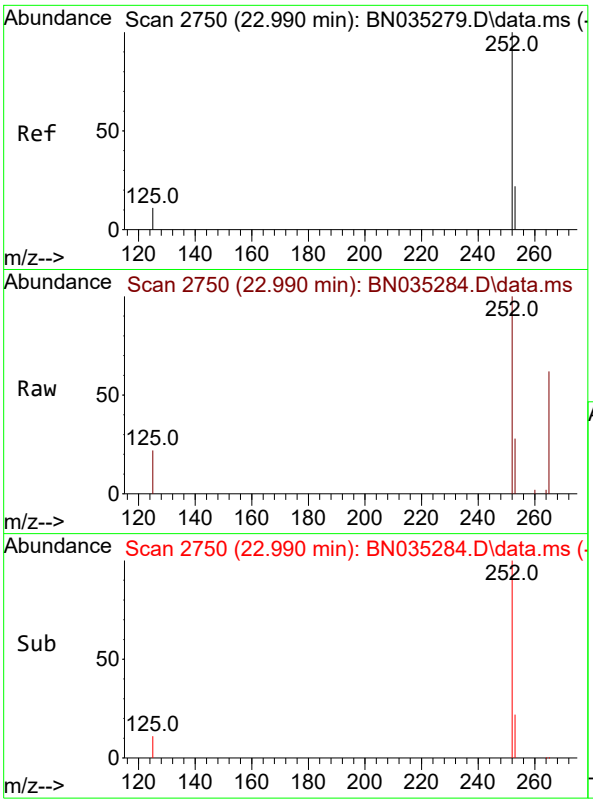


#38
Benzo(k)fluoranthene
Concen: 0.348 ng
RT: 22.508 min Scan# 2585
Delta R.T. 0.003 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:252 Resp: 5559

Ion	Ratio	Lower	Upper
252	100		
253	25.8	20.1	30.1
125	18.1	12.7	19.1



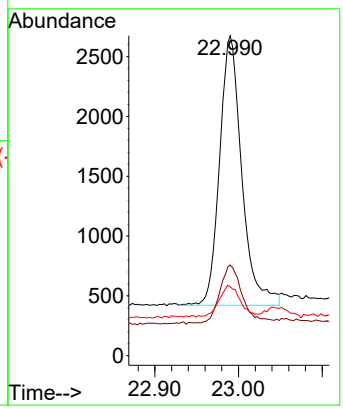


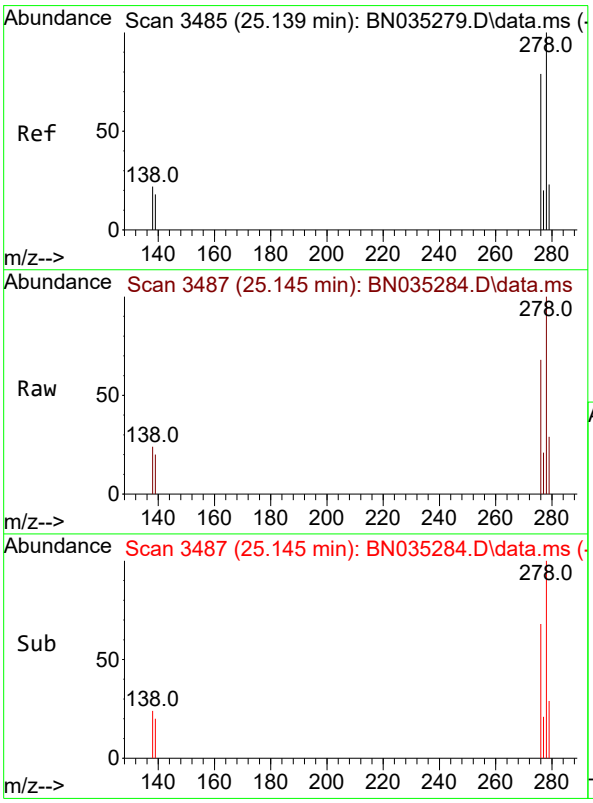
#39
Benzo(a)pyrene
Concen: 0.361 ng
RT: 22.990 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:252 Resp: 4167

Ion	Ratio	Lower	Upper
252	100		
253	28.3	22.3	33.5
125	21.5	15.3	22.9

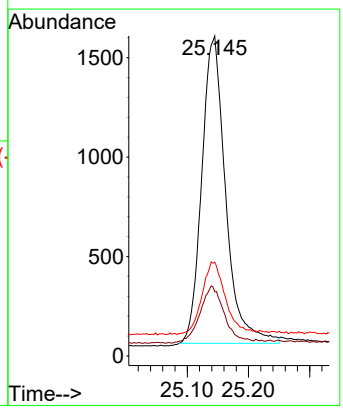


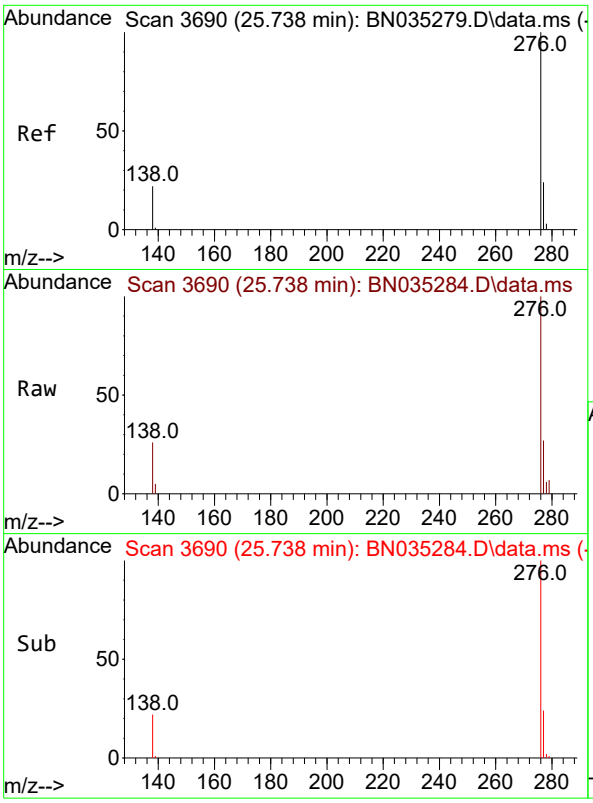


#40
Dibenzo(a,h)anthracene
Concen: 0.389 ng
RT: 25.145 min Scan# 3487
Delta R.T. 0.006 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:278 Resp: 4182

Ion	Ratio	Lower	Upper
278	100		
139	20.1	17.0	25.6
279	29.3	23.0	34.4



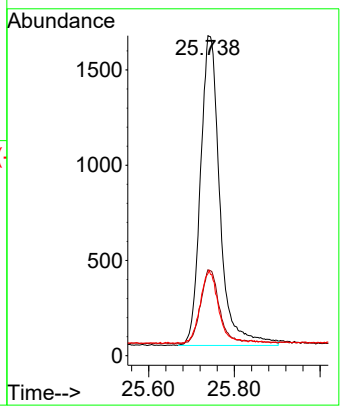


#41
Benzo(g,h,i)perylene
Concen: 0.412 ng
RT: 25.738 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:276 Resp: 5121

Ion	Ratio	Lower	Upper
276	100		
277	26.8	21.1	31.7
138	25.7	19.8	29.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035293.D
Acq On : 25 Nov 2024 23:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 26 02:53:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

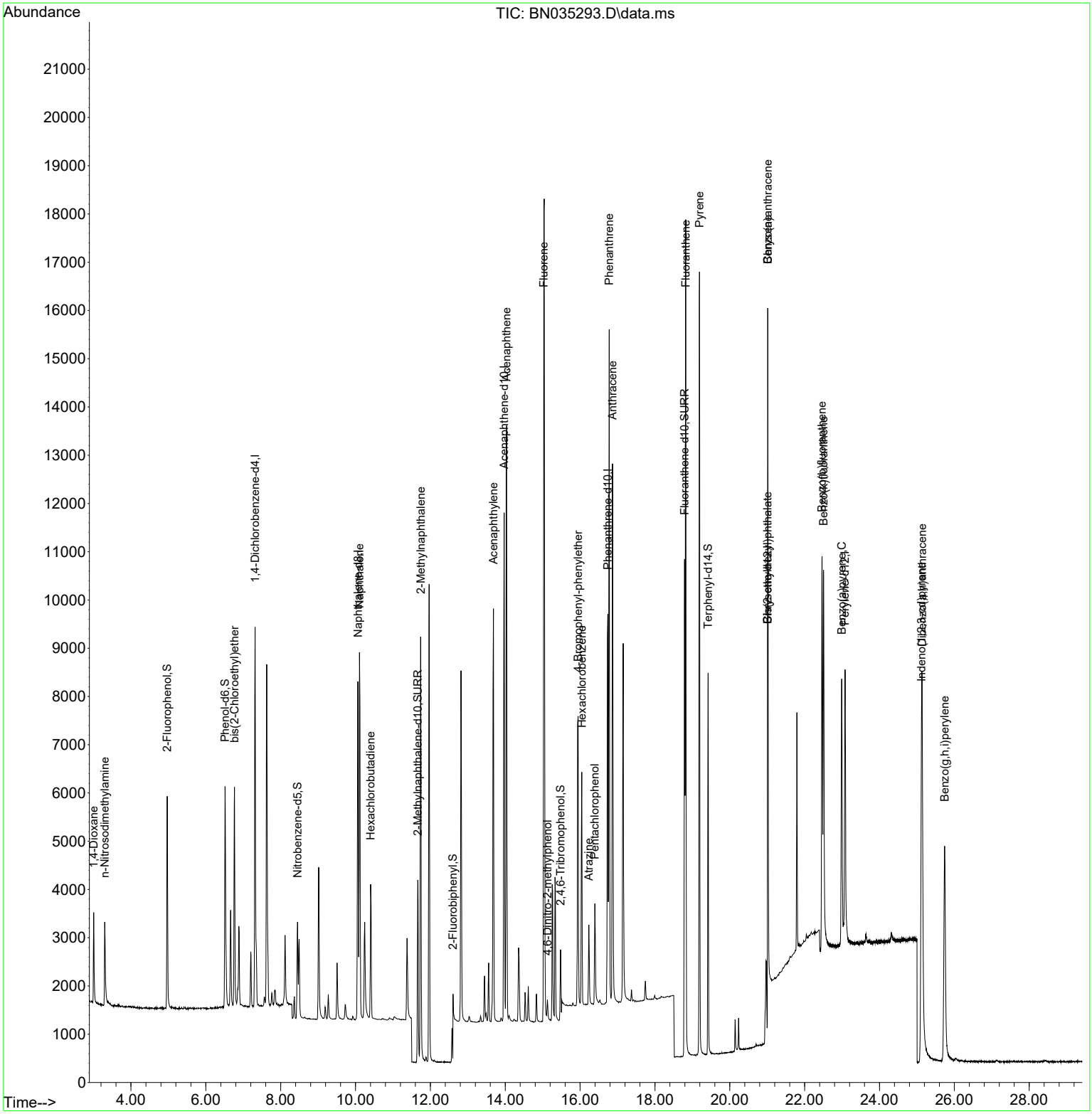
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3724	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	9273	0.400	ng	# 0.00
13) Acenaphthene-d10	13.973	164	5865	0.400	ng	# 0.00
19) Phenanthrene-d10	16.741	188	12563	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	932	0.400	ng	# 0.00
35) Perylene-d12	23.078	264	7119	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	3633	0.516	ng	0.00
5) Phenol-d6	6.513	99	4690	0.477	ng	0.00
8) Nitrobenzene-d5	8.450	82	1996	0.265	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	5475	0.422	ng	0.00
14) 2,4,6-Tribromophenol	15.480	330	1245	0.416	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	851	0.263	ng	0.00
27) Fluoranthene-d10	18.790	212	11601	0.345	ng	0.00
31) Terphenyl-d14	19.422	244	7795	0.453	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	1344	0.502	ng	# 72
3) n-Nitrosodimethylamine	3.299	42	1095	0.395	ng	# 72
6) bis(2-Chloroethyl)ether	6.766	93	3610	0.436	ng	98
9) Naphthalene	10.105	128	9911	0.385	ng	100
10) Hexachlorobutadiene	10.404	225	2320	0.321	ng	# 100
12) 2-Methylnaphthalene	11.742	142	6764	0.402	ng	98
16) Acenaphthylene	13.684	152	9720	0.329	ng	99
17) Acenaphthene	14.037	154	6539	0.352	ng	# 85
18) Fluorene	15.031	166	8779	0.337	ng	98
20) 4,6-Dinitro-2-methylph...	15.127	198	368	0.392	ng	96
21) 4-Bromophenyl-phenylether	15.946	248	3083	0.387	ng	# 78
22) Hexachlorobenzene	16.046	284	3763	0.330	ng	99
23) Atrazine	16.232	200	1428	0.425	ng	99
24) Pentachlorophenol	16.393	266	1142	0.417	ng	98
25) Phenanthrene	16.778	178	13726	0.356	ng	100
26) Anthracene	16.865	178	11907	0.359	ng	100
28) Fluoranthene	18.822	202	15419	0.317	ng	100
30) Pyrene	19.189	202	14952	0.441	ng	100
32) Benzo(a)anthracene	21.015	228	11234	0.346	ng	99
33) Chrysene	21.015	228	11234	0.346	ng	99
34) Bis(2-ethylhexyl)phtha...	21.006	149	416	0.233	ng	# 64
36) Indeno(1,2,3-cd)pyrene	25.119	276	11225	0.385	ng	99
37) Benzo(b)fluoranthene	22.464	252	9762	0.316	ng	98
38) Benzo(k)fluoranthene	22.505	252	10556	0.323	ng	98
39) Benzo(a)pyrene	22.991	252	8259	0.349	ng	97
40) Dibenzo(a,h)anthracene	25.140	278	8482	0.385	ng	96
41) Benzo(g,h,i)perylene	25.742	276	9609	0.377	ng	97

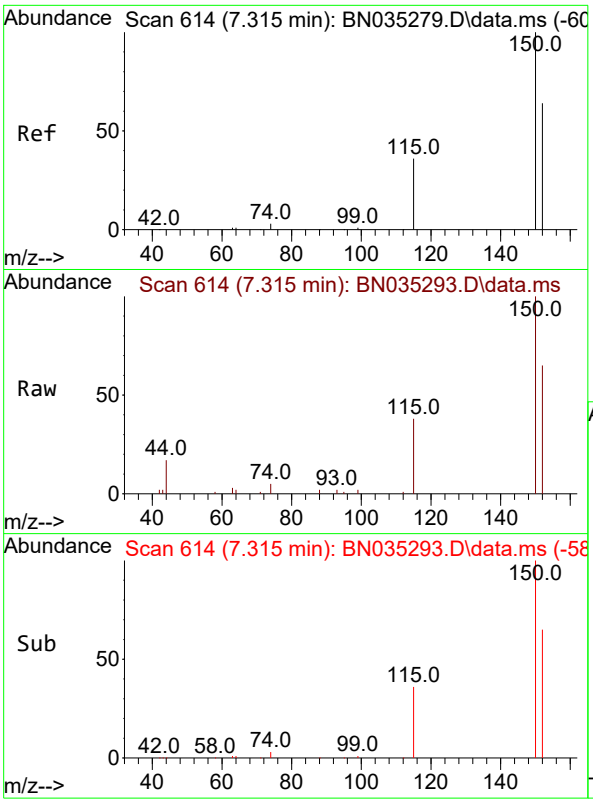
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035293.D
Acq On : 25 Nov 2024 23:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 26 02:53:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration



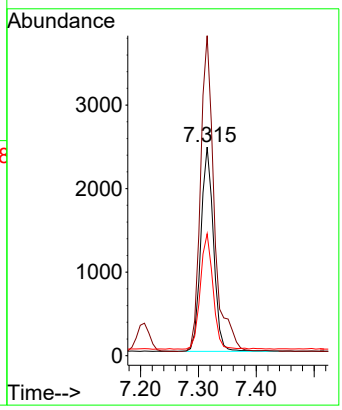


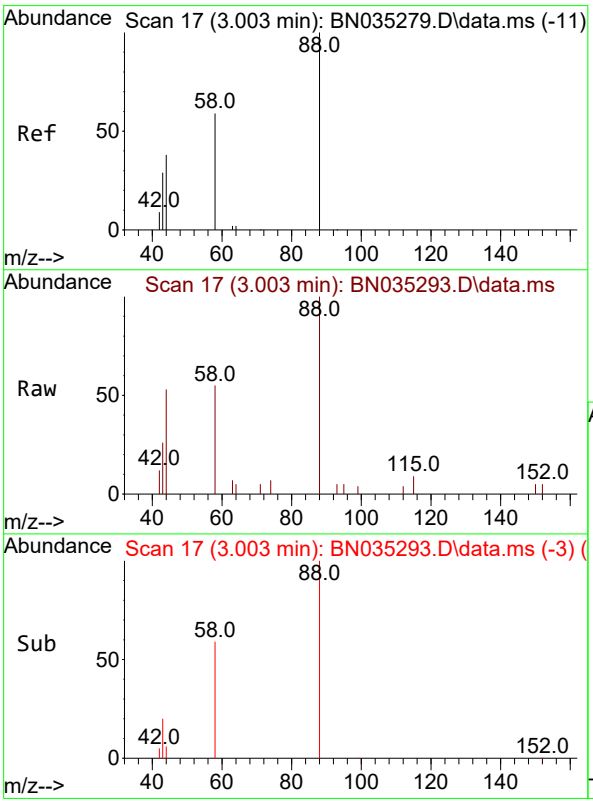
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3724

Ion	Ratio	Lower	Upper
152	100		
150	153.4	124.5	186.7
115	58.4	47.8	71.8

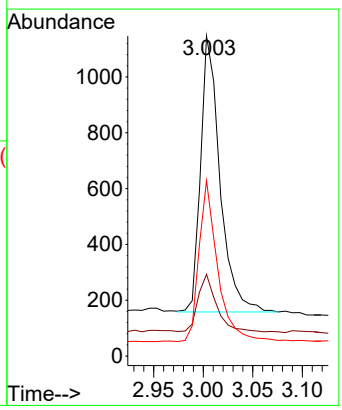


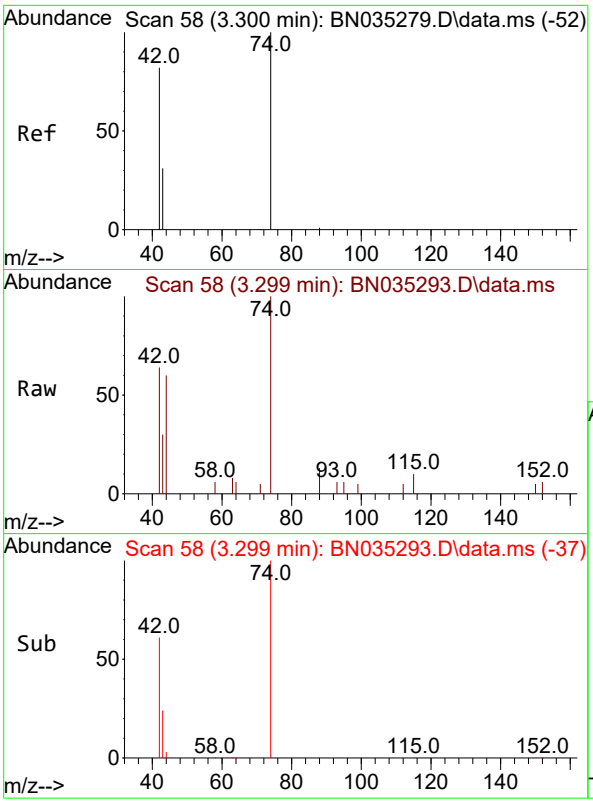


#2
1,4-Dioxane
Concen: 0.502 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion: 88 Resp: 1344

Ion	Ratio	Lower	Upper
88	100		
43	19.7	48.1	72.1#
58	56.6	46.9	70.3



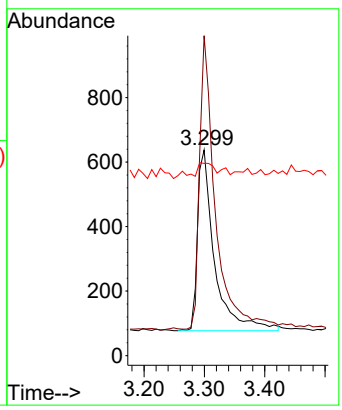


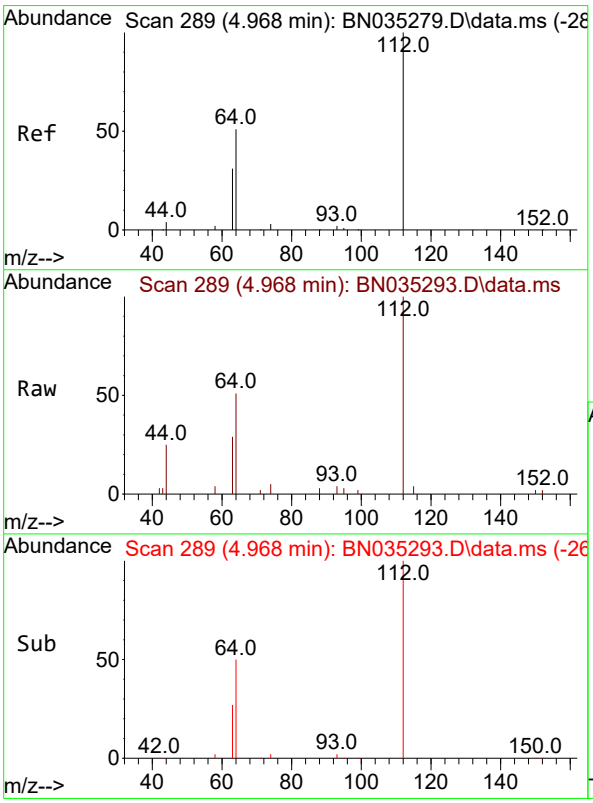
#3
n-Nitrosodimethylamine
Concen: 0.395 ng
RT: 3.299 min Scan# 5
Delta R.T. -0.001 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1095

Ion	Ratio	Lower	Upper
42	100		
74	151.0	102.7	154.1
44	9.1	34.1	51.1#

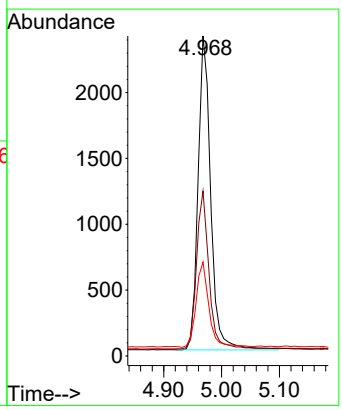


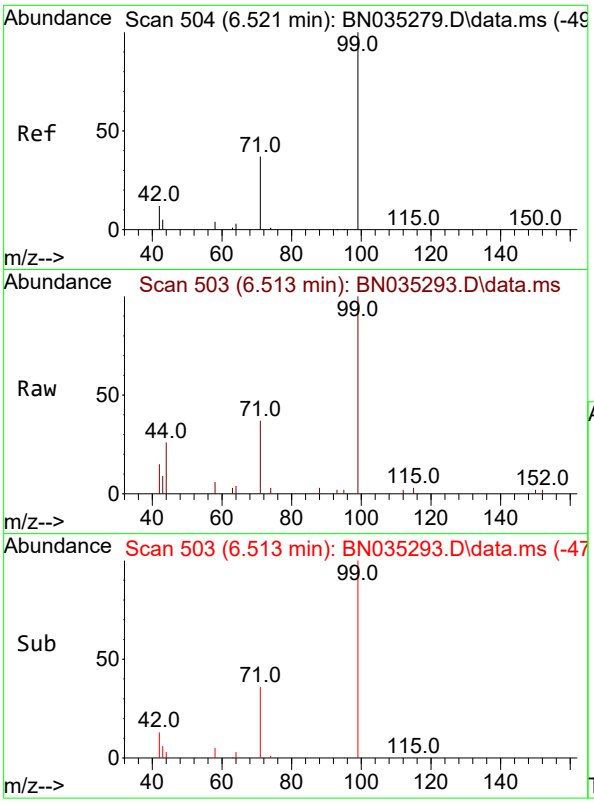


#4
2-Fluorophenol
Concen: 0.516 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:112 Resp: 3633

Ion	Ratio	Lower	Upper
112	100		
64	49.6	40.4	60.6
63	27.7	23.8	35.8



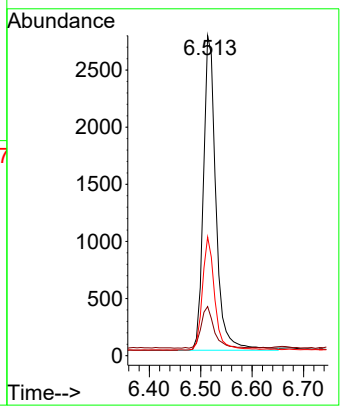


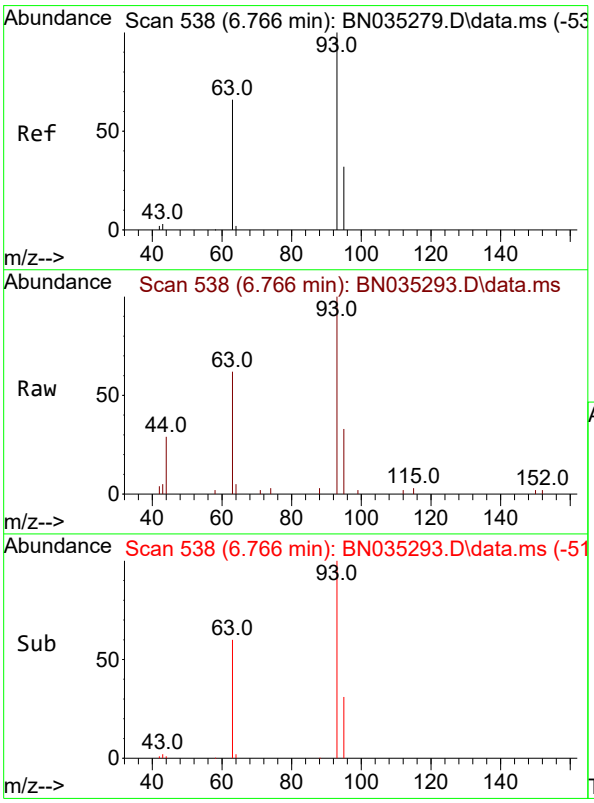
#5
Phenol-d6
Concen: 0.477 ng
RT: 6.513 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 4690

Ion	Ratio	Lower	Upper
99	100		
42	13.7	12.8	19.2
71	35.0	31.4	47.2

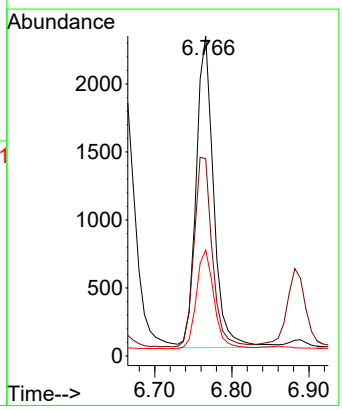


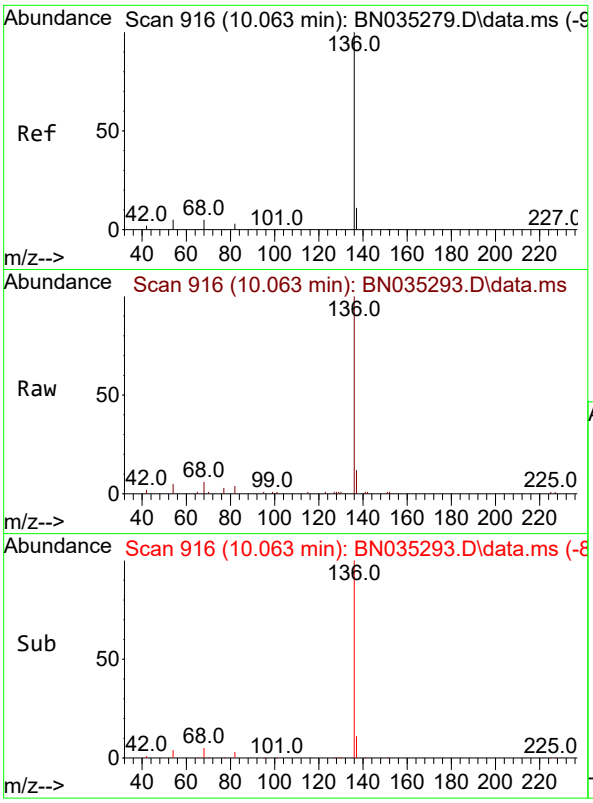


#6
bis(2-Chloroethyl)ether
Concen: 0.436 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion: 93 Resp: 3610

Ion	Ratio	Lower	Upper
93	100		
63	63.1	52.3	78.5
95	31.8	25.5	38.3



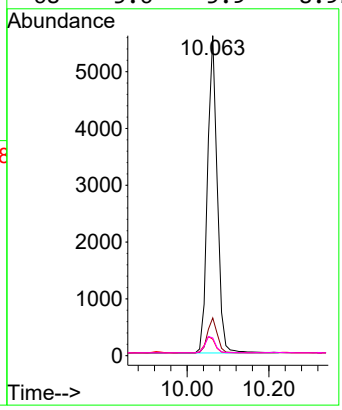


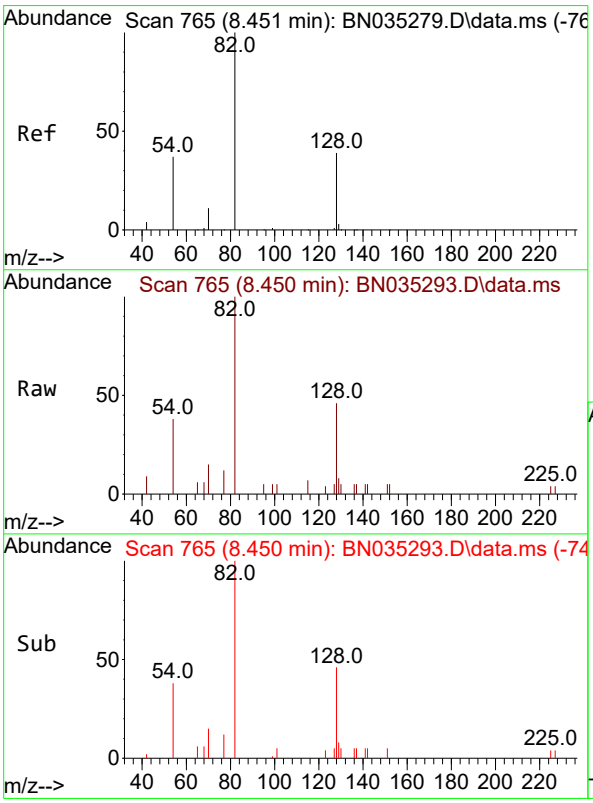
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 9273

Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.7	14.5
54	5.2	5.3	7.9#
68	5.6	5.9	8.9#

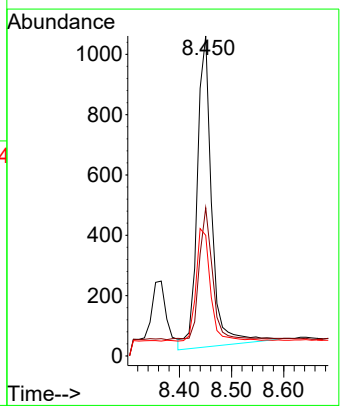


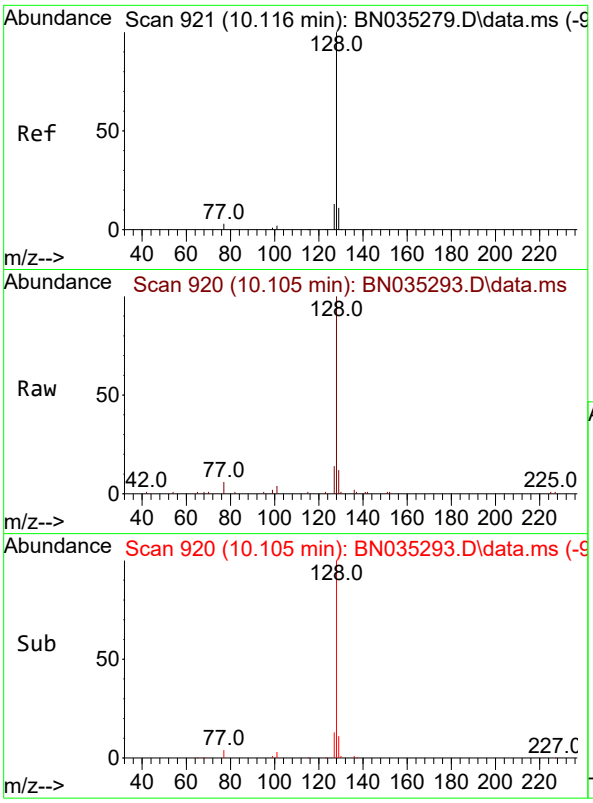


#8
Nitrobenzene-d5
Concen: 0.265 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion: 82 Resp: 1996

Ion	Ratio	Lower	Upper
82	100		
128	46.3	33.0	49.4
54	37.7	33.3	49.9



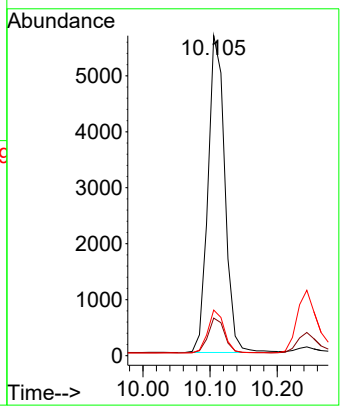


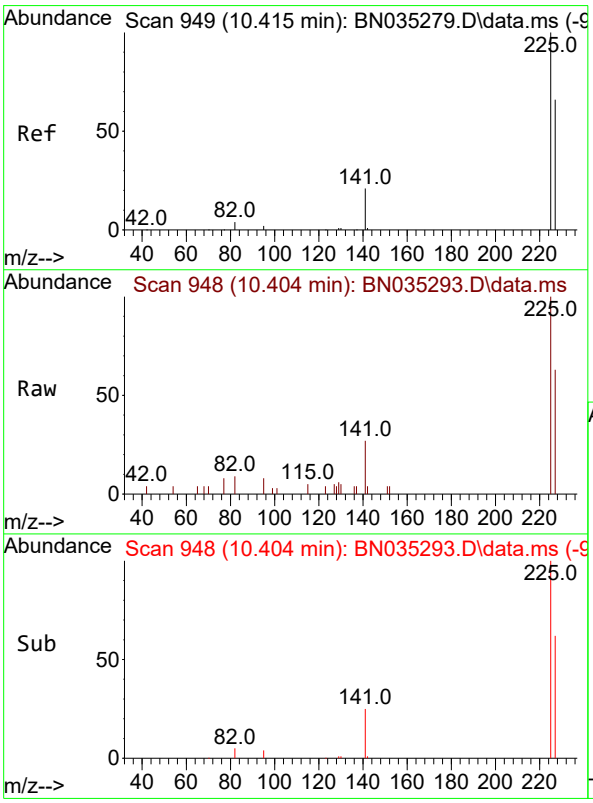
#9
Naphthalene
Concen: 0.385 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 9911

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.6	14.4
127	14.2	11.3	16.9

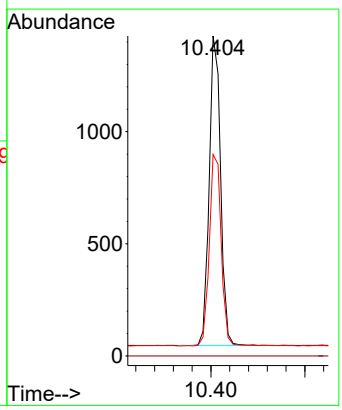


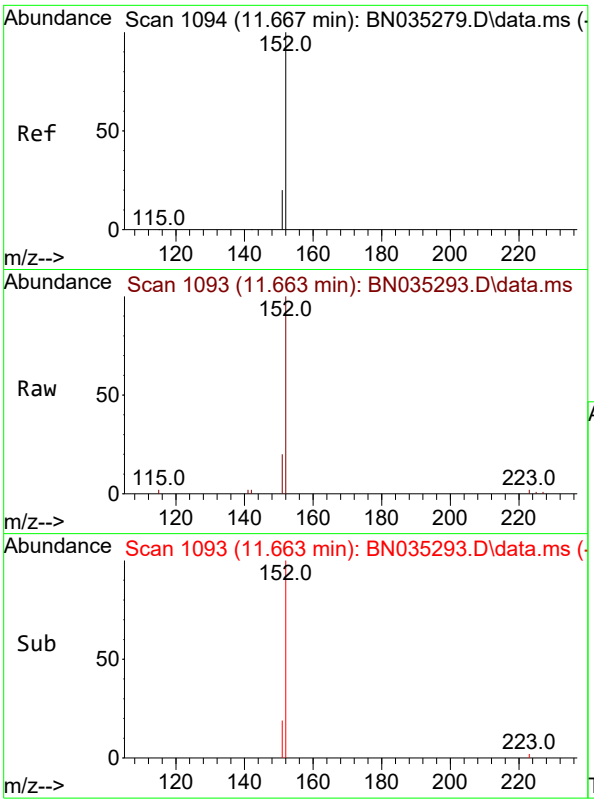


#10
Hexachlorobutadiene
Concen: 0.321 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:225 Resp: 2320

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	51.3	76.9



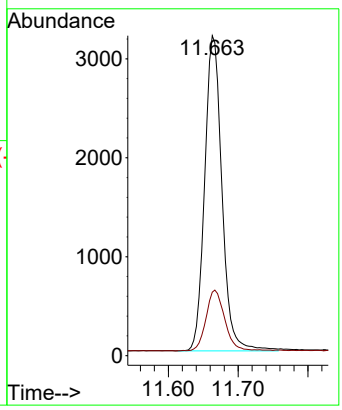


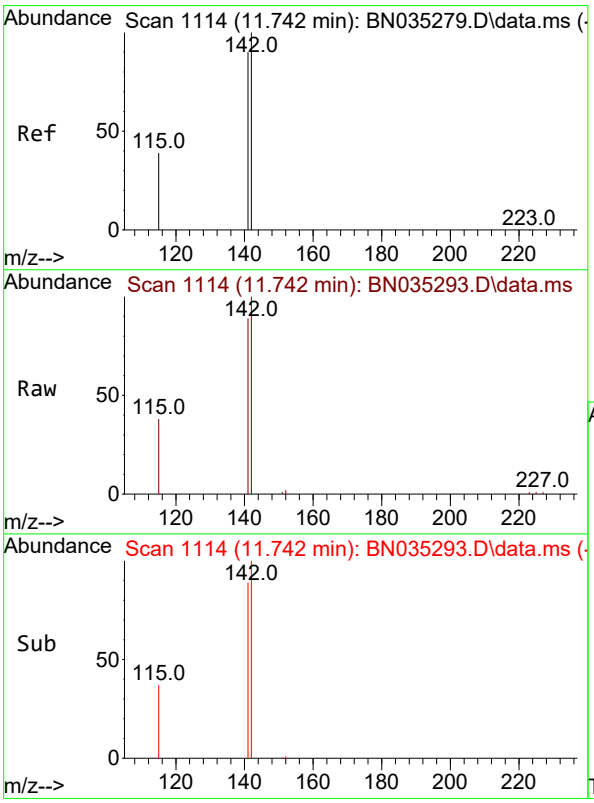
#11
2-Methylnaphthalene-d10
Concen: 0.422 ng
RT: 11.663 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5475

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.2	25.8

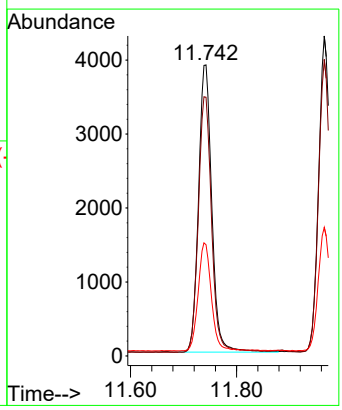


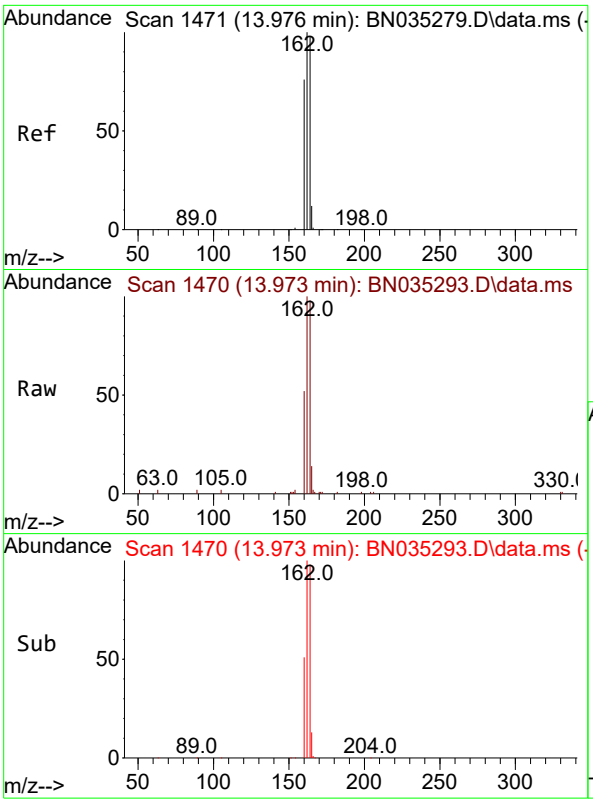


#12
2-Methylnaphthalene
Concen: 0.402 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:142 Resp: 6764

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.8	107.8
115	38.2	32.6	49.0



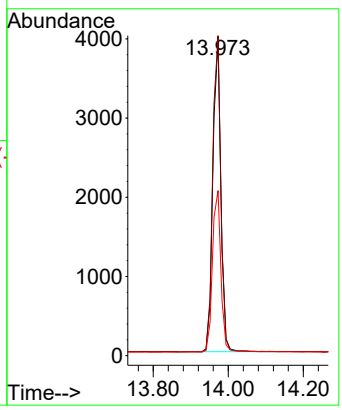


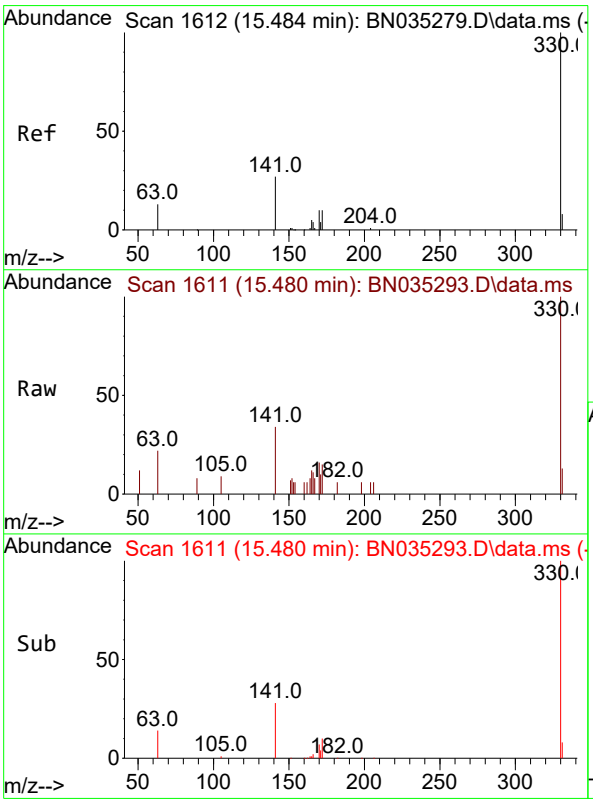
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.973 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5865

Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.0	123.0
160	52.4	63.0	94.4#

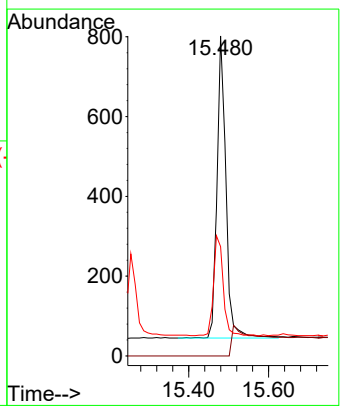


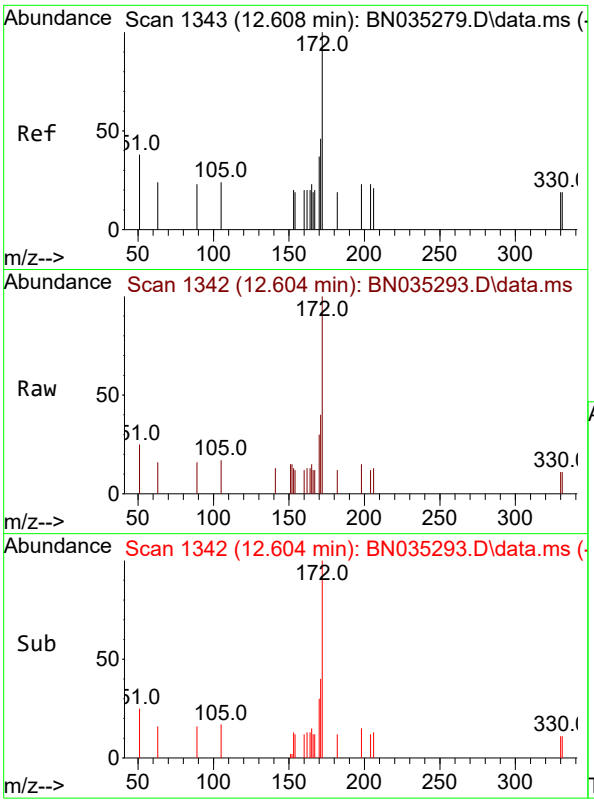


#14
2,4,6-Tribromophenol
Concen: 0.416 ng
RT: 15.480 min Scan# 1611
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:330 Resp: 1245

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	36.1	32.4	48.6



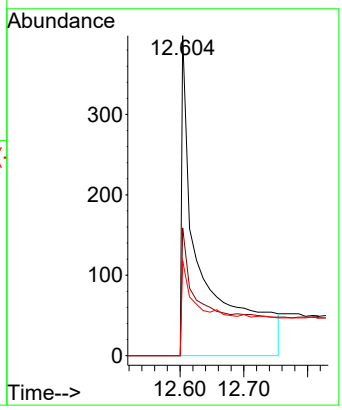


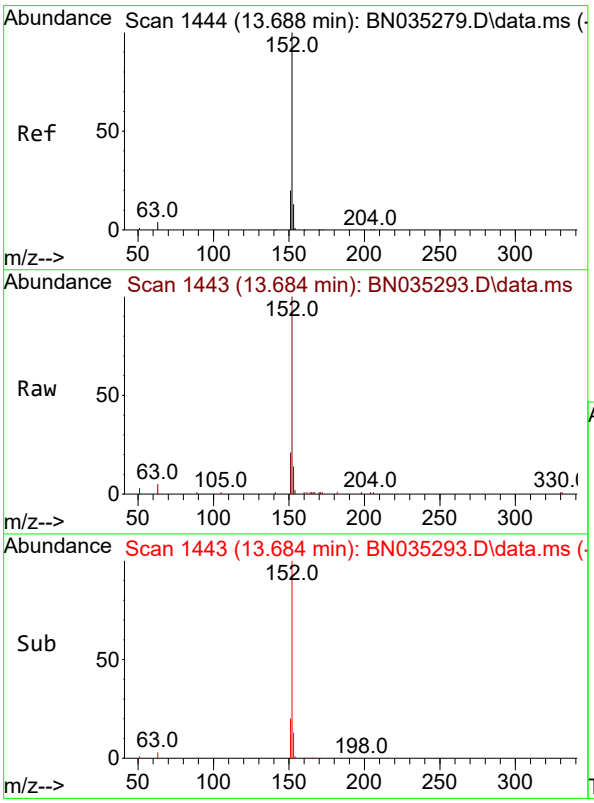
#15
2-Fluorobiphenyl
Concen: 0.263 ng
RT: 12.604 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 851

Ion	Ratio	Lower	Upper
172	100		
171	39.9	36.6	55.0
170	29.6	29.7	44.5#

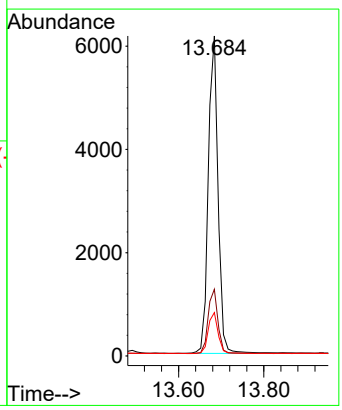


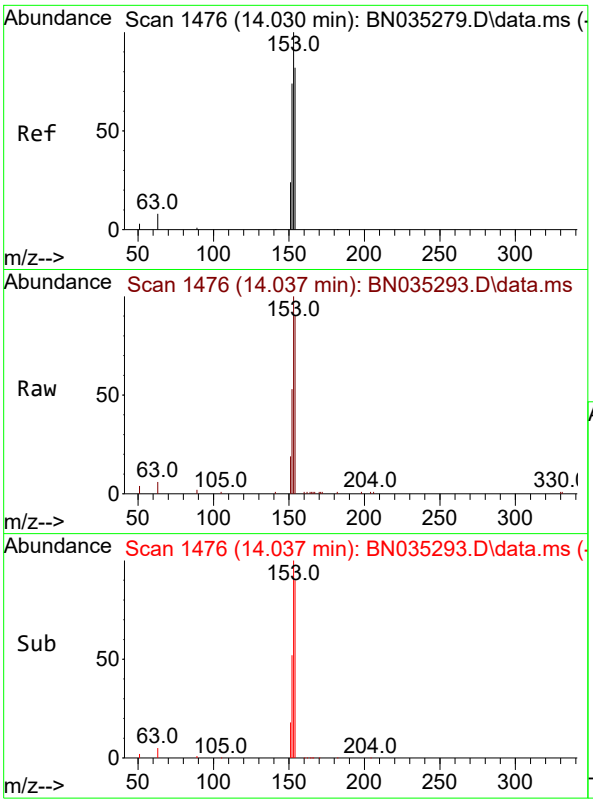


#16
Acenaphthylene
Concen: 0.329 ng
RT: 13.684 min Scan# 1443
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:152 Resp: 9720

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.9	23.9
153	13.1	10.2	15.4



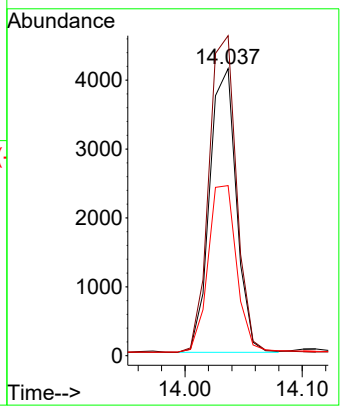


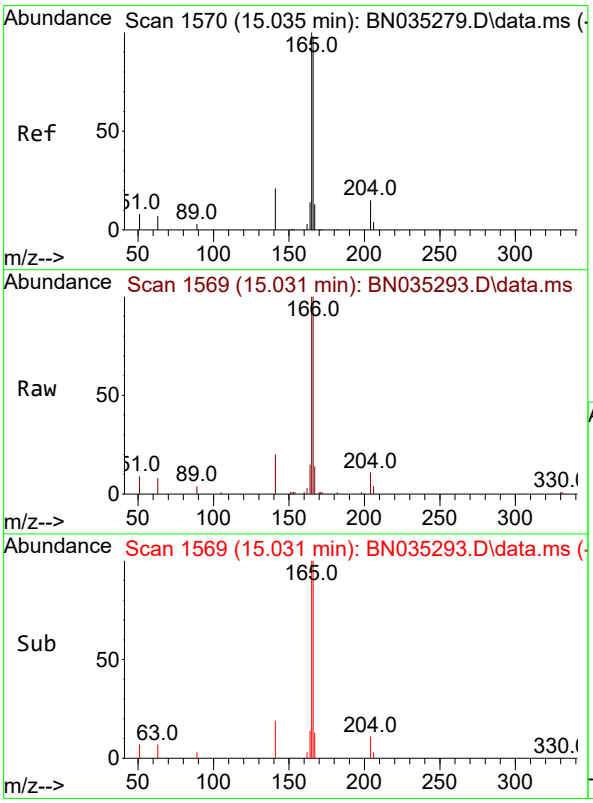
#17
Acenaphthene
Concen: 0.352 ng
RT: 14.037 min Scan# 14
Delta R.T. 0.007 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 6539

Ion	Ratio	Lower	Upper
154	100		
153	115.4	96.1	144.1
152	63.2	72.2	108.2#

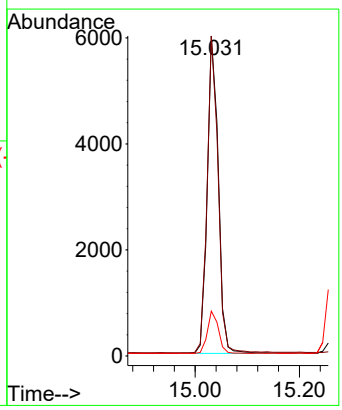


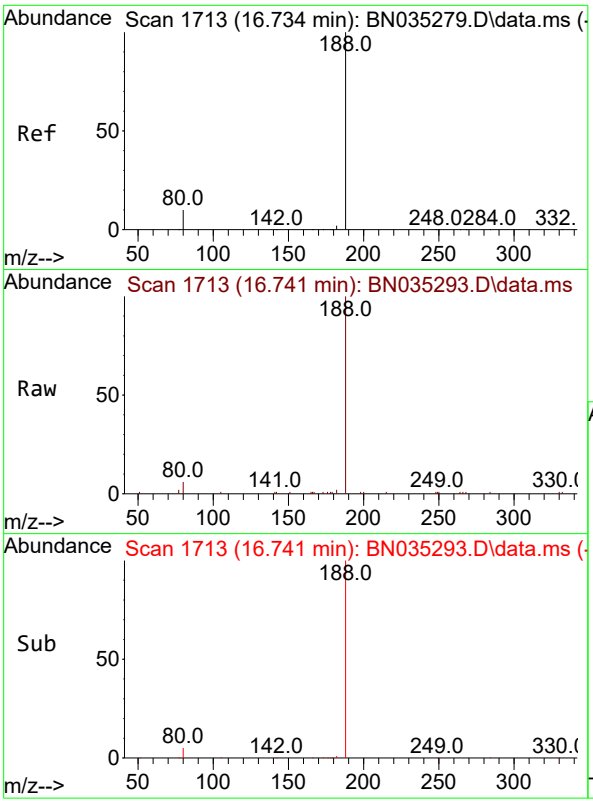


#18
Fluorene
Concen: 0.337 ng
RT: 15.031 min Scan# 1569
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:166 Resp: 8779

Ion	Ratio	Lower	Upper
166	100		
165	98.8	81.2	121.8
167	13.3	10.5	15.7



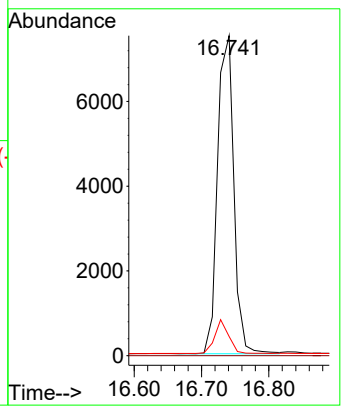


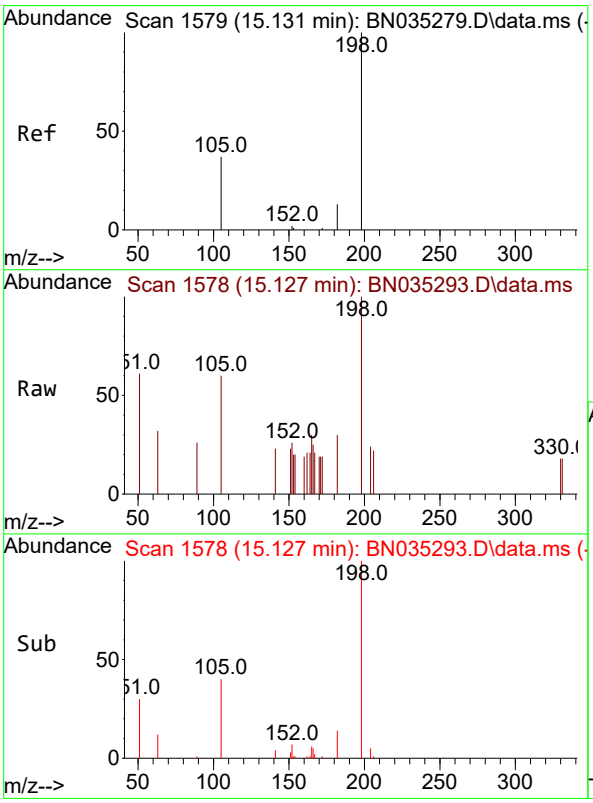
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.741 min Scan# 1
Delta R.T. 0.007 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 12563

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.0	8.9	13.3#

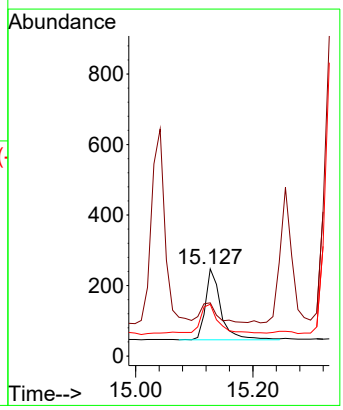


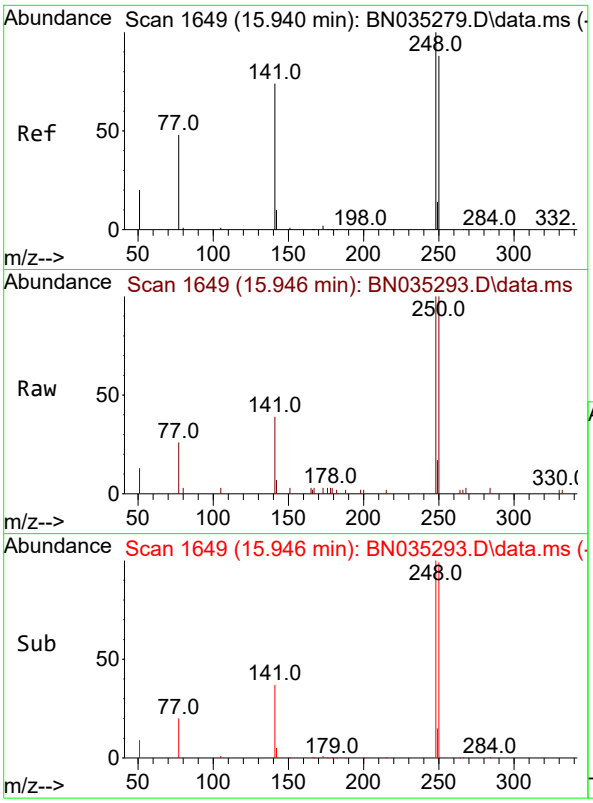


#20
4,6-Dinitro-2-methylphenol
Concen: 0.392 ng
RT: 15.127 min Scan# 1578
Delta R.T. -0.004 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:198 Resp: 368

Ion	Ratio	Lower	Upper
198	100		
51	61.1	53.6	80.4
105	59.5	47.4	71.2



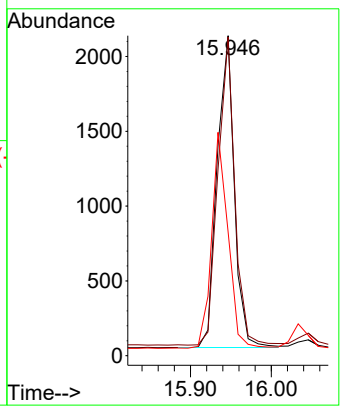


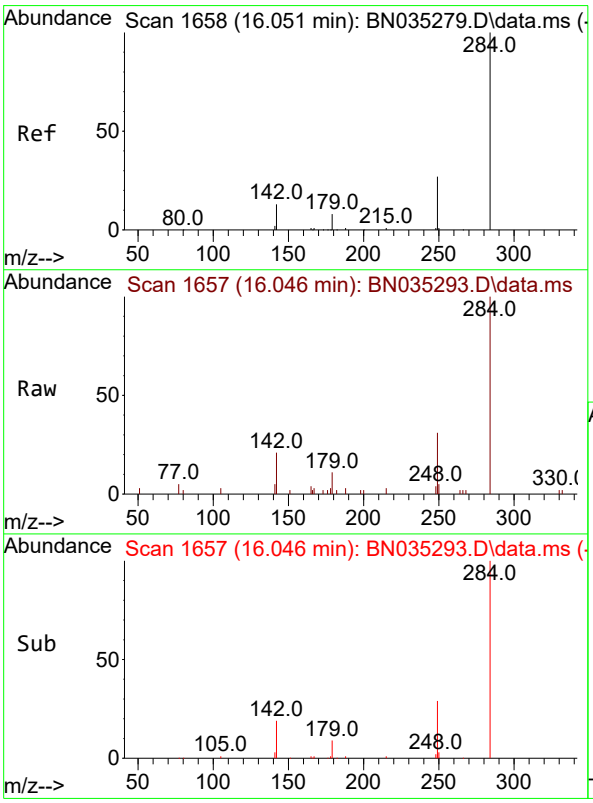
#21
4-Bromophenyl-phenylether
Concen: 0.387 ng
RT: 15.946 min Scan# 1
Delta R.T. 0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 3083

Ion	Ratio	Lower	Upper
248	100		
250	99.6	74.8	112.2
141	38.7	59.0	88.4#

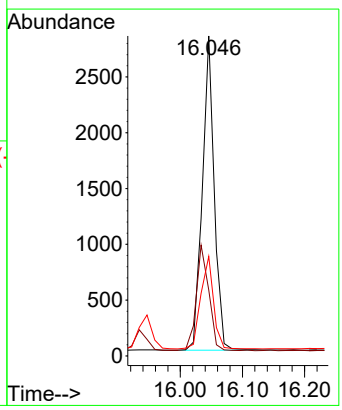


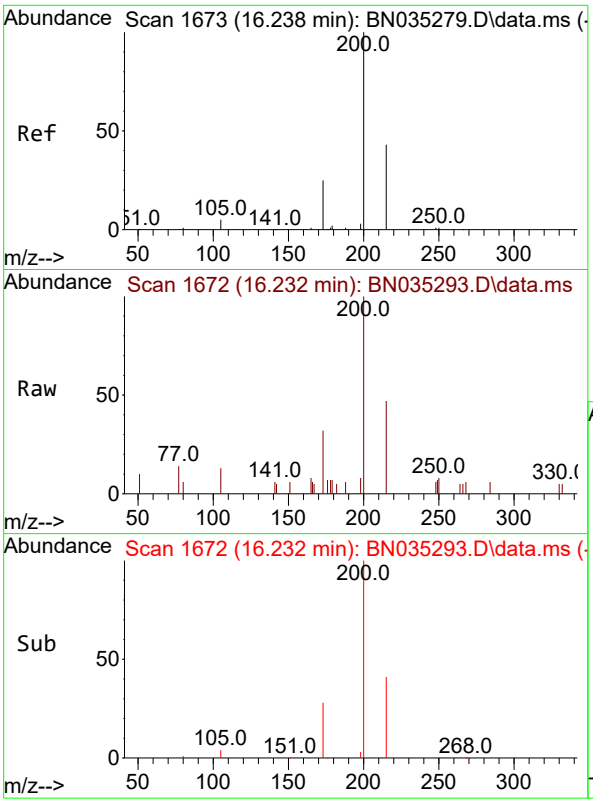


#22
Hexachlorobenzene
Concen: 0.330 ng
RT: 16.046 min Scan# 1657
Delta R.T. -0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:284 Resp: 3763

Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.7	43.1
249	31.5	25.4	38.0



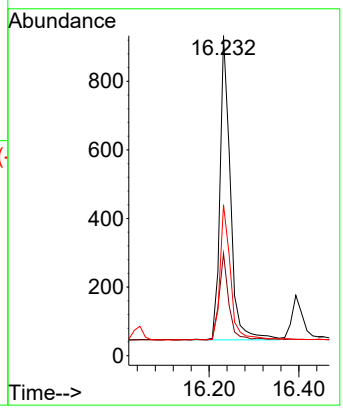


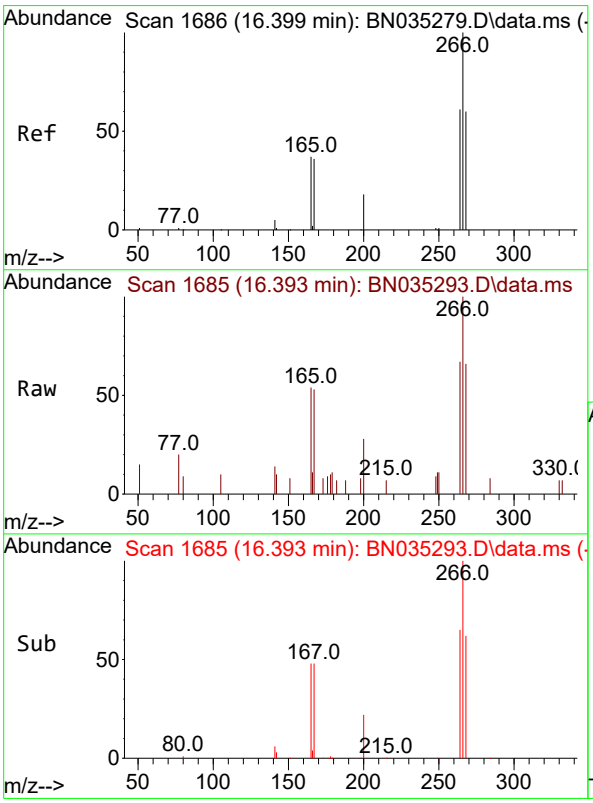
#23
Atrazine
Concen: 0.425 ng
RT: 16.232 min Scan# 1
Delta R.T. -0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1428

Ion	Ratio	Lower	Upper
200	100		
173	31.9	25.8	38.8
215	47.2	38.6	58.0

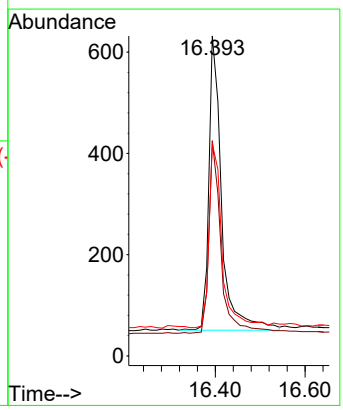


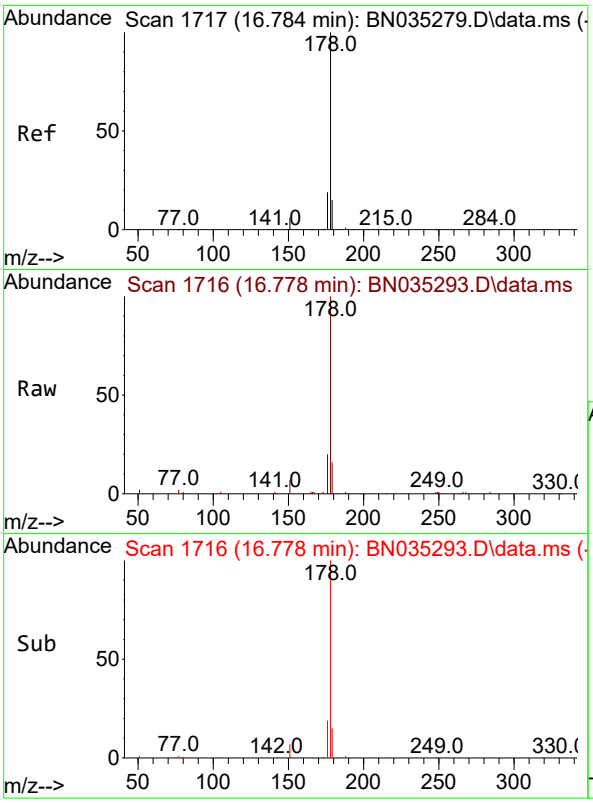


#24
Pentachlorophenol
Concen: 0.417 ng
RT: 16.393 min Scan# 1685
Delta R.T. -0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:266 Resp: 1142

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.3	73.9
268	63.6	48.6	73.0



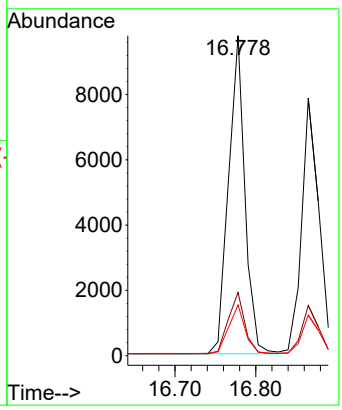


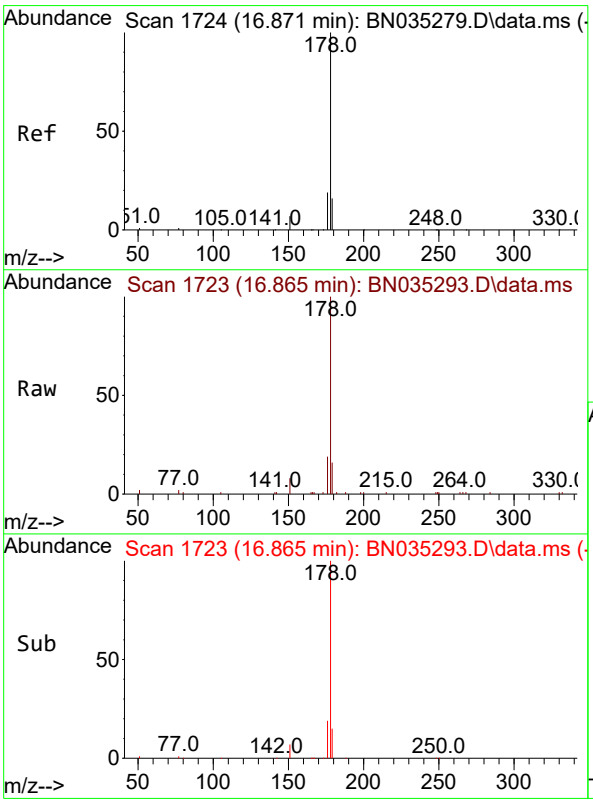
#25
Phenanthrene
Concen: 0.356 ng
RT: 16.778 min Scan# 1
Delta R.T. -0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 13726

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.5	12.6	18.8

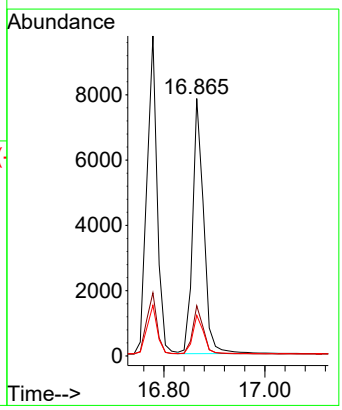


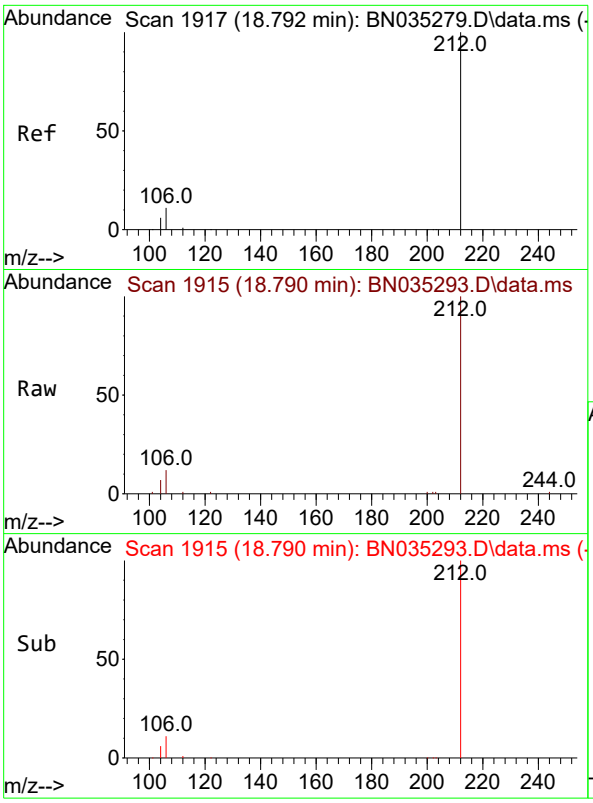


#26
Anthracene
Concen: 0.359 ng
RT: 16.865 min Scan# 1723
Delta R.T. -0.006 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:178 Resp: 11907

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.1	12.4	18.6



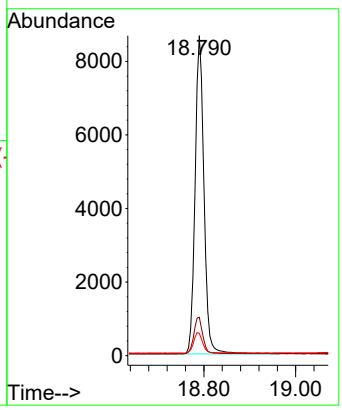


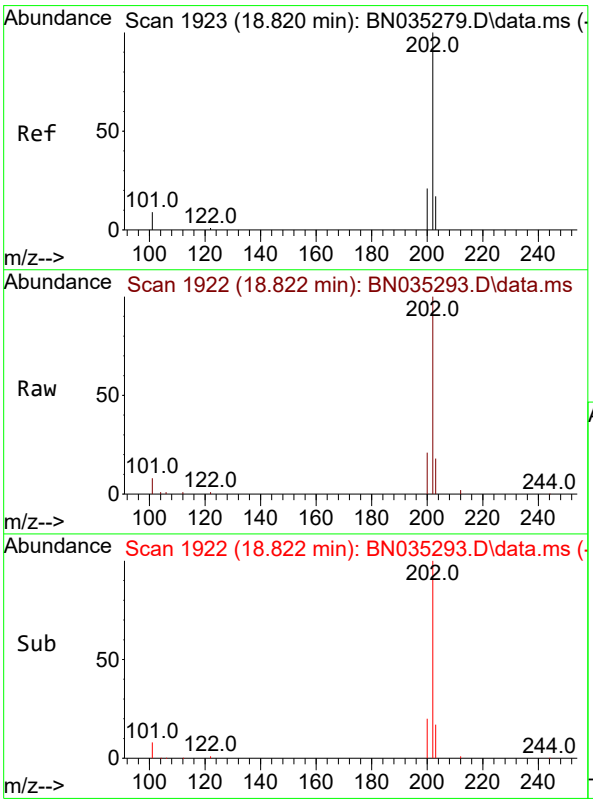
#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 18.790 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 11601

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.8	14.8
104	6.6	5.6	8.4

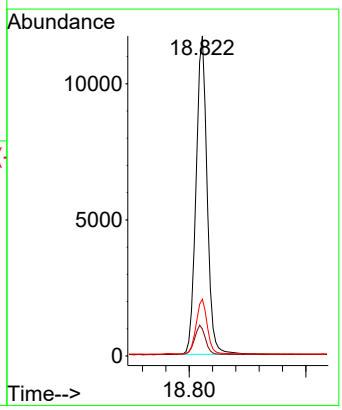


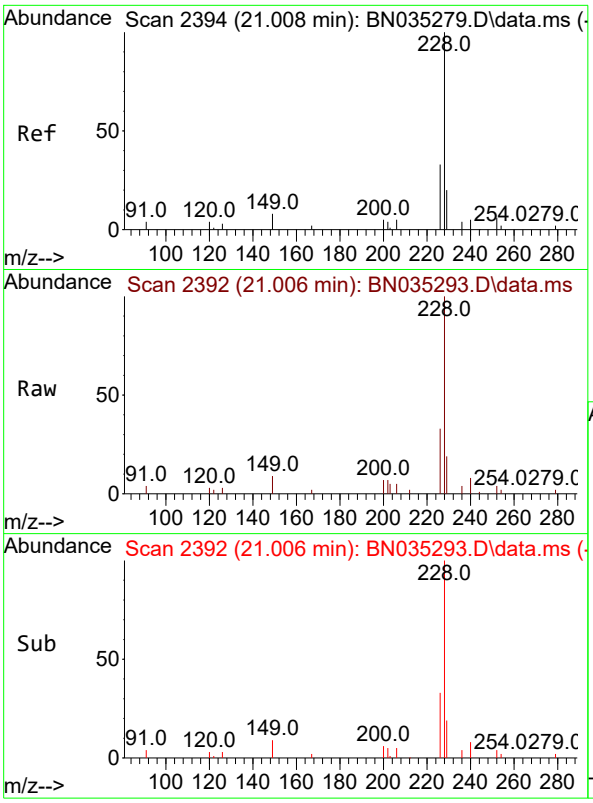


#28
Fluoranthene
Concen: 0.317 ng
RT: 18.822 min Scan# 1922
Delta R.T. 0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:202 Resp: 15419

Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.6	11.4
203	17.1	13.8	20.8



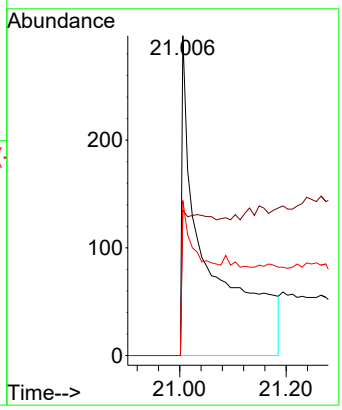


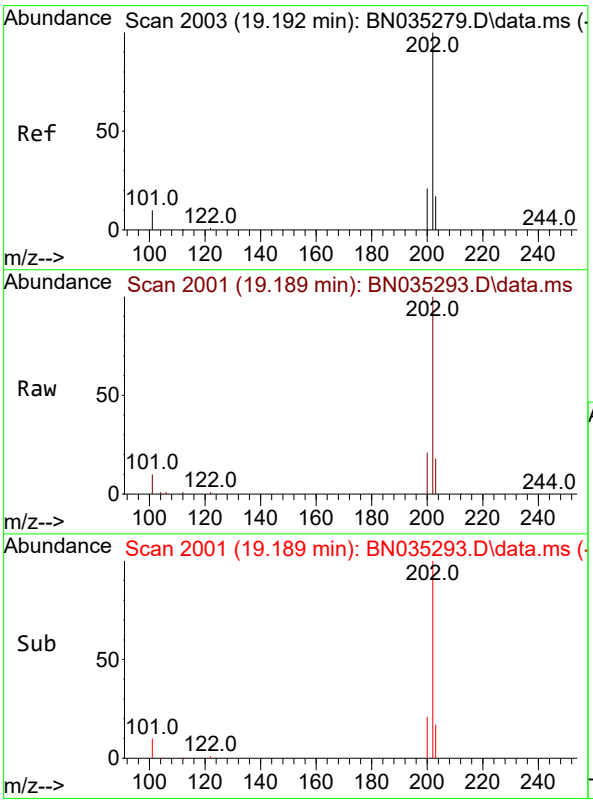
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.006 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 932

Ion	Ratio	Lower	Upper
240	100		
120	45.5	54.9	82.3#
236	48.5	54.0	81.0#

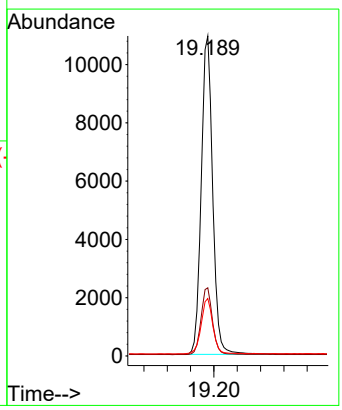


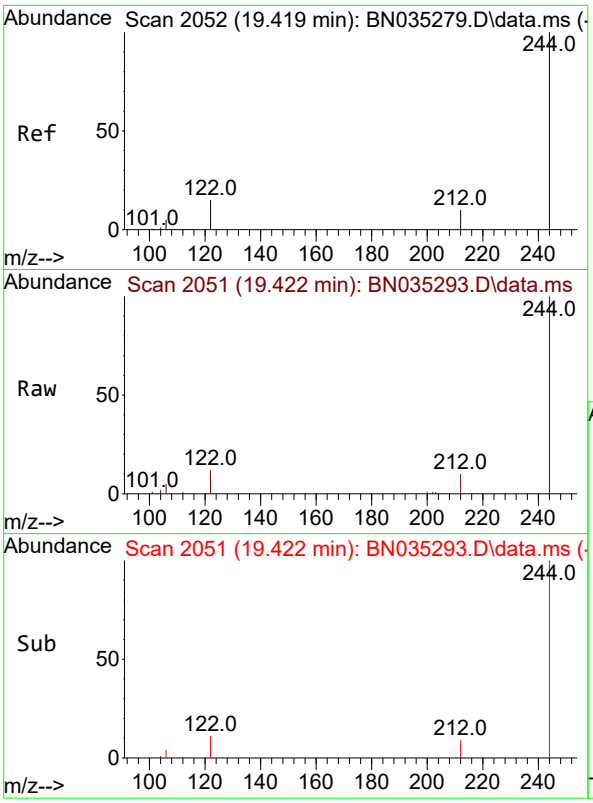


#30
Pyrene
Concen: 0.441 ng
RT: 19.189 min Scan# 2001
Delta R.T. -0.003 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:202 Resp: 14952

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.7	14.4	21.6



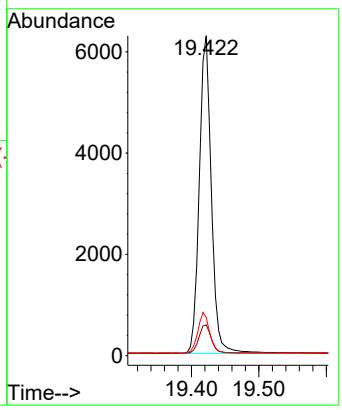


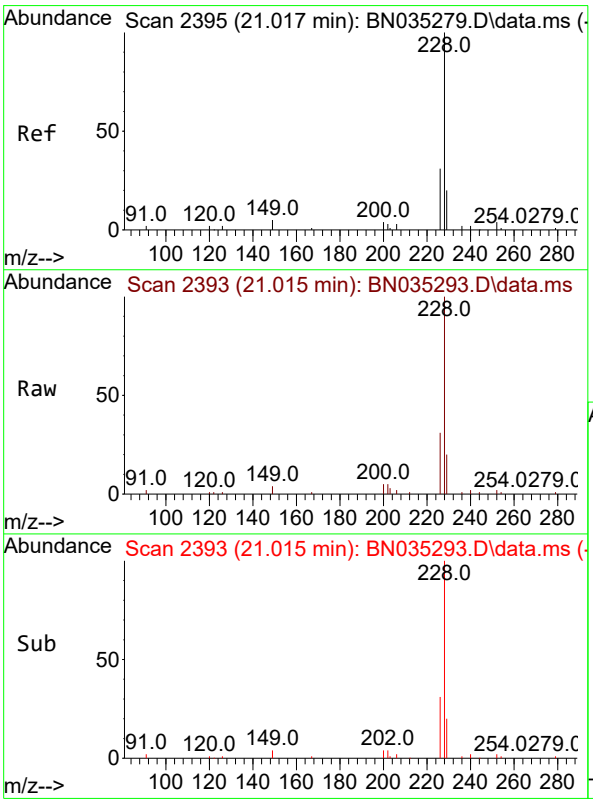
#31
Terphenyl-d14
Concen: 0.453 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 7795

Ion	Ratio	Lower	Upper
244	100		
212	9.6	9.4	14.0
122	12.0	13.0	19.4#

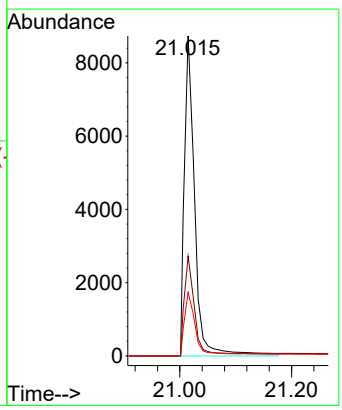


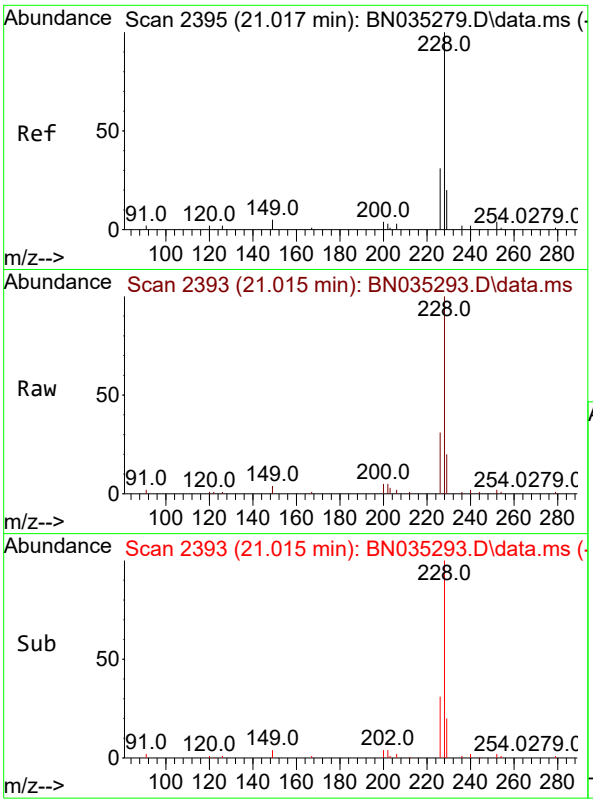


#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 21.015 min Scan# 2393
Delta R.T. -0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:228 Resp: 11234

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.7	37.1
229	19.9	16.2	24.2



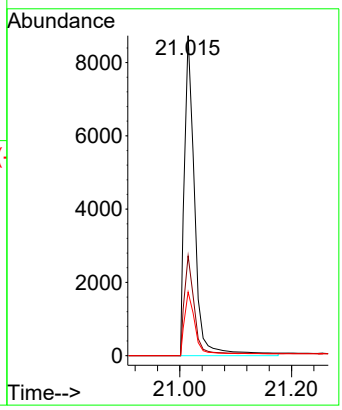


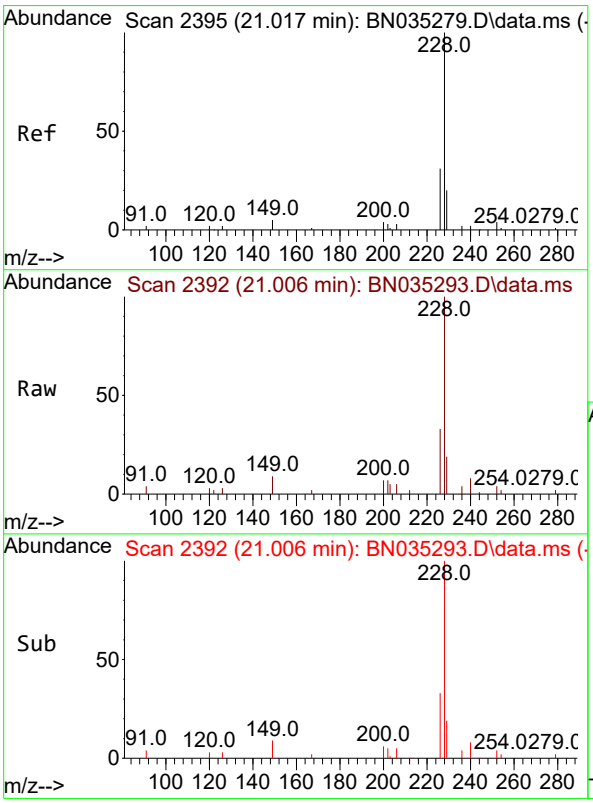
#33
Chrysene
Concen: 0.346 ng
RT: 21.015 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 11234

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.7	37.1
229	19.9	16.2	24.2

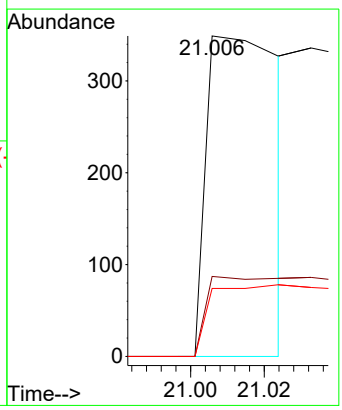


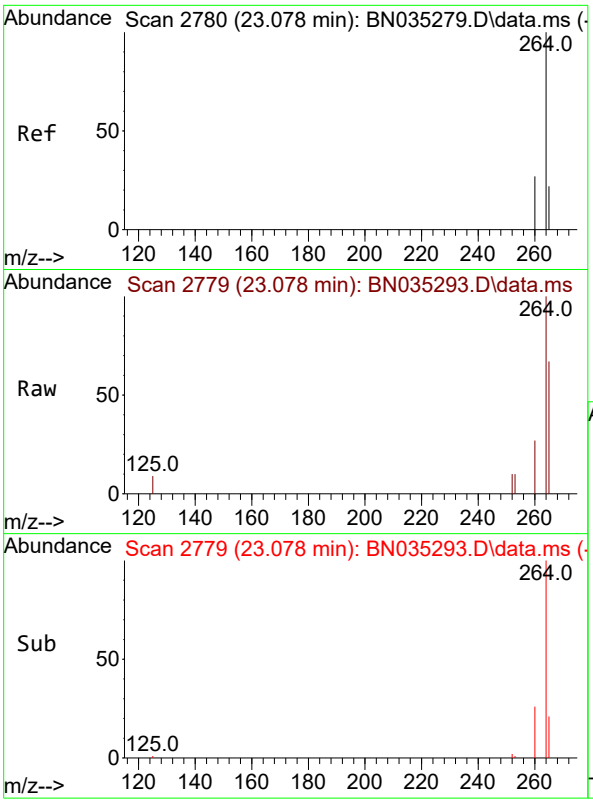


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.233 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.011 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:149 Resp: 416

Ion	Ratio	Lower	Upper
149	100		
167	77.9	0.0	0.0#
279	31.5	13.0	19.6#



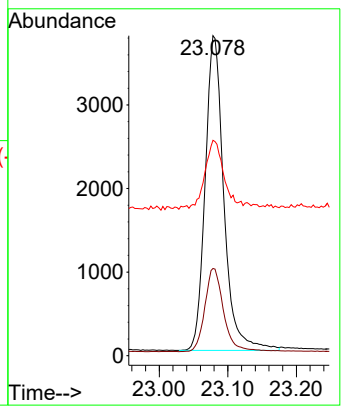


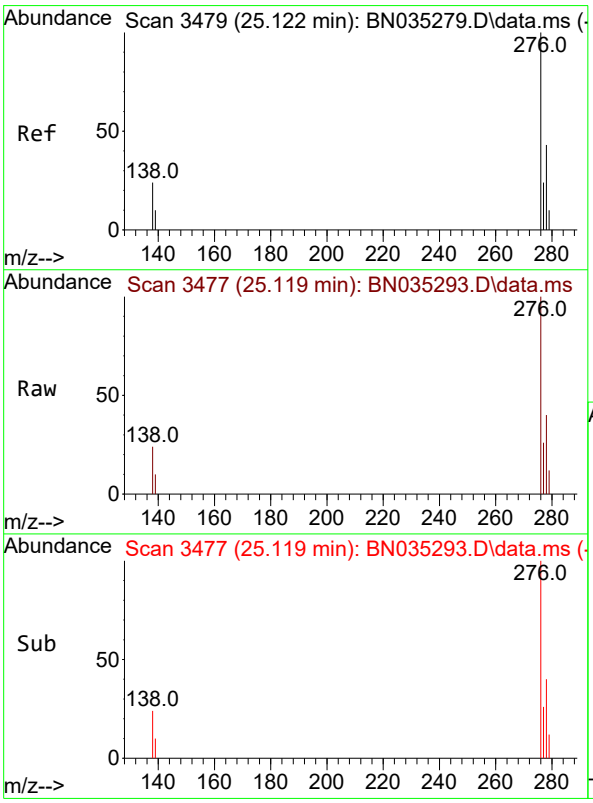
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 7119

Ion	Ratio	Lower	Upper
264	100		
260	27.3	22.3	33.5
265	67.3	68.6	103.0#

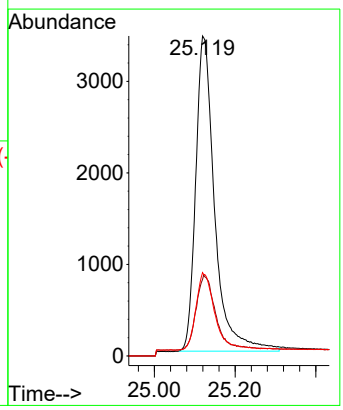


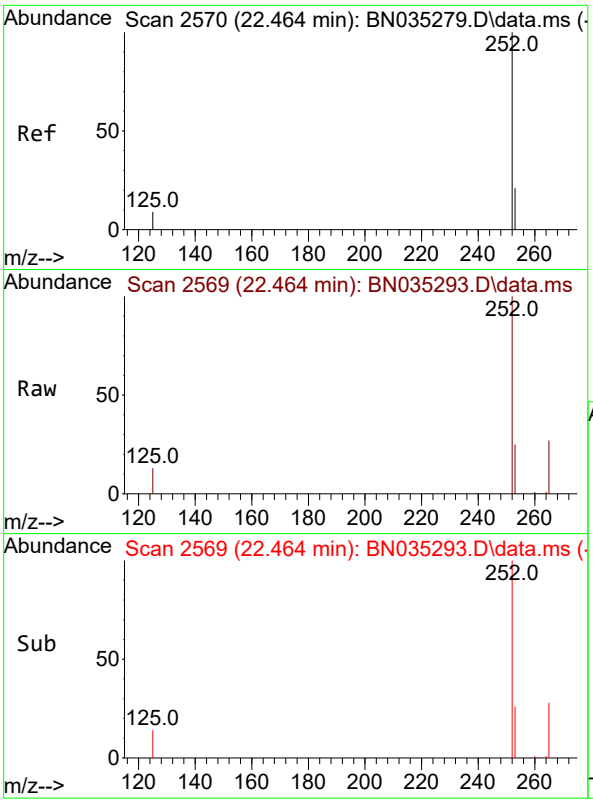


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.385 ng
RT: 25.119 min Scan# 3477
Delta R.T. -0.002 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:276 Resp: 11225

Ion	Ratio	Lower	Upper
276	100		
138	23.2	18.8	28.2
277	23.8	18.2	27.4



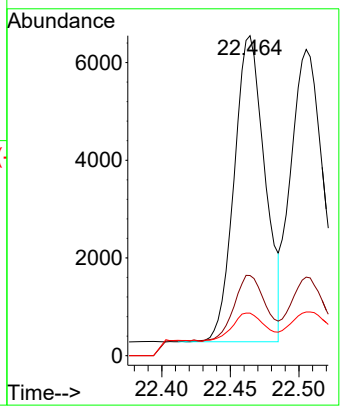


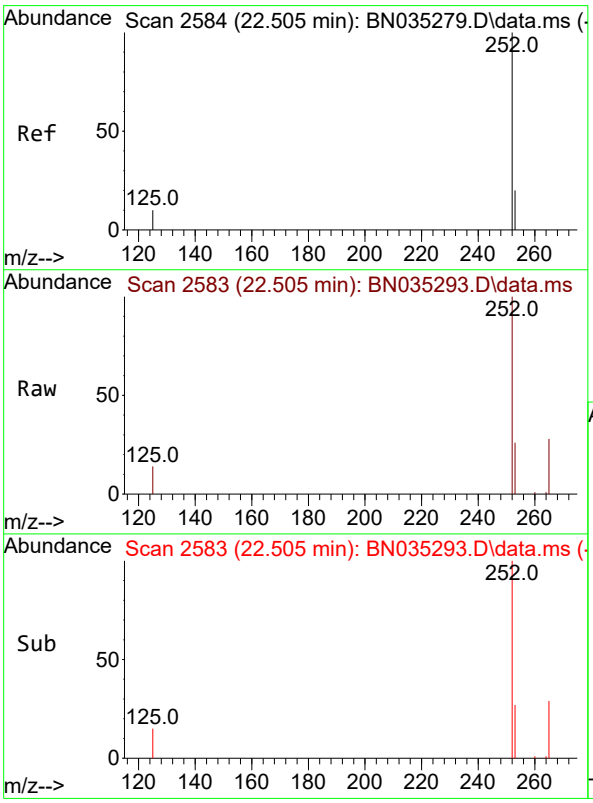
#37
Benzo(b)fluoranthene
Concen: 0.316 ng
RT: 22.464 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 9762

Ion	Ratio	Lower	Upper
252	100		
253	25.0	20.2	30.2
125	13.3	12.0	18.0

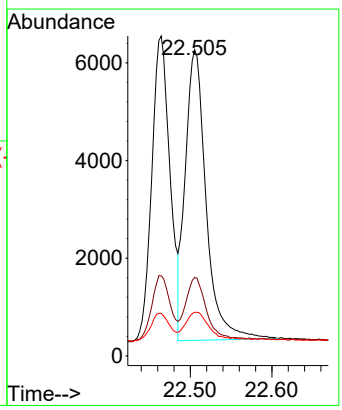


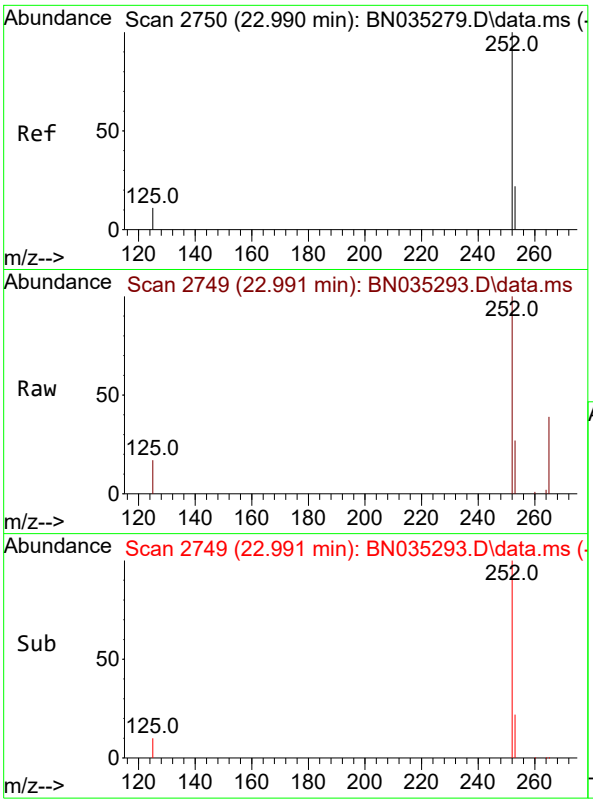


#38
Benzo(k)fluoranthene
Concen: 0.323 ng
RT: 22.505 min Scan# 2583
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:252 Resp: 10556

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.1	30.1
125	14.3	12.7	19.1



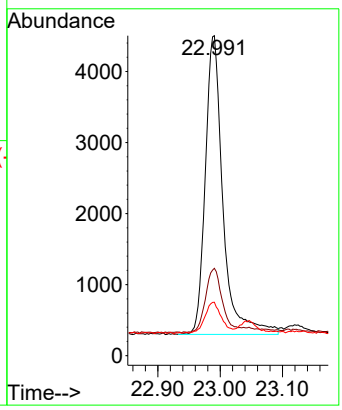


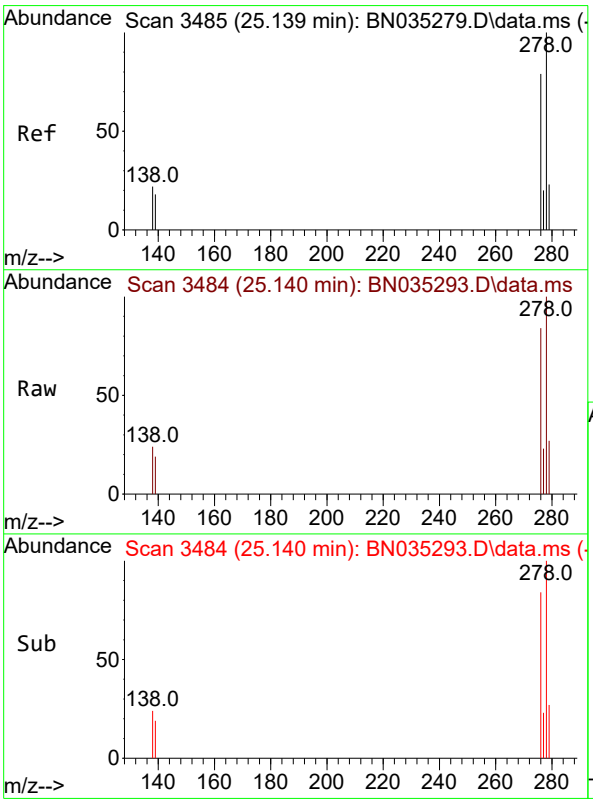
#39
Benzo(a)pyrene
Concen: 0.349 ng
RT: 22.991 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 8259

Ion	Ratio	Lower	Upper
252	100		
253	27.3	22.3	33.5
125	16.7	15.3	22.9

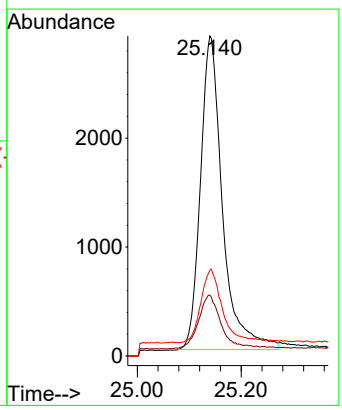


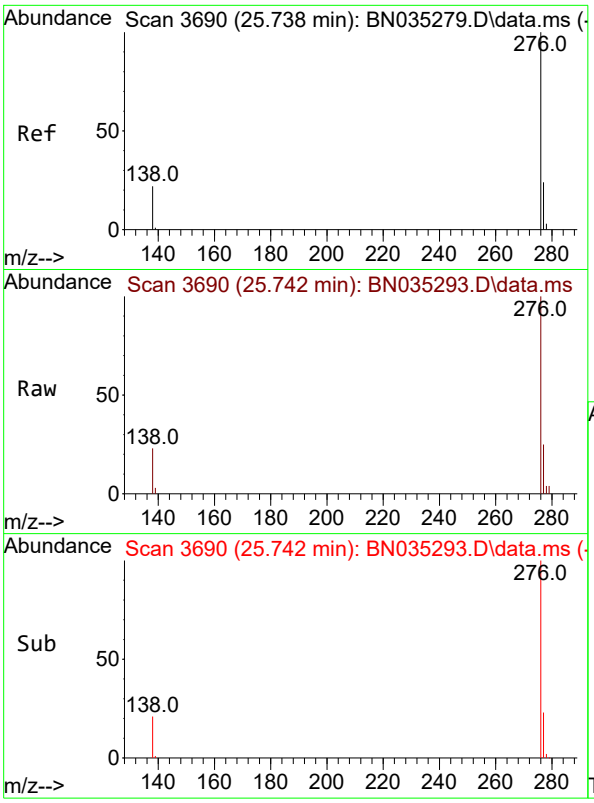


#40
Dibenzo(a,h)anthracene
Concen: 0.385 ng
RT: 25.140 min Scan# 3484
Delta R.T. 0.000 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Tgt Ion:278 Resp: 8482

Ion	Ratio	Lower	Upper
278	100		
139	19.0	17.0	25.6
279	26.8	23.0	34.4



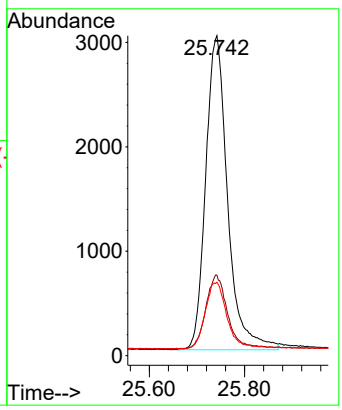


#41
Benzo(g,h,i)perylene
Concen: 0.377 ng
RT: 25.742 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035293.D
Acq: 25 Nov 2024 23:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 9609

Ion	Ratio	Lower	Upper
276	100		
277	25.2	21.1	31.7
138	23.0	19.8	29.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035297.D
Acq On : 26 Nov 2024 01:26
Operator : RC/JU
Sample : P4959-01
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Quant Time: Nov 26 02:54:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

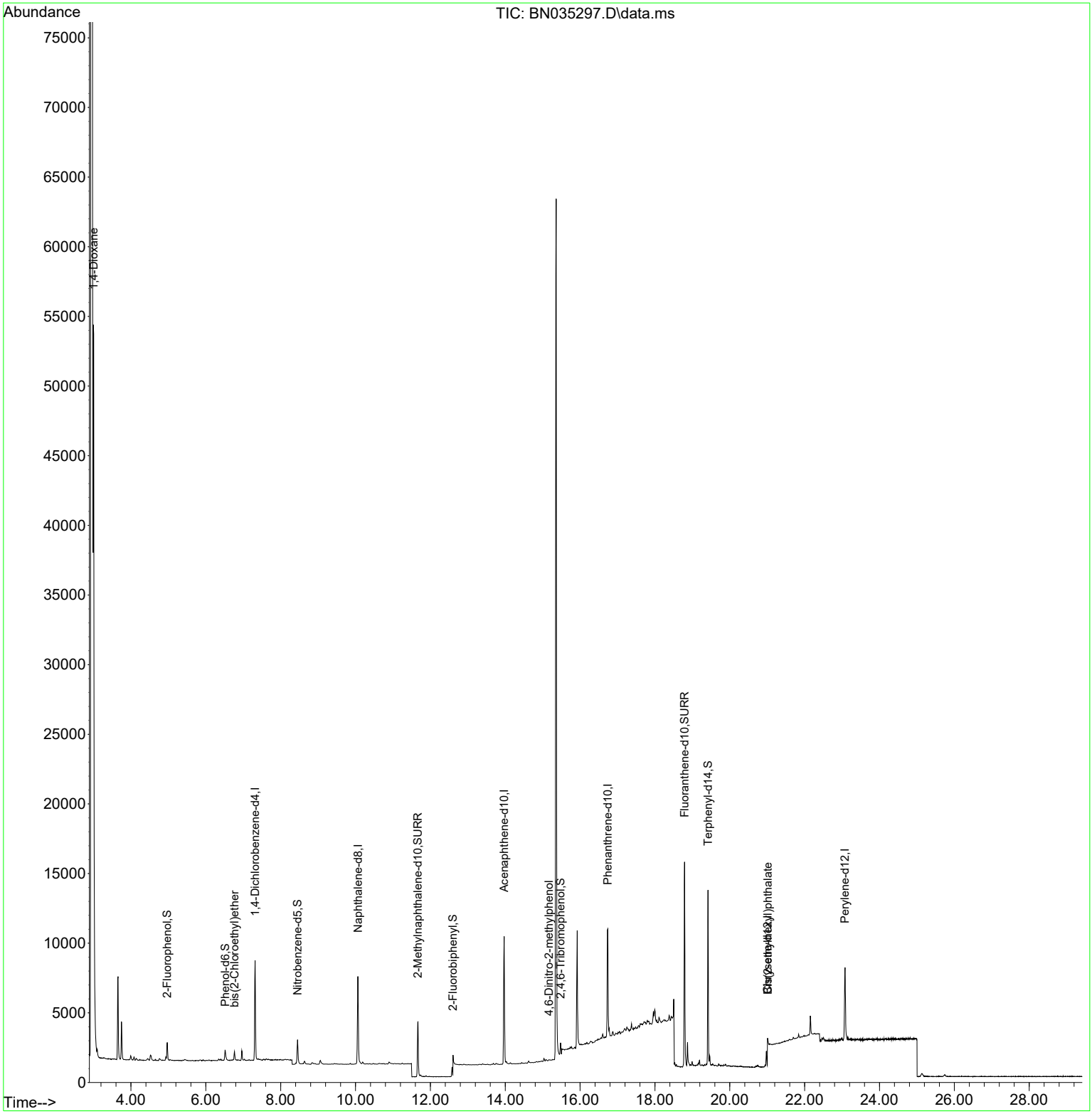
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3474	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8594	0.400	ng	# 0.00
13) Acenaphthene-d10	13.973	164	5314	0.400	ng	# 0.00
19) Phenanthrene-d10	16.741	188	12516	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	912	0.400	ng	# 0.00
35) Perylene-d12	23.078	264	6981	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1086	0.165	ng	0.00
5) Phenol-d6	6.521	99	751	0.082	ng	0.00
8) Nitrobenzene-d5	8.451	82	1834	0.263	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	5726	0.476	ng	0.00
14) 2,4,6-Tribromophenol	15.480	330	885	0.326	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	1025	0.349	ng	0.00
27) Fluoranthene-d10	18.790	212	16757	0.500	ng	0.00
31) Terphenyl-d14	19.417	244	12231	0.726	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	28516	11.419	ng	# 70
6) bis(2-Chloroethyl)ether	6.766	93	518	0.067	ng	96
20) 4,6-Dinitro-2-methylph...	15.170	198	6	0.193	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.015	149	531	0.304	ng	# 62

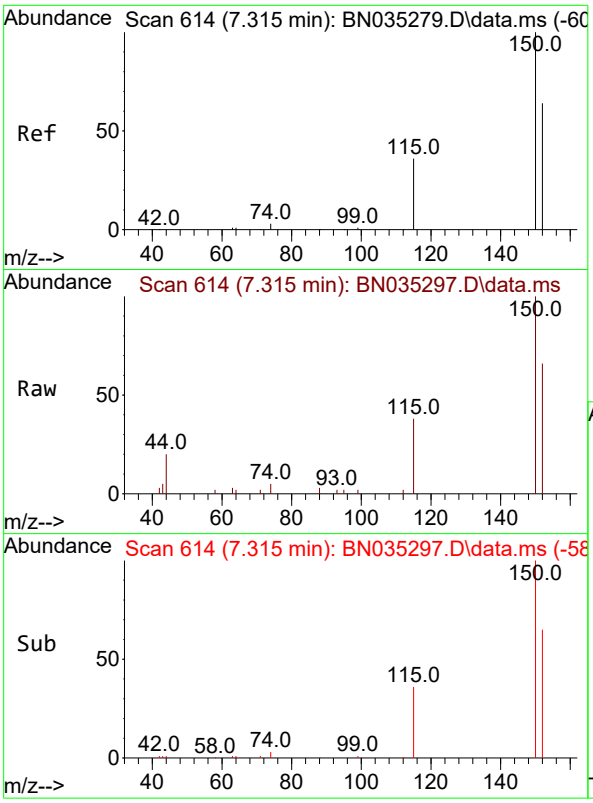
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035297.D
Acq On : 26 Nov 2024 01:26
Operator : RC/JU
Sample : P4959-01
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Quant Time: Nov 26 02:54:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration



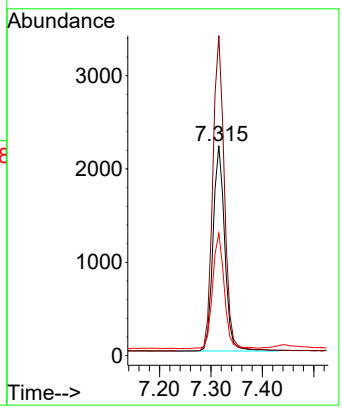


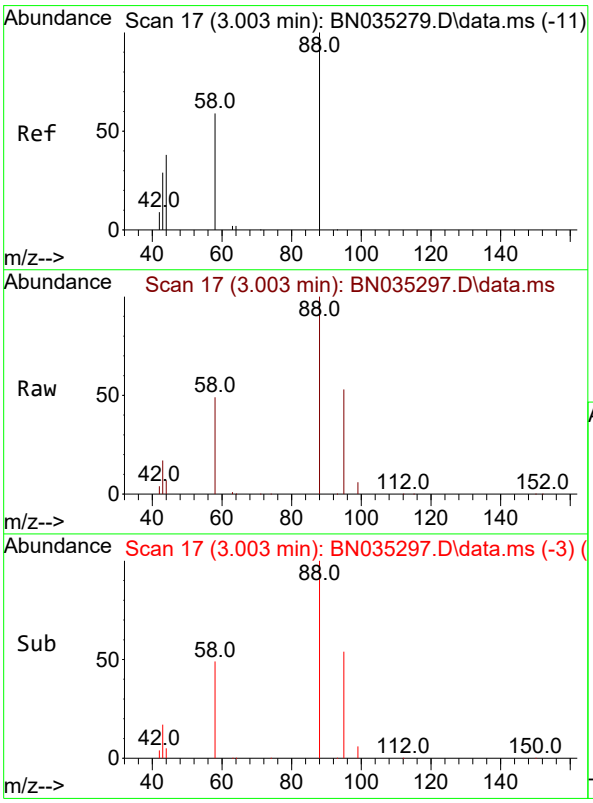
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:152 Resp: 3474

Ion	Ratio	Lower	Upper
152	100		
150	152.5	124.5	186.7
115	58.3	47.8	71.8

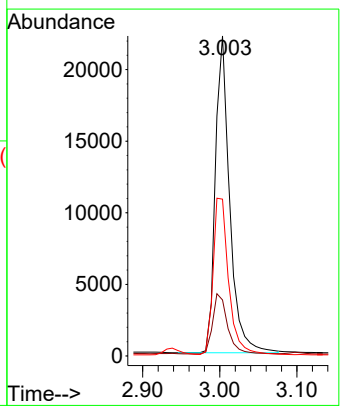


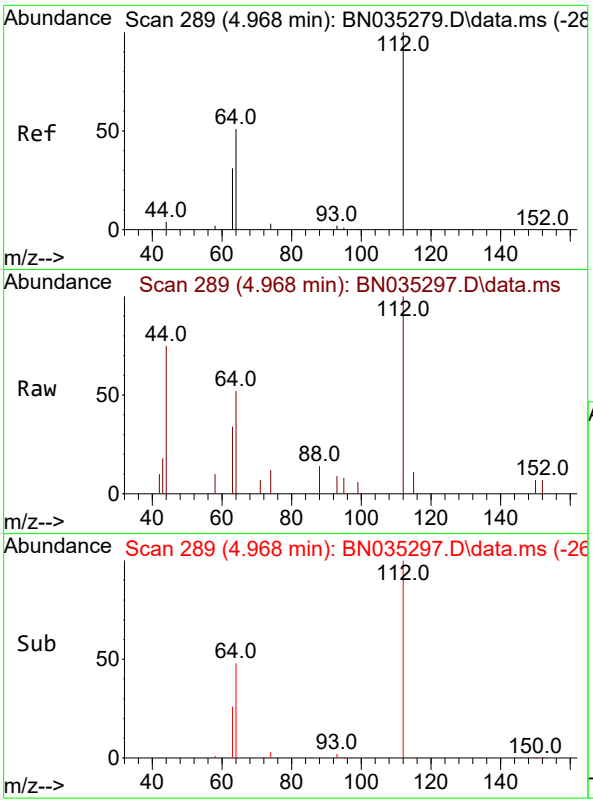


#2
1,4-Dioxane
Concen: 11.419 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion: 88 Resp: 28516

Ion	Ratio	Lower	Upper
88	100		
43	19.7	48.1	72.1#
58	53.5	46.9	70.3



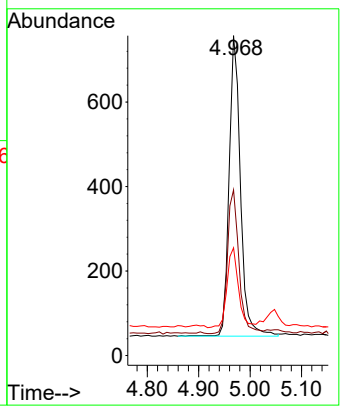


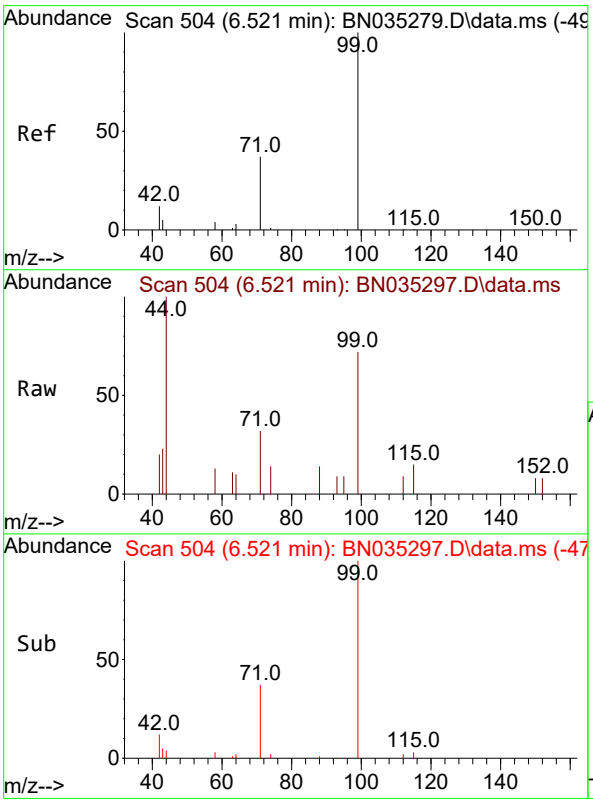
#4
2-Fluorophenol
Concen: 0.165 ng
RT: 4.968 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:112 Resp: 1086

Ion	Ratio	Lower	Upper
112	100		
64	48.4	40.4	60.6
63	27.0	23.8	35.8

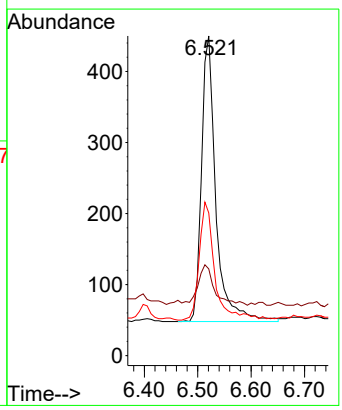


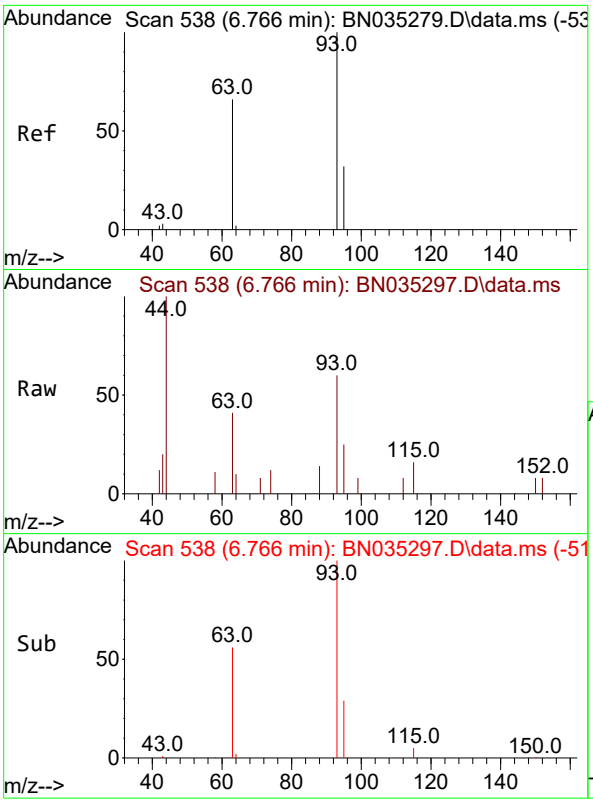


#5
Phenol-d6
Concen: 0.082 ng
RT: 6.521 min Scan# 504
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion: 99 Resp: 751

Ion	Ratio	Lower	Upper
99	100		
42	16.2	12.8	19.2
71	45.0	31.4	47.2



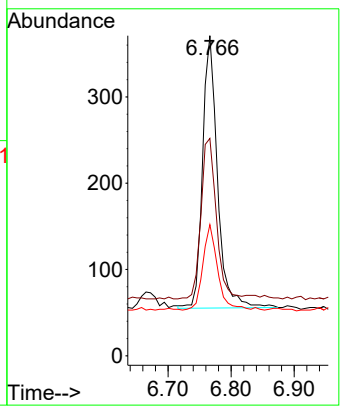


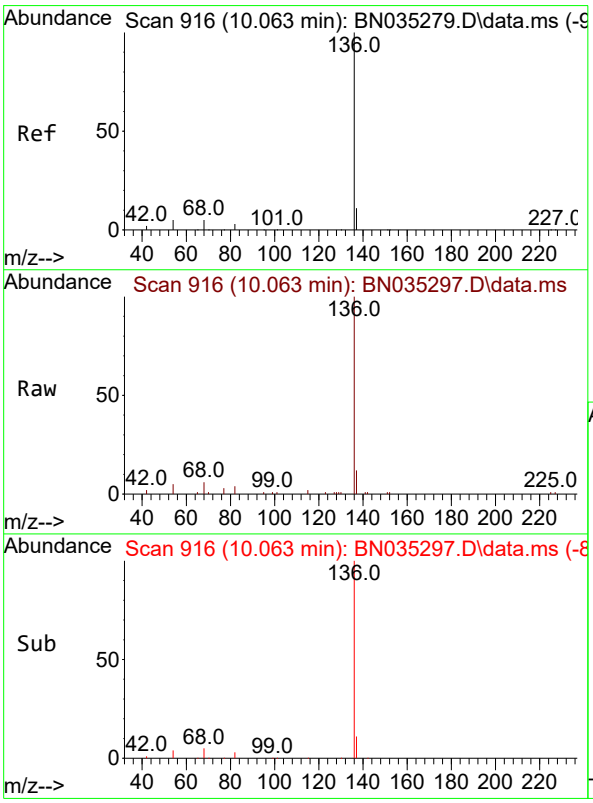
#6
bis(2-Chloroethyl)ether
Concen: 0.067 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion: 93 Resp: 518

Ion	Ratio	Lower	Upper
93	100		
63	60.4	52.3	78.5
95	31.5	25.5	38.3

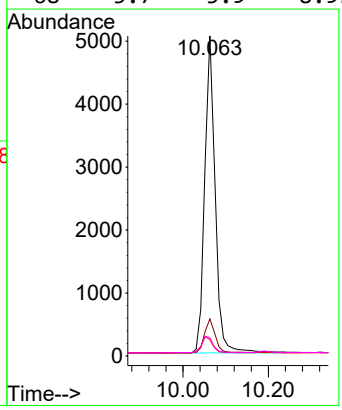


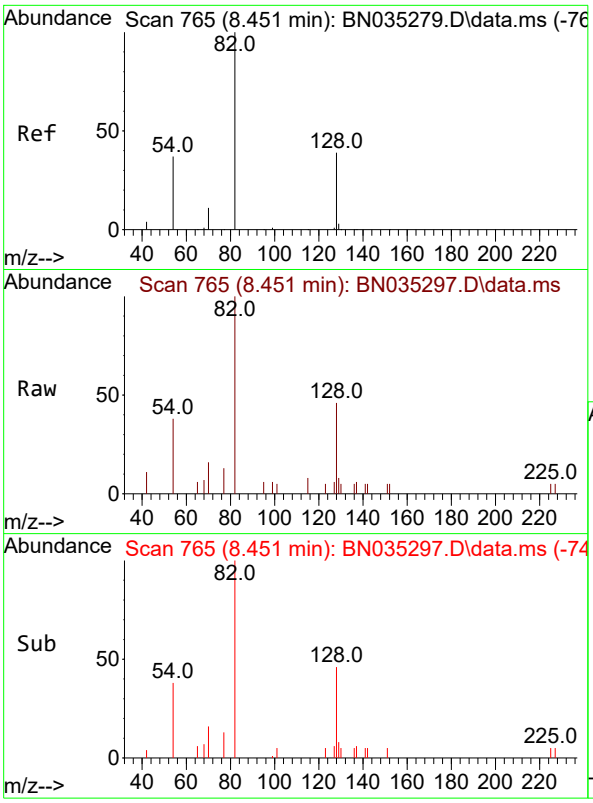


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:136 Resp: 8594

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.7	14.5
54	5.1	5.3	7.9#
68	5.7	5.9	8.9#



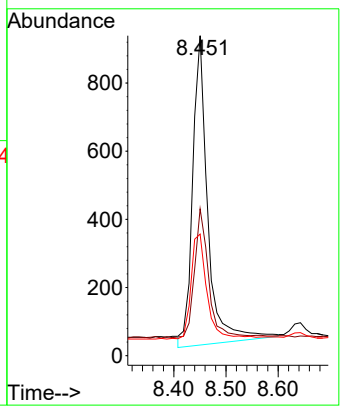


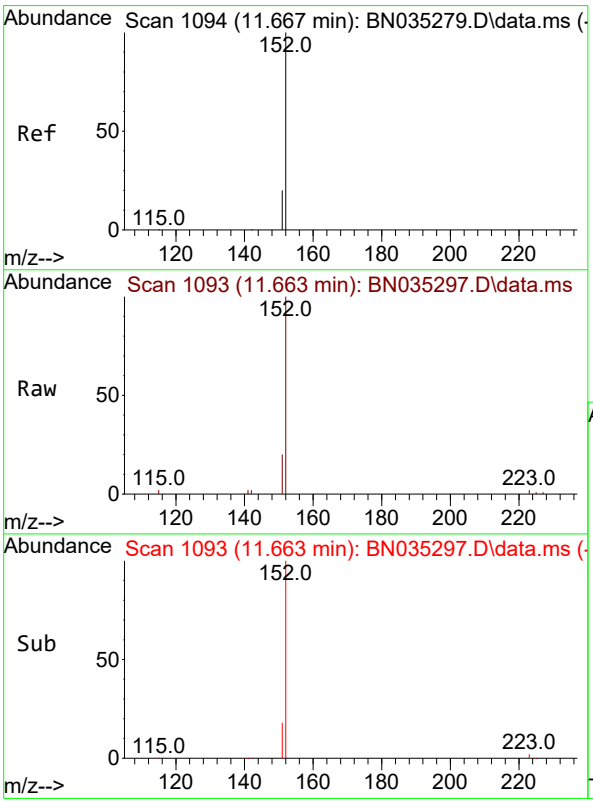
#8
Nitrobenzene-d5
Concen: 0.263 ng
RT: 8.451 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion: 82 Resp: 1834

Ion	Ratio	Lower	Upper
82	100		
128	45.9	33.0	49.4
54	38.0	33.3	49.9

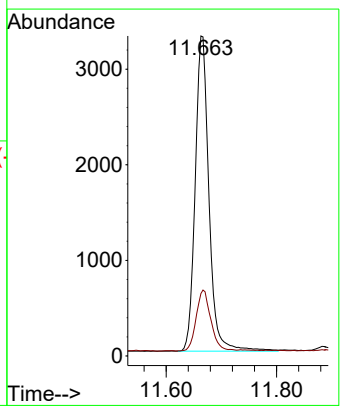


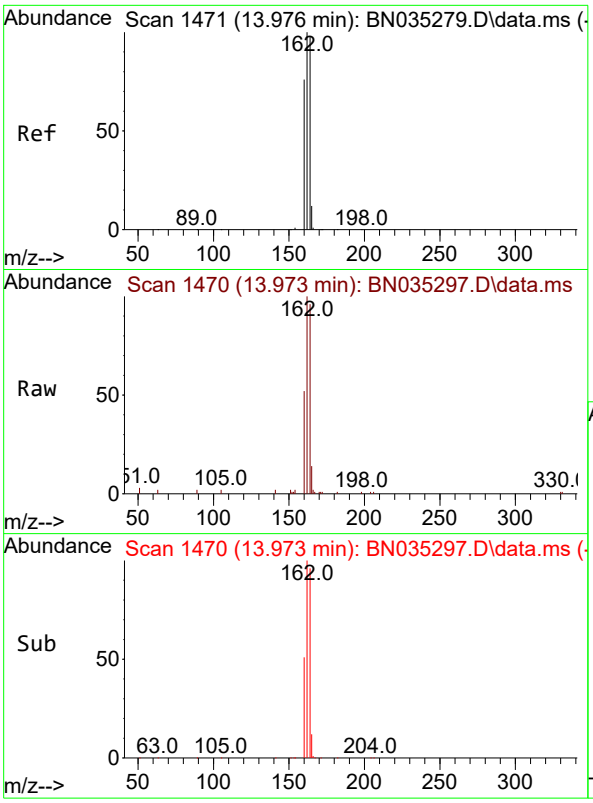


#11
2-Methylnaphthalene-d10
Concen: 0.476 ng
RT: 11.663 min Scan# 1093
Delta R.T. -0.004 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:152 Resp: 5726

Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.2	25.8



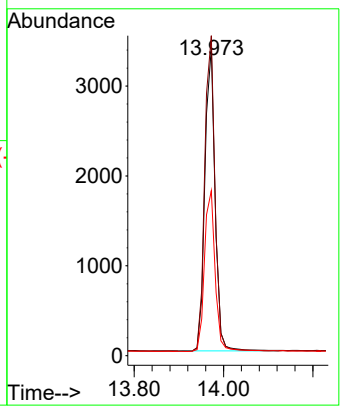


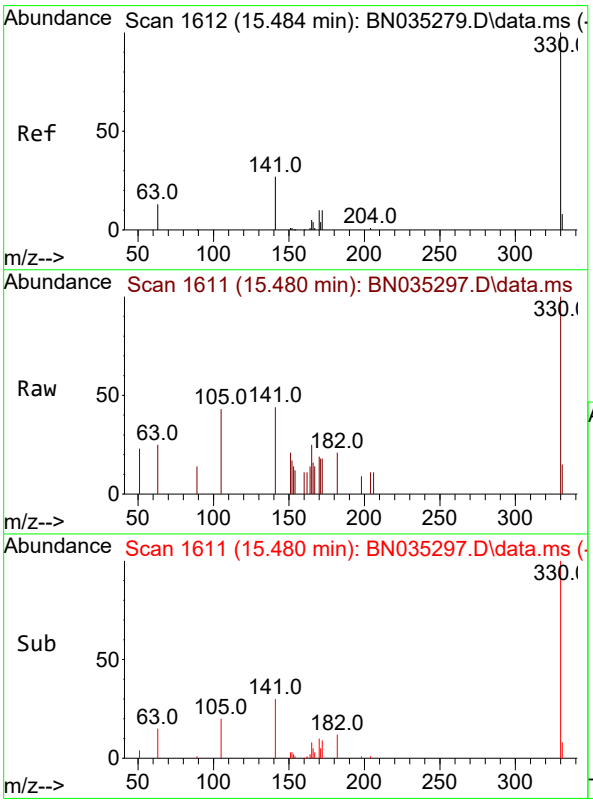
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.973 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:164 Resp: 5314

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.0	123.0
160	53.6	63.0	94.4#

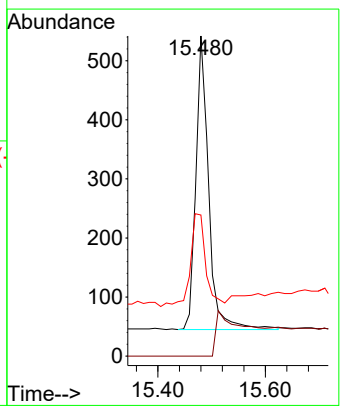


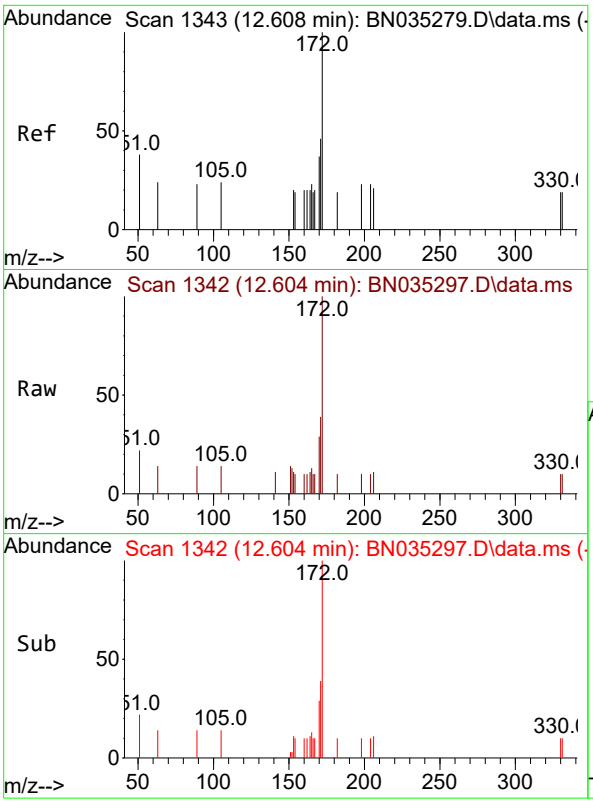


#14
2,4,6-Tribromophenol
Concen: 0.326 ng
RT: 15.480 min Scan# 1611
Delta R.T. -0.004 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:330 Resp: 885

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.4	32.4	48.6



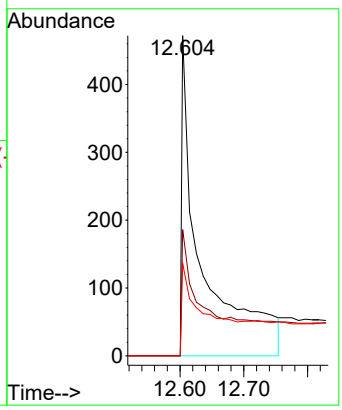


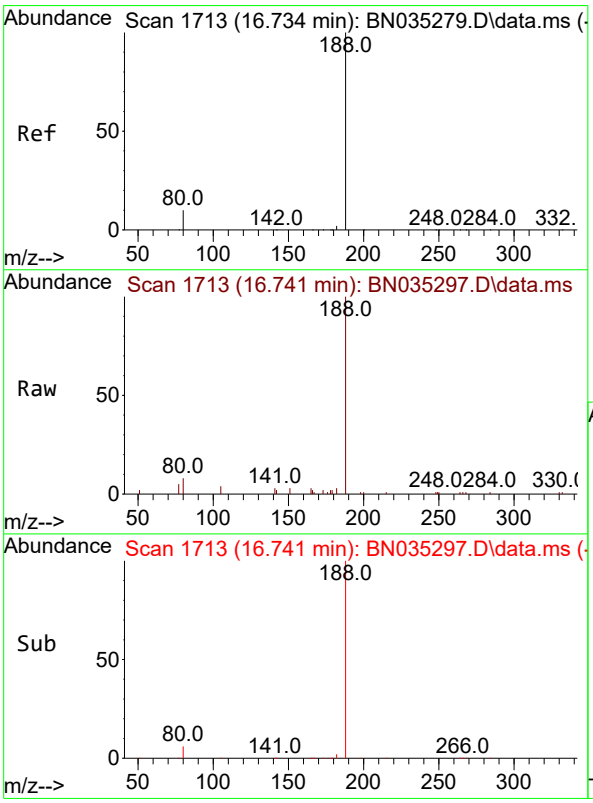
#15
2-Fluorobiphenyl
Concen: 0.349 ng
RT: 12.604 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:172 Resp: 1025

Ion	Ratio	Lower	Upper
172	100		
171	39.4	36.6	55.0
170	28.8	29.7	44.5#

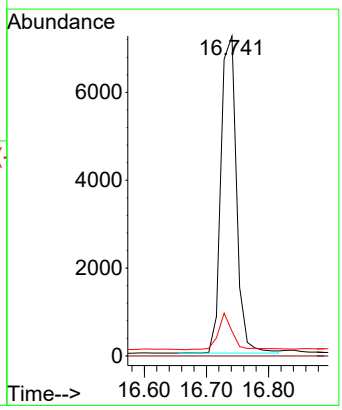


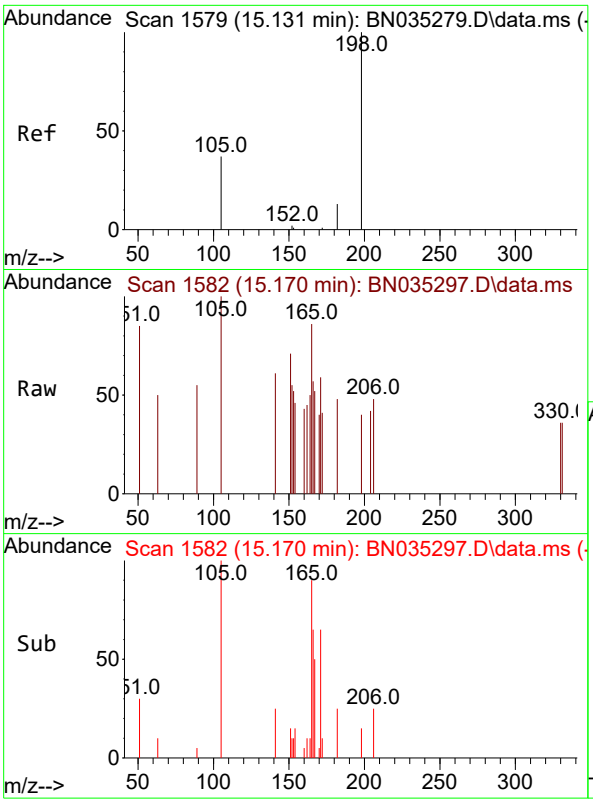


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.741 min Scan# 1713
Delta R.T. 0.007 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:188 Resp: 12516

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.8	8.9	13.3#



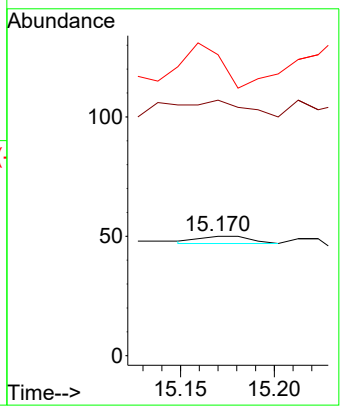


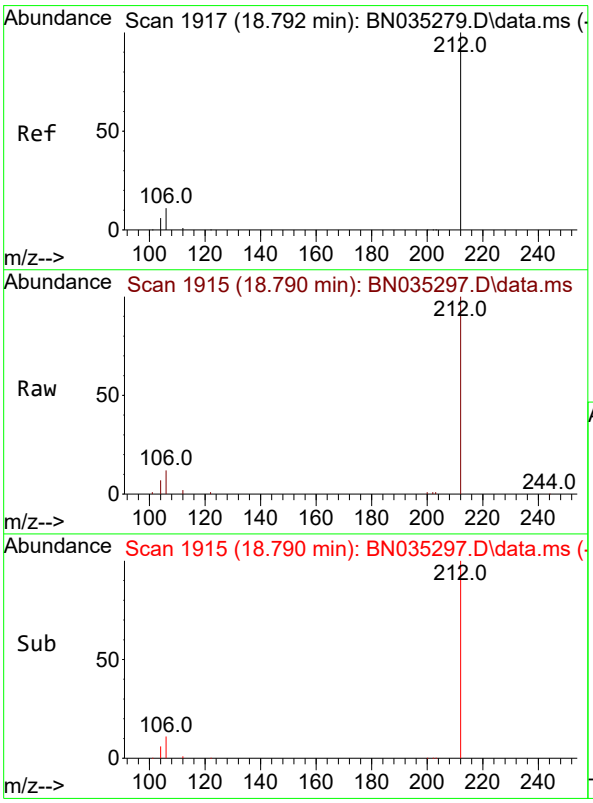
#20
4,6-Dinitro-2-methylphenol
Concen: 0.193 ng
RT: 15.170 min Scan# 1
Delta R.T. 0.039 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:198 Resp: 6

Ion	Ratio	Lower	Upper
198	100		
51	214.0	53.6	80.4#
105	252.0	47.4	71.2#

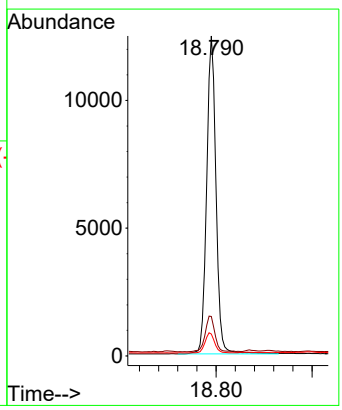


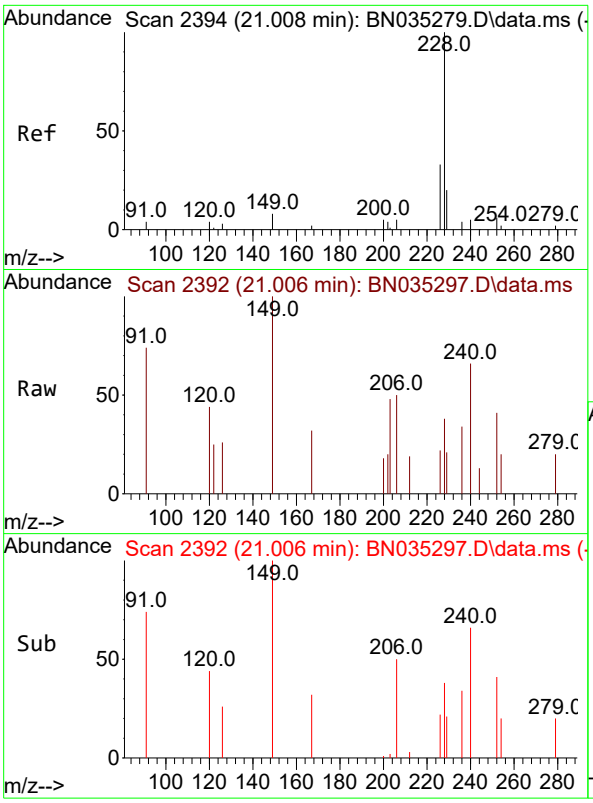


#27
Fluoranthene-d10
Concen: 0.500 ng
RT: 18.790 min Scan# 1915
Delta R.T. -0.002 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:212 Resp: 16757

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.8	14.8
104	6.4	5.6	8.4



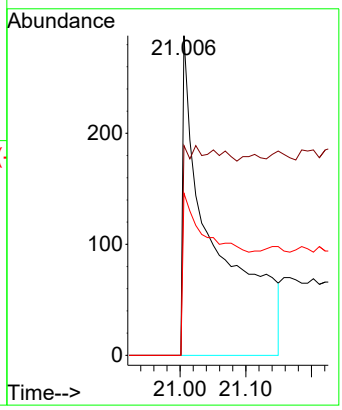


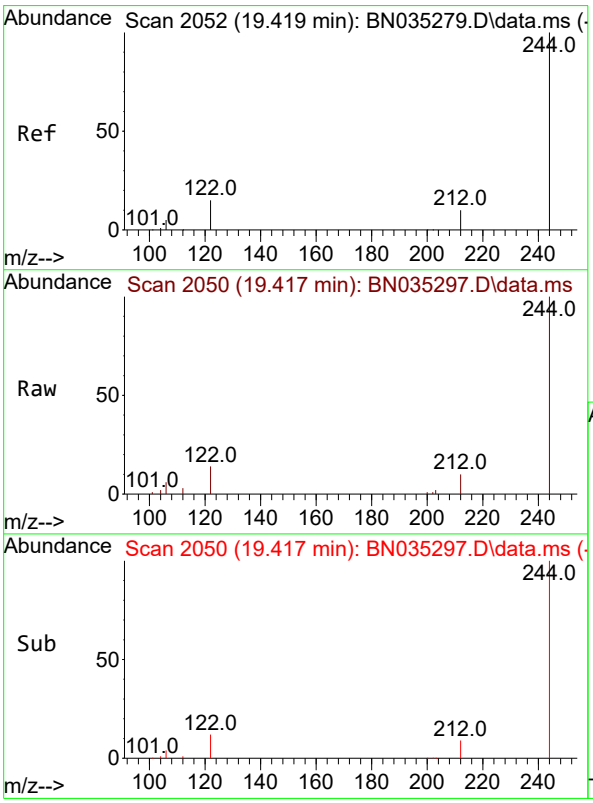
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.006 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:240 Resp: 912

Ion	Ratio	Lower	Upper
240	100		
120	65.6	54.9	82.3
236	50.7	54.0	81.0#

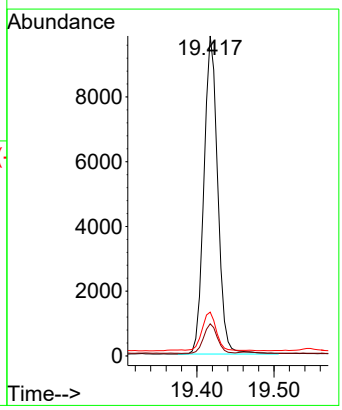


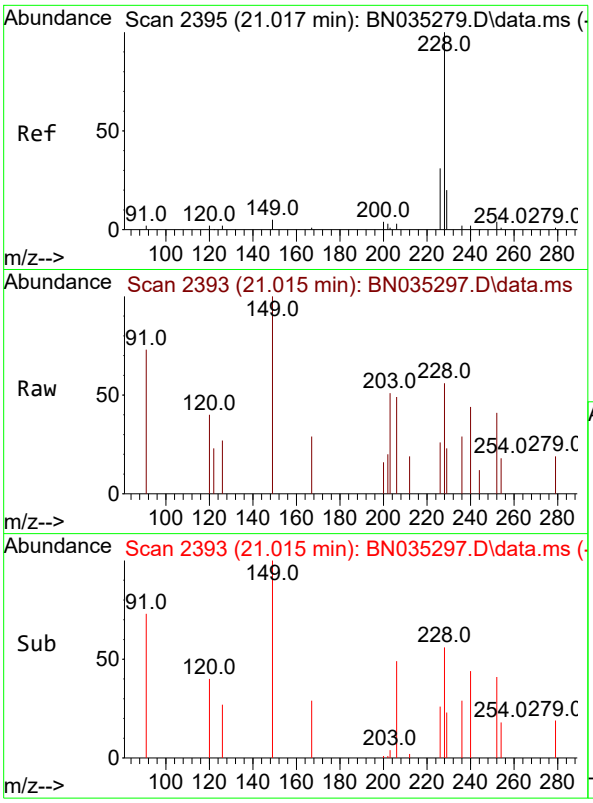


#31
Terphenyl-d14
Concen: 0.726 ng
RT: 19.417 min Scan# 2050
Delta R.T. -0.002 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:244 Resp: 12231

Ion	Ratio	Lower	Upper
244	100		
212	10.0	9.4	14.0
122	13.7	13.0	19.4



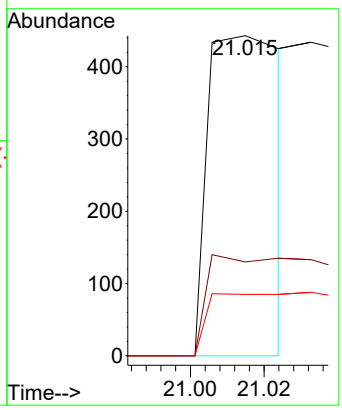


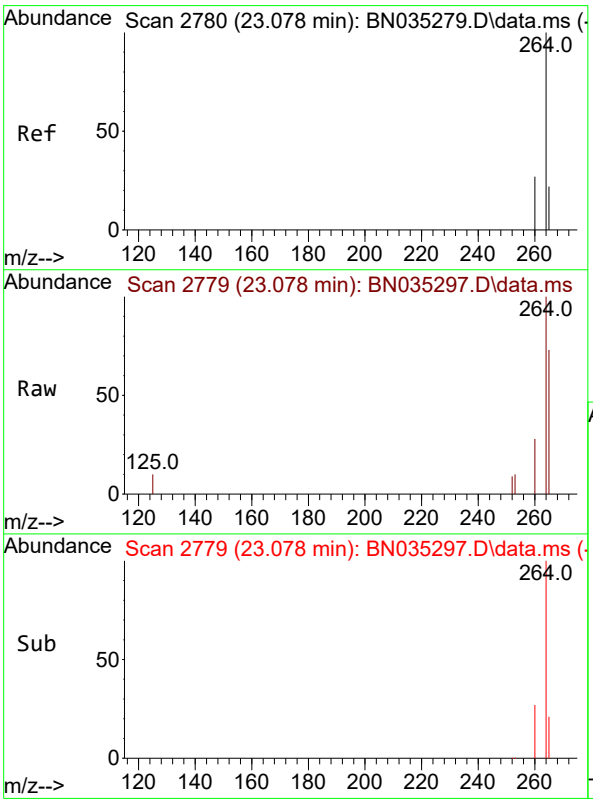
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.304 ng
RT: 21.015 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:149 Resp: 531

Ion	Ratio	Lower	Upper
149	100		
167	56.5	0.0	0.0#
279	0.0	13.0	19.6#

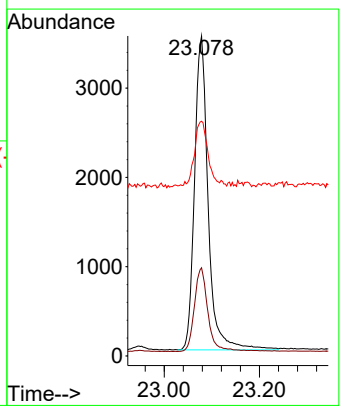




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 2779
Delta R.T. 0.001 min
Lab File: BN035297.D
Acq: 26 Nov 2024 01:26

Tgt Ion:264 Resp: 6981

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.3	33.5
265	73.4	68.6	103.0



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035298.D
Acq On : 26 Nov 2024 02:02
Operator : RC/JU
Sample : P4959-02
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Quant Time: Nov 26 03:32:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3353	0.400	ng	0.00
7) Naphthalene-d8	10.062	136	8974	0.400	ng	0.00
13) Acenaphthene-d10	13.965	164	7827	0.400	ng	#-0.01
19) Phenanthrene-d10	16.734	188	12956	0.400	ng	0.00
29) Chrysene-d12	21.008	240	823	0.400	ng	# 0.00
35) Perylene-d12	23.075	264	7685	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1124	0.177	ng	0.00
5) Phenol-d6	6.520	99	772	0.087	ng	0.00
8) Nitrobenzene-d5	8.450	82	1804	0.248	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	6842	0.545	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	1237	0.310	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	373	0.086	ng	0.00
27) Fluoranthene-d10	18.787	212	18292	0.528	ng	0.00
31) Terphenyl-d14	19.419	244	13926	0.916	ng	0.00
Target Compounds						Qvalue
20) 4,6-Dinitro-2-methylph...	15.120	198	3	0.192	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.071	149	2245	1.426	ng	# 62

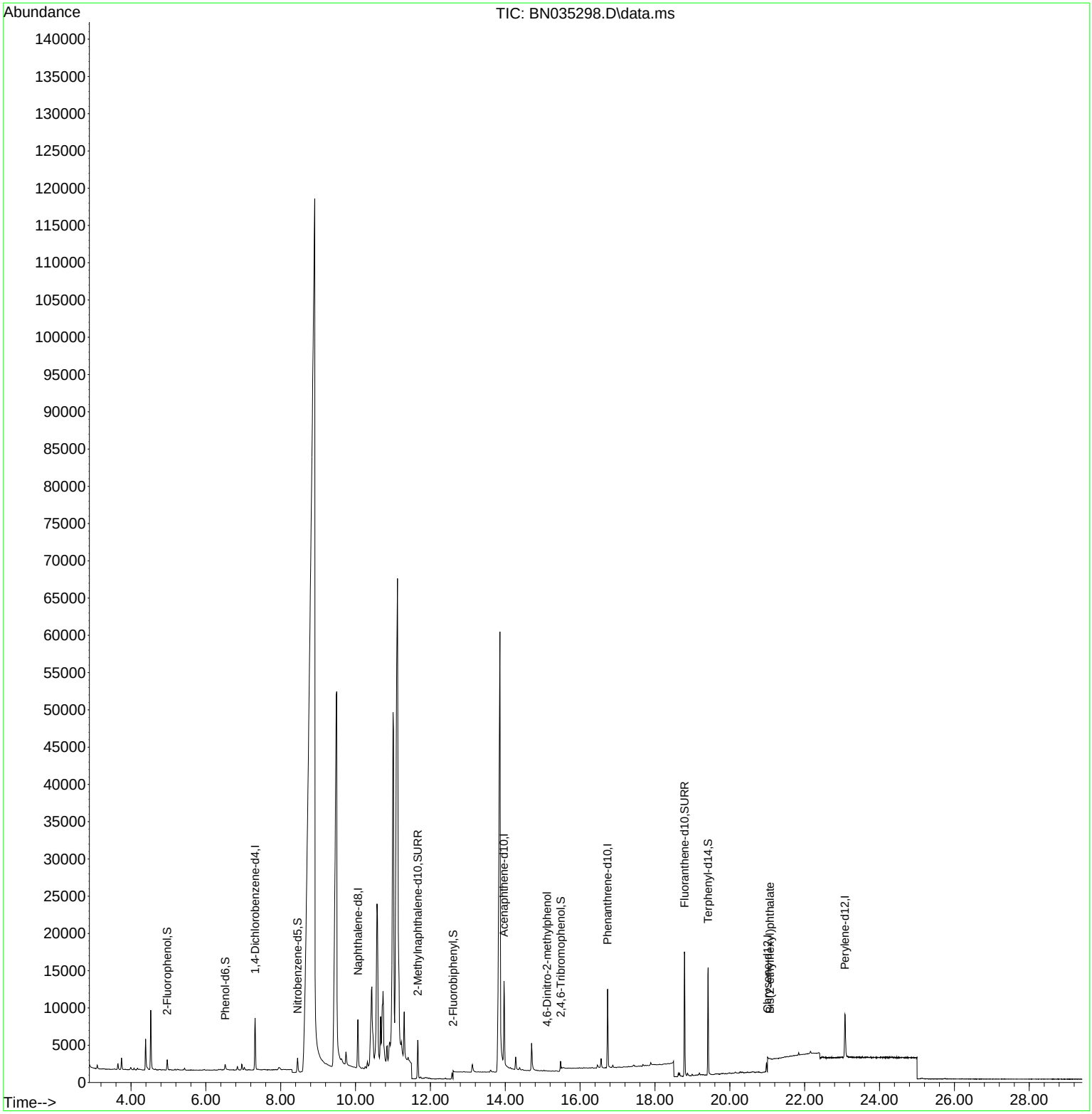
(#) = qualifier out of range (m) = manual integration (+) = signals summed

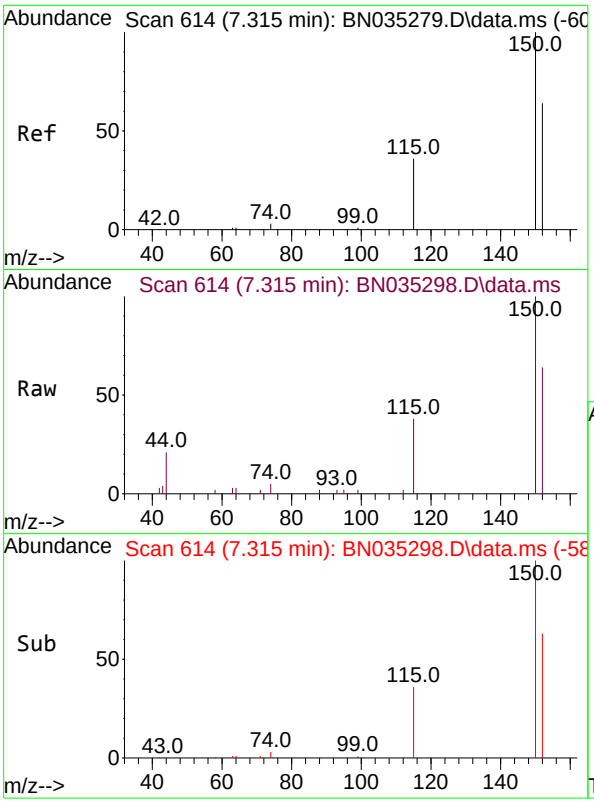
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035298.D
Acq On : 26 Nov 2024 02:02
Operator : RC/JU
Sample : P4959-02
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Quant Time: Nov 26 03:32:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration



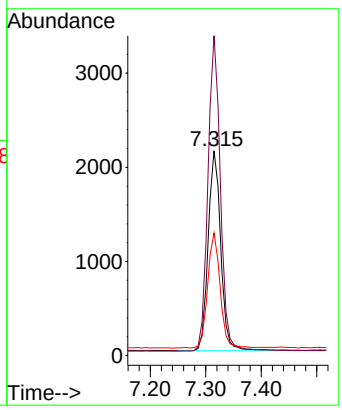


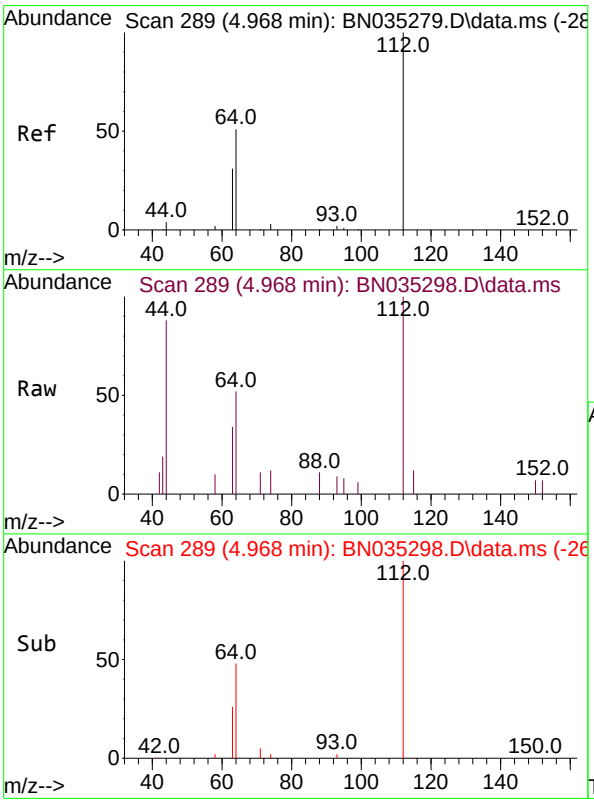
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Tgt Ion:152 Resp: 3353

Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.5	186.7
115	59.9	47.8	71.8

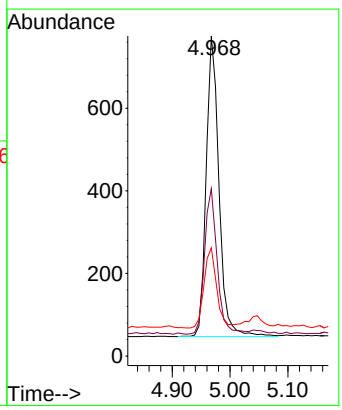


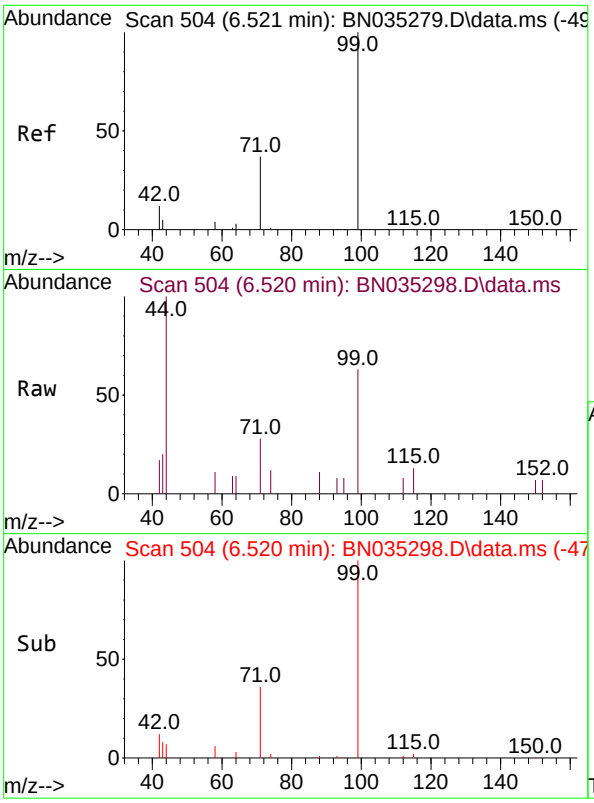


#4
2-Fluorophenol
Concen: 0.177 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:112 Resp: 1124

Ion	Ratio	Lower	Upper
112	100		
64	48.0	40.4	60.6
63	26.2	23.8	35.8



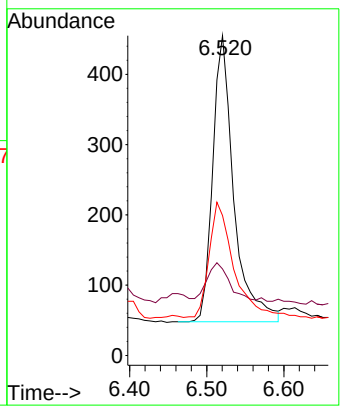


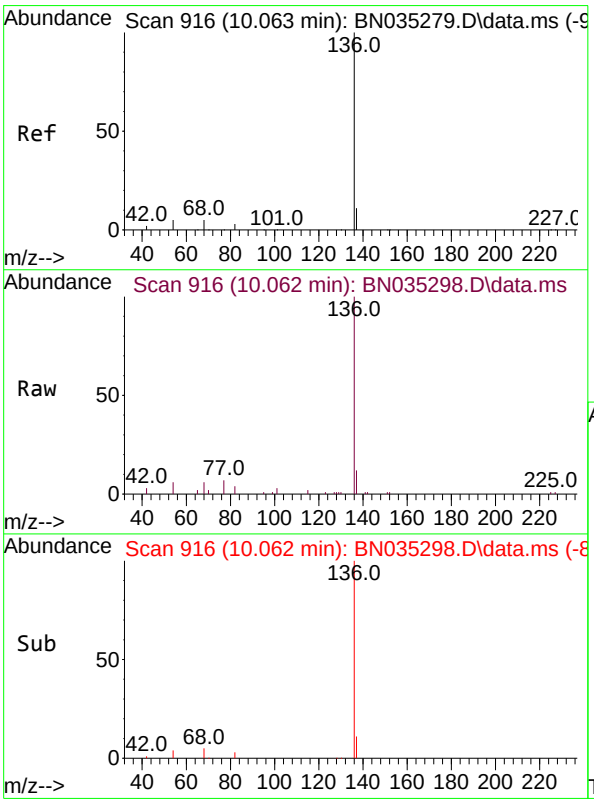
#5
Phenol-d6
Concen: 0.087 ng
RT: 6.520 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Tgt Ion: 99 Resp: 772

Ion	Ratio	Lower	Upper
99	100		
42	14.5	12.8	19.2
71	48.4	31.4	47.2#

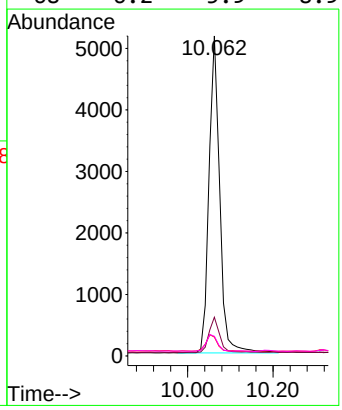


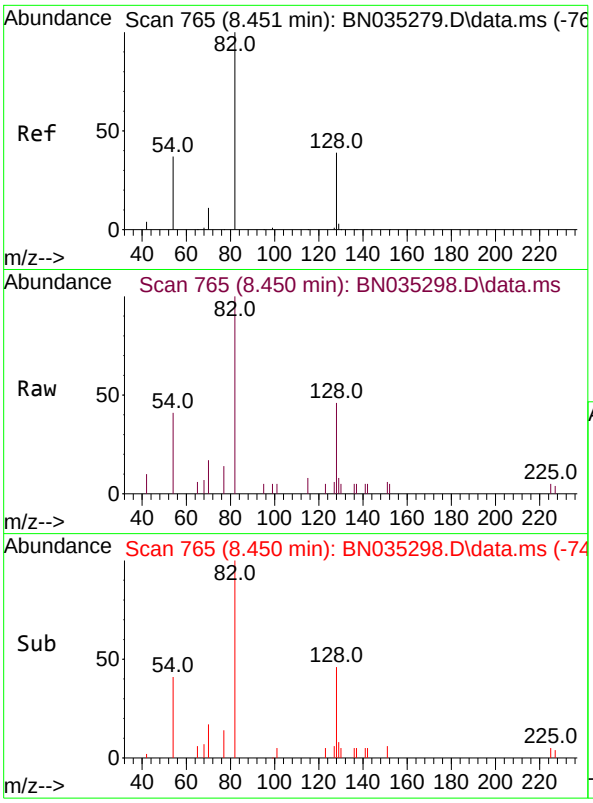


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.062 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:136 Resp: 8974

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	5.9	5.3	7.9
68	6.2	5.9	8.9



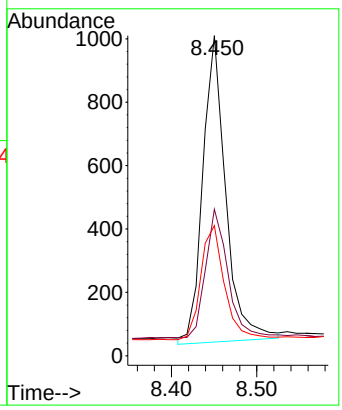


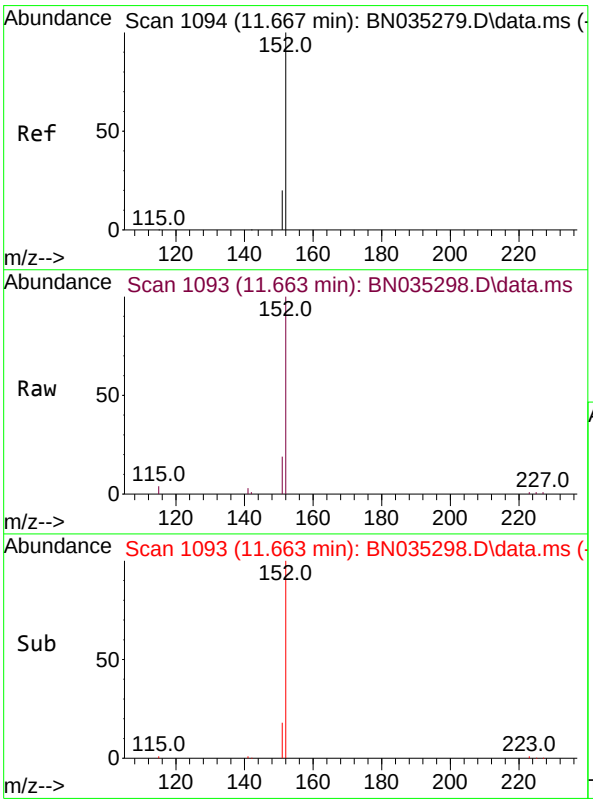
#8
Nitrobenzene-d5
Concen: 0.248 ng
RT: 8.450 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Tgt Ion: 82 Resp: 1804

Ion	Ratio	Lower	Upper
82	100		
128	45.7	33.0	49.4
54	40.7	33.3	49.9

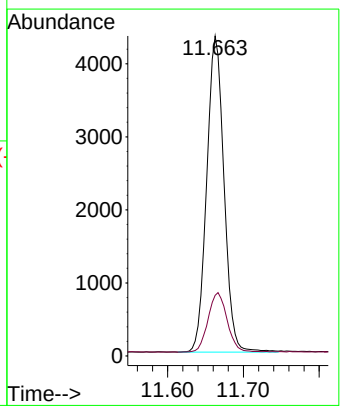


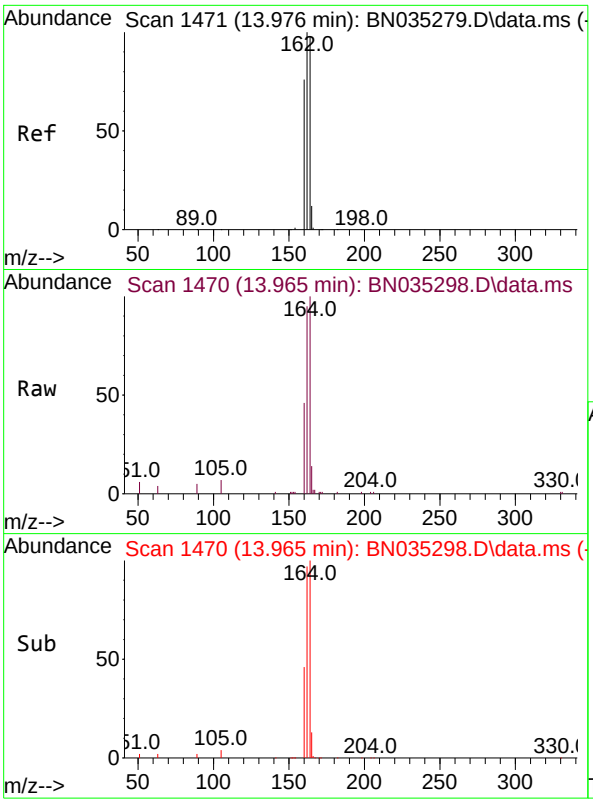


#11
2-Methylnaphthalene-d10
Concen: 0.545 ng
RT: 11.663 min Scan# 1093
Delta R.T. -0.004 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:152 Resp: 6842

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.2	25.8



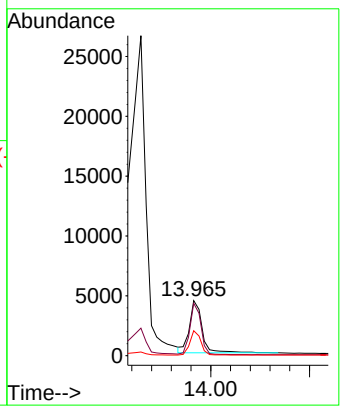


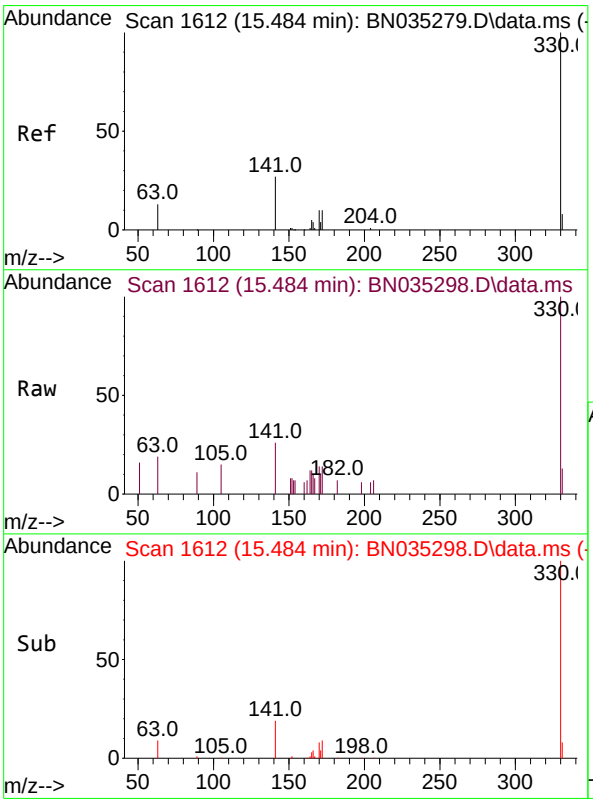
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.965 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Tgt Ion:164 Resp: 7827

Ion	Ratio	Lower	Upper
164	100		
162	95.1	82.0	123.0
160	45.6	63.0	94.4#

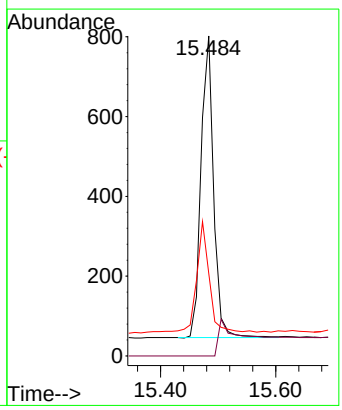


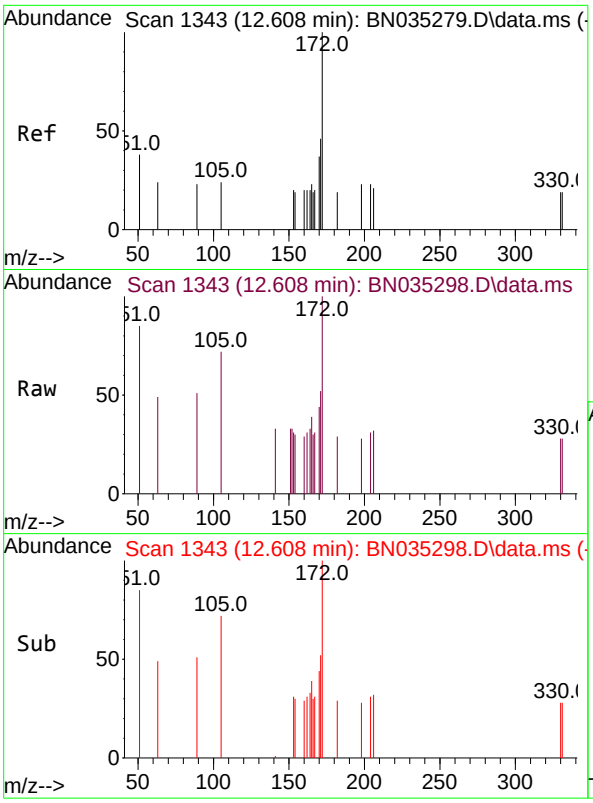


#14
2,4,6-Tribromophenol
Concen: 0.310 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:330 Resp: 1237

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.5	32.4	48.6



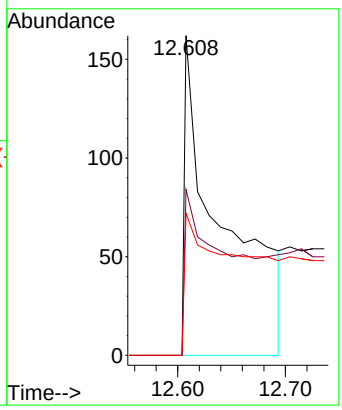


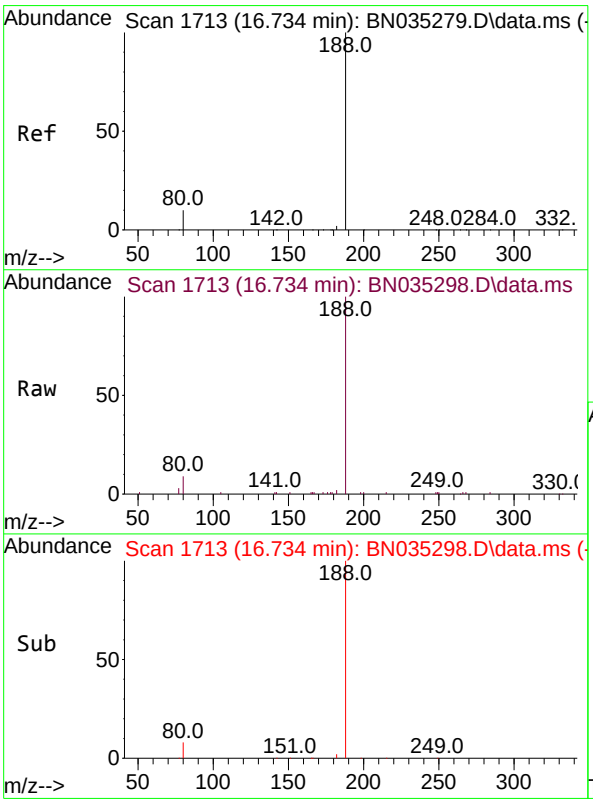
#15
2-Fluorobiphenyl
Concen: 0.086 ng
RT: 12.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Tgt Ion:172 Resp: 373

Ion	Ratio	Lower	Upper
172	100		
171	51.9	36.6	55.0
170	44.4	29.7	44.5

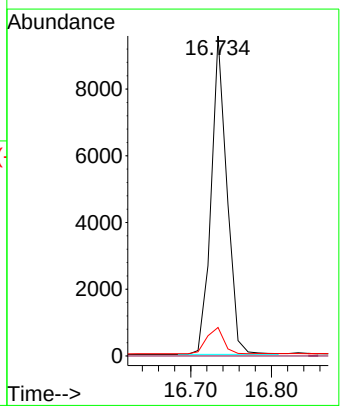


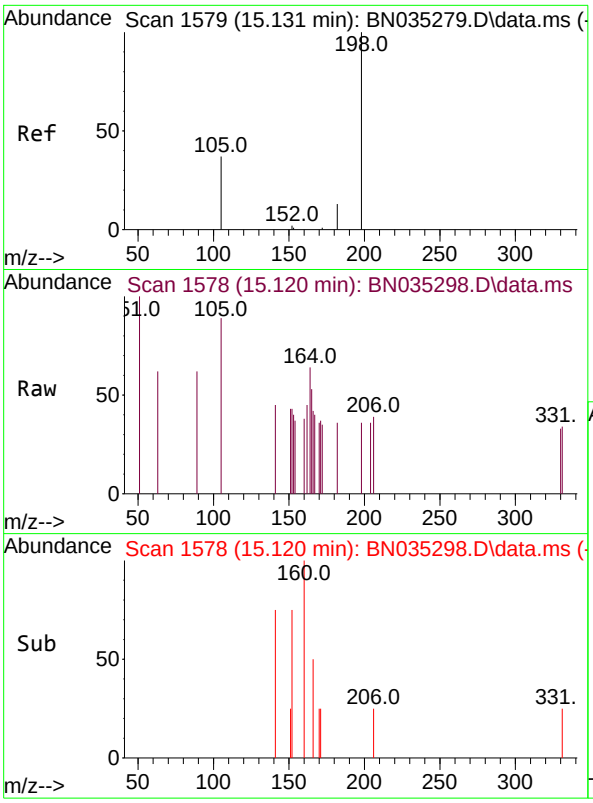


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:188 Resp: 12956

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	8.9	13.3



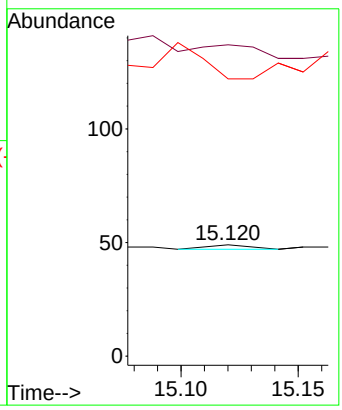


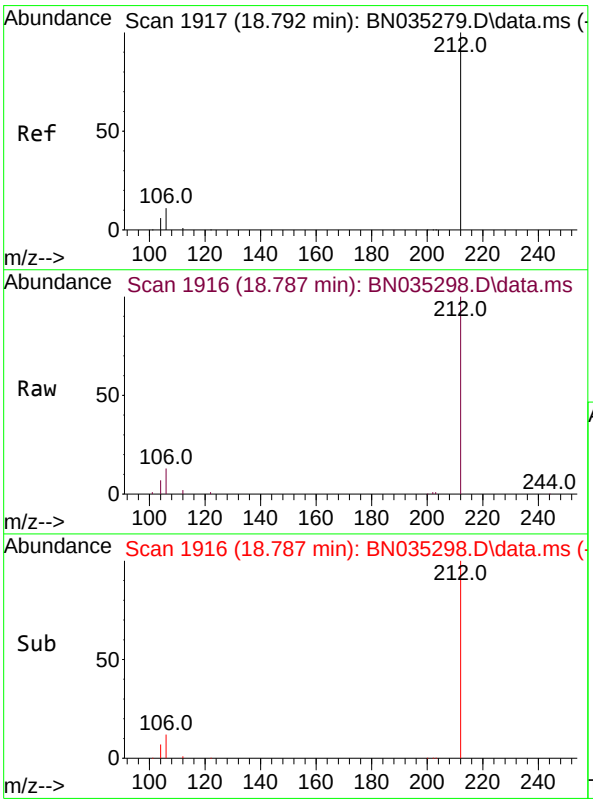
#20
4,6-Dinitro-2-methylphenol
Concen: 0.192 ng
RT: 15.120 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Tgt Ion:198 Resp: 3

Ion	Ratio	Lower	Upper
198	100		
51	279.6	53.6	80.4#
105	249.0	47.4	71.2#

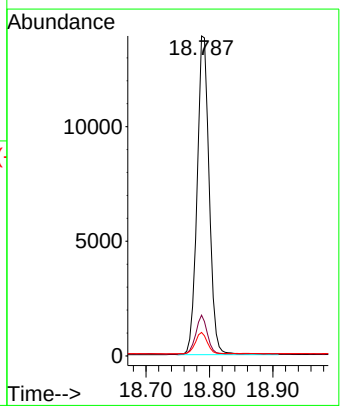


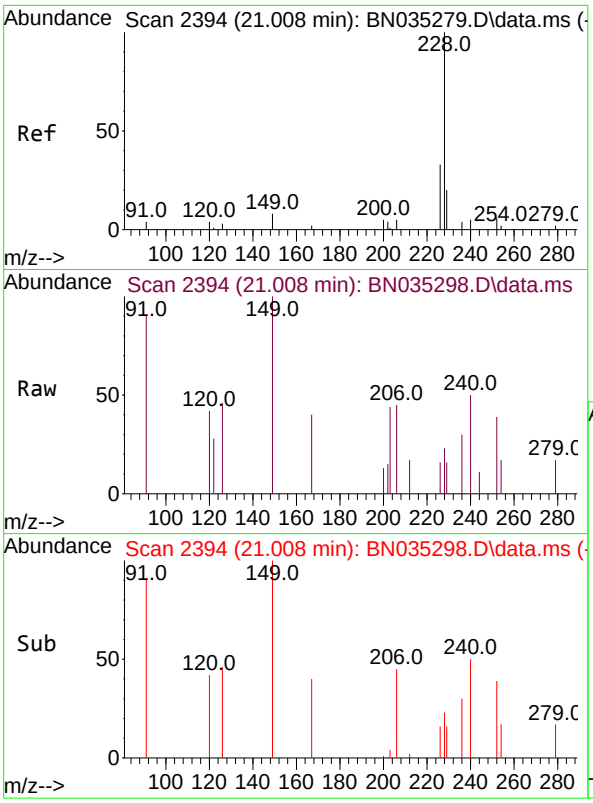


#27
Fluoranthene-d10
Concen: 0.528 ng
RT: 18.787 min Scan# 1916
Delta R.T. -0.005 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:212 Resp: 18292

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.8	14.8
104	6.6	5.6	8.4



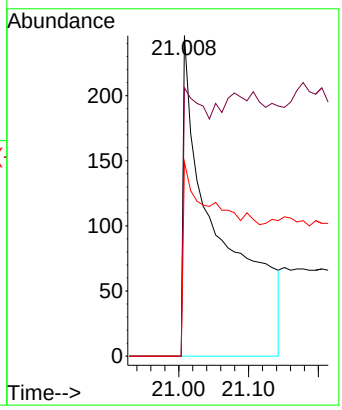


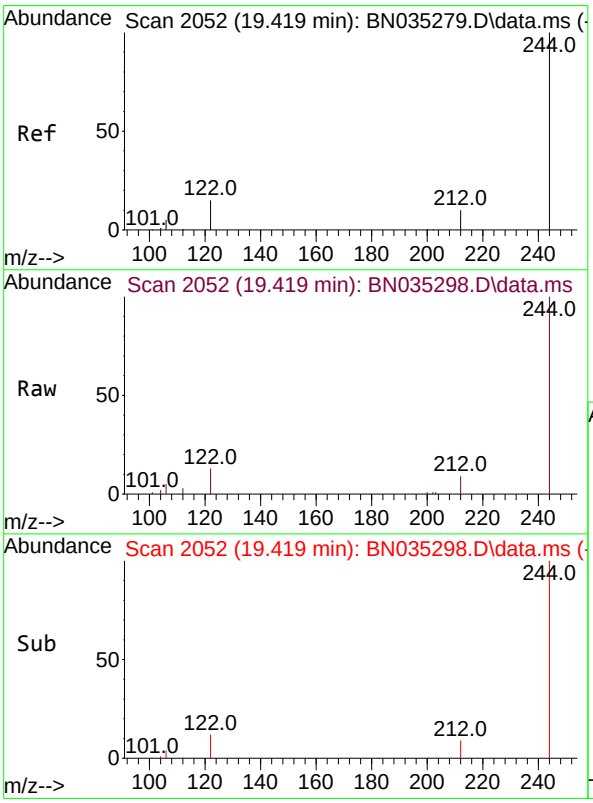
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Tgt Ion:240 Resp: 823

Ion	Ratio	Lower	Upper
240	100		
120	83.7	54.9	82.3#
236	60.6	54.0	81.0

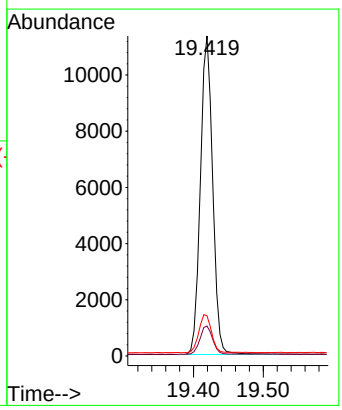


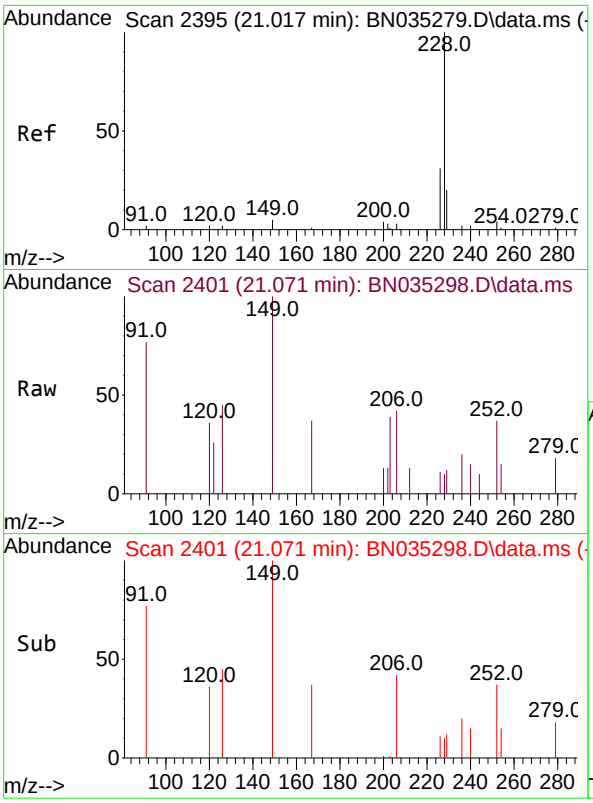


#31
Terphenyl-d14
Concen: 0.916 ng
RT: 19.419 min Scan# 2052
Delta R.T. 0.000 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:244 Resp: 13926

Ion	Ratio	Lower	Upper
244	100		
212	9.4	9.4	14.0#
122	12.6	13.0	19.4#



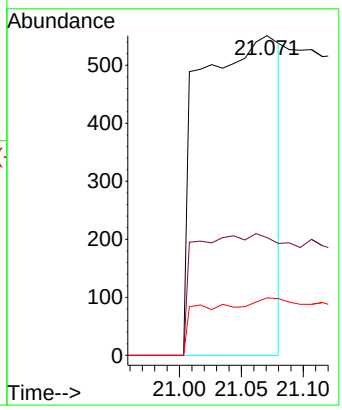


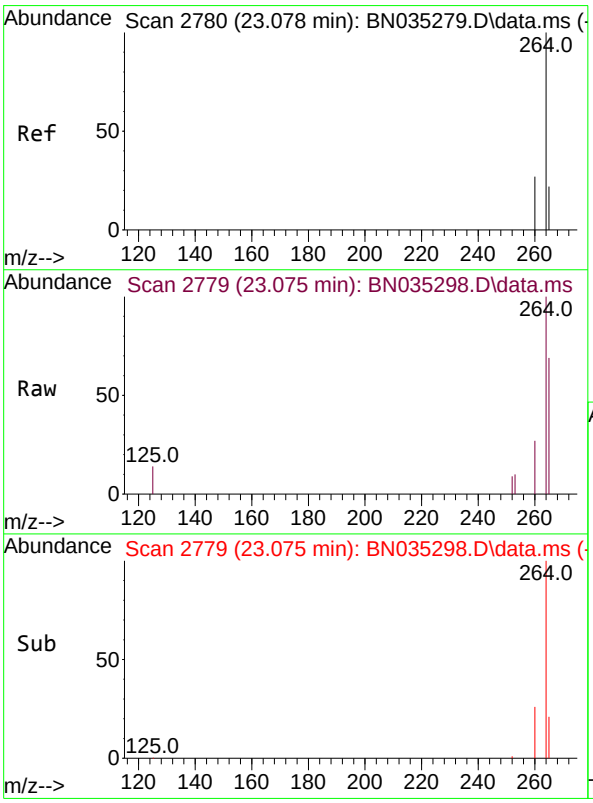
#34
Bis(2-ethylhexyl)phthalate
Concen: 1.426 ng
RT: 21.071 min Scan# 24
Delta R.T. 0.054 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241121

Tgt Ion:149 Resp: 2245

Ion	Ratio	Lower	Upper
149	100		
167	0.0	0.0	0.0
279	0.0	13.0	19.6#

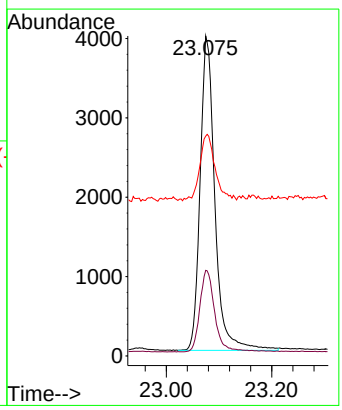




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.075 min Scan# 2779
Delta R.T. -0.003 min
Lab File: BN035298.D
Acq: 26 Nov 2024 02:02

Tgt Ion:264 Resp: 7685

Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.3	33.5
265	68.7	68.6	103.0



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035299.D
Acq On : 26 Nov 2024 02:38
Operator : RC/JU
Sample : P4959-03
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Quant Time: Nov 26 03:33:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	4025	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	10571	0.400	ng	# 0.00
13) Acenaphthene-d10	13.966	164	6682	0.400	ng	#-0.01
19) Phenanthrene-d10	16.734	188	14026	0.400	ng	0.00
29) Chrysene-d12	21.008	240	880	0.400	ng	# 0.00
35) Perylene-d12	23.078	264	7740	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1297	0.171	ng	0.00
5) Phenol-d6	6.520	99	900	0.085	ng	0.00
8) Nitrobenzene-d5	8.450	82	2122	0.248	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	6676	0.451	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	972	0.285	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	890	0.241	ng	0.00
27) Fluoranthene-d10	18.788	212	15405	0.410	ng	0.00
31) Terphenyl-d14	19.419	244	11853	0.729	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	67	0.023	ng	# 55
20) 4,6-Dinitro-2-methylph...	15.163	198	6	0.193	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.062	149	1573	0.934	ng	# 62

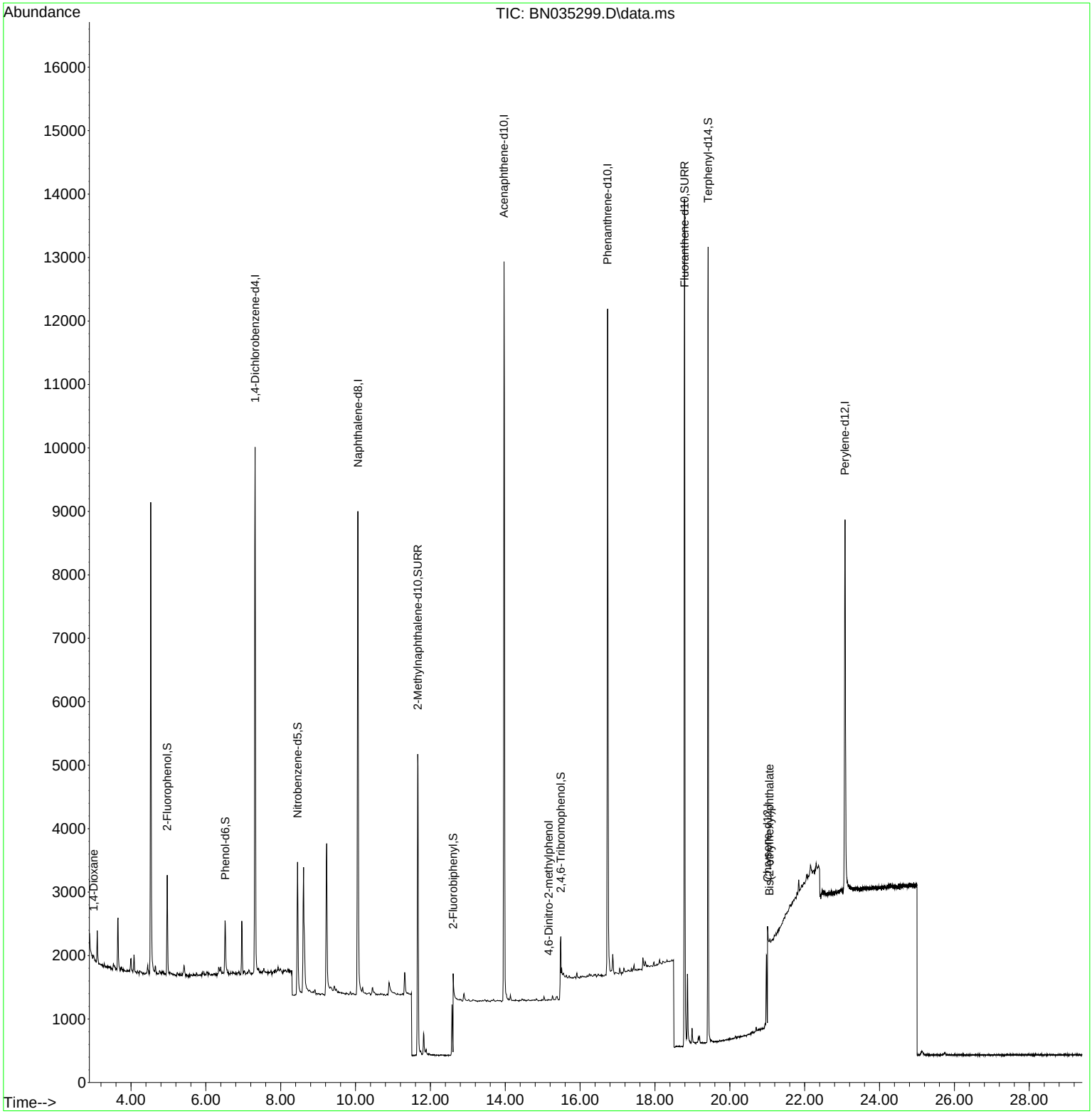
(#) = qualifier out of range (m) = manual integration (+) = signals summed

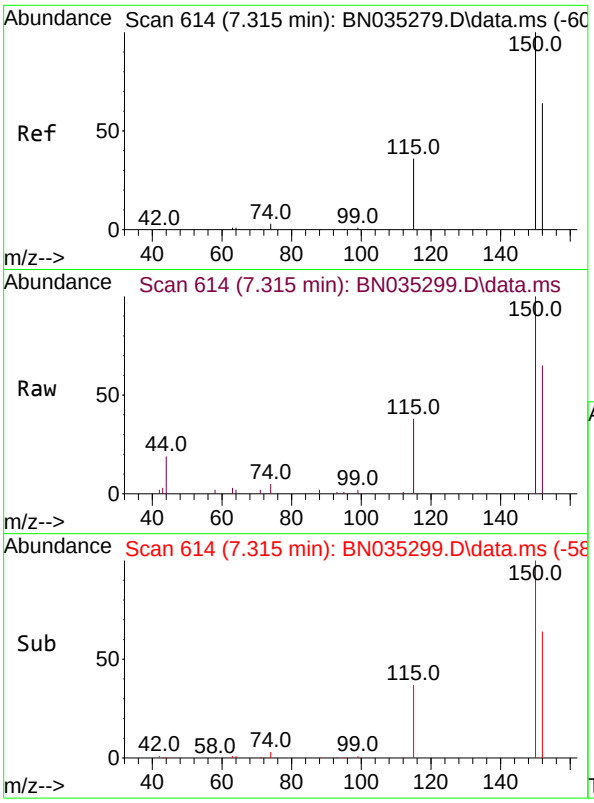
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035299.D
Acq On : 26 Nov 2024 02:38
Operator : RC/JU
Sample : P4959-03
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Quant Time: Nov 26 03:33:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration



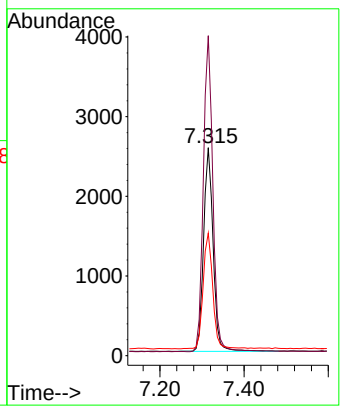


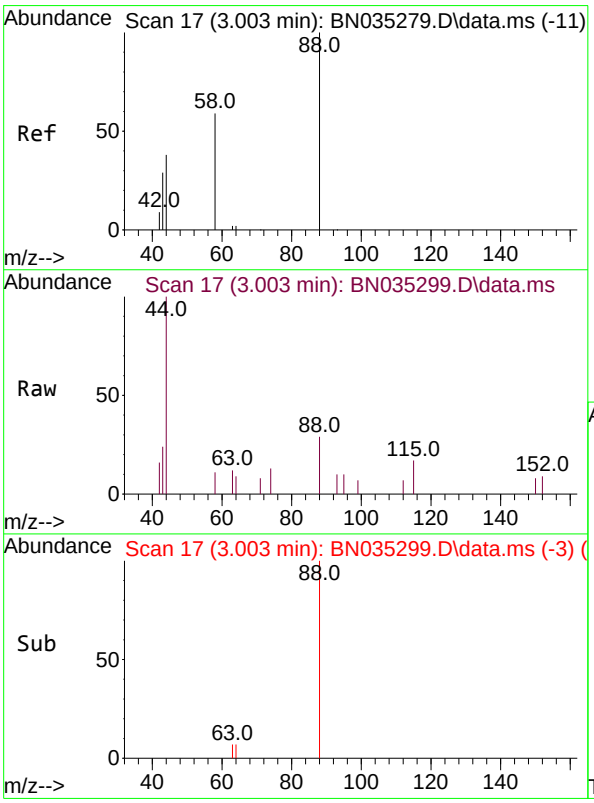
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Tgt Ion:152 Resp: 4025

Ion	Ratio	Lower	Upper
152	100		
150	153.8	124.5	186.7
115	58.9	47.8	71.8

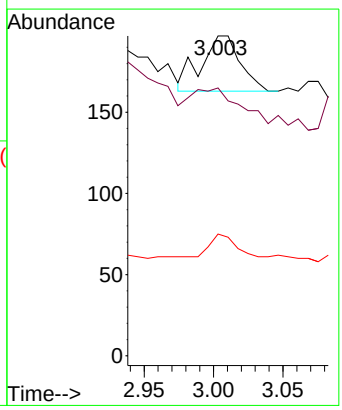


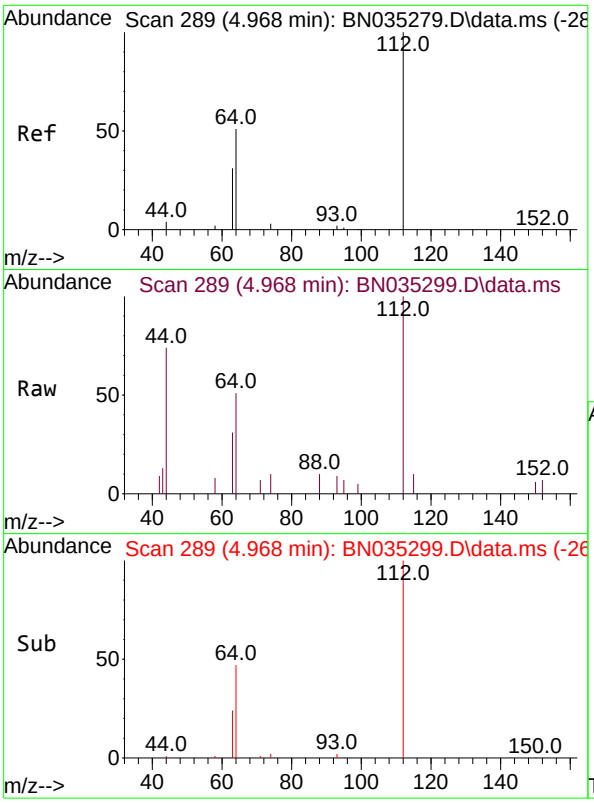


#2
1,4-Dioxane
Concen: 0.023 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion: 88 Resp: 67

Ion	Ratio	Lower	Upper
88	100		
43	101.5	48.1	72.1#
58	32.8	46.9	70.3#



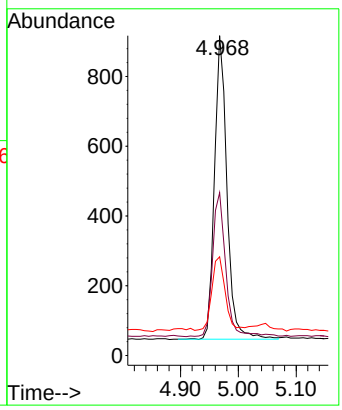


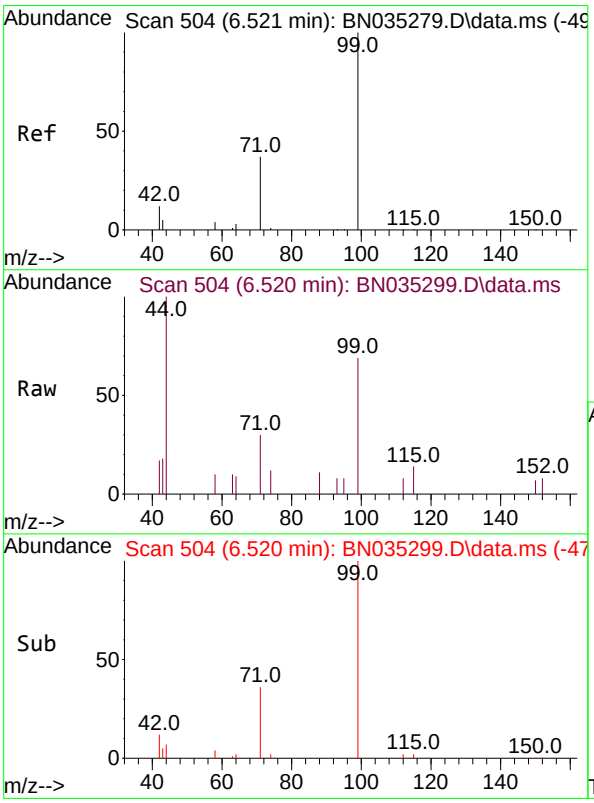
#4
2-Fluorophenol
Concen: 0.171 ng
RT: 4.968 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Tgt Ion:112 Resp: 1297

Ion	Ratio	Lower	Upper
112	100		
64	50.6	40.4	60.6
63	26.8	23.8	35.8

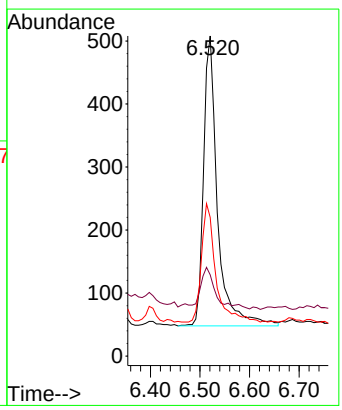


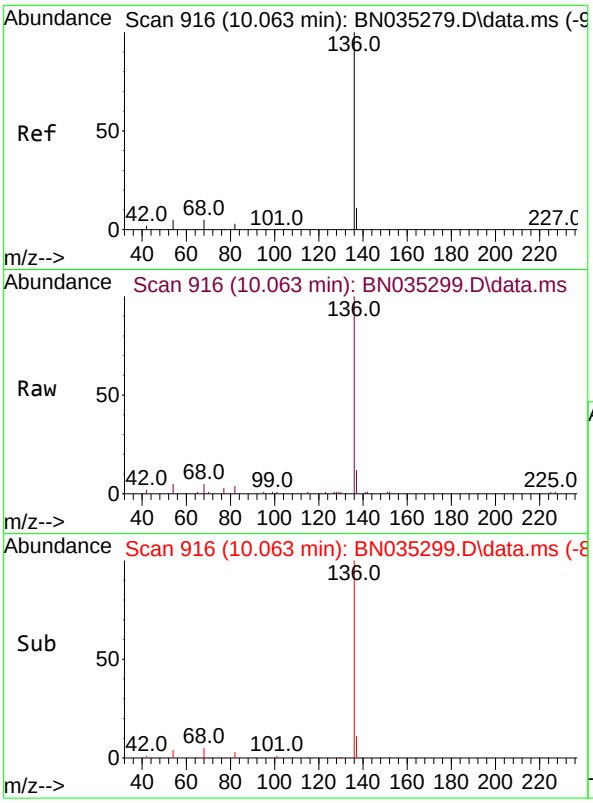


#5
Phenol-d6
Concen: 0.085 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion: 99 Resp: 900

Ion	Ratio	Lower	Upper
99	100		
42	14.9	12.8	19.2
71	41.7	31.4	47.2



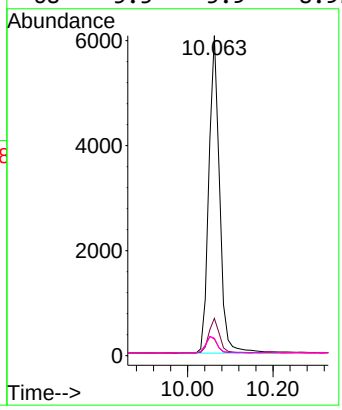


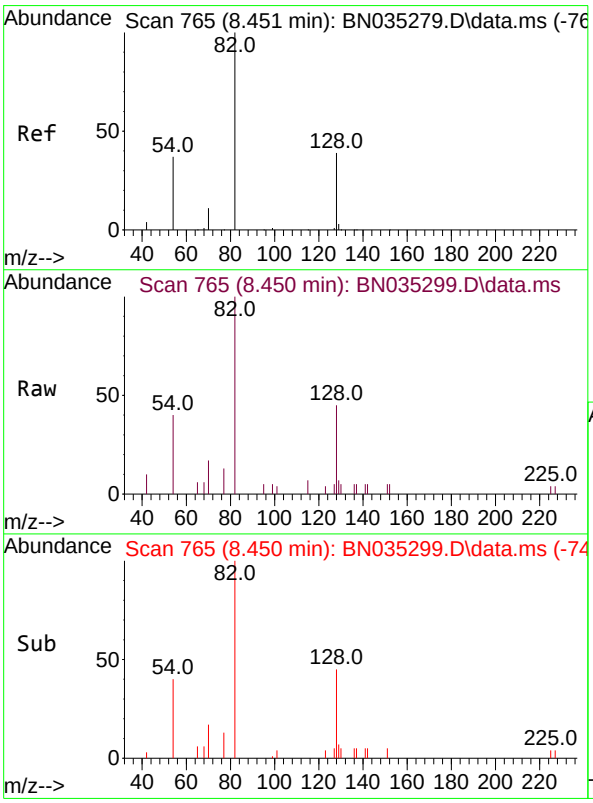
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Tgt Ion:136 Resp: 10571

Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.7	14.5
54	5.2	5.3	7.9#
68	5.5	5.9	8.9#

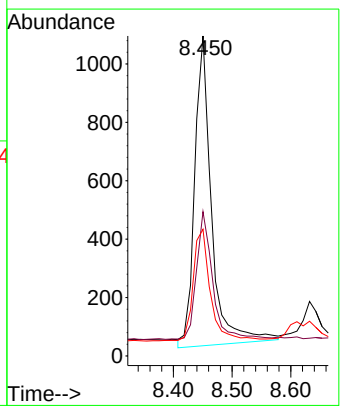


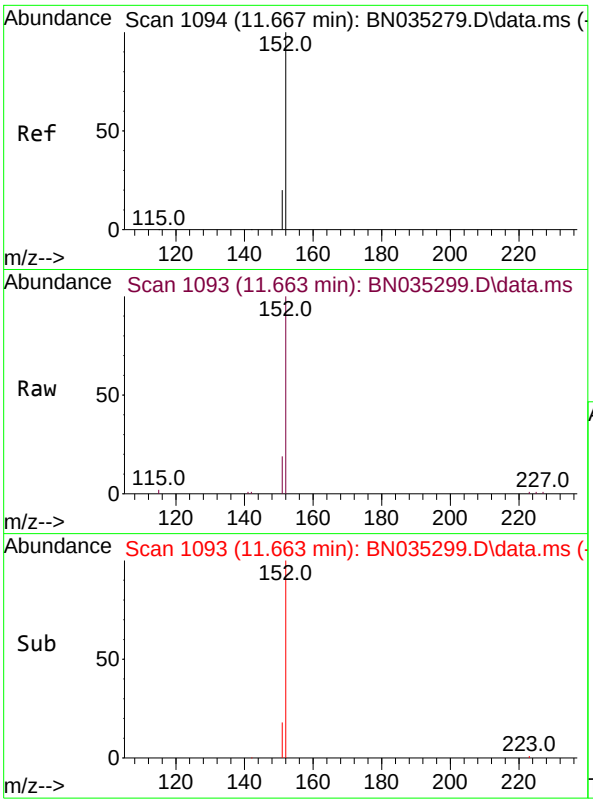


#8
Nitrobenzene-d5
Concen: 0.248 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion: 82 Resp: 2122

Ion	Ratio	Lower	Upper
82	100		
128	45.1	33.0	49.4
54	39.6	33.3	49.9



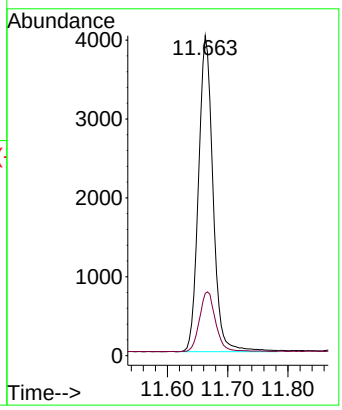


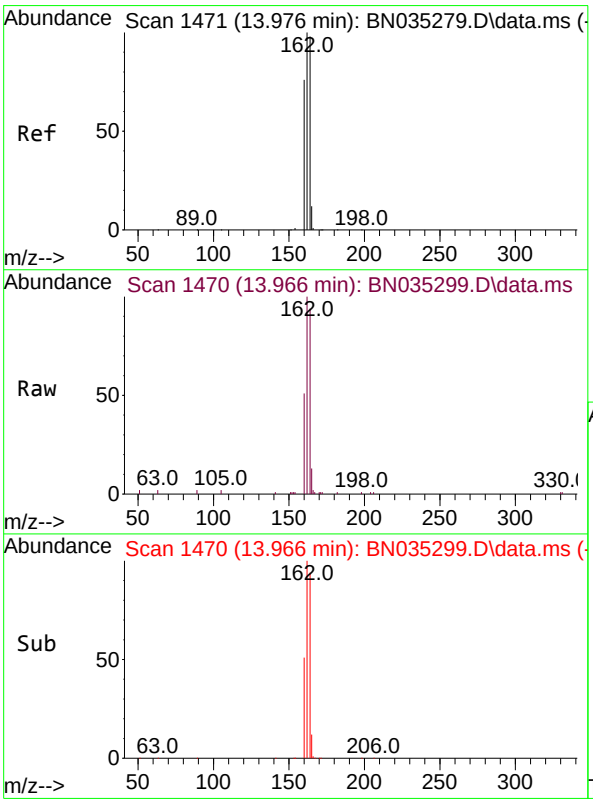
#11
2-Methylnaphthalene-d10
Concen: 0.451 ng
RT: 11.663 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Tgt Ion:152 Resp: 6676

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.2	25.8

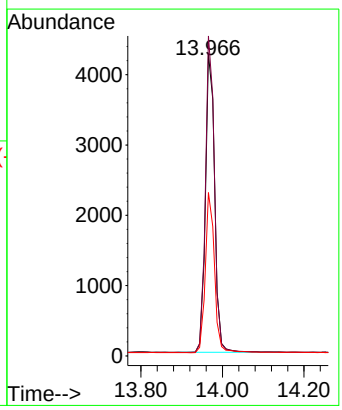


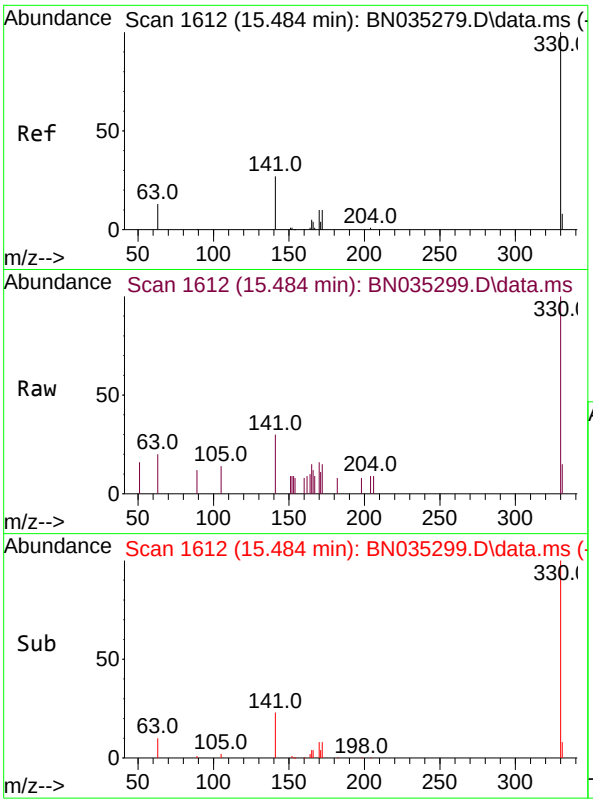


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.966 min Scan# 1470
Delta R.T. -0.011 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:164 Resp: 6682

Ion	Ratio	Lower	Upper
164	100		
162	106.0	82.0	123.0
160	54.1	63.0	94.4#



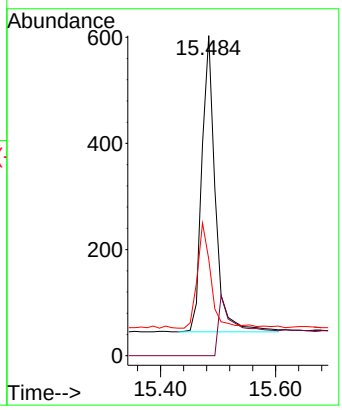


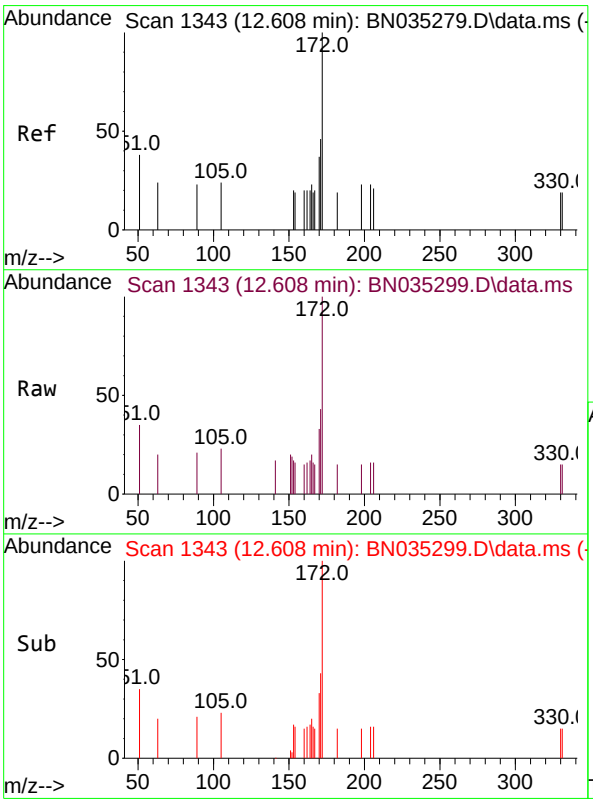
#14
2,4,6-Tribromophenol
Concen: 0.285 ng
RT: 15.484 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Tgt Ion:330 Resp: 972

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	36.7	32.4	48.6

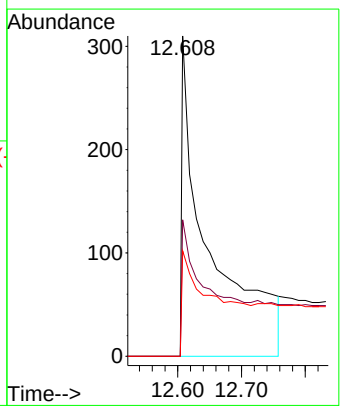


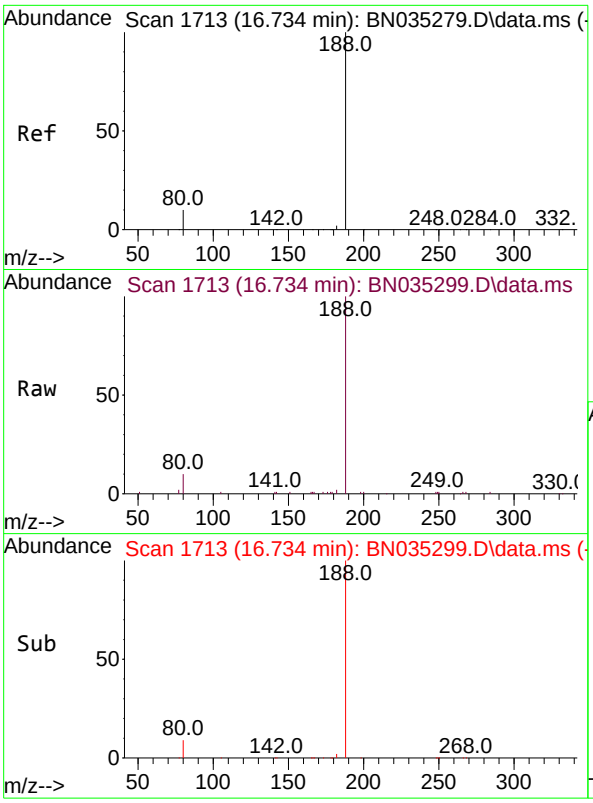


#15
2-Fluorobiphenyl
Concen: 0.241 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:172 Resp: 890

Ion	Ratio	Lower	Upper
172	100		
171	42.6	36.6	55.0
170	32.9	29.7	44.5



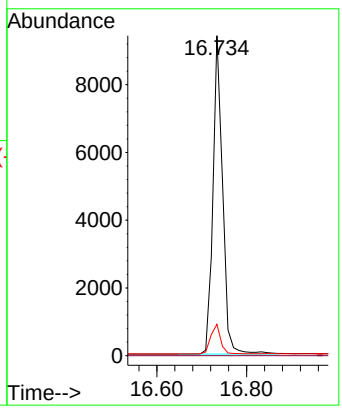


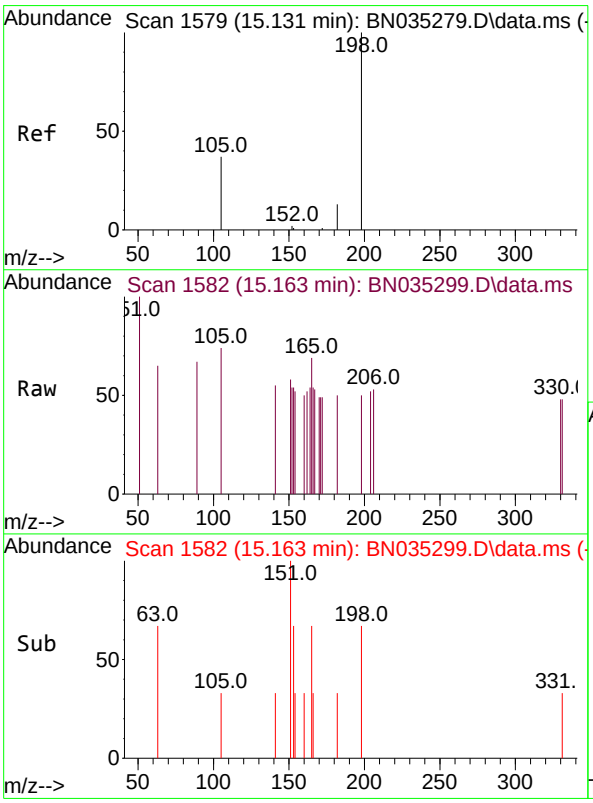
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Tgt Ion:188 Resp: 14026

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.8	8.9	13.3

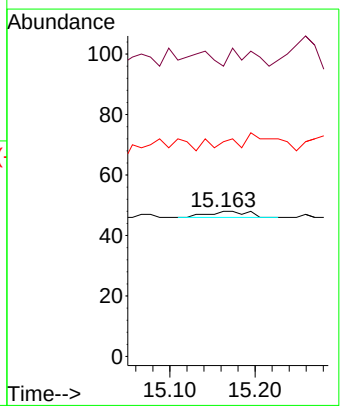


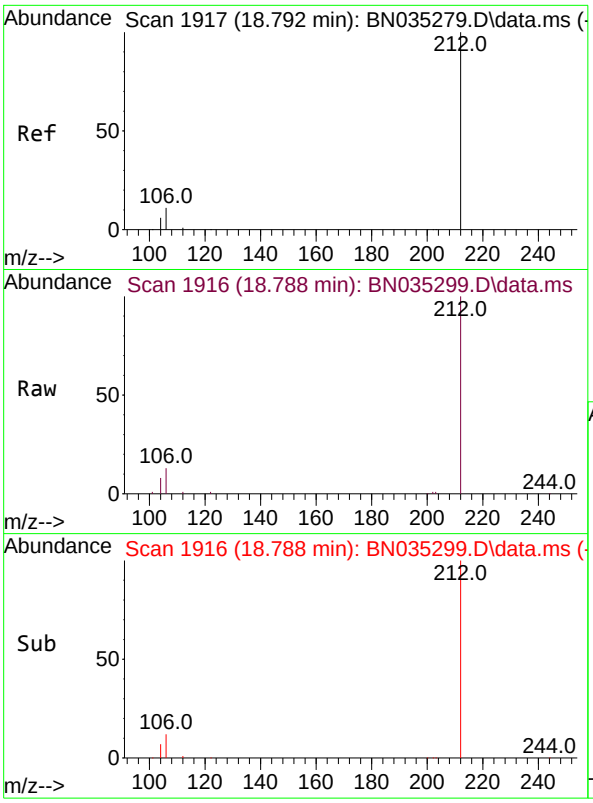


#20
4,6-Dinitro-2-methylphenol
Concen: 0.193 ng
RT: 15.163 min Scan# 1582
Delta R.T. 0.032 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:198 Resp: 6

Ion	Ratio	Lower	Upper
198	100		
51	200.0	53.6	80.4#
105	147.9	47.4	71.2#



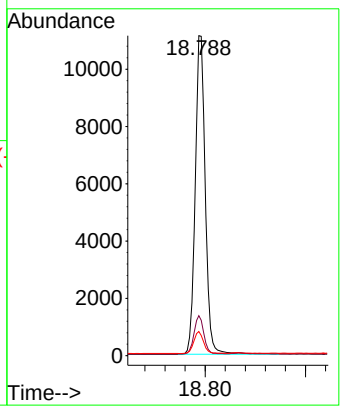


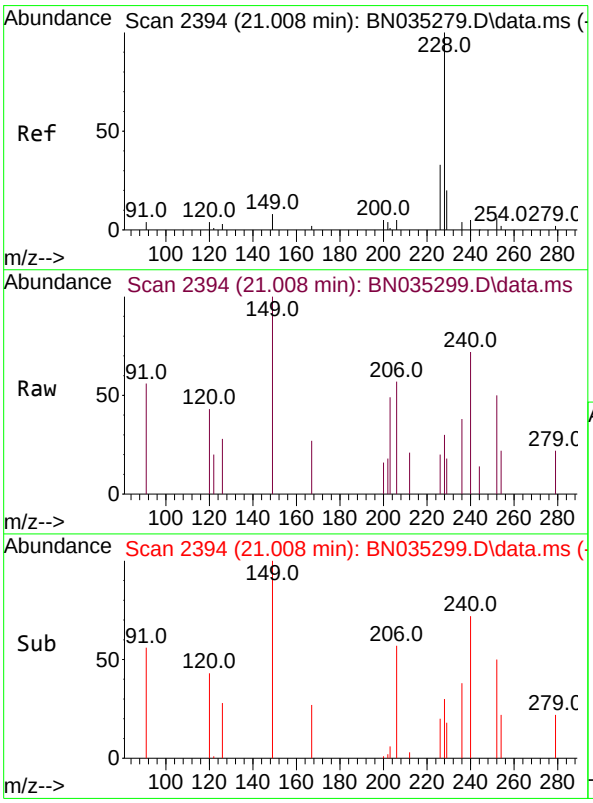
#27
Fluoranthene-d10
Concen: 0.410 ng
RT: 18.788 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Tgt Ion:212 Resp: 15405

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.8	14.8
104	6.8	5.6	8.4

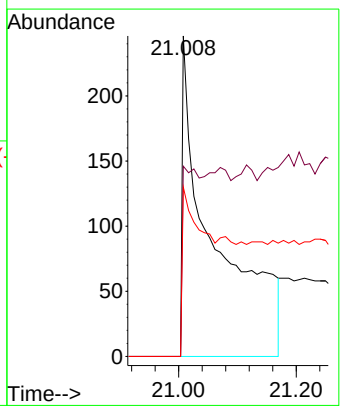


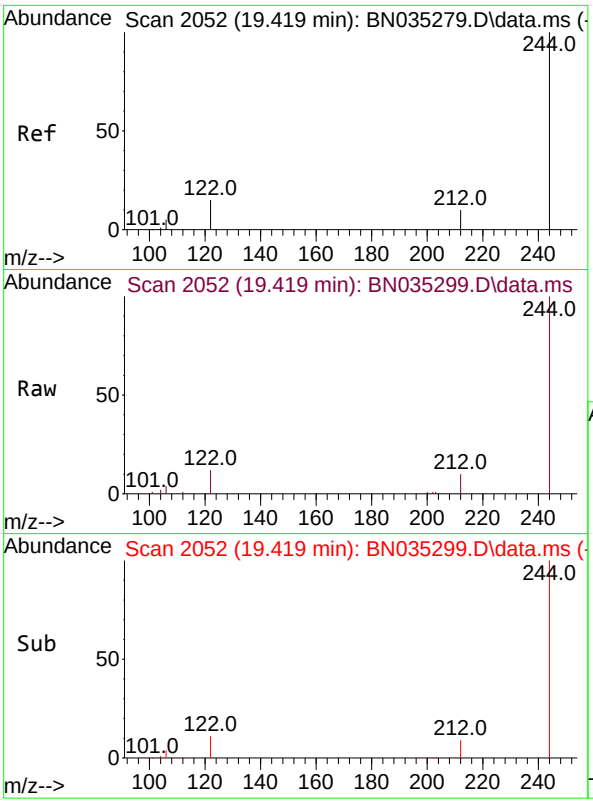


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:240 Resp: 880

Ion	Ratio	Lower	Upper
240	100		
120	59.3	54.9	82.3
236	52.8	54.0	81.0#



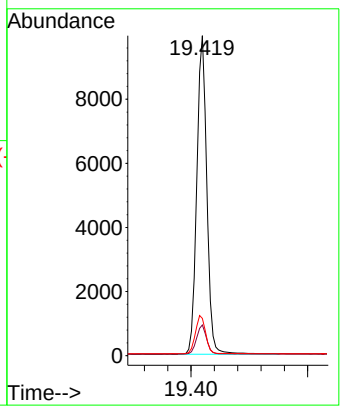


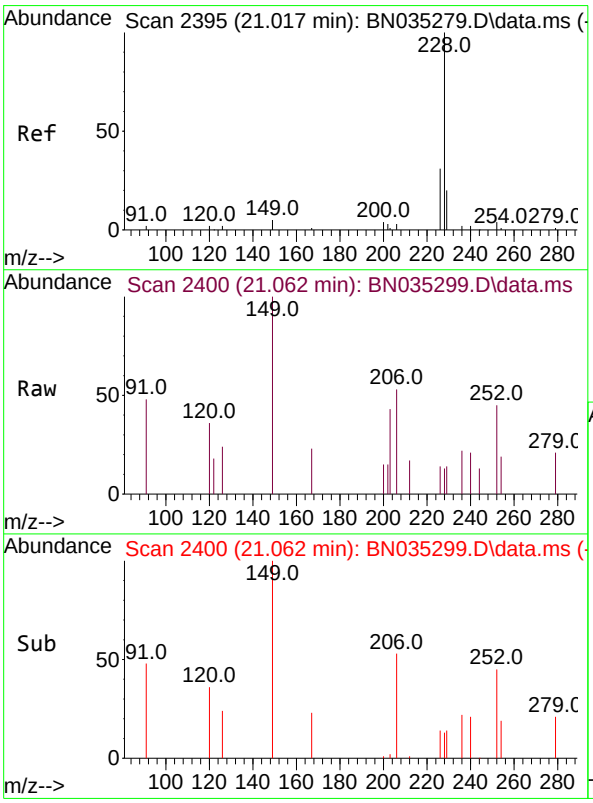
#31
Terphenyl-d14
Concen: 0.729 ng
RT: 19.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Tgt Ion:244 Resp: 11853

Ion	Ratio	Lower	Upper
244	100		
212	9.6	9.4	14.0
122	11.7	13.0	19.4#

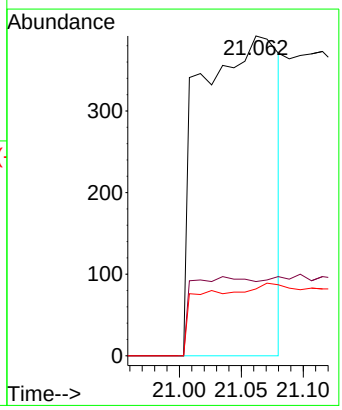


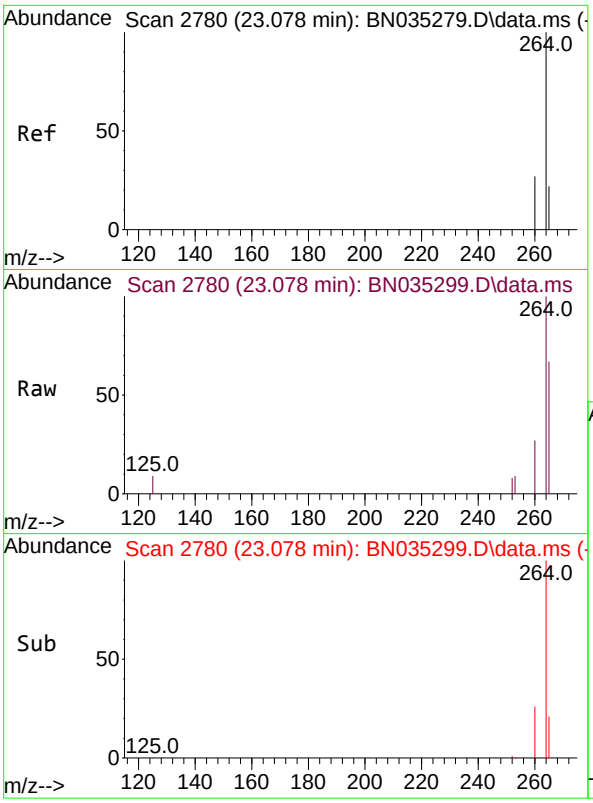


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.934 ng
RT: 21.062 min Scan# 2400
Delta R.T. 0.045 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Tgt Ion:149 Resp: 1573

Ion	Ratio	Lower	Upper
149	100		
167	0.0	0.0	0.0
279	0.0	13.0	19.6#



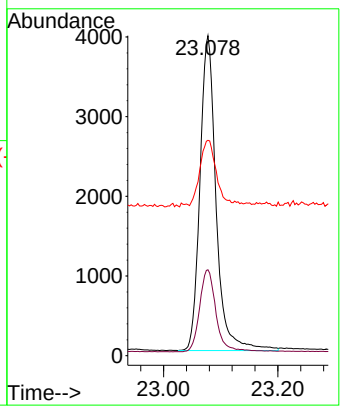


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035299.D
Acq: 26 Nov 2024 02:38

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241121

Tgt Ion:264 Resp: 7740

Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.3	33.5
265	67.3	68.6	103.0#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035300.D
Acq On : 26 Nov 2024 03:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Nov 26 04:38:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3805	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8746	0.400	ng	# 0.00
13) Acenaphthene-d10	13.973	164	4650	0.400	ng	# 0.00
19) Phenanthrene-d10	16.741	188	8944	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	871	0.400	ng	# 0.00
35) Perylene-d12	23.075	264	8001	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	3847	0.535	ng	0.00
5) Phenol-d6	6.513	99	4573	0.455	ng	0.00
8) Nitrobenzene-d5	8.450	82	1947	0.275	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	4853	0.396	ng	0.00
14) 2,4,6-Tribromophenol	15.480	330	969	0.408	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	795	0.310	ng	0.00
27) Fluoranthene-d10	18.790	212	8444	0.353	ng	0.00
31) Terphenyl-d14	19.422	244	5811	0.361	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	1488	0.544	ng	# 71
3) n-Nitrosodimethylamine	3.299	42	1097	0.387	ng	# 64
6) bis(2-Chloroethyl)ether	6.766	93	3676	0.435	ng	98
9) Naphthalene	10.105	128	9278	0.382	ng	99
10) Hexachlorobutadiene	10.404	225	2190	0.321	ng	# 99
12) 2-Methylnaphthalene	11.738	142	5885	0.371	ng	99
16) Acenaphthylene	13.684	152	7671	0.328	ng	100
17) Acenaphthene	14.037	154	5129	0.348	ng	# 85
18) Fluorene	15.031	166	6559	0.318	ng	97
20) 4,6-Dinitro-2-methylph...	15.127	198	319	0.436	ng	93
21) 4-Bromophenyl-phenylether	15.946	248	2233	0.394	ng	# 78
22) Hexachlorobenzene	16.046	284	2720	0.335	ng	98
23) Atrazine	16.232	200	1031	0.431	ng	98
24) Pentachlorophenol	16.393	266	878	0.450	ng	98
25) Phenanthrene	16.778	178	9774	0.356	ng	100
26) Anthracene	16.865	178	8425	0.357	ng	100
28) Fluoranthene	18.822	202	11052	0.319	ng	99
30) Pyrene	19.189	202	11118	0.351	ng	99
32) Benzo(a)anthracene	21.015	228	10362	0.342	ng	99
33) Chrysene	21.015	228	10362	0.342	ng	99
34) Bis(2-ethylhexyl)phtha...	21.015	149	596	0.358	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.122	276	12330	0.376	ng	99
37) Benzo(b)fluoranthene	22.461	252	10486	0.302	ng	98
38) Benzo(k)fluoranthene	22.502	252	11527	0.313	ng	98
39) Benzo(a)pyrene	22.988	252	8958	0.337	ng	96
40) Dibenzo(a,h)anthracene	25.137	278	9558	0.386	ng	95
41) Benzo(g,h,i)perylene	25.736	276	10647	0.372	ng	97

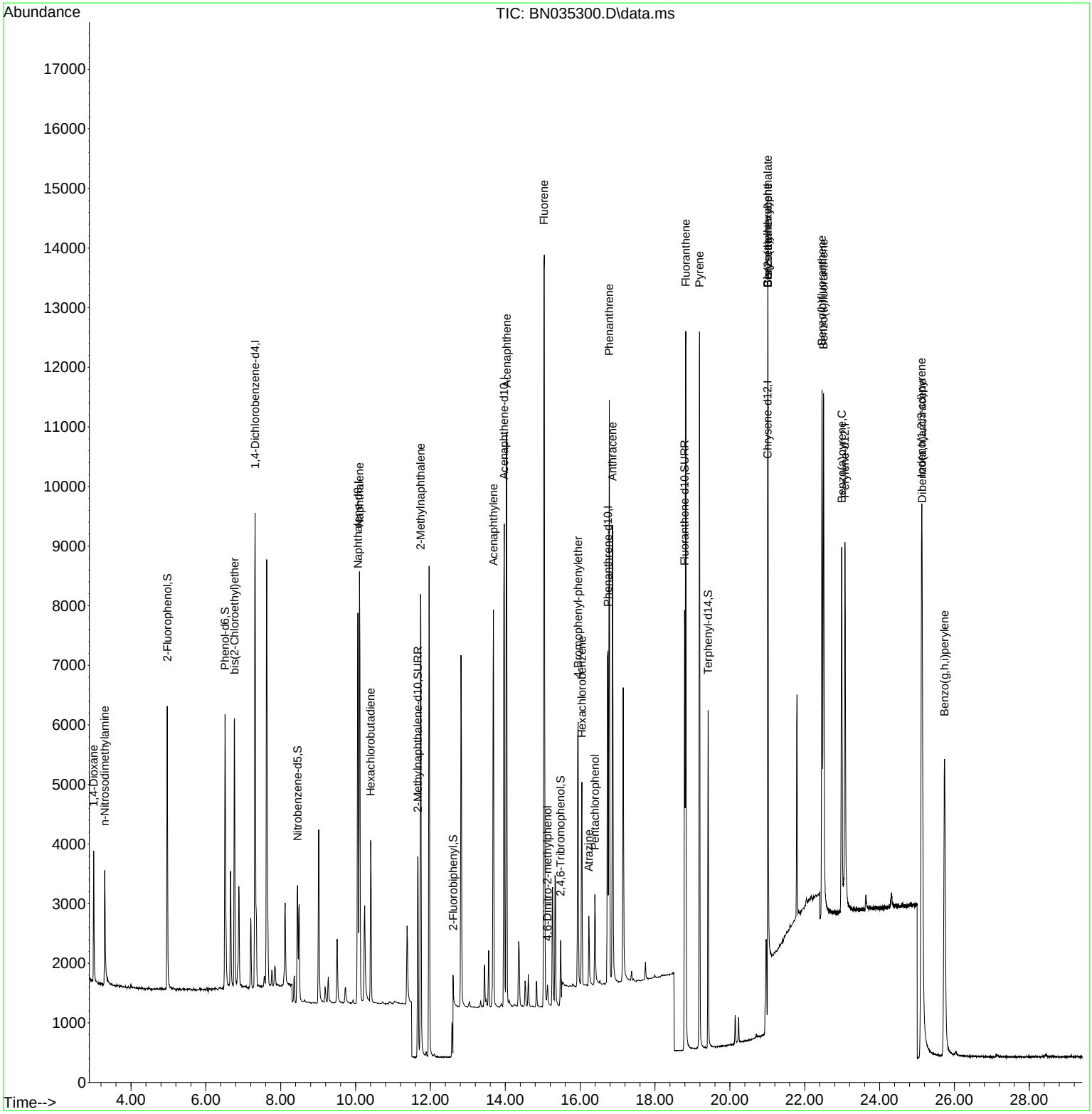
(#) = qualifier out of range (m) = manual integration (+) = signals summed

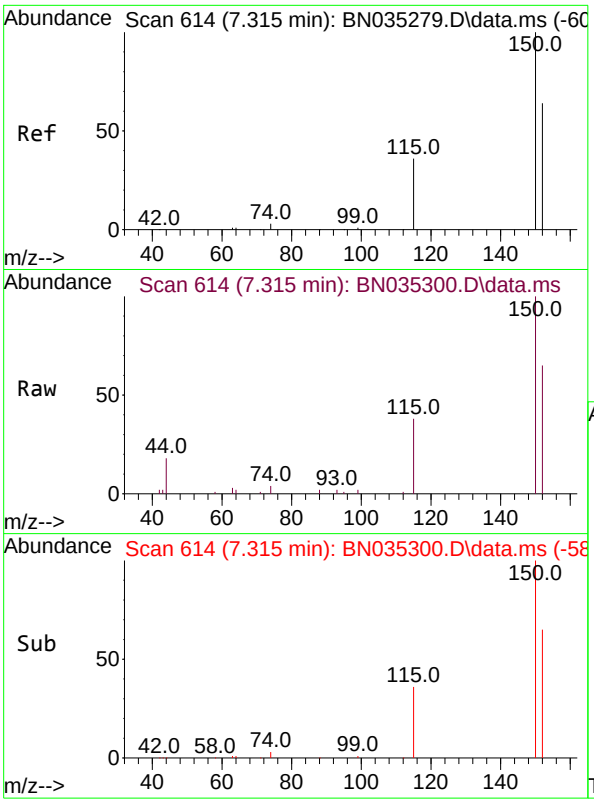
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035300.D
Acq On : 26 Nov 2024 03:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Nov 26 04:38:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration



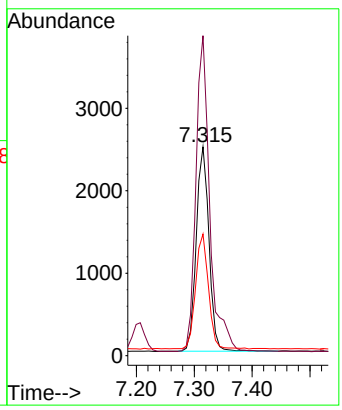


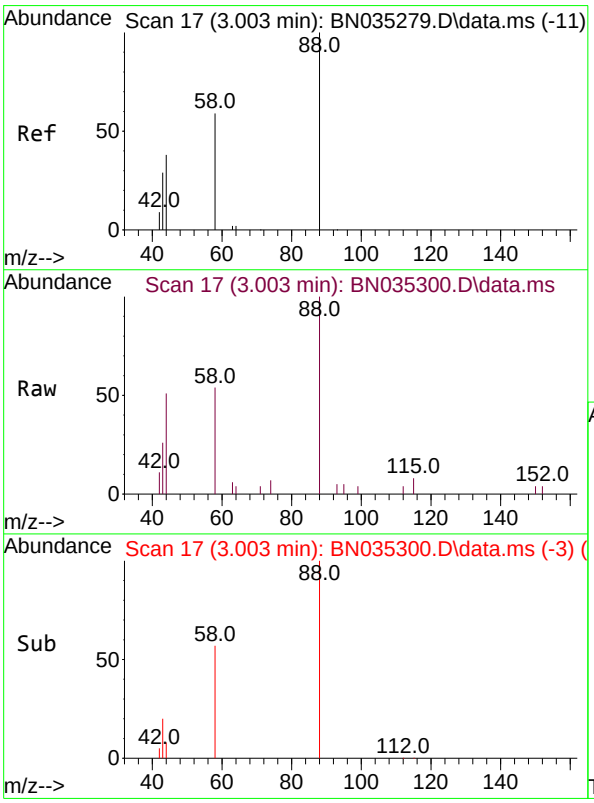
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3805

Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.5	186.7
115	58.3	47.8	71.8

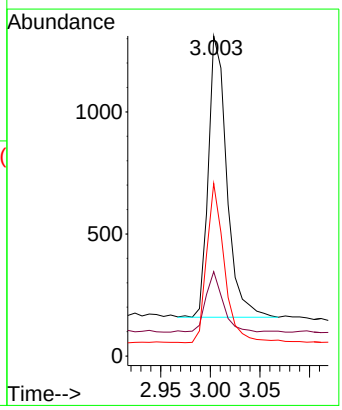


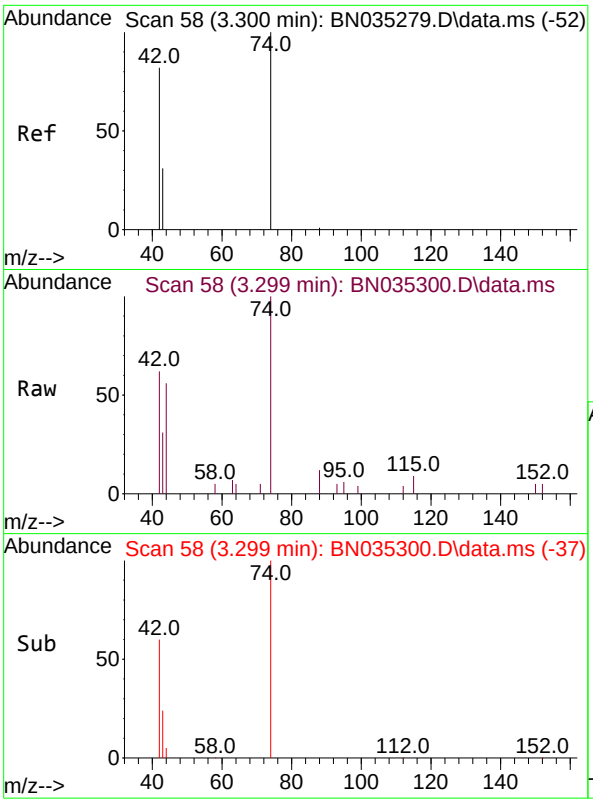


#2
1,4-Dioxane
Concen: 0.544 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion: 88 Resp: 1488

Ion	Ratio	Lower	Upper
88	100		
43	20.2	48.1	72.1#
58	54.6	46.9	70.3



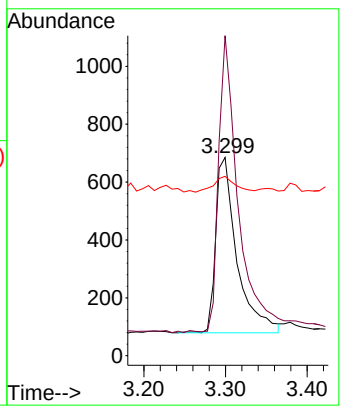


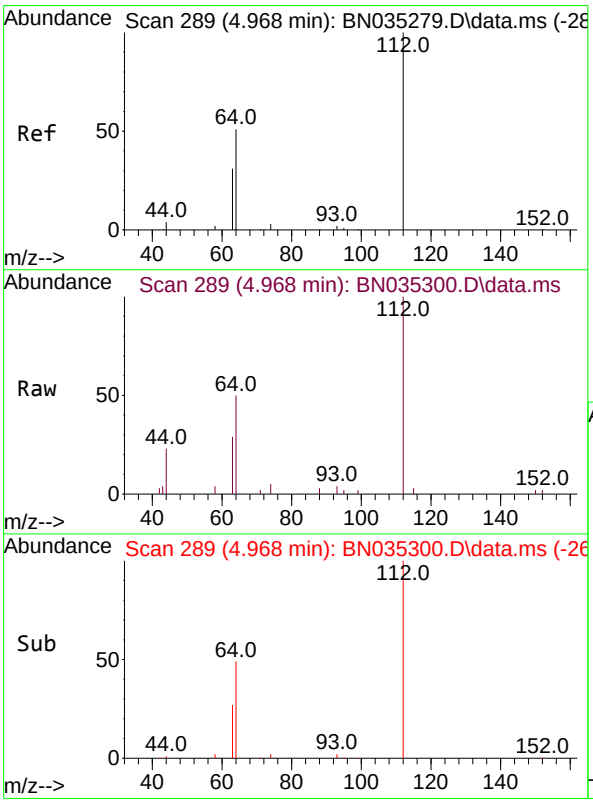
#3
n-Nitrosodimethylamine
Concen: 0.387 ng
RT: 3.299 min Scan# 5
Delta R.T. -0.001 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1097

Ion	Ratio	Lower	Upper
42	100		
74	163.7	102.7	154.1#
44	9.3	34.1	51.1#

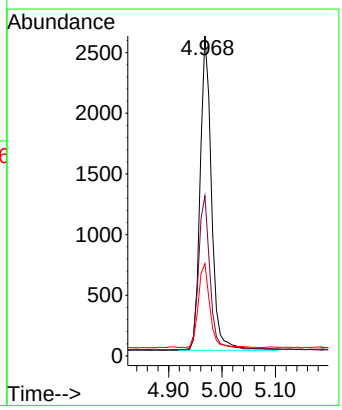


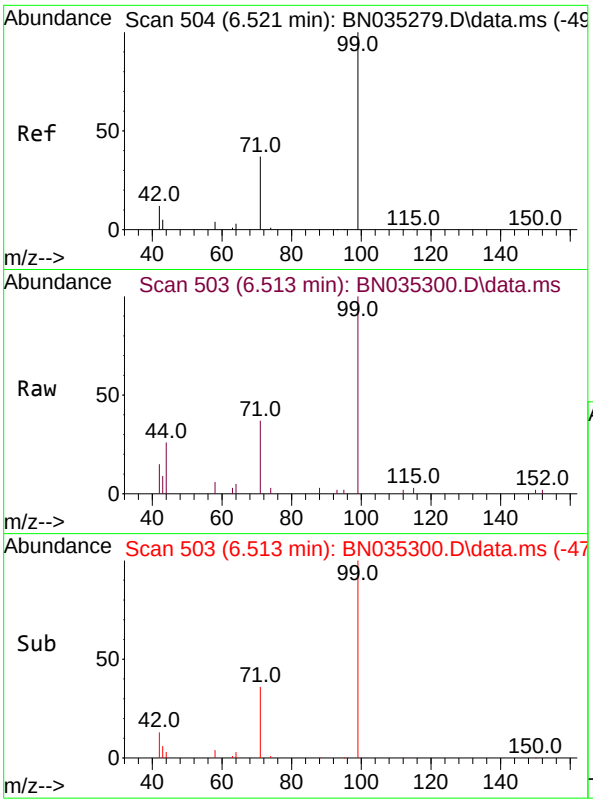


#4
2-Fluorophenol
Concen: 0.535 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:112 Resp: 3847

Ion	Ratio	Lower	Upper
112	100		
64	49.1	40.4	60.6
63	26.8	23.8	35.8



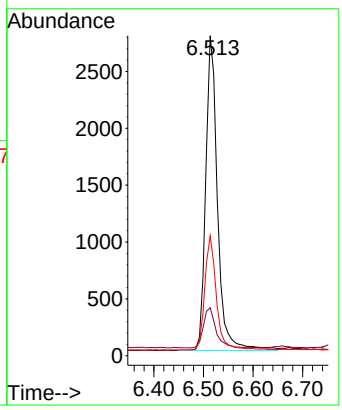


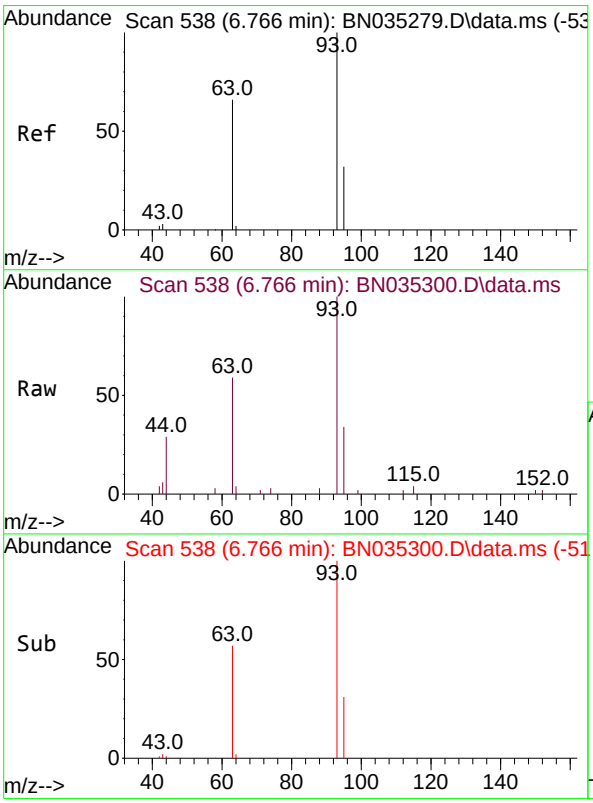
#5
Phenol-d6
Concen: 0.455 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.007 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 4573

Ion	Ratio	Lower	Upper
99	100		
42	13.6	12.8	19.2
71	35.7	31.4	47.2

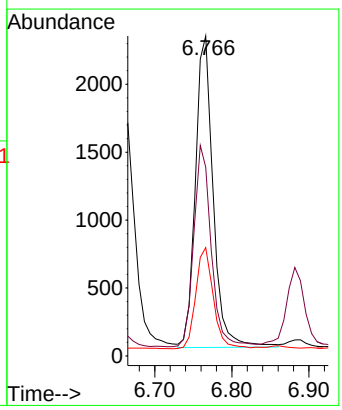


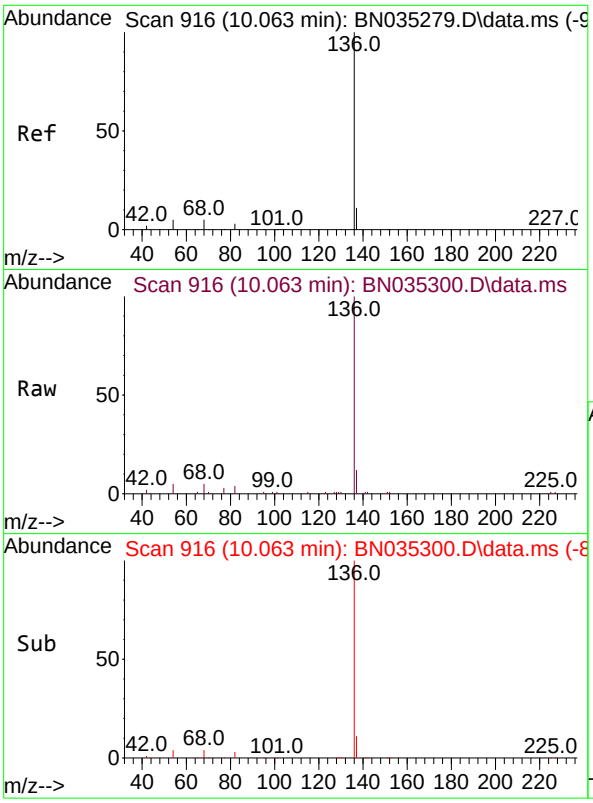


#6
bis(2-Chloroethyl)ether
Concen: 0.435 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion: 93 Resp: 3676

Ion	Ratio	Lower	Upper
93	100		
63	63.3	52.3	78.5
95	32.3	25.5	38.3



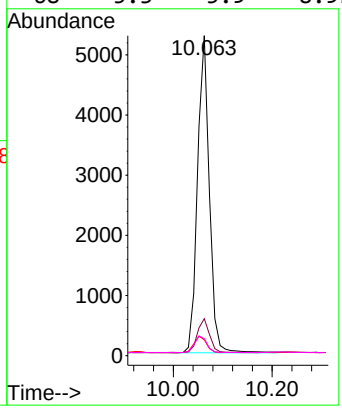


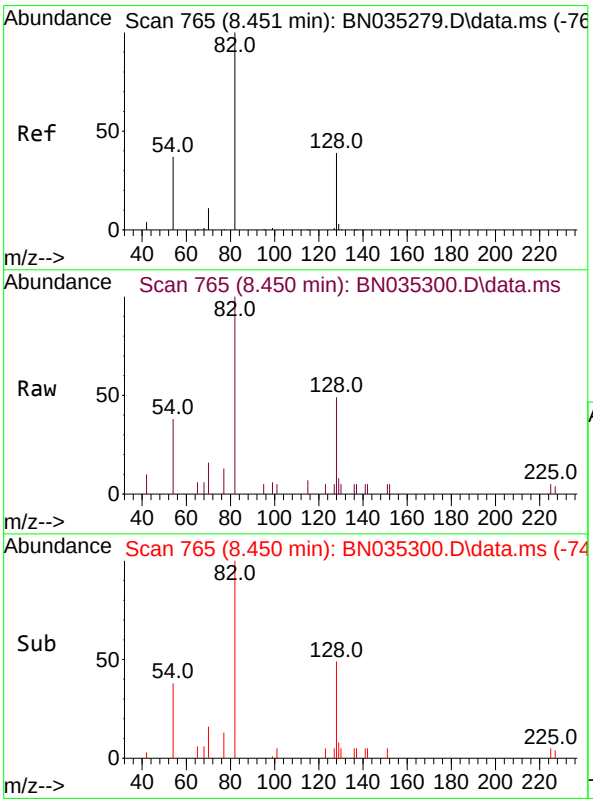
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 8746

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.7	14.5
54	5.0	5.3	7.9#
68	5.3	5.9	8.9#

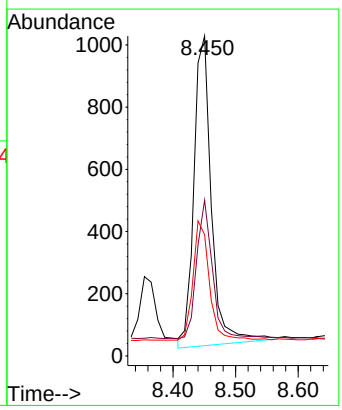


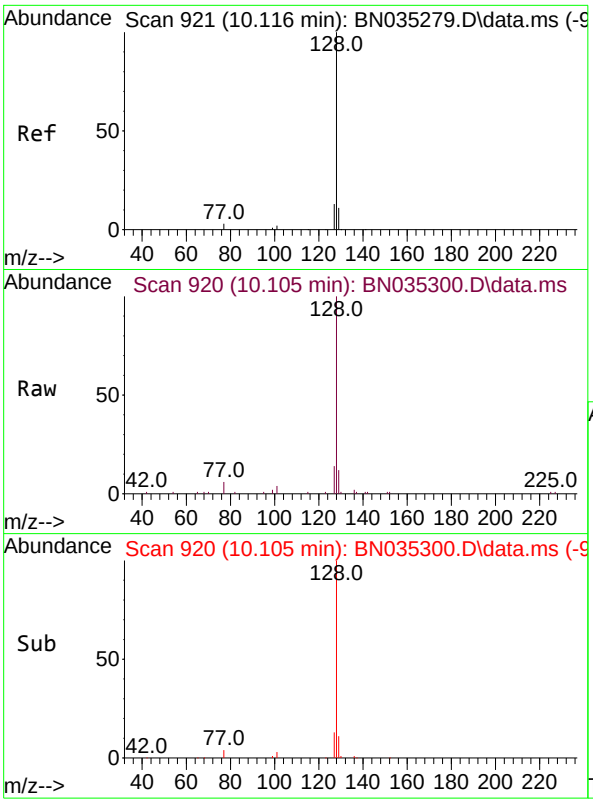


#8
Nitrobenzene-d5
Concen: 0.275 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion: 82 Resp: 1947

Ion	Ratio	Lower	Upper
82	100		
128	48.7	33.0	49.4
54	37.9	33.3	49.9



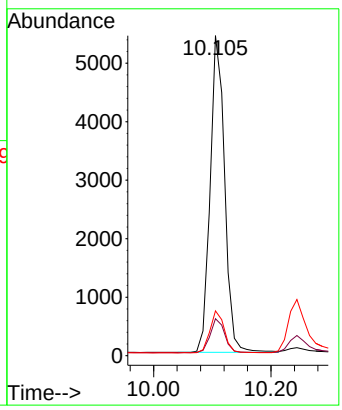


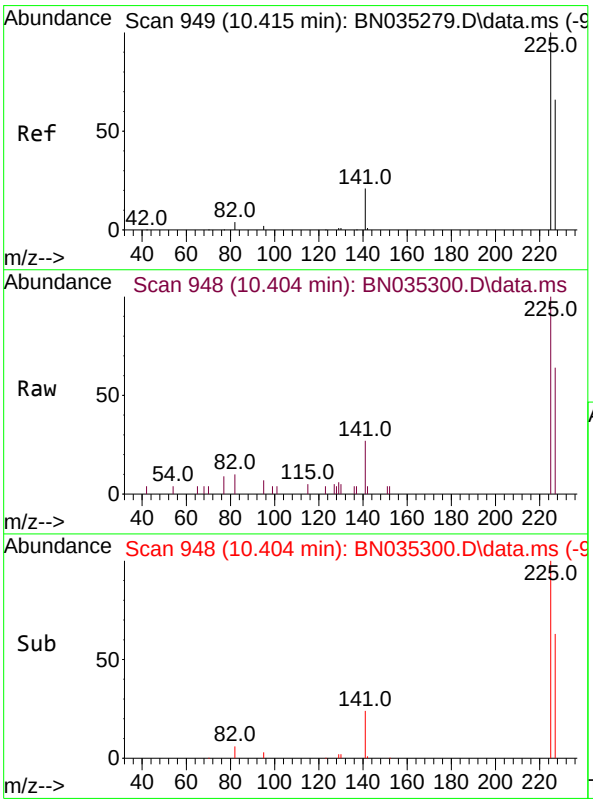
#9
Naphthalene
Concen: 0.382 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 9278

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.6	14.4
127	14.0	11.3	16.9

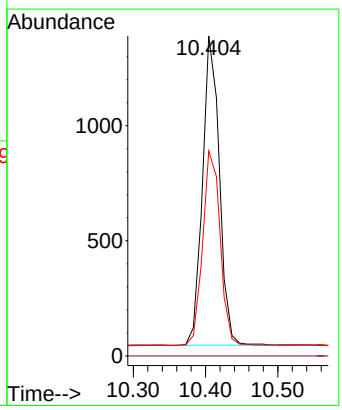


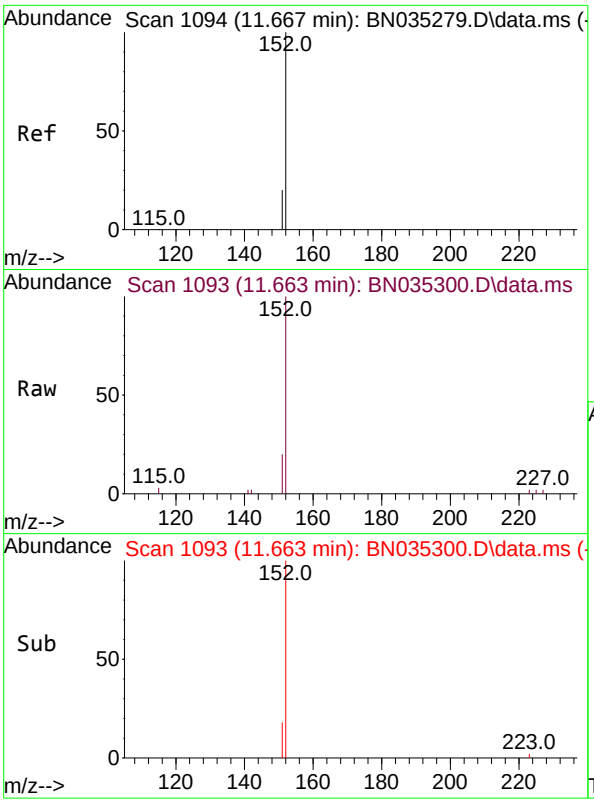


#10
Hexachlorobutadiene
Concen: 0.321 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:225 Resp: 2190

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.2	51.3	76.9



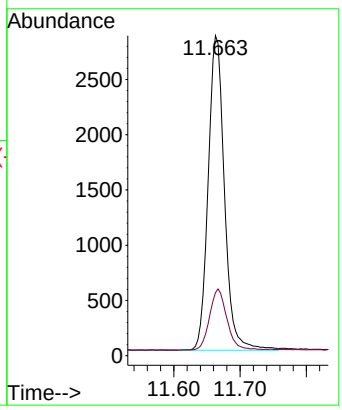


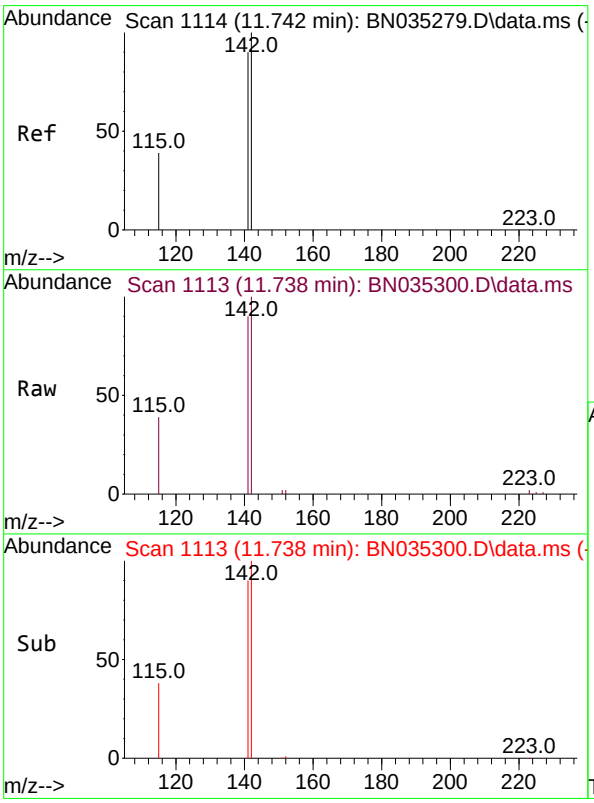
#11
2-Methylnaphthalene-d10
Concen: 0.396 ng
RT: 11.663 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4853

Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.2	25.8

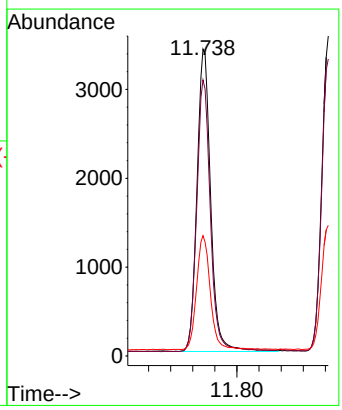


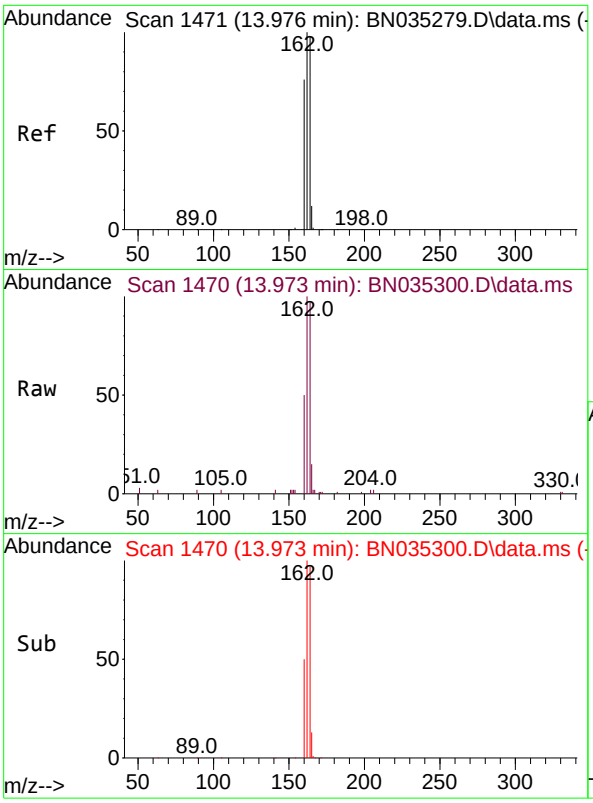


#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.738 min Scan# 1113
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:142 Resp: 5885

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.8	107.8
115	39.2	32.6	49.0



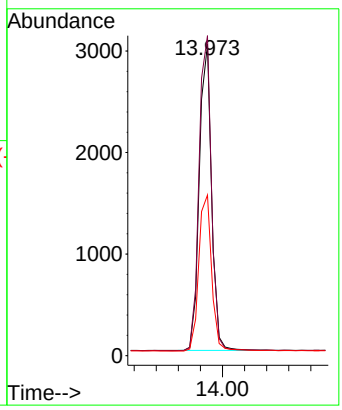


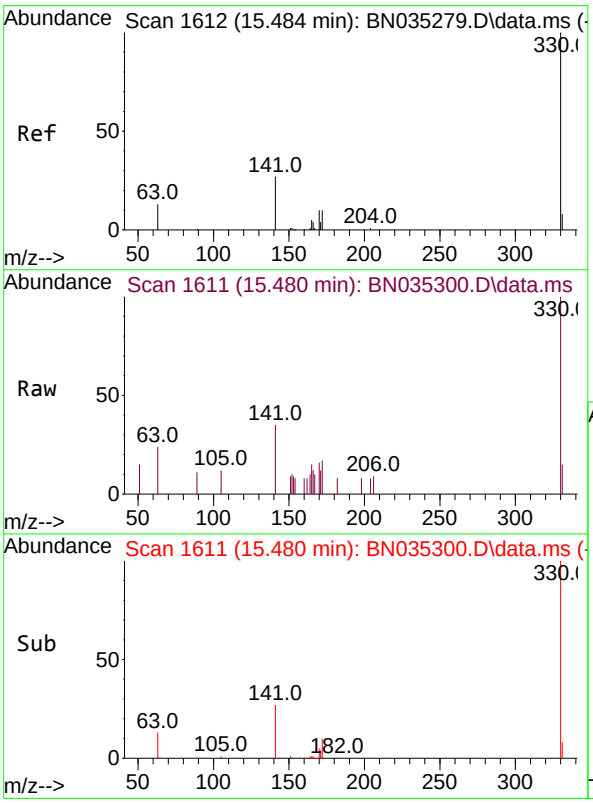
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.973 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 4650

Ion	Ratio	Lower	Upper
164	100		
162	102.8	82.0	123.0
160	51.6	63.0	94.4#

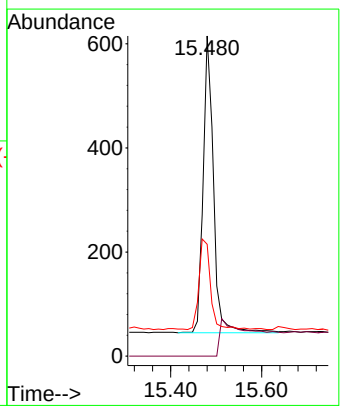


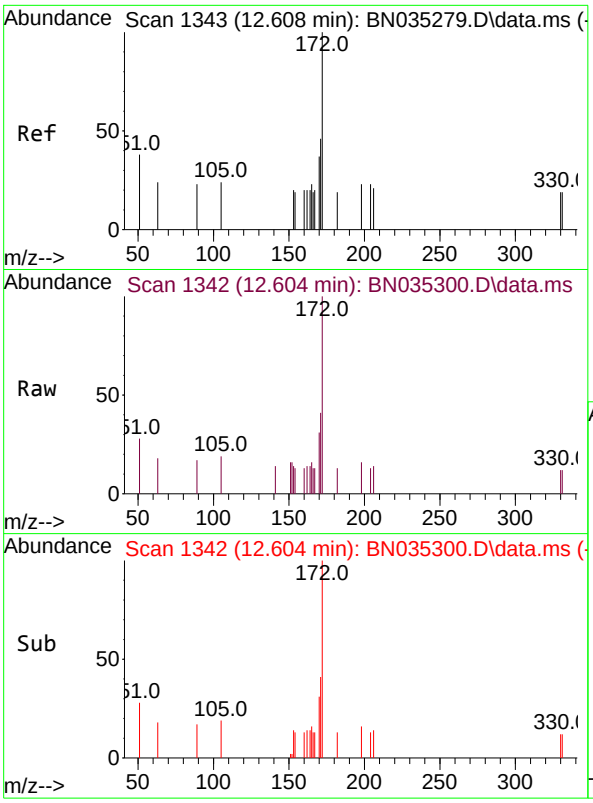


#14
2,4,6-Tribromophenol
Concen: 0.408 ng
RT: 15.480 min Scan# 1611
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:330 Resp: 969

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.5	32.4	48.6



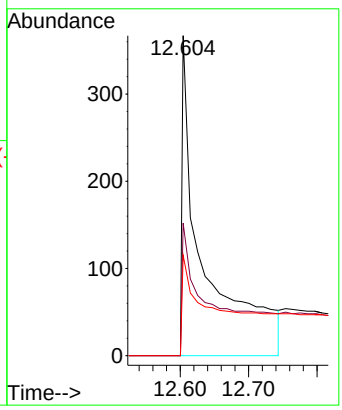


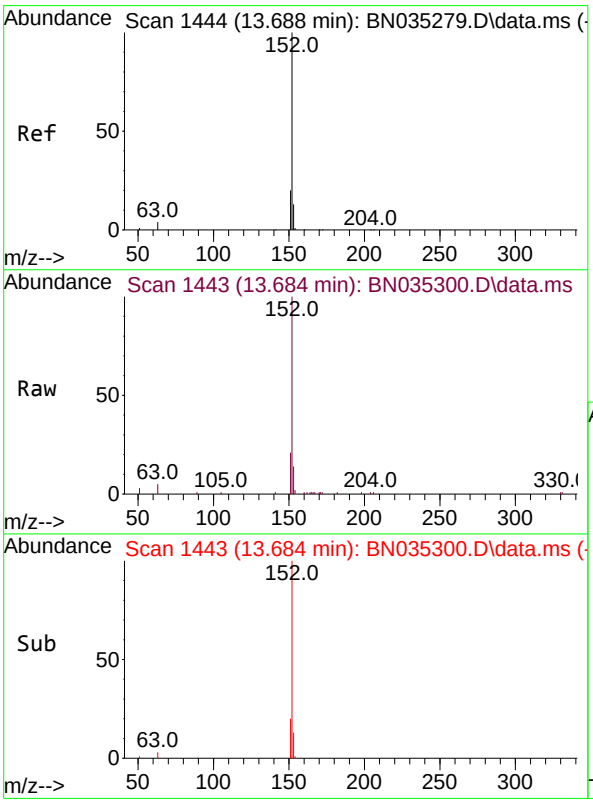
#15
2-Fluorobiphenyl
Concen: 0.310 ng
RT: 12.604 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 795

Ion	Ratio	Lower	Upper
172	100		
171	41.4	36.6	55.0
170	31.3	29.7	44.5

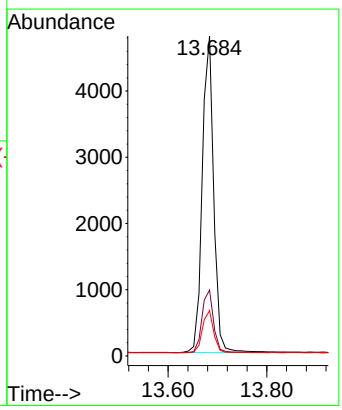


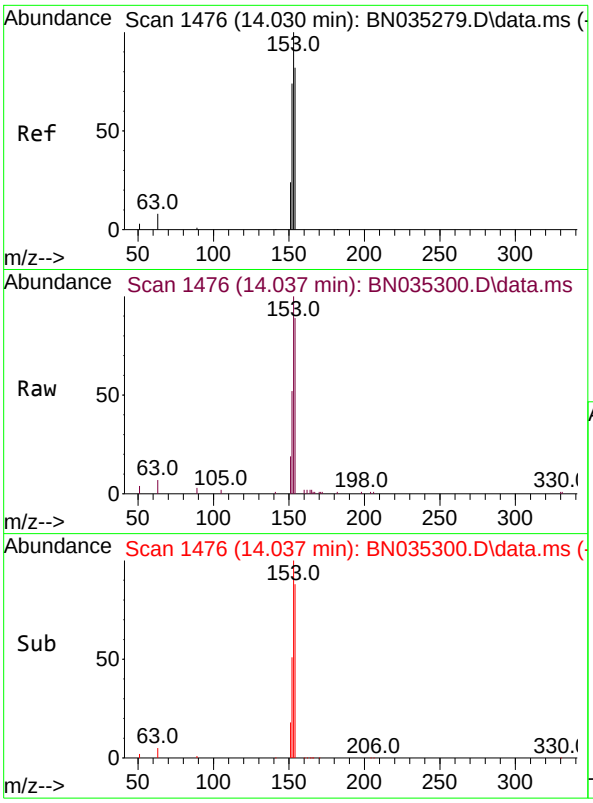


#16
Acenaphthylene
Concen: 0.328 ng
RT: 13.684 min Scan# 1443
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:152 Resp: 7671

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.9	23.9
153	13.1	10.2	15.4



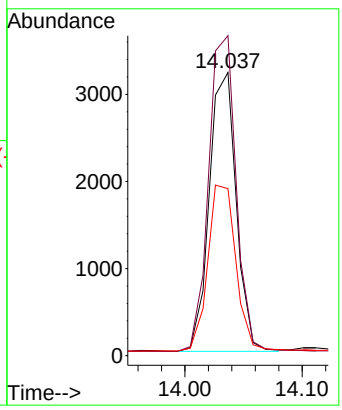


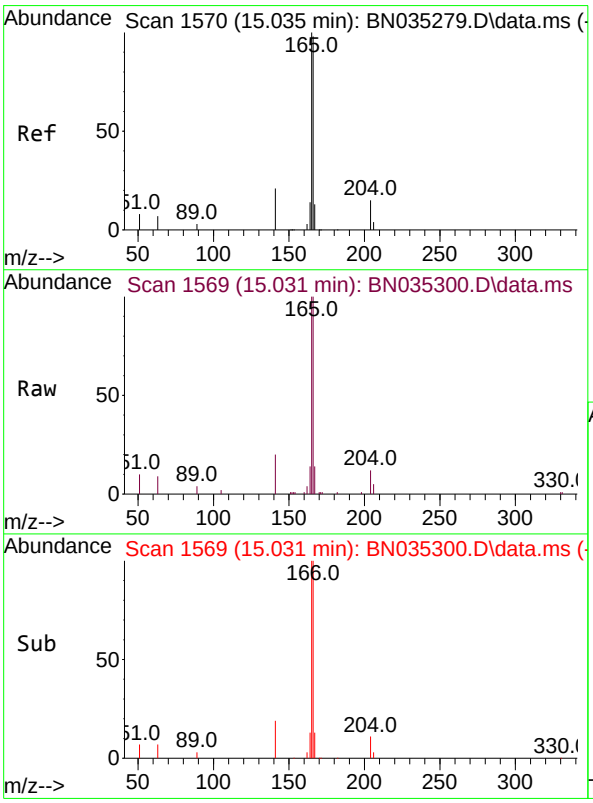
#17
Acenaphthene
Concen: 0.348 ng
RT: 14.037 min Scan# 14
Delta R.T. 0.007 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 5129

Ion	Ratio	Lower	Upper
154	100		
153	115.9	96.1	144.1
152	62.8	72.2	108.2#

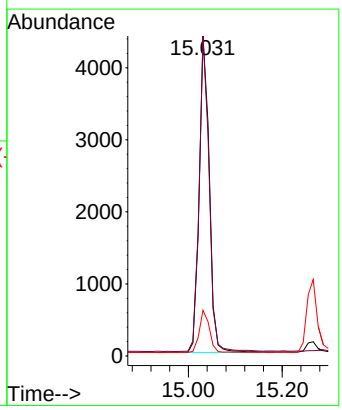


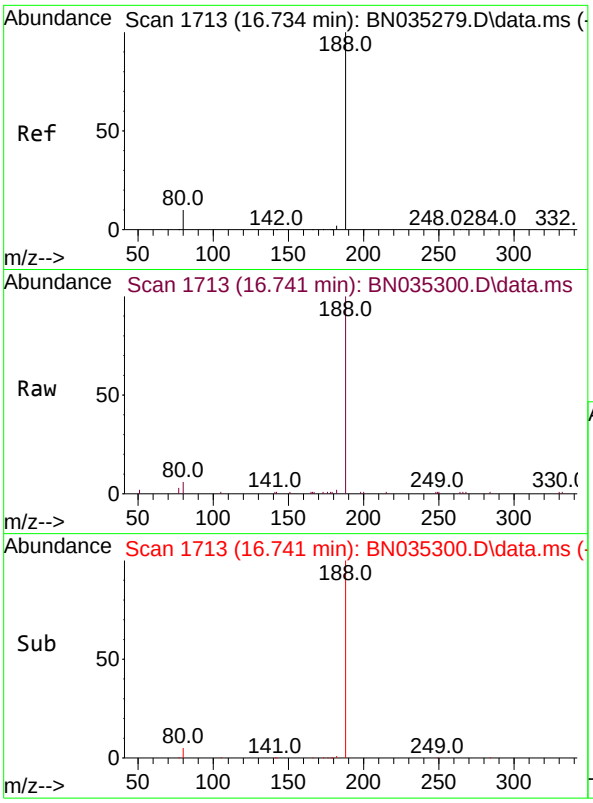


#18
Fluorene
Concen: 0.318 ng
RT: 15.031 min Scan# 1569
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:166 Resp: 6559

Ion	Ratio	Lower	Upper
166	100		
165	98.2	81.2	121.8
167	13.7	10.5	15.7



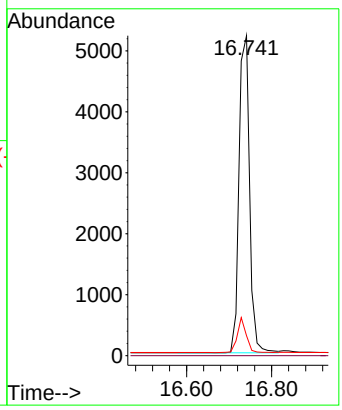


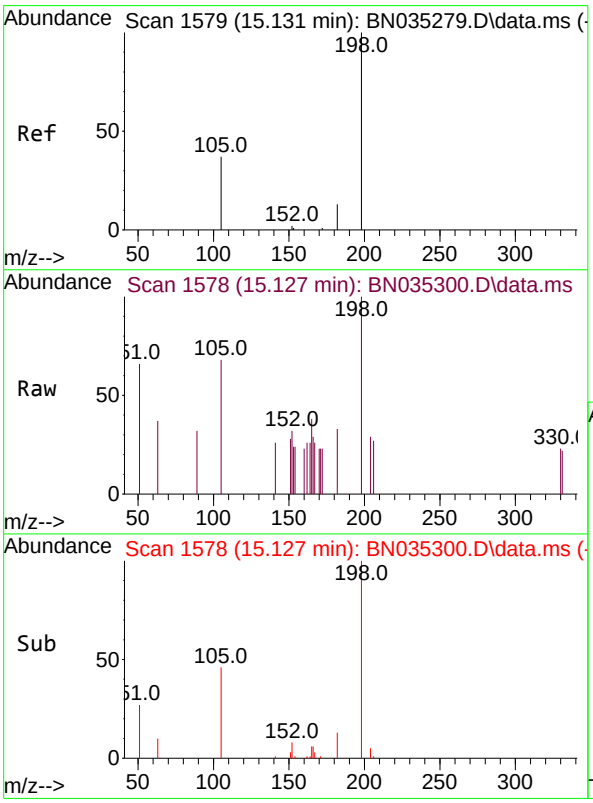
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.741 min Scan# 1
Delta R.T. 0.007 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 8944

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	8.9	13.3#

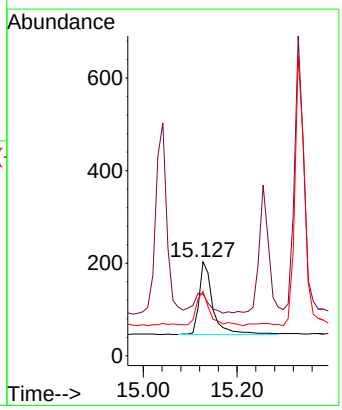


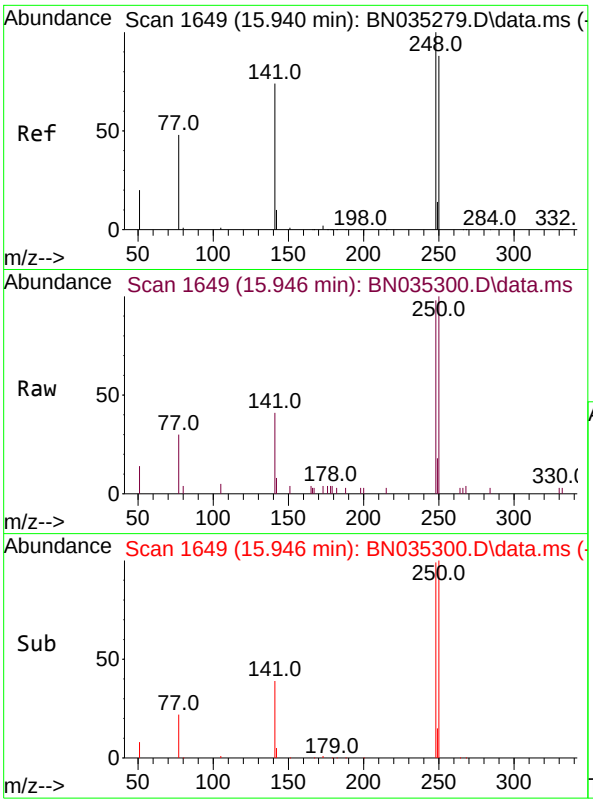


#20
4,6-Dinitro-2-methylphenol
Concen: 0.436 ng
RT: 15.127 min Scan# 1578
Delta R.T. -0.004 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:198 Resp: 319

Ion	Ratio	Lower	Upper
198	100		
51	65.5	53.6	80.4
105	68.5	47.4	71.2



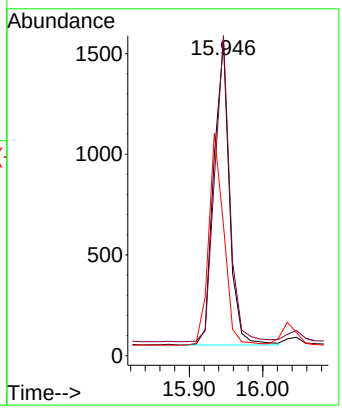


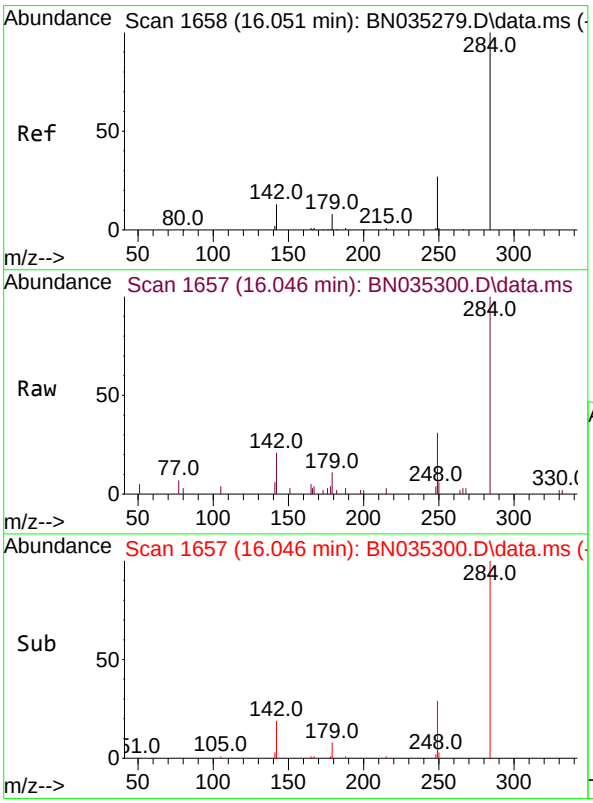
#21
4-Bromophenyl-phenylether
Concen: 0.394 ng
RT: 15.946 min Scan# 1
Delta R.T. 0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2233

Ion	Ratio	Lower	Upper
248	100		
250	102.1	74.8	112.2
141	41.6	59.0	88.4#

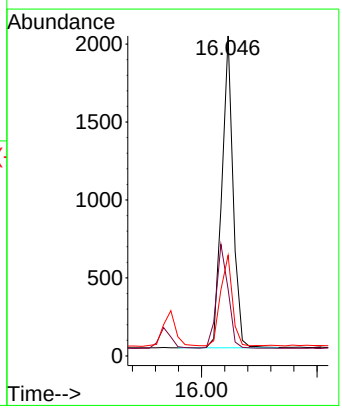


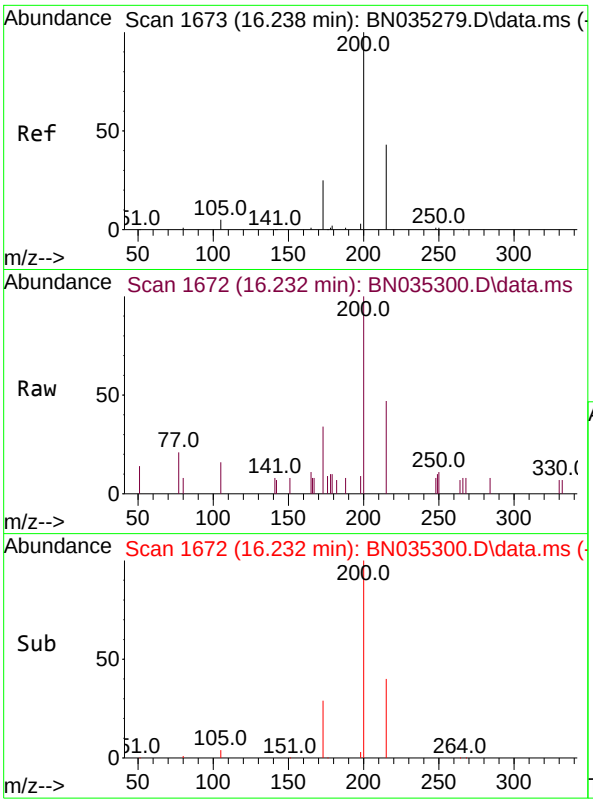


#22
Hexachlorobenzene
Concen: 0.335 ng
RT: 16.046 min Scan# 1657
Delta R.T. -0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:284 Resp: 2720

Ion	Ratio	Lower	Upper
284	100		
142	34.9	28.7	43.1
249	30.4	25.4	38.0



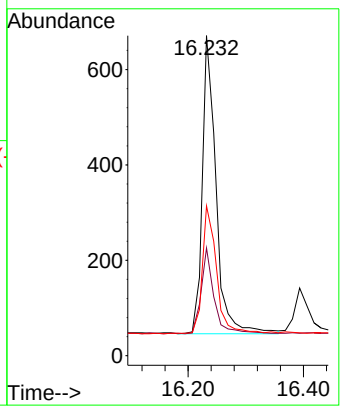


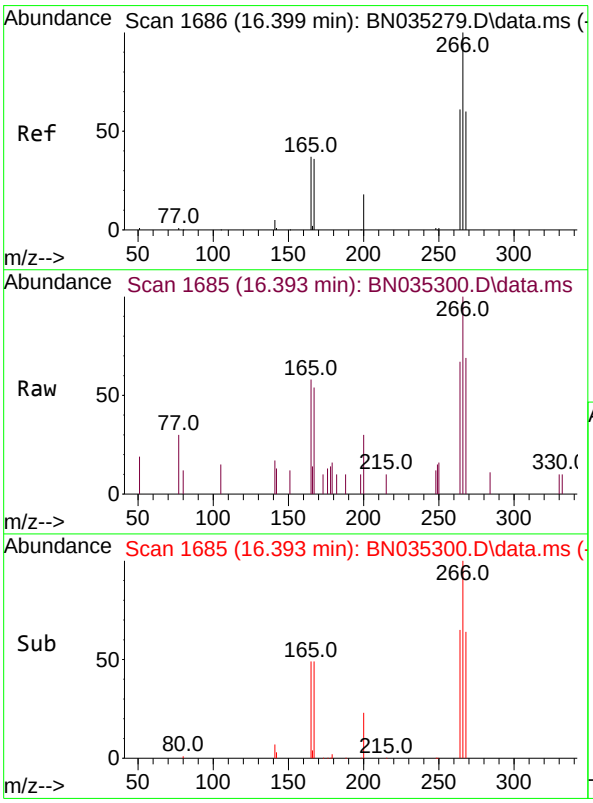
#23
Atrazine
Concen: 0.431 ng
RT: 16.232 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1031

Ion	Ratio	Lower	Upper
200	100		
173	33.7	25.8	38.8
215	46.8	38.6	58.0

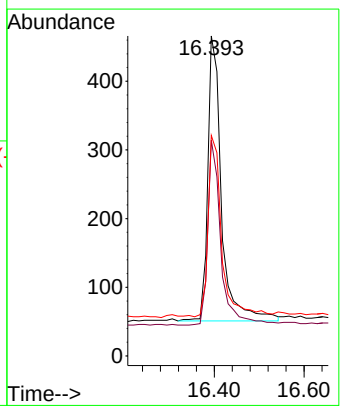


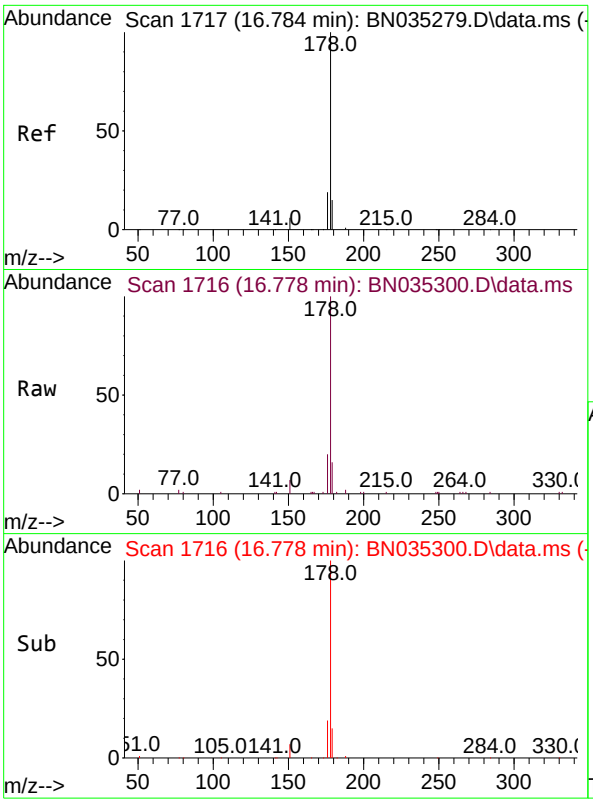


#24
Pentachlorophenol
Concen: 0.450 ng
RT: 16.393 min Scan# 1685
Delta R.T. -0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:266 Resp: 878

Ion	Ratio	Lower	Upper
266	100		
264	61.7	49.3	73.9
268	63.4	48.6	73.0



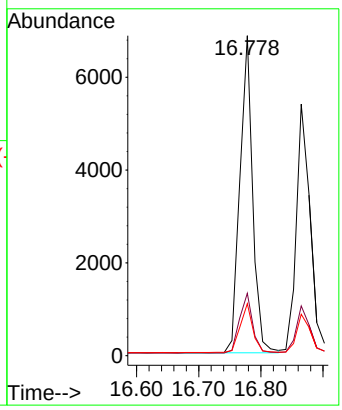


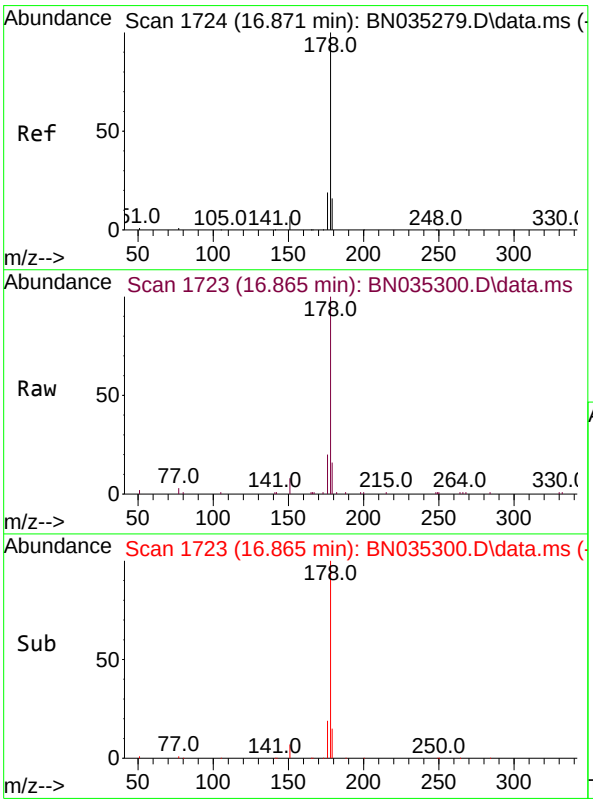
#25
Phenanthrene
Concen: 0.356 ng
RT: 16.778 min Scan# 1
Delta R.T. -0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 9774

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.5	12.6	18.8

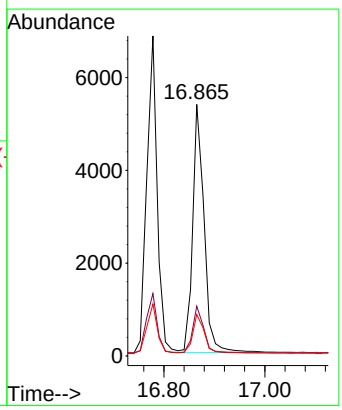


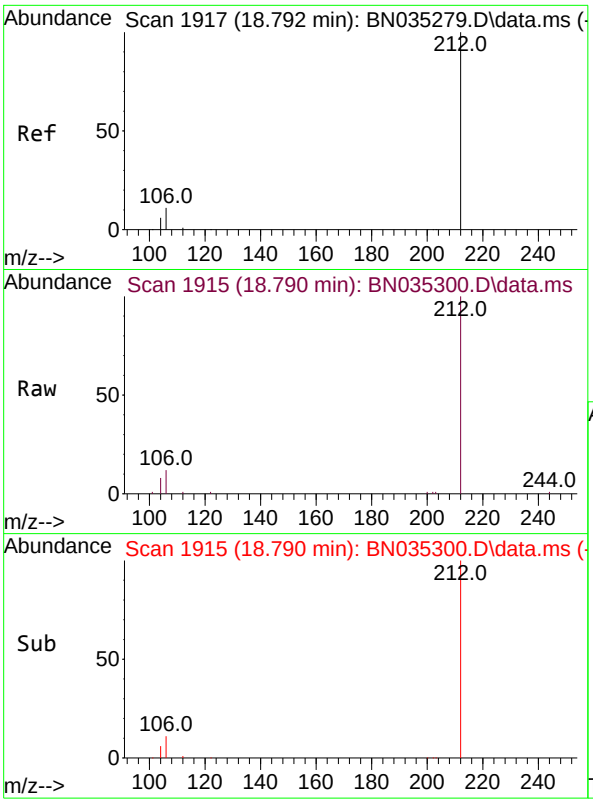


#26
Anthracene
Concen: 0.357 ng
RT: 16.865 min Scan# 1723
Delta R.T. -0.006 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:178 Resp: 8425

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	15.5	12.4	18.6



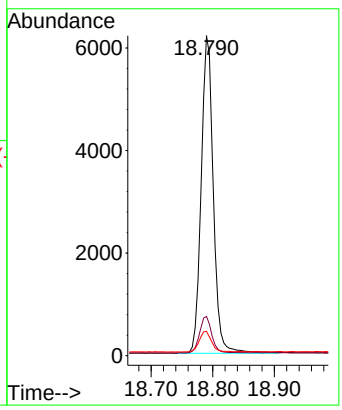


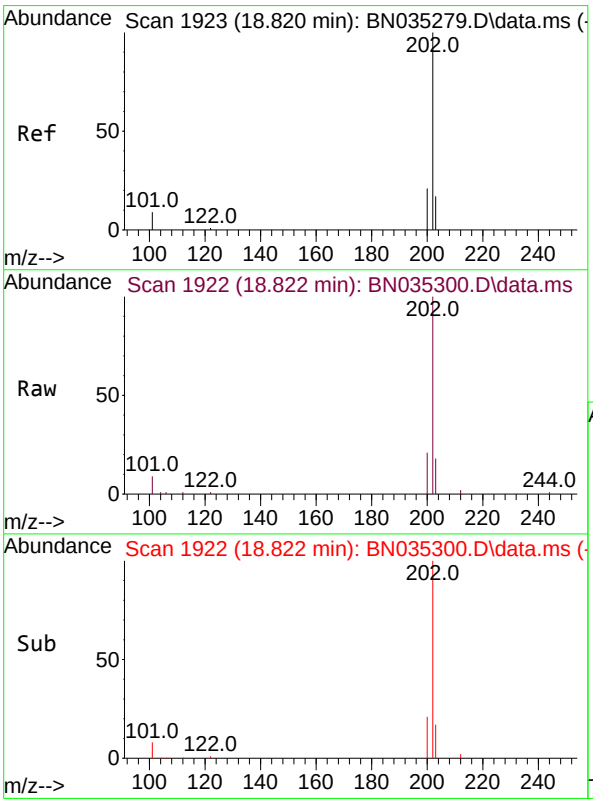
#27
Fluoranthene-d10
Concen: 0.353 ng
RT: 18.790 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 8444

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.8	14.8
104	6.8	5.6	8.4

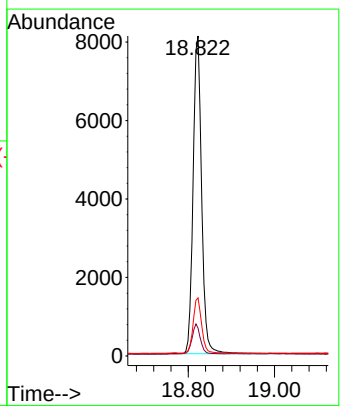


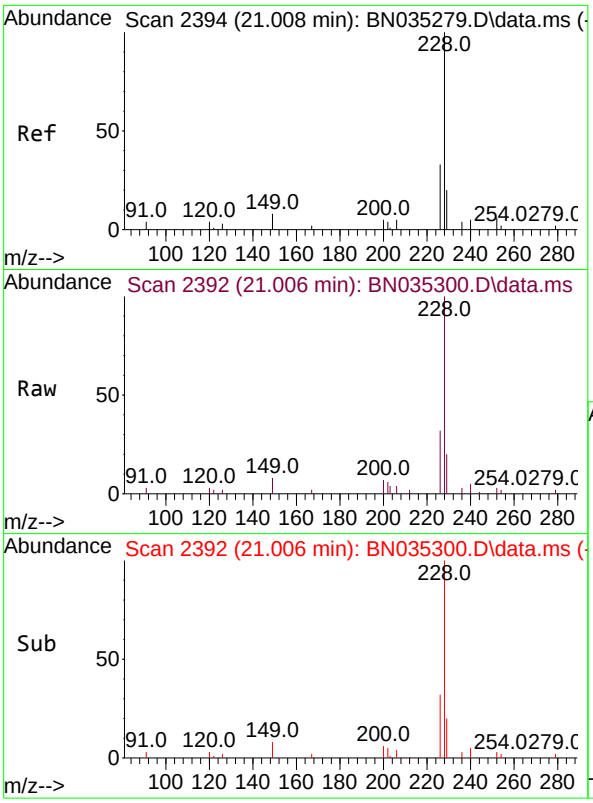


#28
Fluoranthene
Concen: 0.319 ng
RT: 18.822 min Scan# 1922
Delta R.T. 0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:202 Resp: 11052

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.6	11.4
203	17.1	13.8	20.8



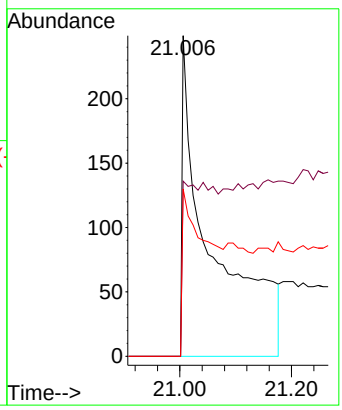


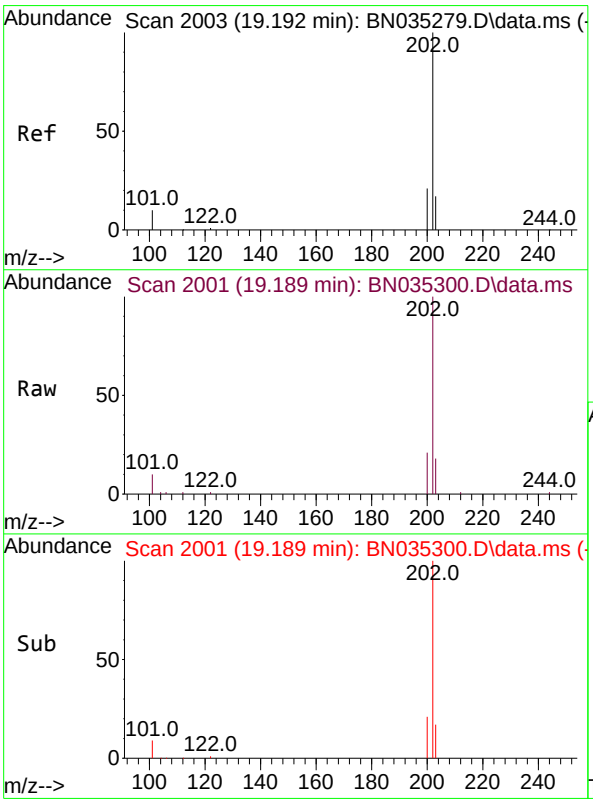
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.006 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 871

Ion	Ratio	Lower	Upper
240	100		
120	54.6	54.9	82.3#
236	52.2	54.0	81.0#

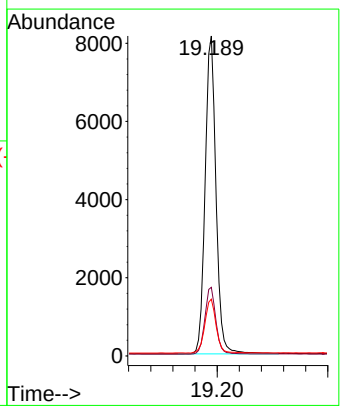


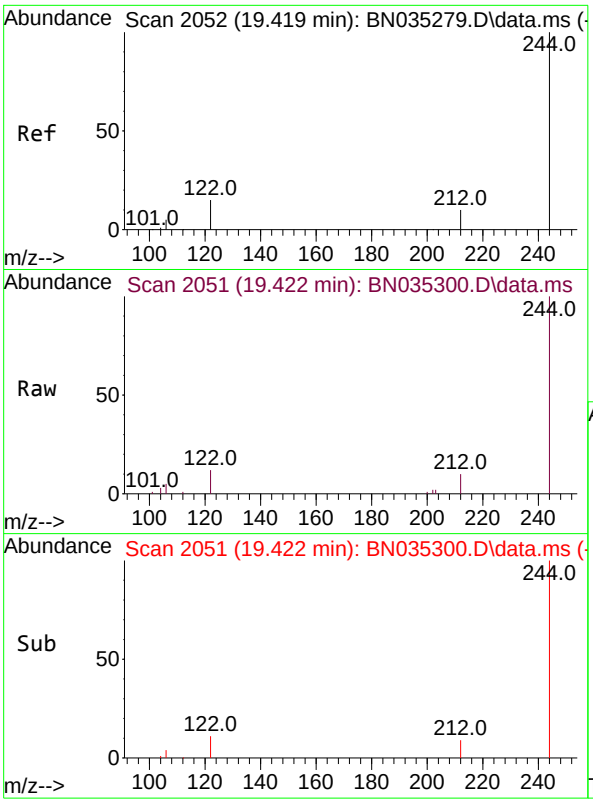


#30
Pyrene
Concen: 0.351 ng
RT: 19.189 min Scan# 2001
Delta R.T. -0.003 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:202 Resp: 11118

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.6	14.4	21.6



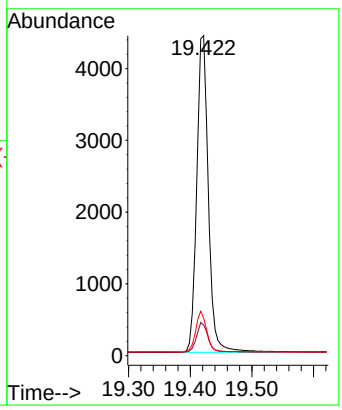


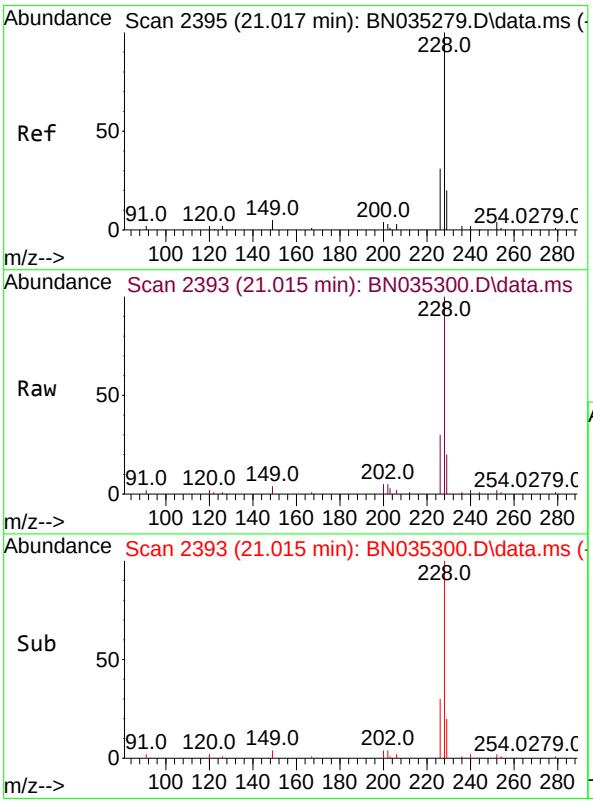
#31
Terphenyl-d14
Concen: 0.361 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 5811

Ion	Ratio	Lower	Upper
244	100		
212	9.6	9.4	14.0
122	11.8	13.0	19.4#

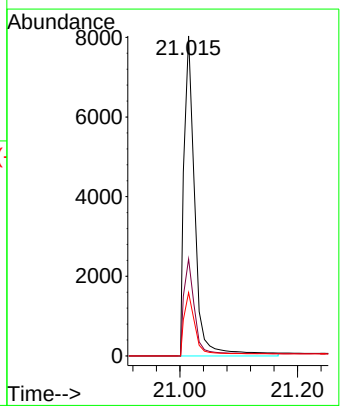


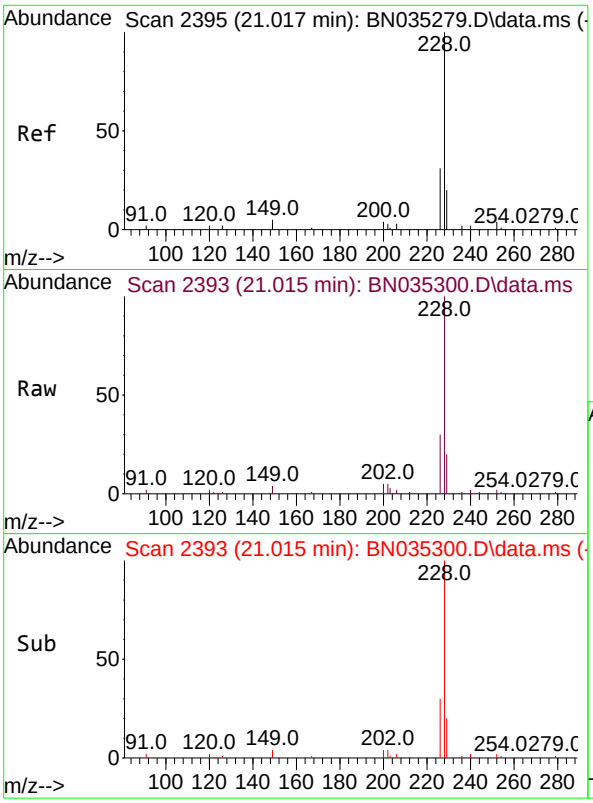


#32
Benzo(a)anthracene
Concen: 0.342 ng
RT: 21.015 min Scan# 2393
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:228 Resp: 10362

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.7	37.1
229	19.8	16.2	24.2



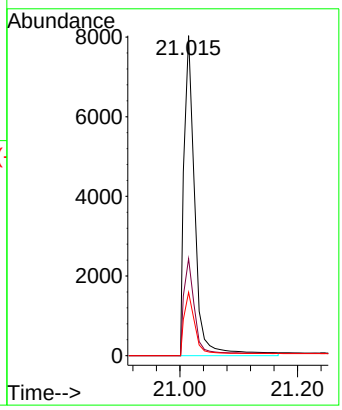


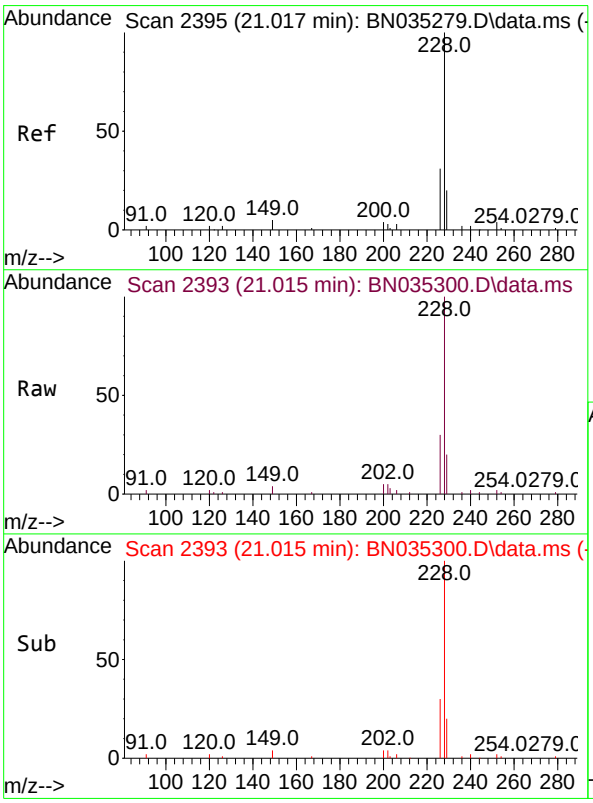
#33
Chrysene
Concen: 0.342 ng
RT: 21.015 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 10362

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.7	37.1
229	19.8	16.2	24.2

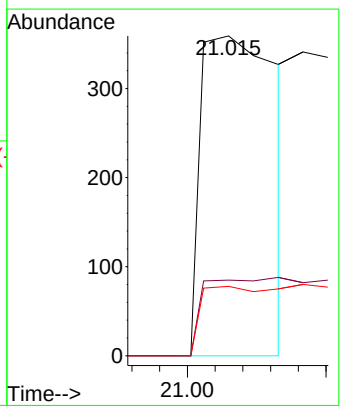


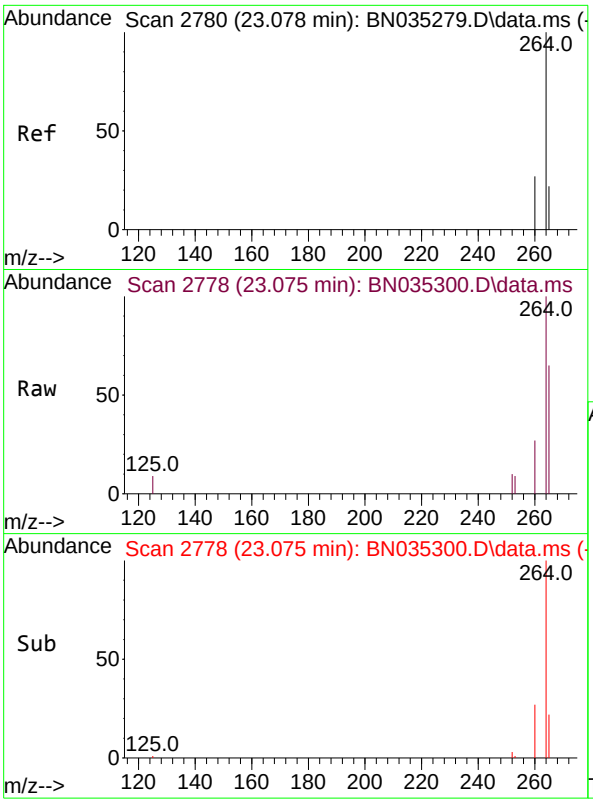


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.358 ng
RT: 21.015 min Scan# 2393
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:149 Resp: 596

Ion	Ratio	Lower	Upper
149	100		
167	32.0	0.0	0.0#
279	15.4	13.0	19.6



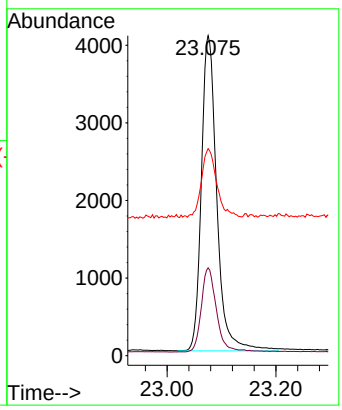


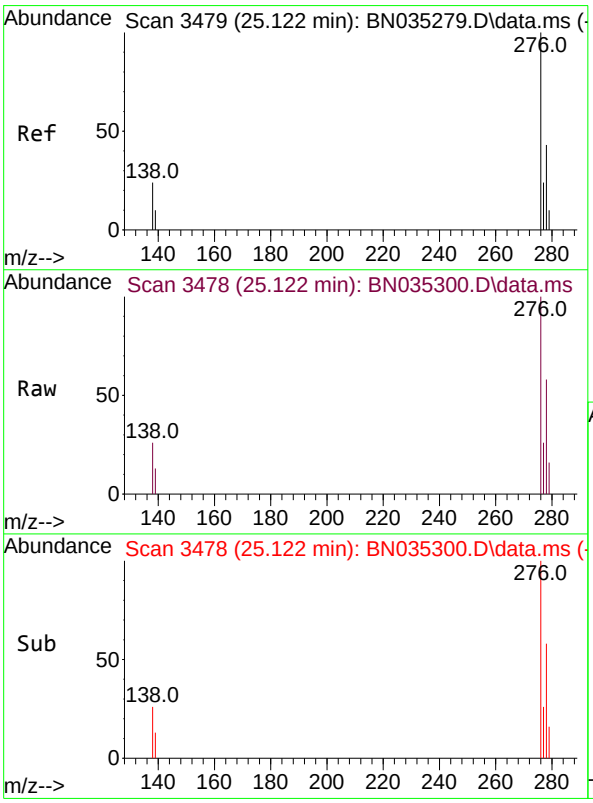
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.075 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 8001

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.3	33.5
265	64.7	68.6	103.0#

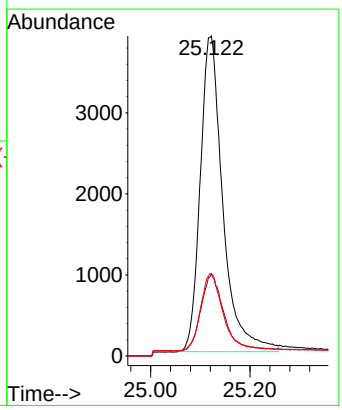


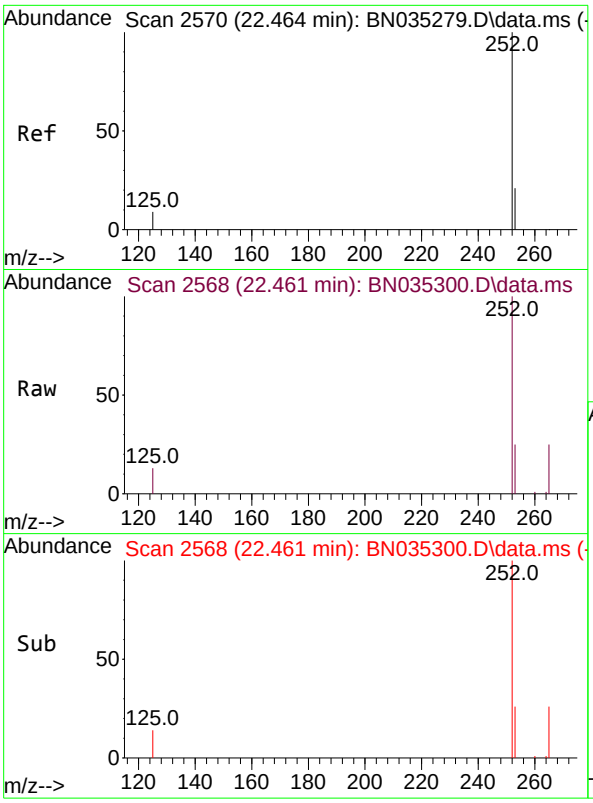


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.122 min Scan# 3478
Delta R.T. 0.000 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:276 Resp: 12330

Ion	Ratio	Lower	Upper
276	100		
138	23.7	18.8	28.2
277	24.0	18.2	27.4



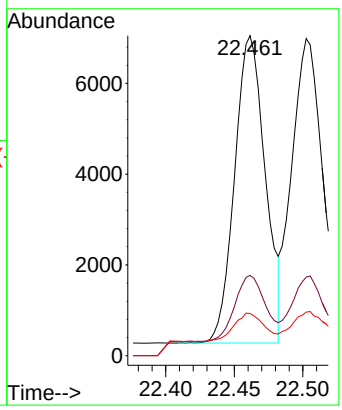


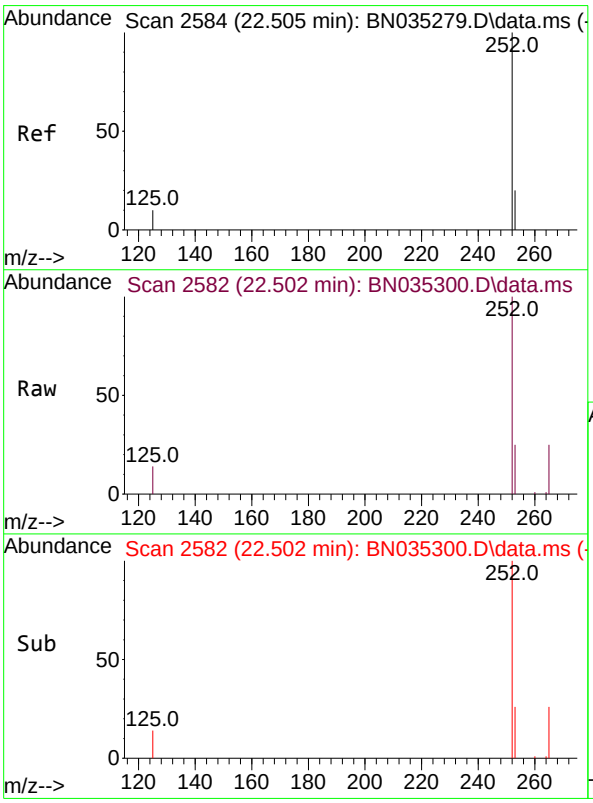
#37
Benzo(b)fluoranthene
Concen: 0.302 ng
RT: 22.461 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 10486

Ion	Ratio	Lower	Upper
252	100		
253	25.1	20.2	30.2
125	13.2	12.0	18.0

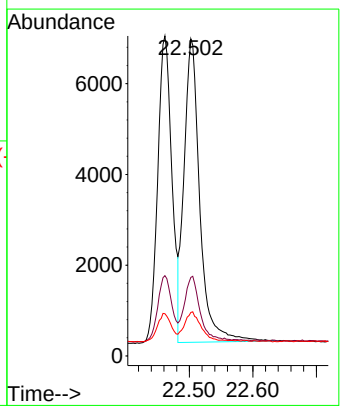


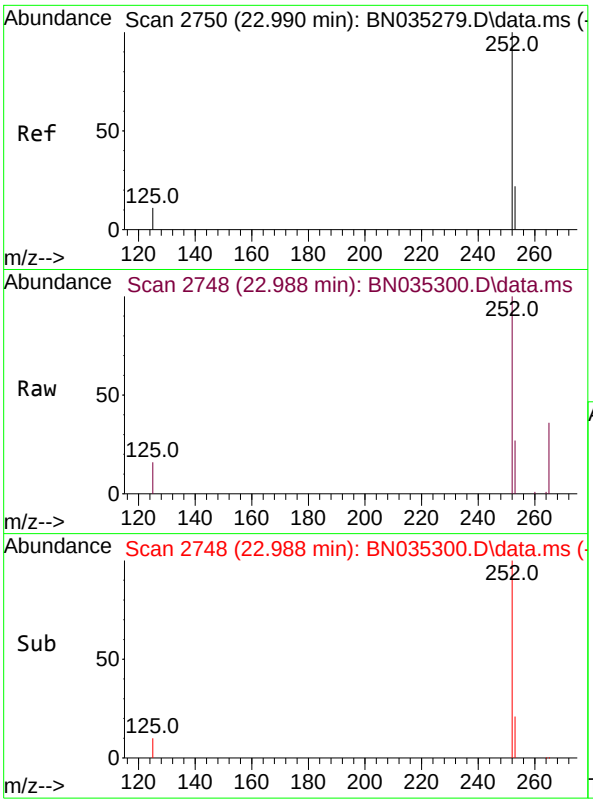


#38
Benzo(k)fluoranthene
Concen: 0.313 ng
RT: 22.502 min Scan# 2582
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:252 Resp: 11527

Ion	Ratio	Lower	Upper
252	100		
253	24.8	20.1	30.1
125	13.7	12.7	19.1



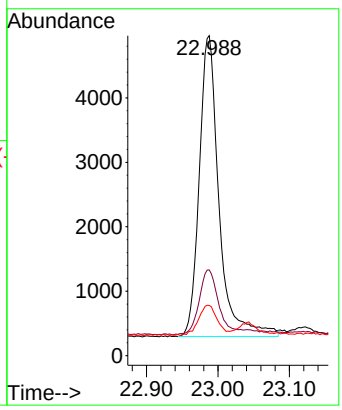


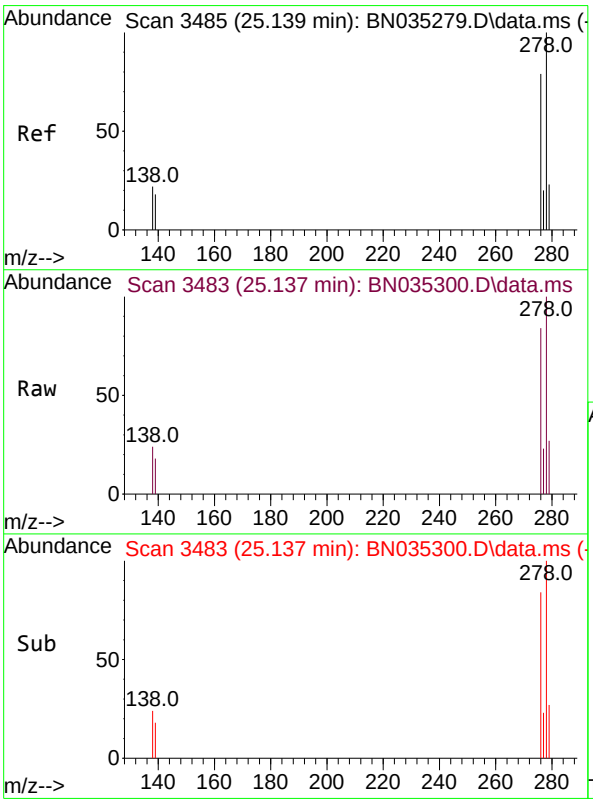
#39
Benzo(a)pyrene
Concen: 0.337 ng
RT: 22.988 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 8958

Ion	Ratio	Lower	Upper
252	100		
253	26.8	22.3	33.5
125	15.7	15.3	22.9

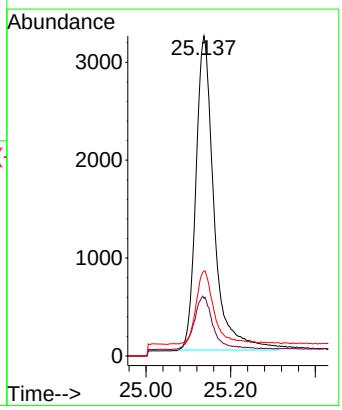


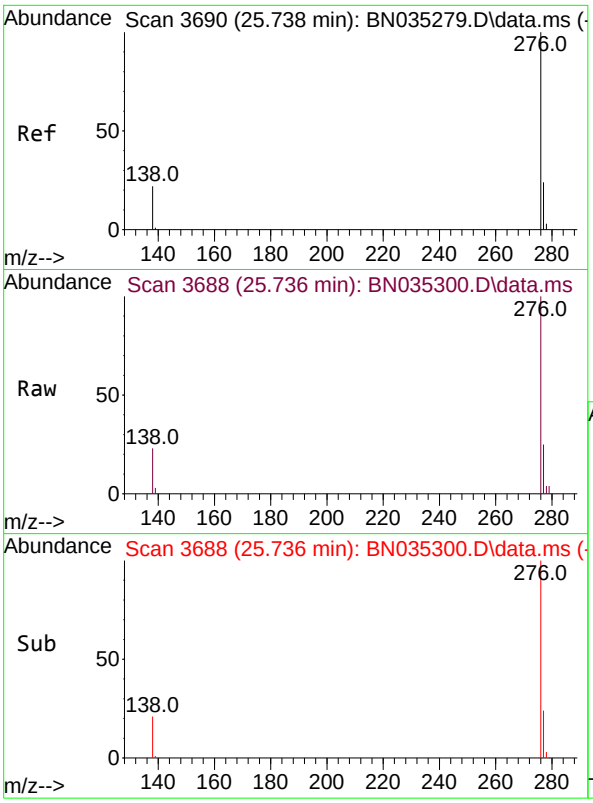


#40
Dibenzo(a,h)anthracene
Concen: 0.386 ng
RT: 25.137 min Scan# 3483
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Tgt Ion:278 Resp: 9558

Ion	Ratio	Lower	Upper
278	100		
139	18.0	17.0	25.6
279	26.6	23.0	34.4



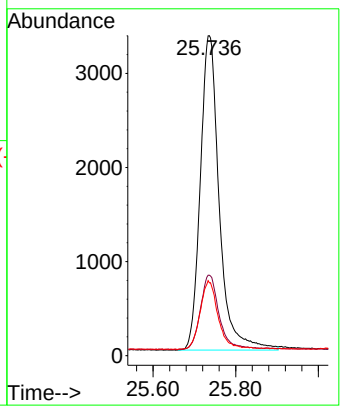


#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 25.736 min Scan# 3
Delta R.T. -0.002 min
Lab File: BN035300.D
Acq: 26 Nov 2024 03:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 10647

Ion	Ratio	Lower	Upper
276	100		
277	25.2	21.1	31.7
138	22.7	19.8	29.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

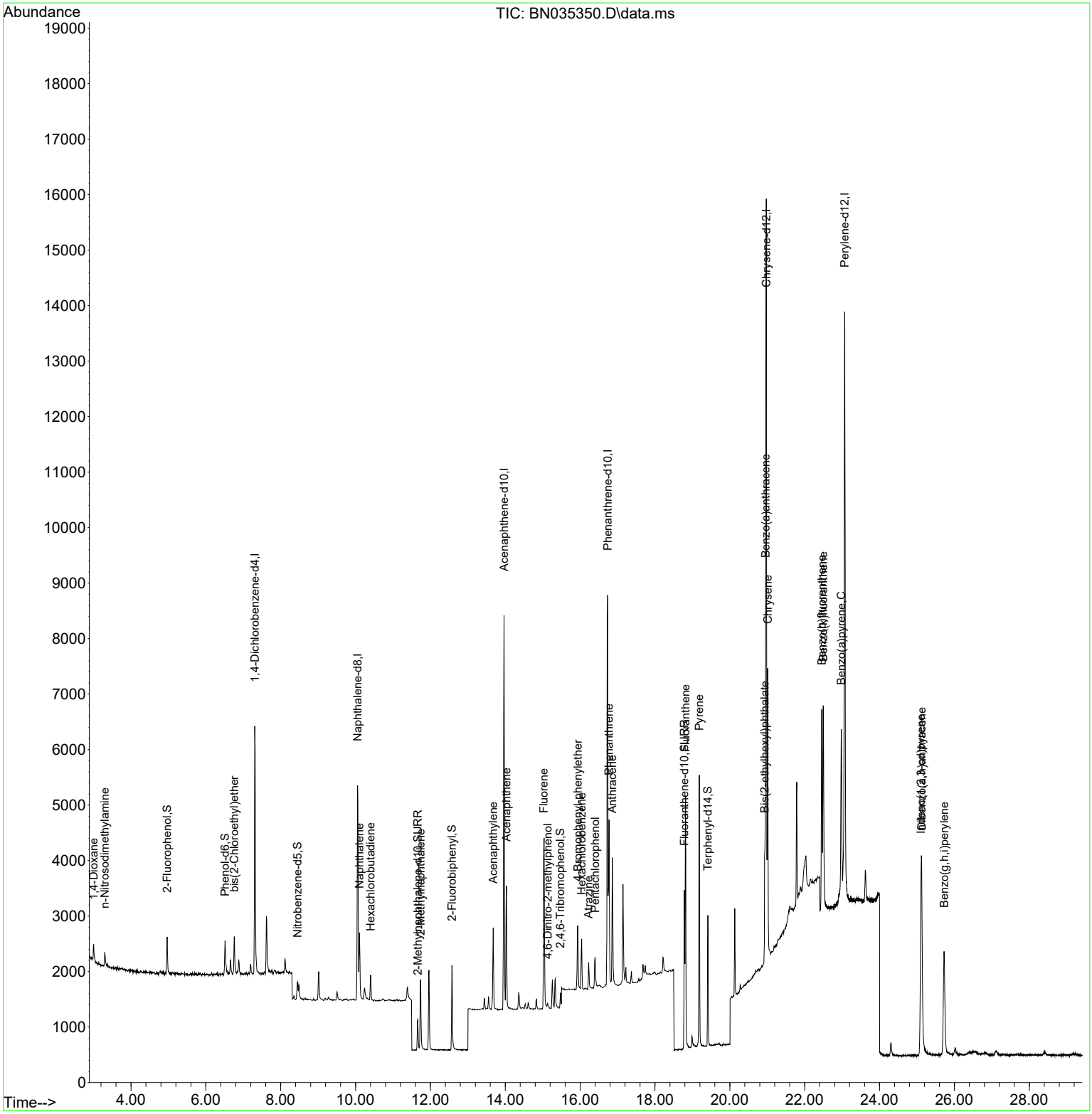
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng		0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng		0.00
35) Perylene-d12	23.067	264	13004	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	573	0.101	ng		0.00
5) Phenol-d6	6.513	99	686	0.096	ng		0.00
8) Nitrobenzene-d5	8.450	82	492	0.098	ng		0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng		0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng		0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	227	0.112	ng	#	87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	#	90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng		98
9) Naphthalene	10.105	128	1527	0.102	ng	#	91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	#	97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng		96
16) Acenaphthylene	13.679	152	1675	0.096	ng		100
17) Acenaphthene	14.031	154	1143	0.100	ng		99
18) Fluorene	15.026	166	1620	0.096	ng		98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	#	29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	#	94
22) Hexachlorobenzene	16.041	284	720	0.100	ng		97
23) Atrazine	16.227	200	421	0.068	ng	#	86
24) Pentachlorophenol	16.401	266	381	0.114	ng		90
25) Phenanthrene	16.773	178	2963	0.104	ng		99
26) Anthracene	16.860	178	2617	0.100	ng		98
28) Fluoranthene	18.817	202	4173	0.106	ng		99
30) Pyrene	19.184	202	4461	0.119	ng		100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng		99
33) Chrysene	21.010	228	4123	0.106	ng		97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng		99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng		97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	#	82
38) Benzo(k)fluoranthene	22.494	252	4378	0.100	ng	#	80
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	#	69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	#	86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	#	93

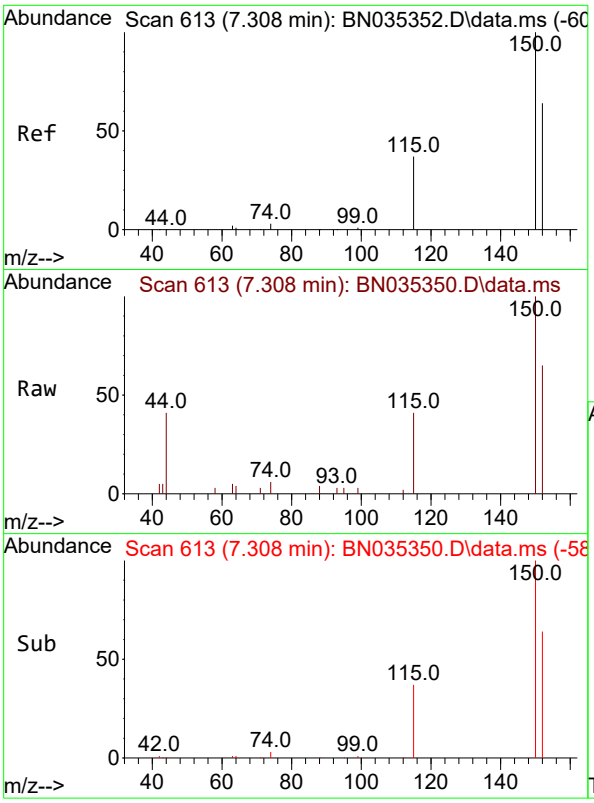
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



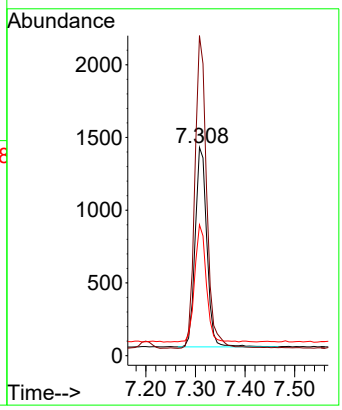


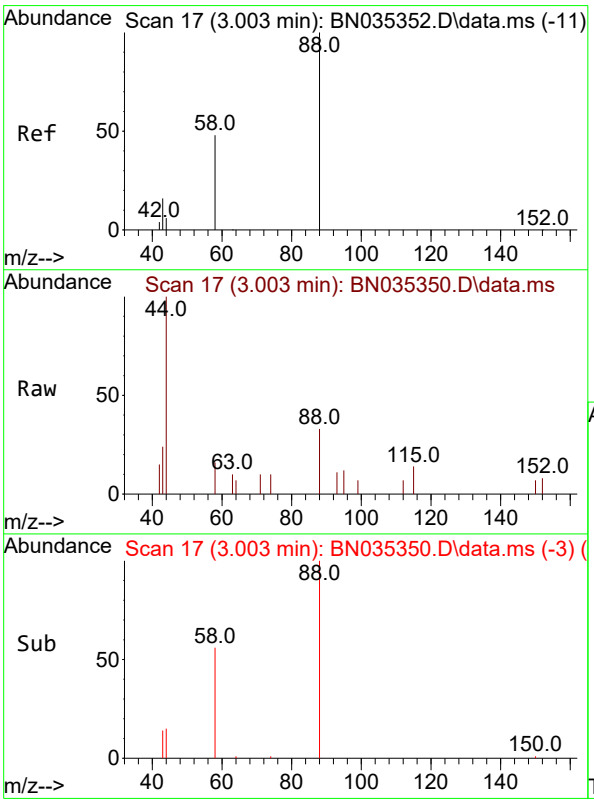
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2237

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.8	49.6	74.4

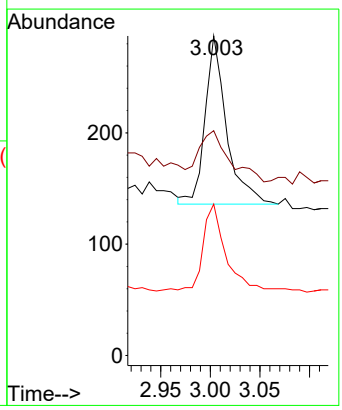


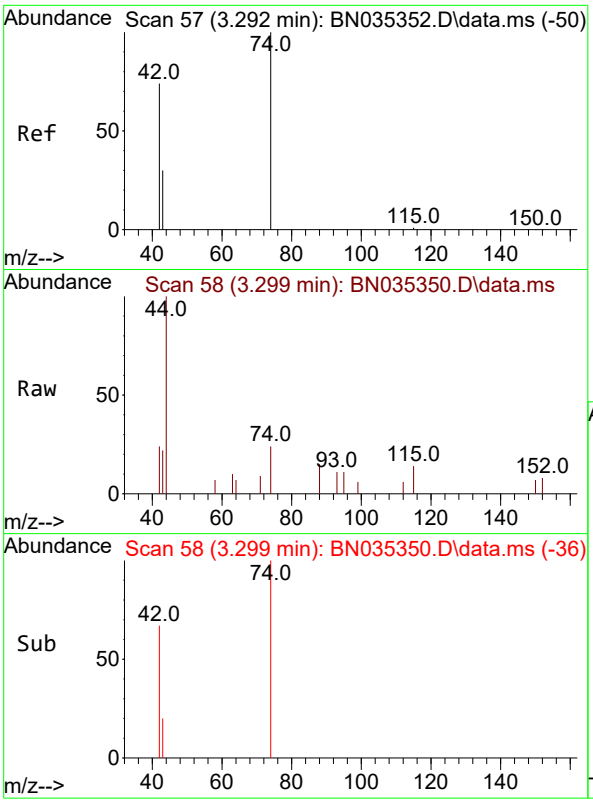


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227

Ion	Ratio	Lower	Upper
88	100		
43	41.4	17.2	25.8#
58	54.6	44.5	66.7



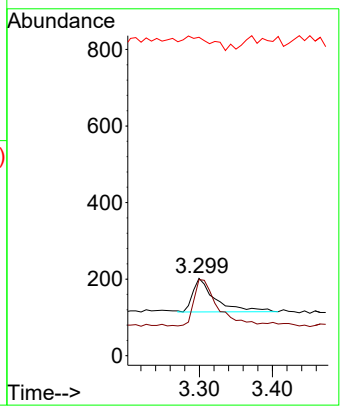


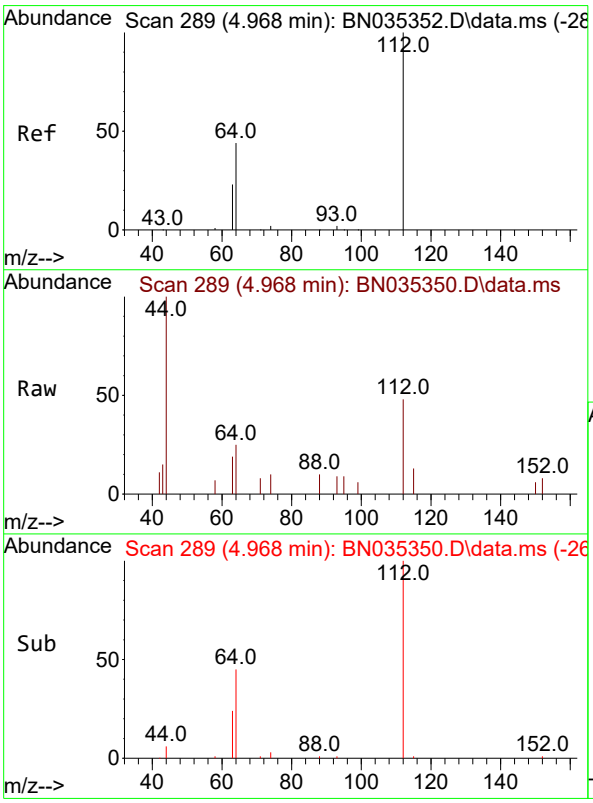
#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 187

Ion	Ratio	Lower	Upper
42	100		
74	146.5	124.9	187.3
44	51.9	2.2	3.4#

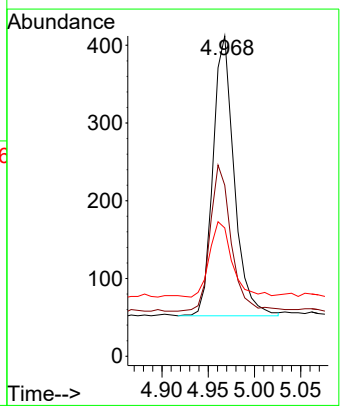


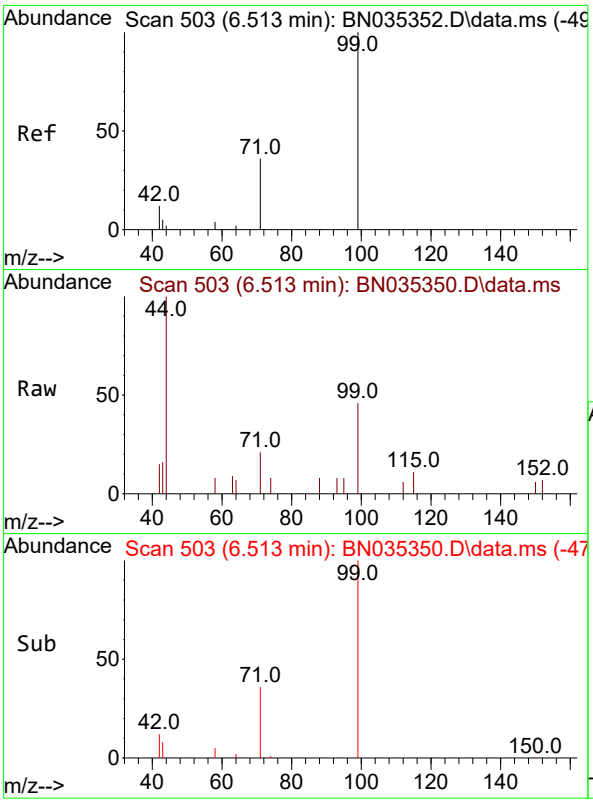


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.8	21.0	31.6



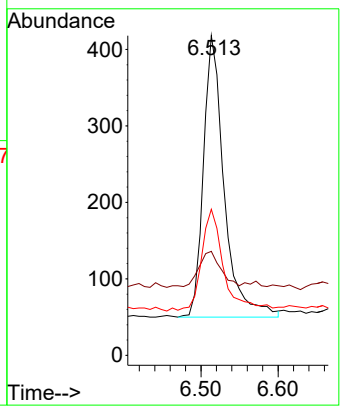


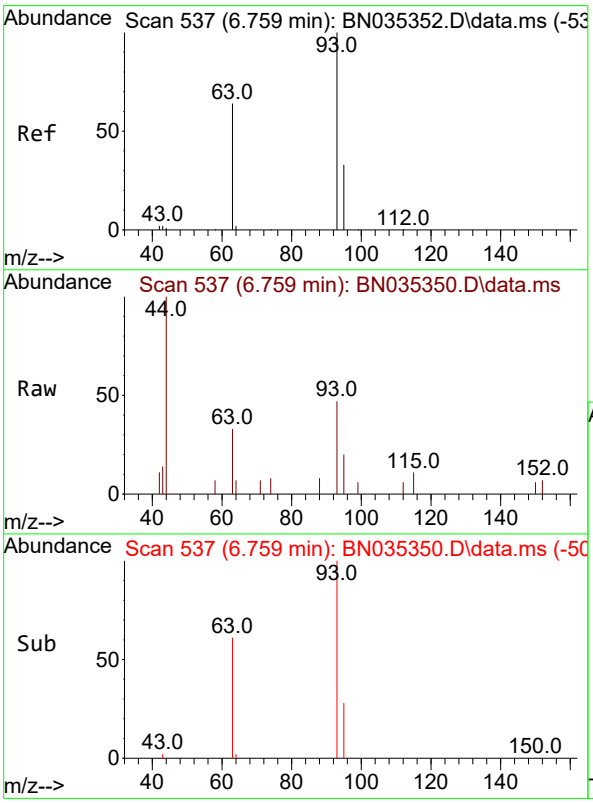
#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 686

Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.9	29.3	43.9

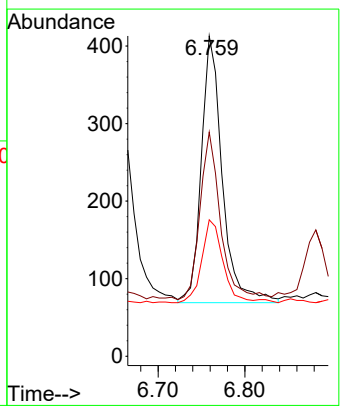


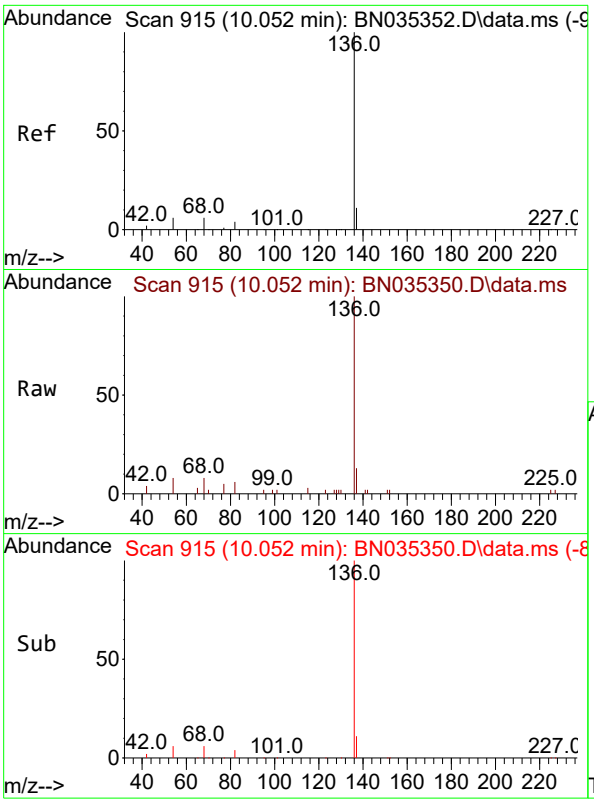


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

Ion	Ratio	Lower	Upper
93	100		
63	61.7	50.4	75.6
95	31.3	25.7	38.5



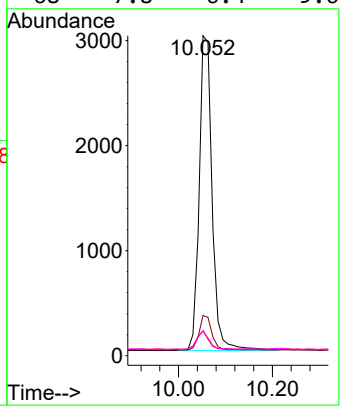


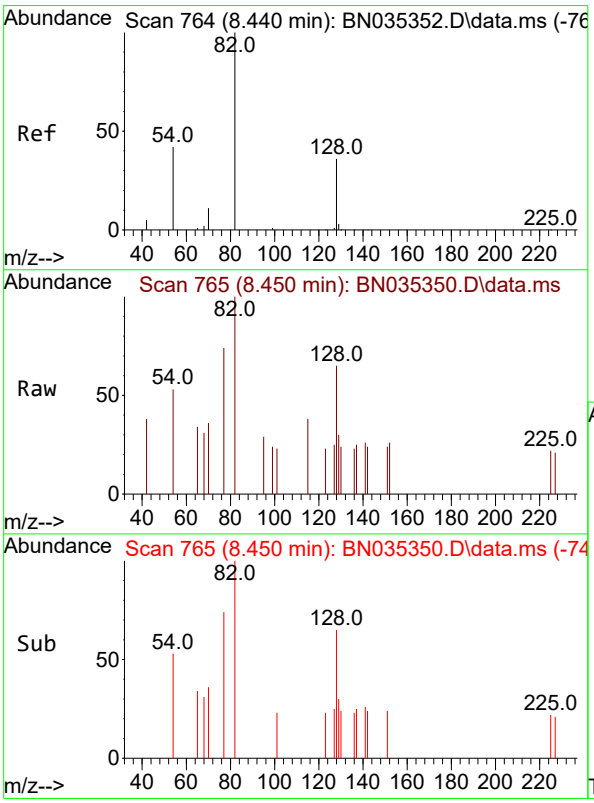
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 5753

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6

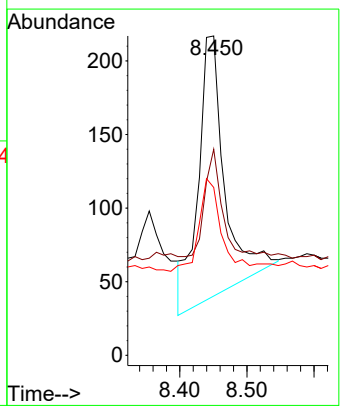


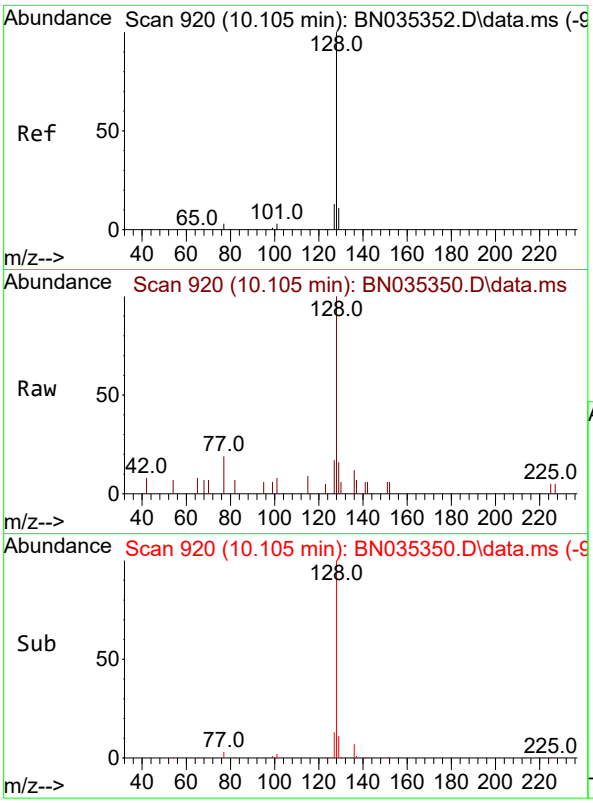


#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 492

Ion	Ratio	Lower	Upper
82	100		
128	64.5	33.4	50.0#
54	52.5	36.7	55.1



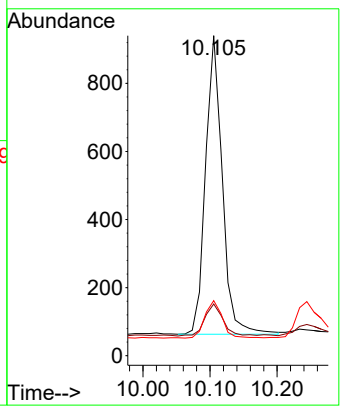


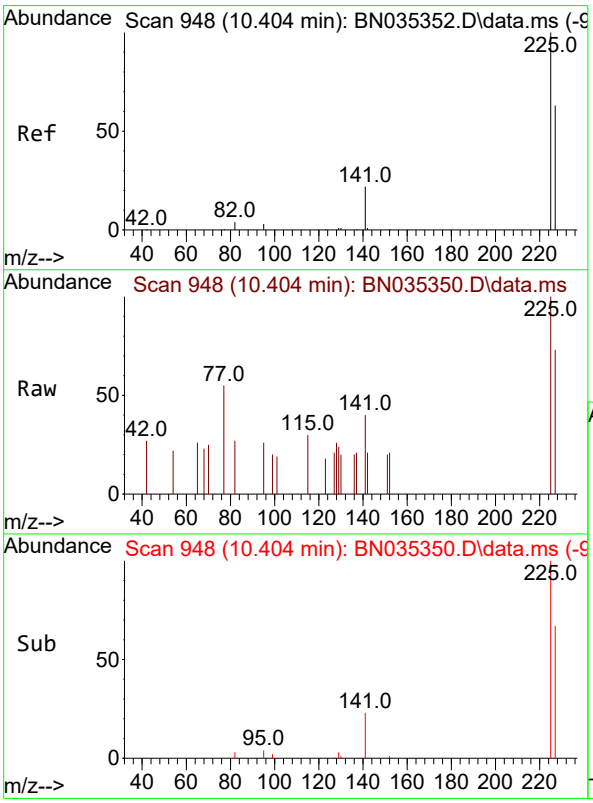
#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1527

Ion	Ratio	Lower	Upper
128	100		
129	16.2	9.8	14.6#
127	17.2	11.4	17.2#

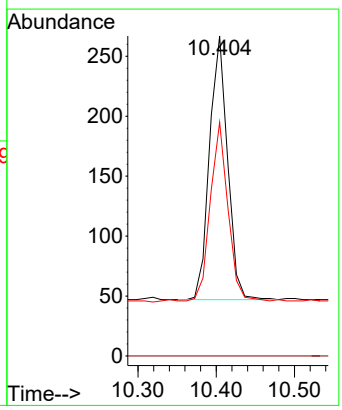


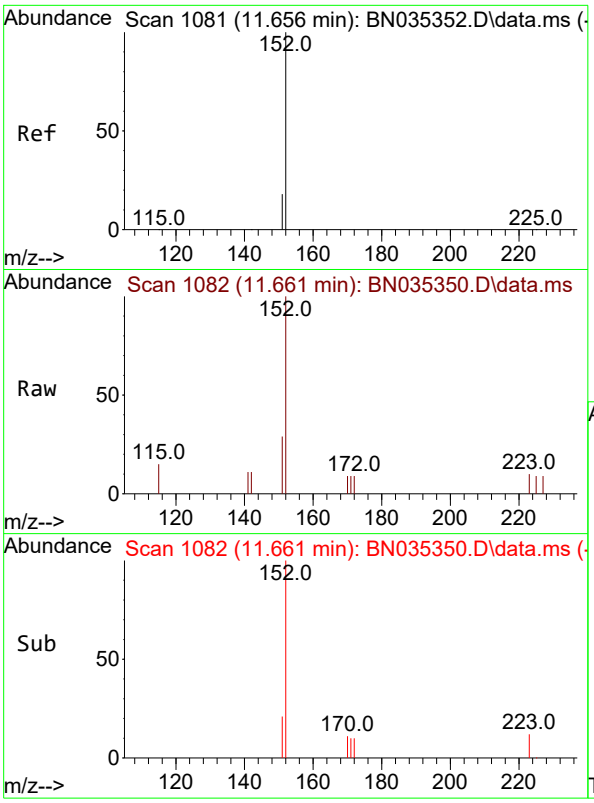


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	66.2	51.3	76.9



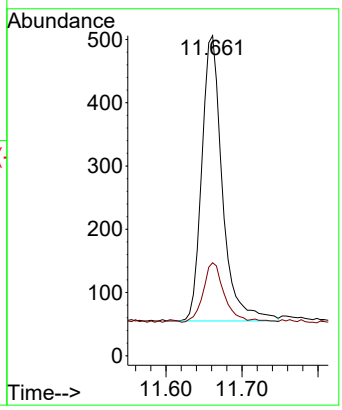


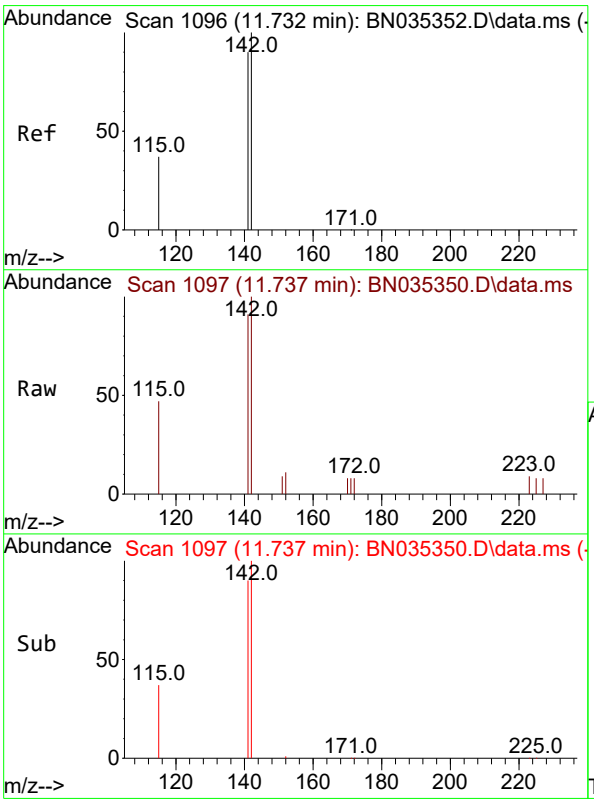
#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 850

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0

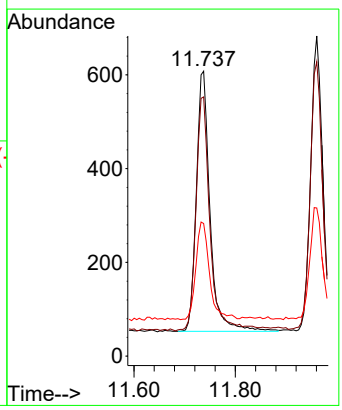


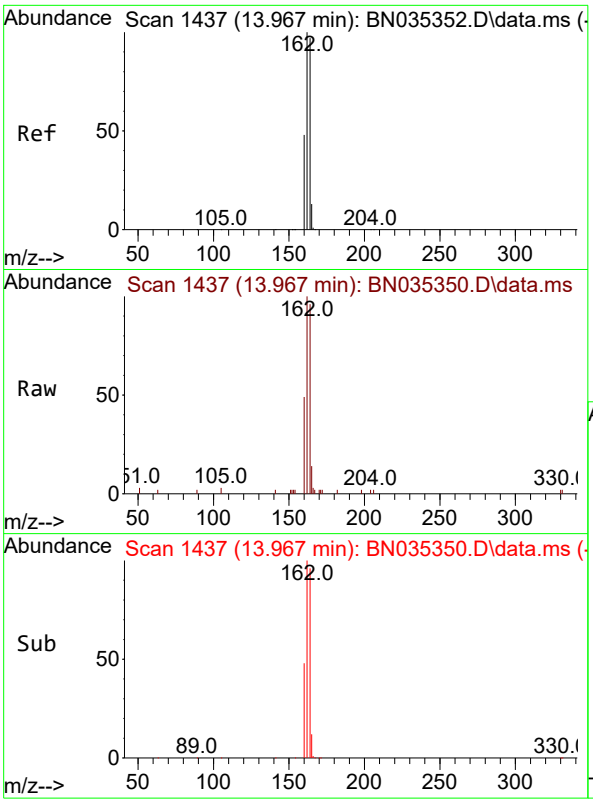


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	46.5	31.4	47.0



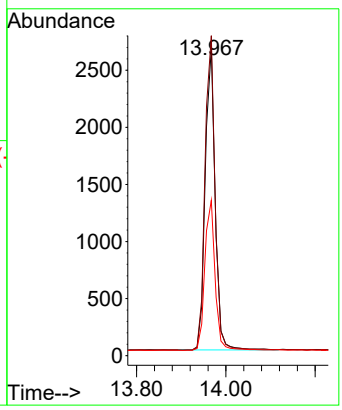


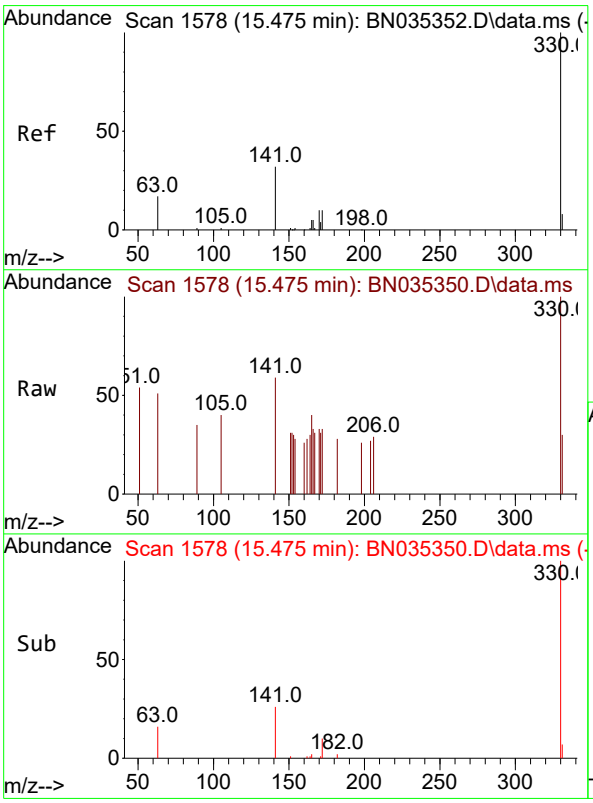
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 4077

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.4	40.1	60.1

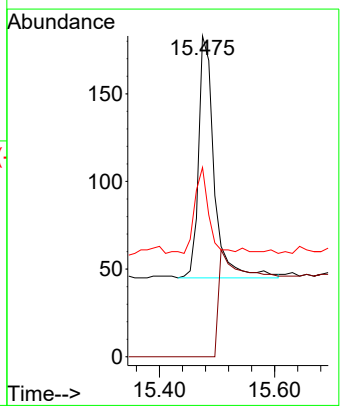


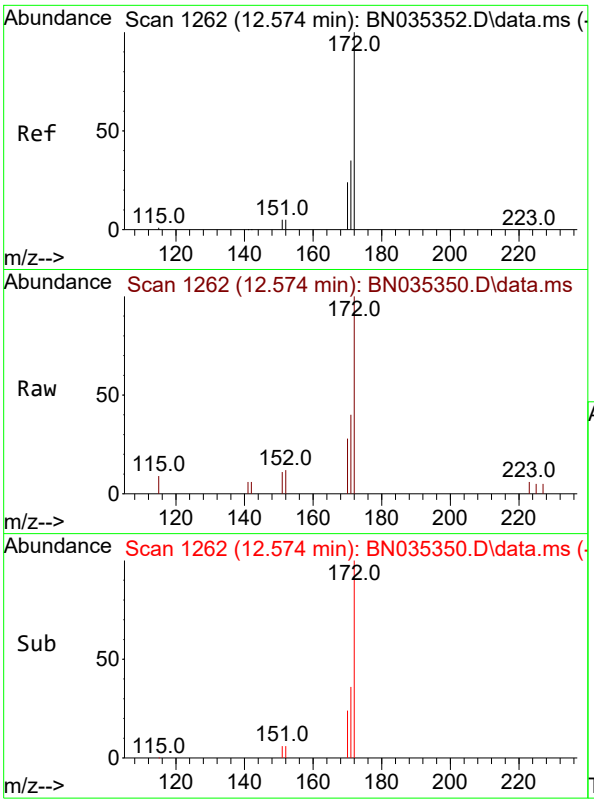


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0



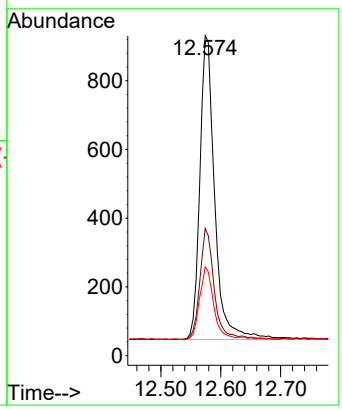


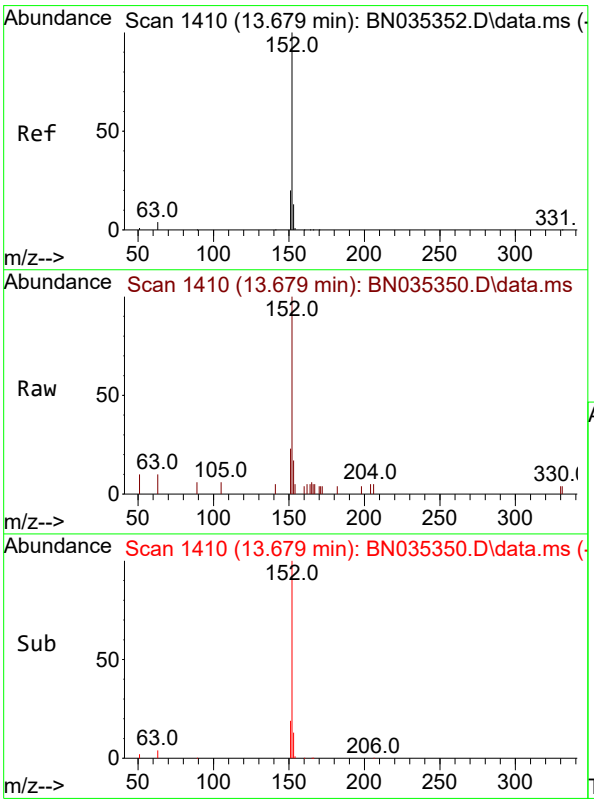
#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 1518

Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8

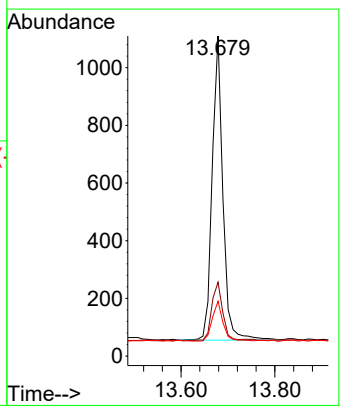


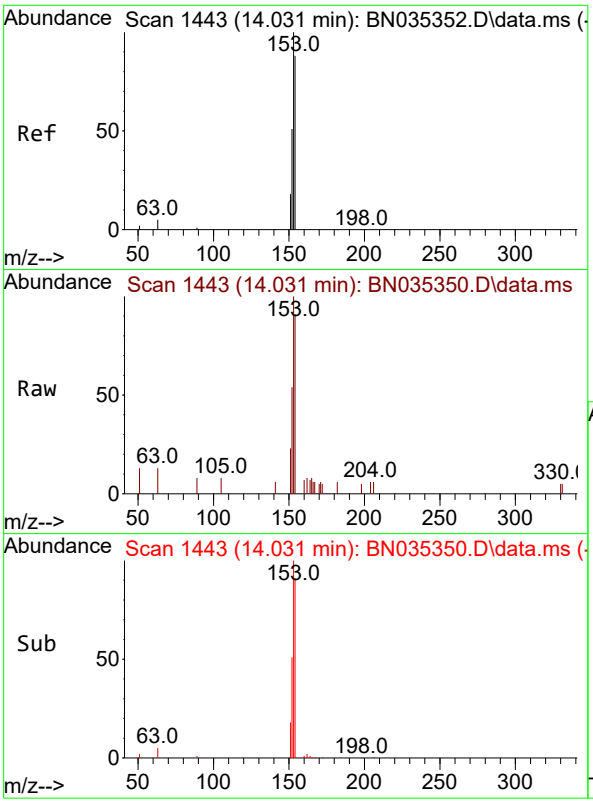


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.1	10.4	15.6



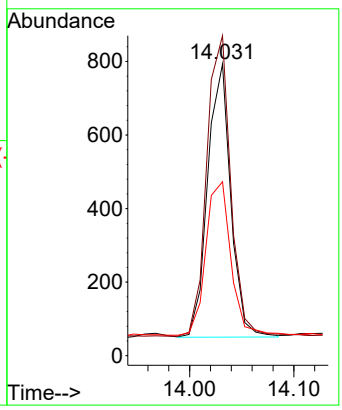


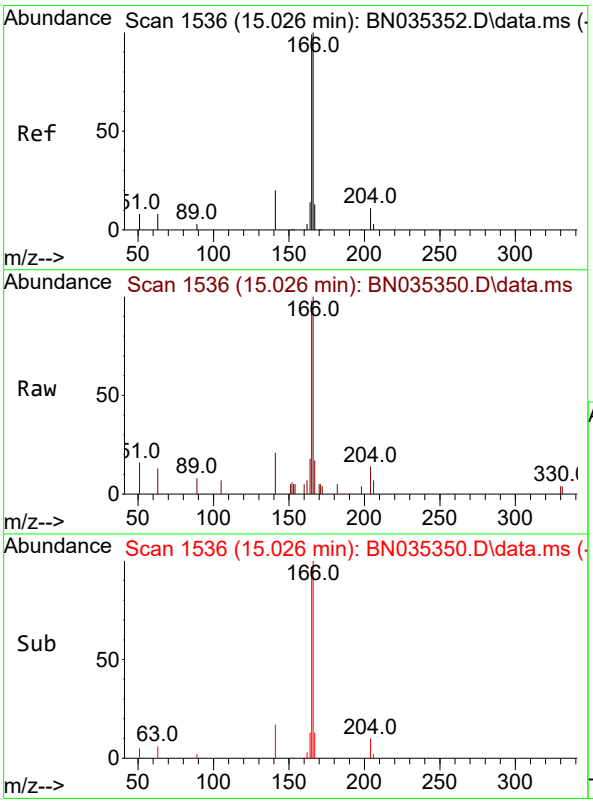
#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 1143

Ion	Ratio	Lower	Upper
154	100		
153	115.0	92.6	139.0
152	60.9	49.0	73.6

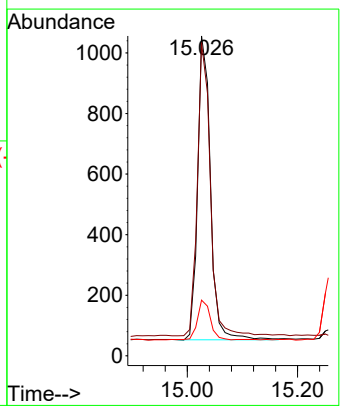


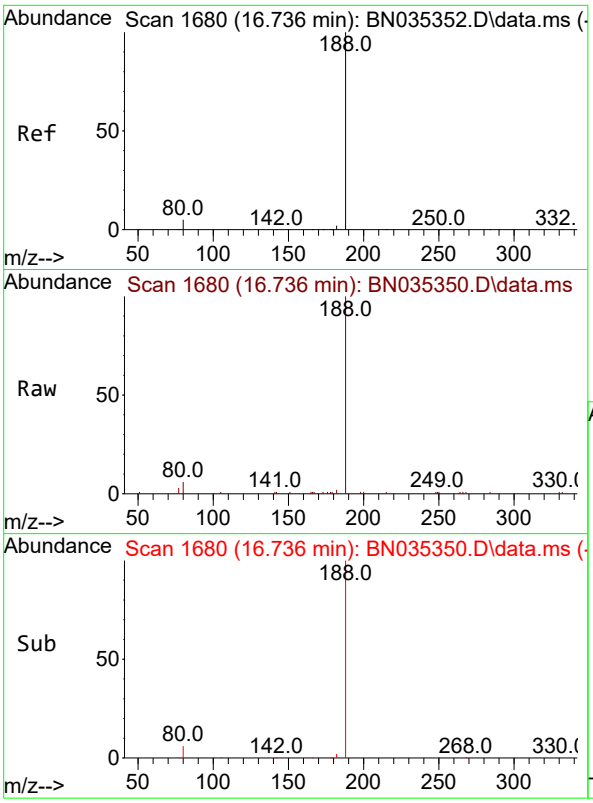


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

Ion	Ratio	Lower	Upper
166	100		
165	97.7	79.7	119.5
167	13.1	10.8	16.2



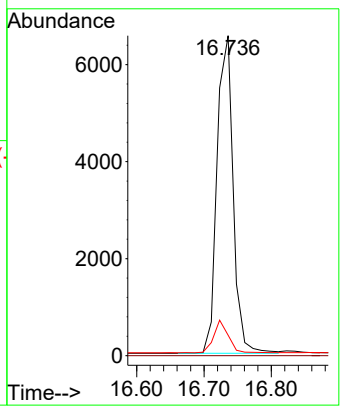


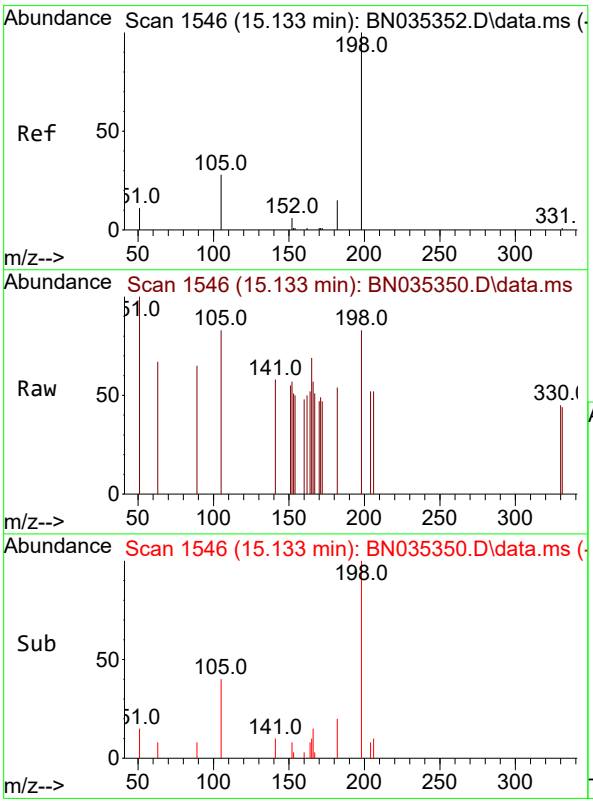
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 10855

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.4	4.6	6.8

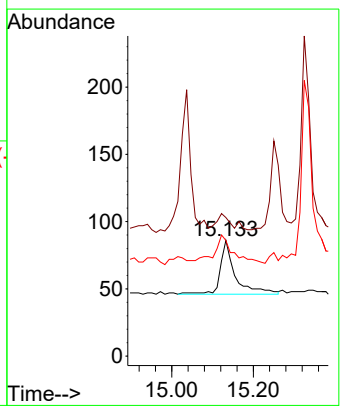


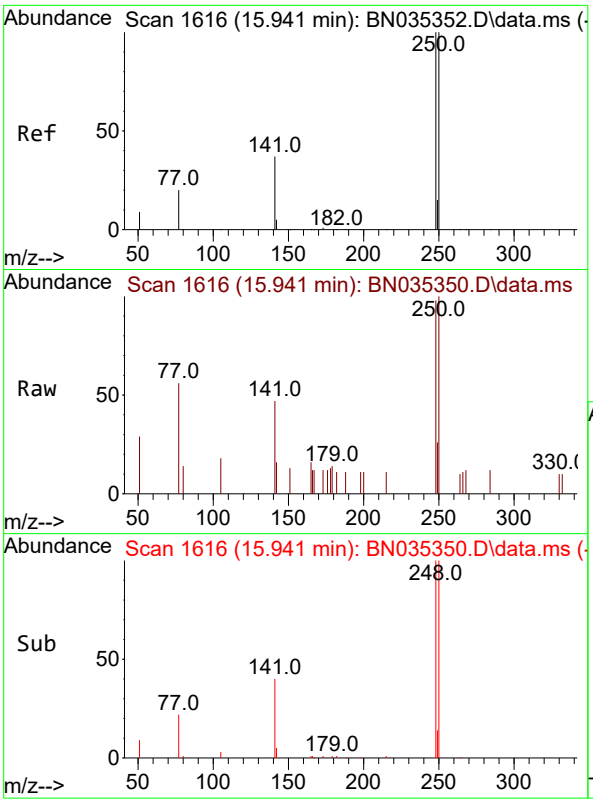


#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

Ion	Ratio	Lower	Upper
198	100		
51	119.8	46.5	69.7#
105	100.0	45.3	67.9#



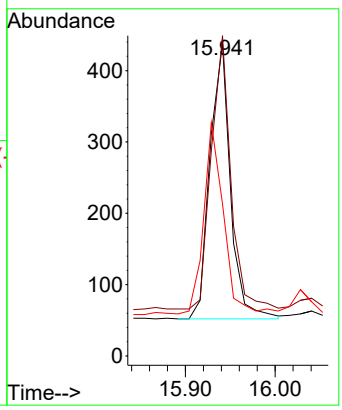


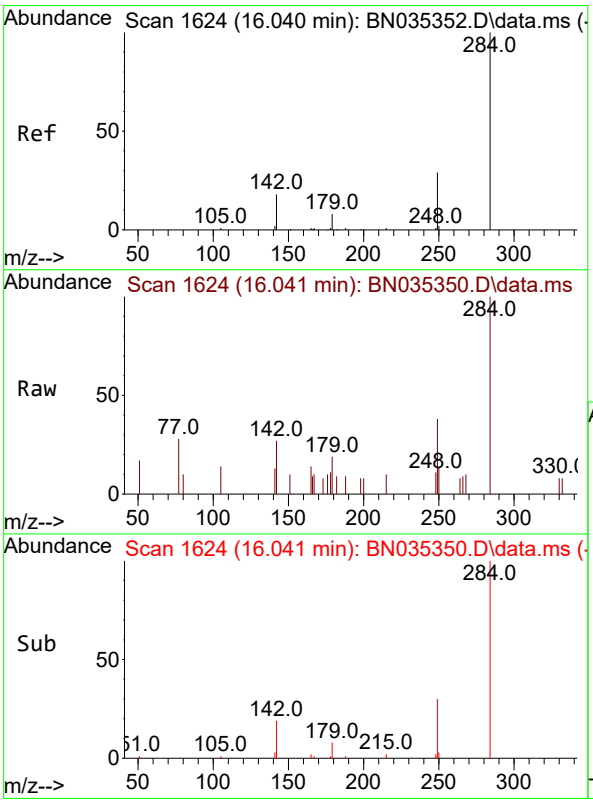
#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 612

Ion	Ratio	Lower	Upper
248	100		
250	102.5	80.6	120.8
141	48.6	31.5	47.3#

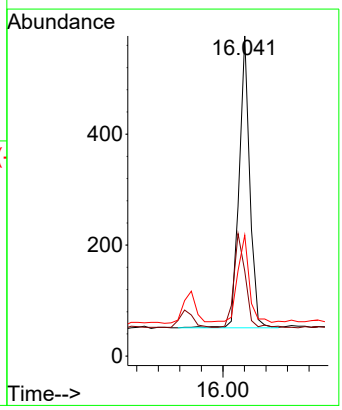


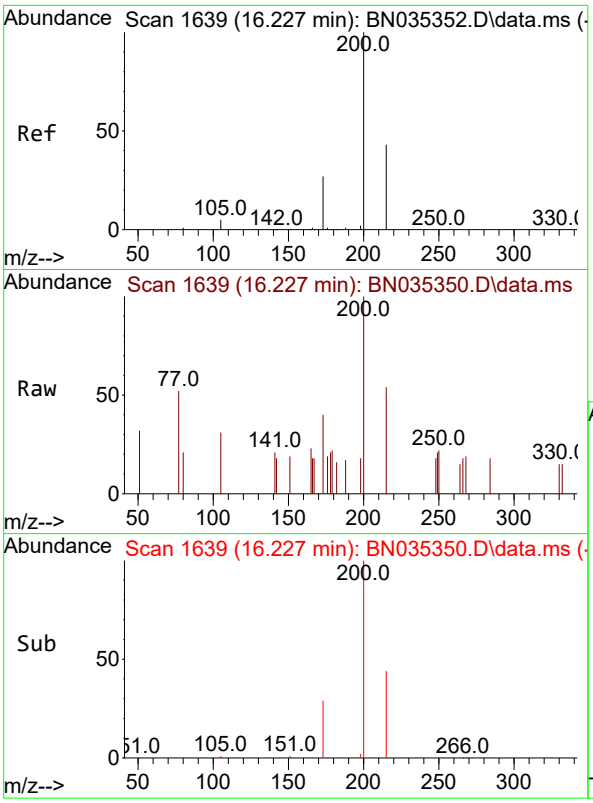


#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	32.2	24.6	36.8



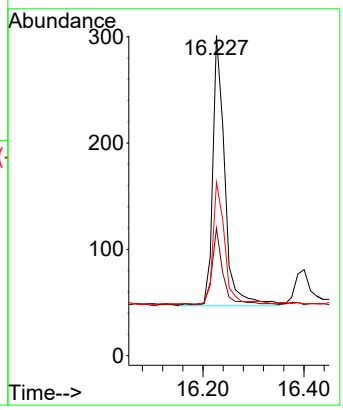


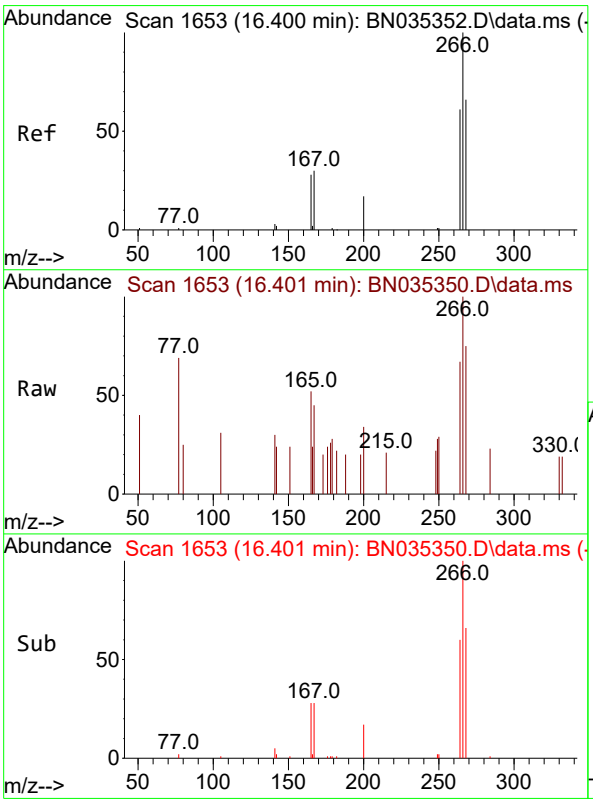
#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 421

Ion	Ratio	Lower	Upper
200	100		
173	39.9	24.1	36.1#
215	54.2	36.9	55.3

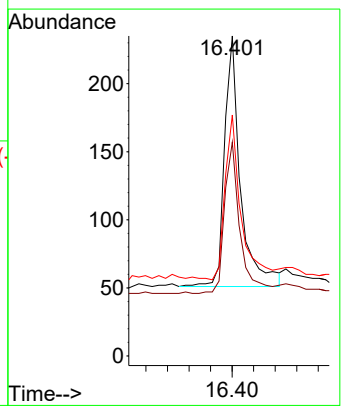


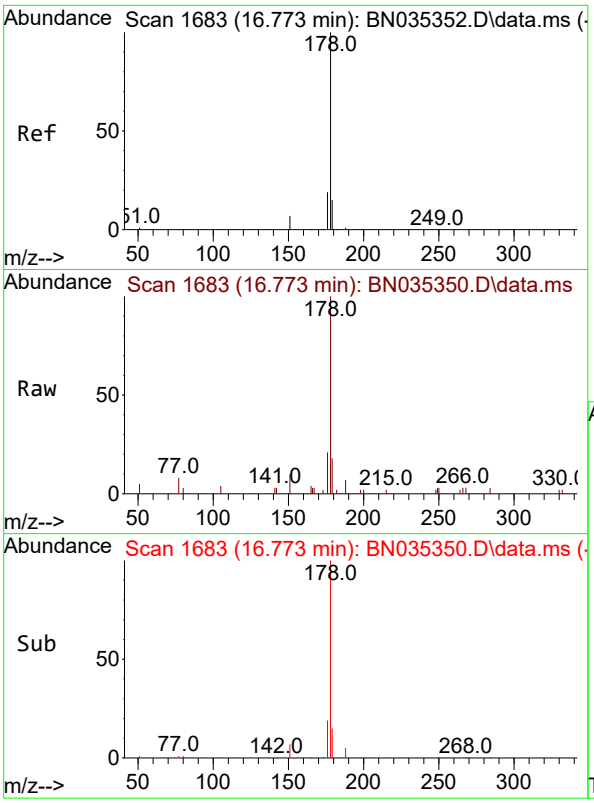


#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

Ion	Ratio	Lower	Upper
266	100		
264	58.3	42.3	63.5
268	63.3	43.3	64.9



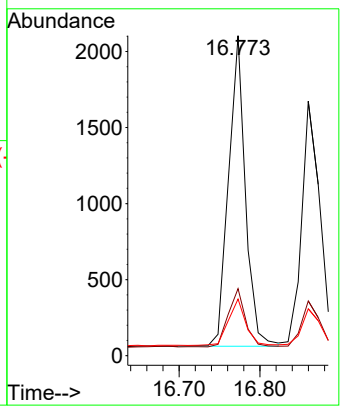


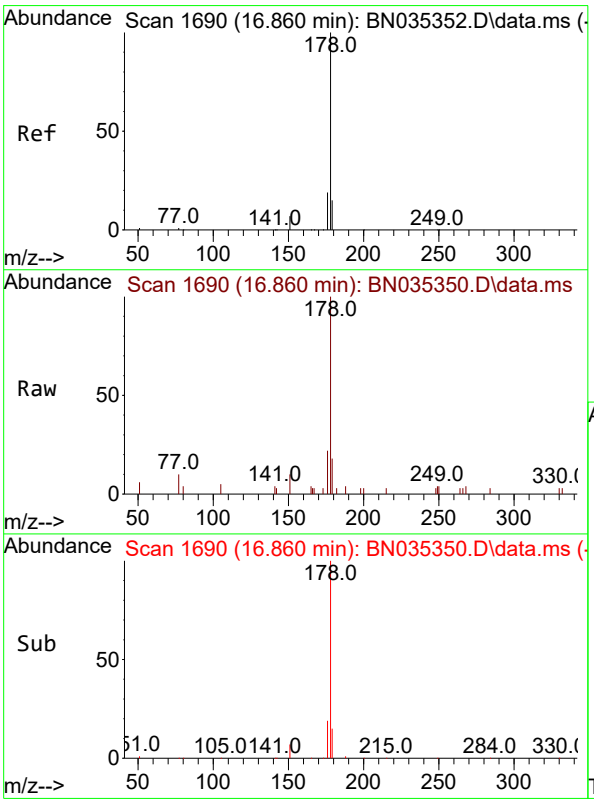
#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2963

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.6	12.3	18.5

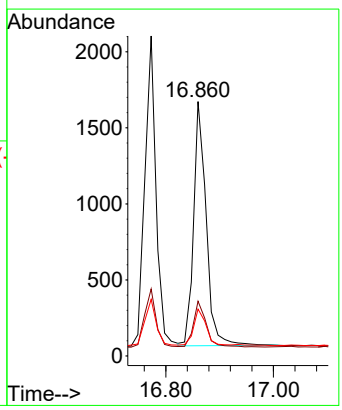


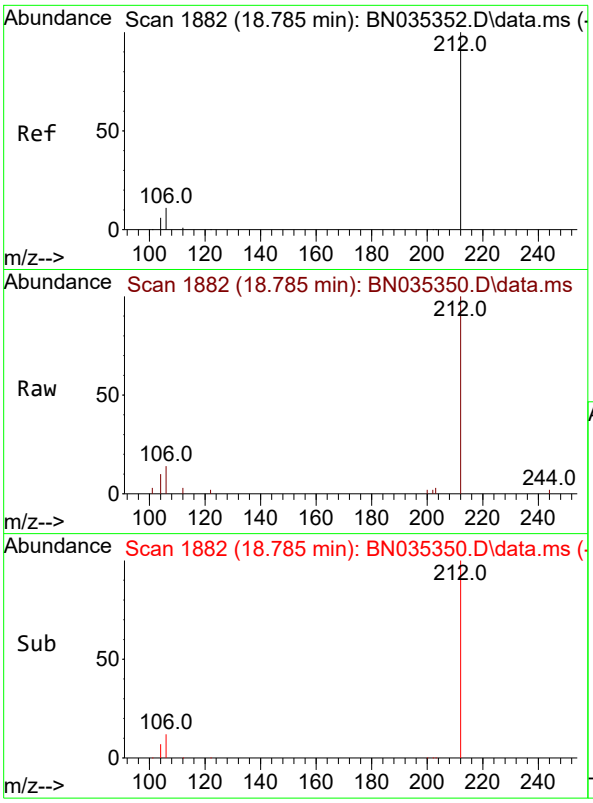


#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	14.3	12.6	18.8



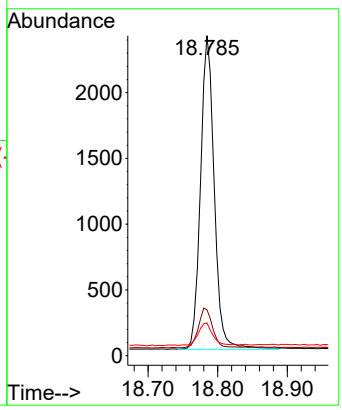


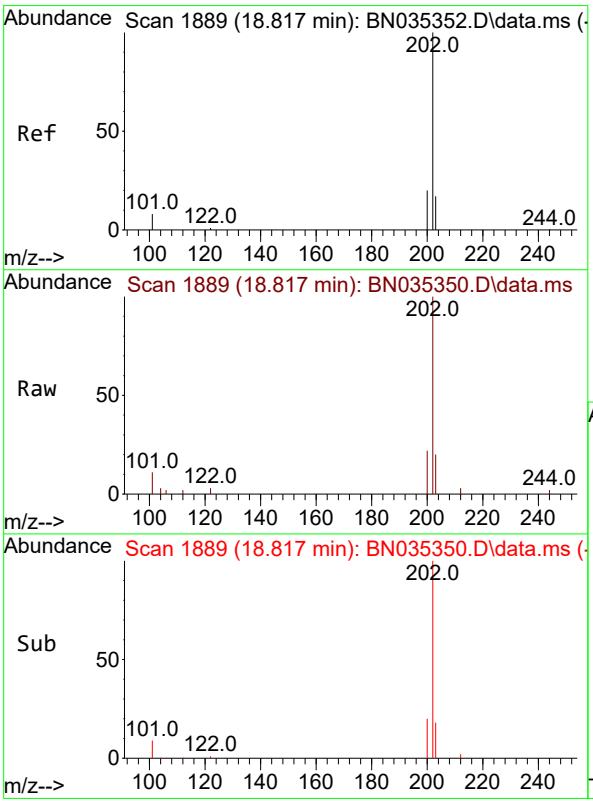
#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 3265

Ion	Ratio	Lower	Upper
212	100		
106	12.8	9.2	13.8
104	7.6	5.3	7.9

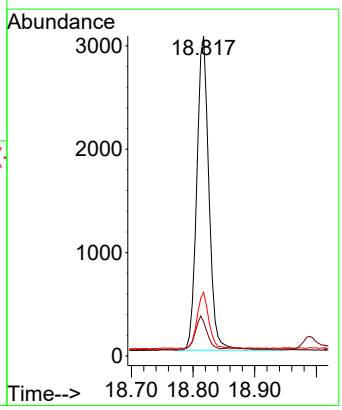


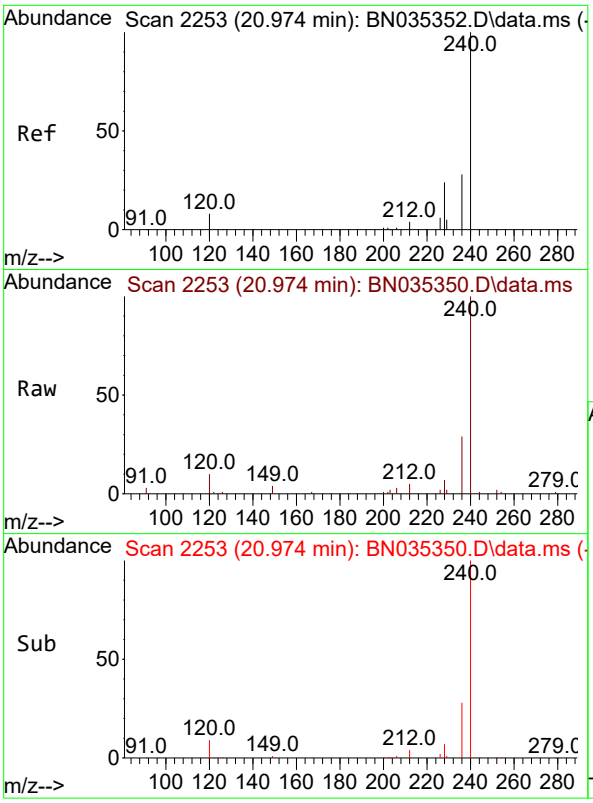


#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

Ion	Ratio	Lower	Upper
202	100		
101	10.2	7.4	11.0
203	17.3	13.7	20.5



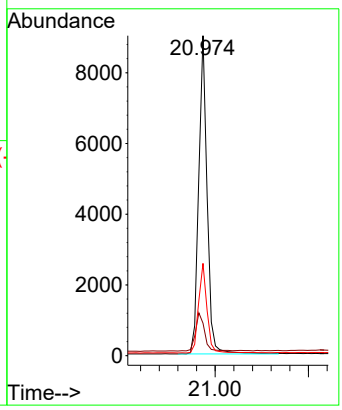


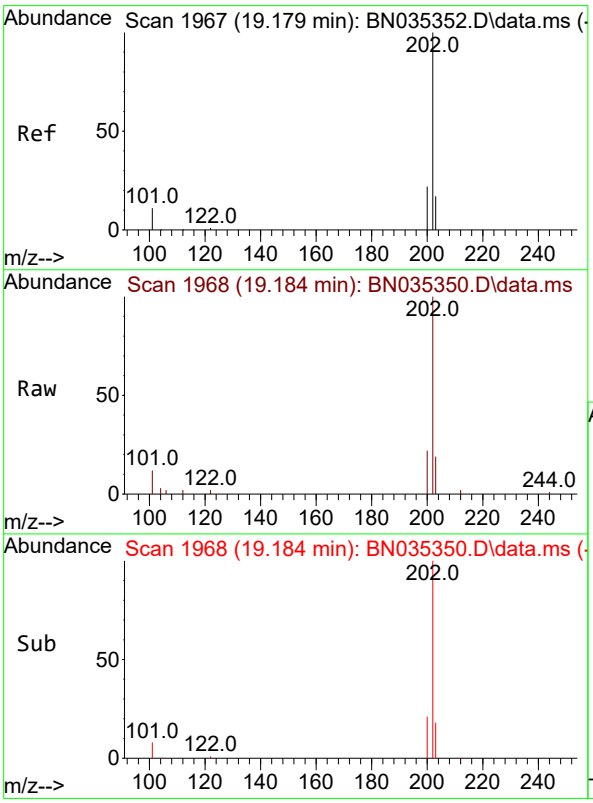
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 11269

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.9	11.9
236	28.8	22.9	34.3

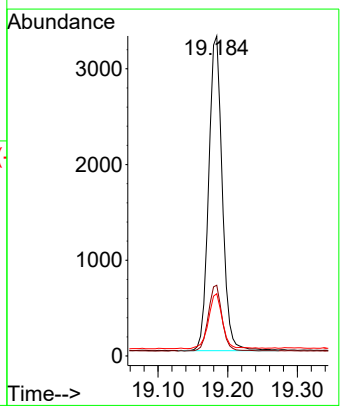


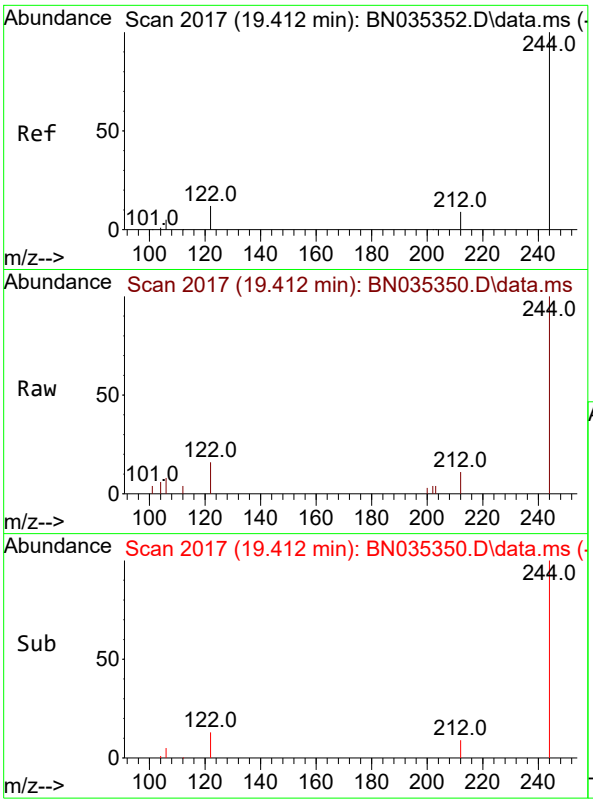


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5



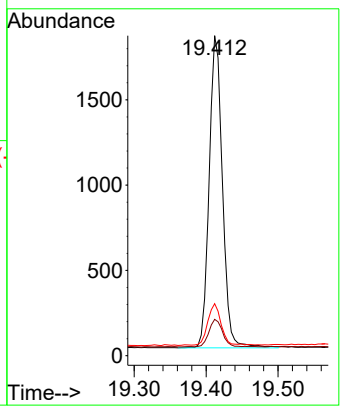


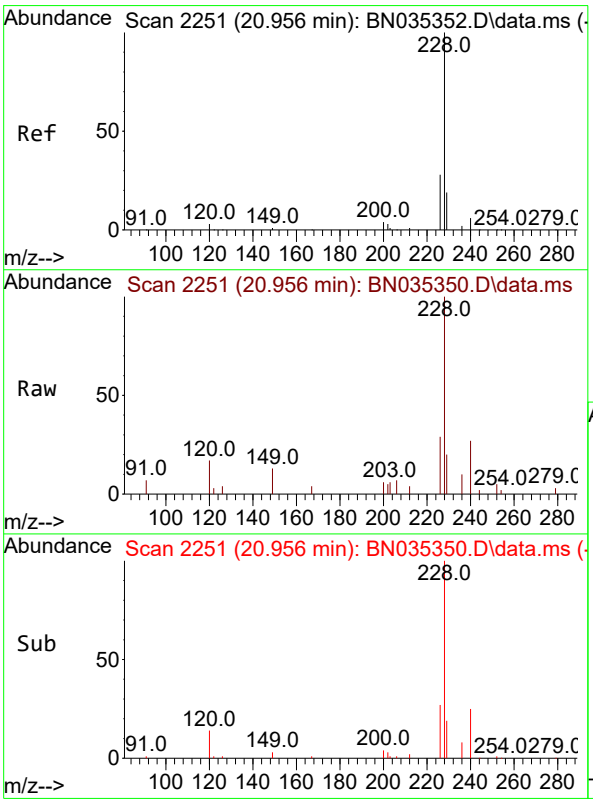
#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 2344

Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.1	12.1
122	16.3	10.3	15.5#

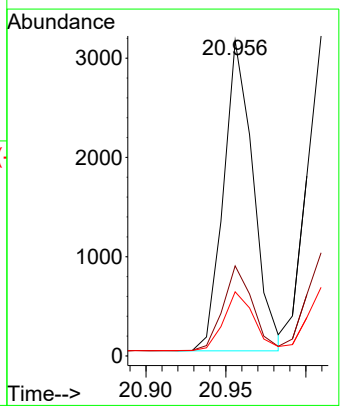


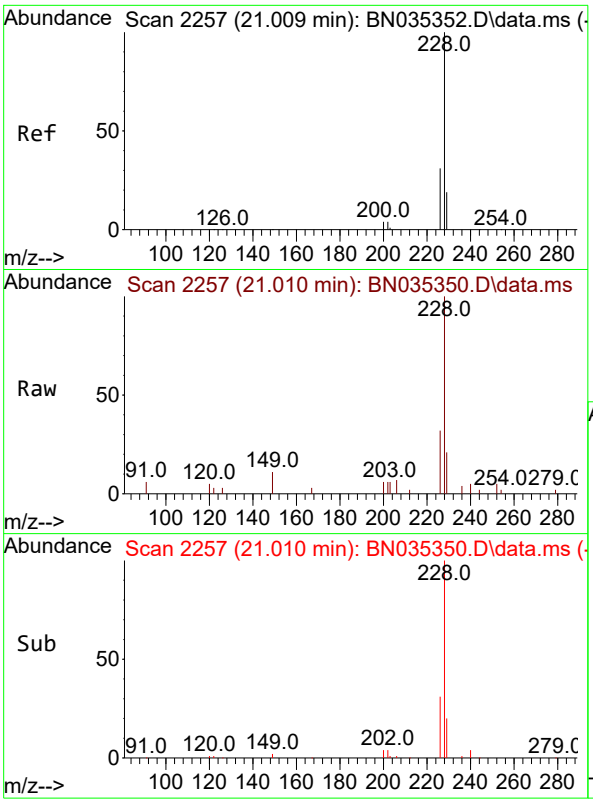


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.4	15.8	23.8



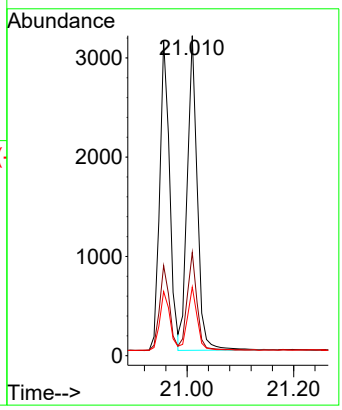


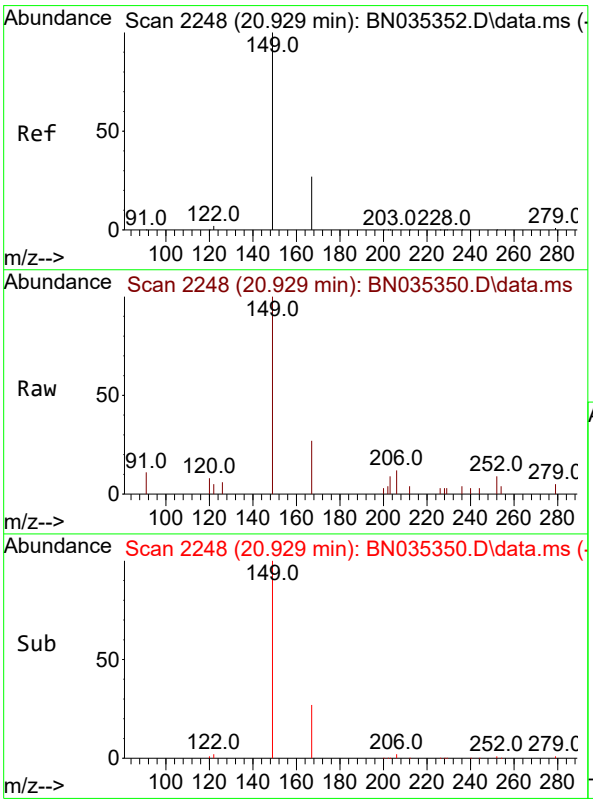
#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 4123

Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.6	37.0
229	21.5	15.9	23.9

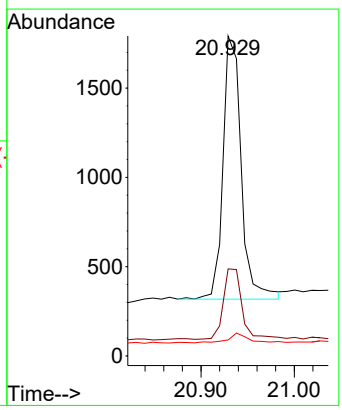


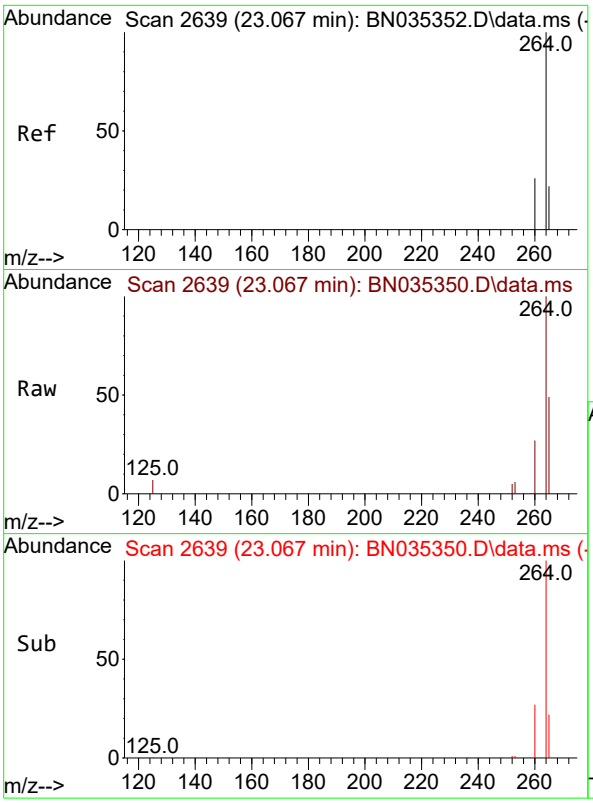


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.6	2.7	4.1



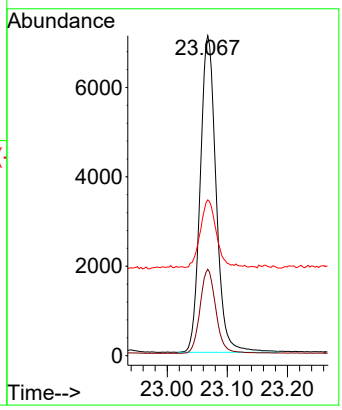


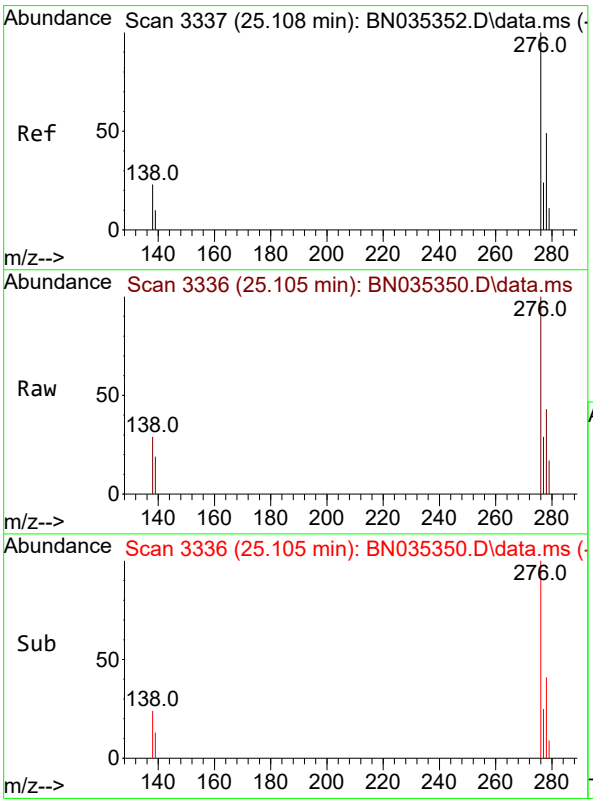
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 13004

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	48.7	40.2	60.4

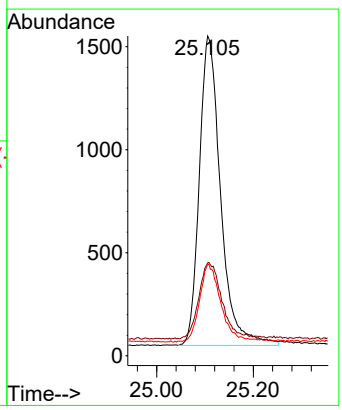


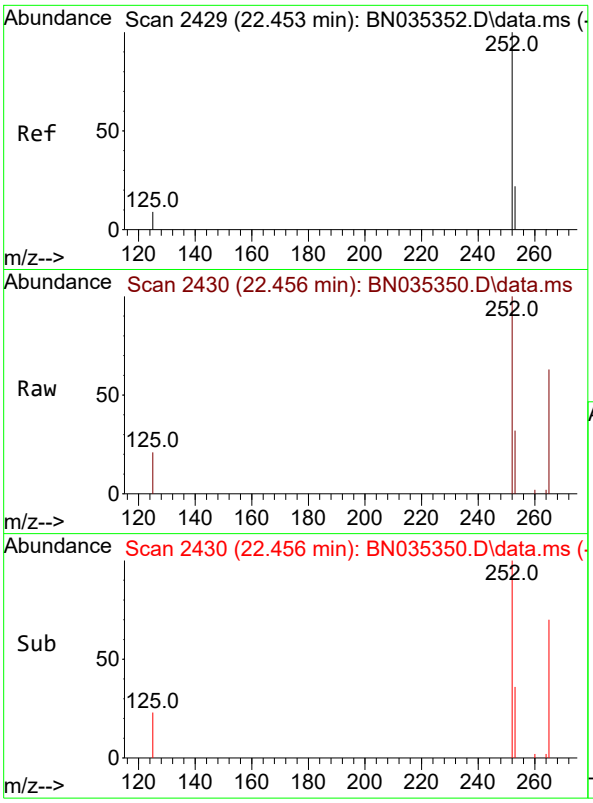


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

Ion	Ratio	Lower	Upper
276	100		
138	26.2	19.4	29.0
277	25.6	19.8	29.6



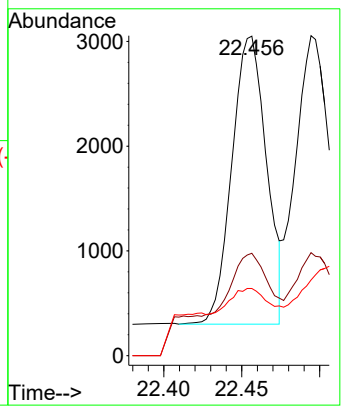


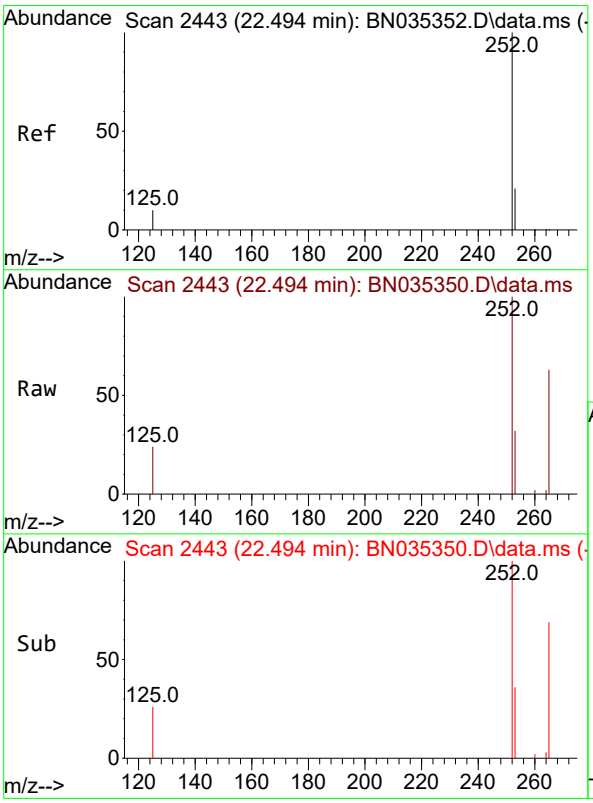
#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 4243

Ion	Ratio	Lower	Upper
252	100		
253	32.1	19.6	29.4#
125	21.0	9.6	14.4#

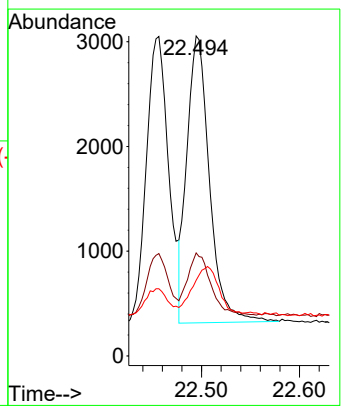


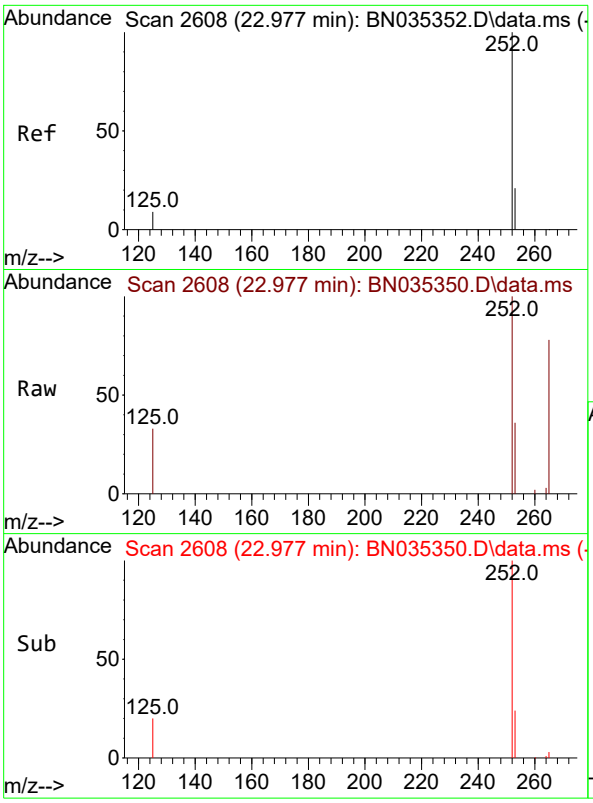


#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4378

Ion	Ratio	Lower	Upper
252	100		
253	32.2	19.5	29.3#
125	23.7	10.2	15.4#



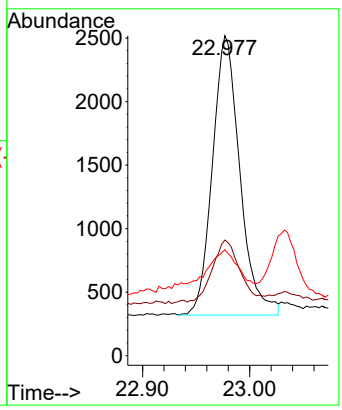


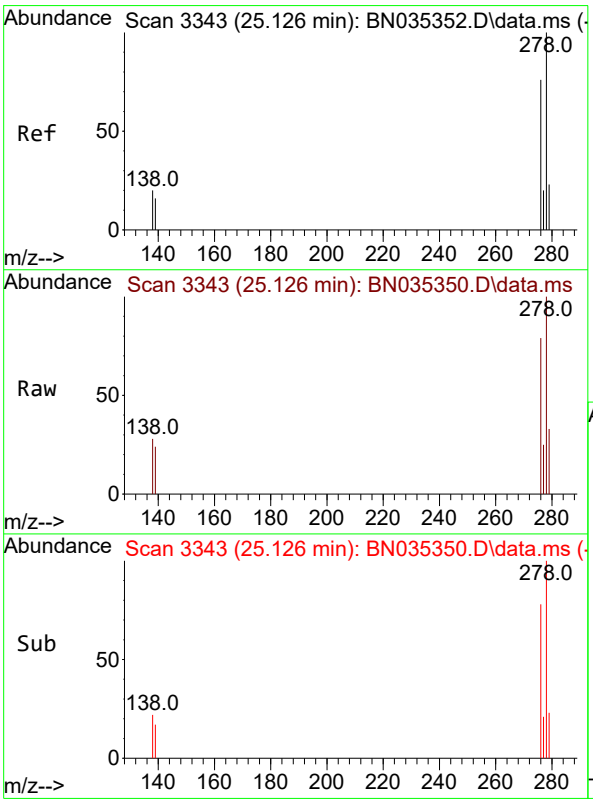
#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 3913

Ion	Ratio	Lower	Upper
252	100		
253	36.1	20.2	30.4#
125	33.1	10.9	16.3#

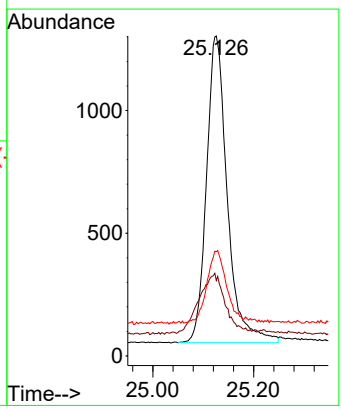


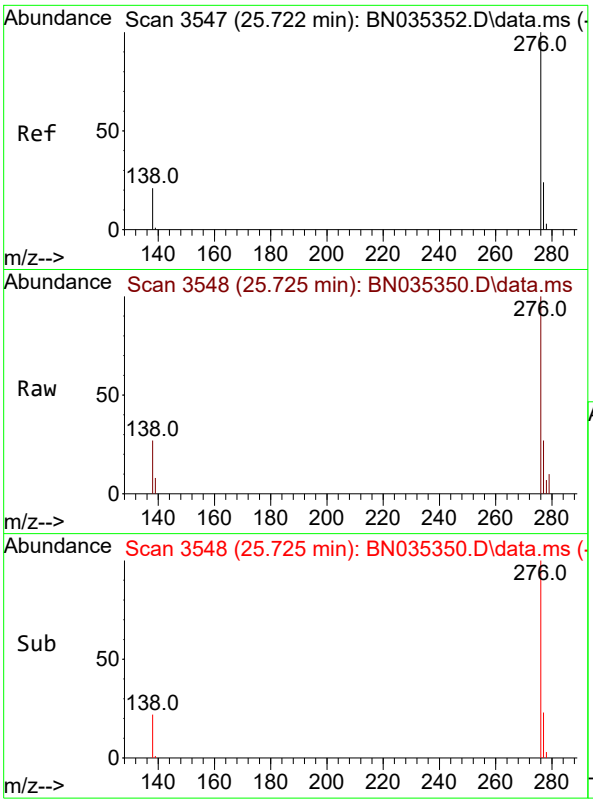


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

Ion	Ratio	Lower	Upper
278	100		
139	23.6	14.2	21.4#
279	32.6	20.5	30.7#



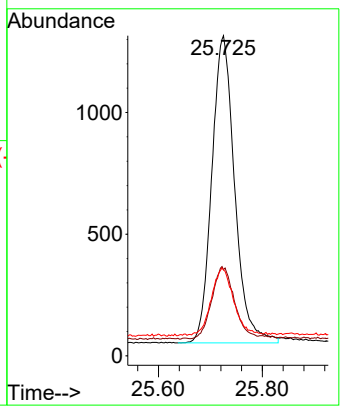


#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 3863

Ion	Ratio	Lower	Upper
276	100		
277	26.9	19.9	29.9
138	26.8	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

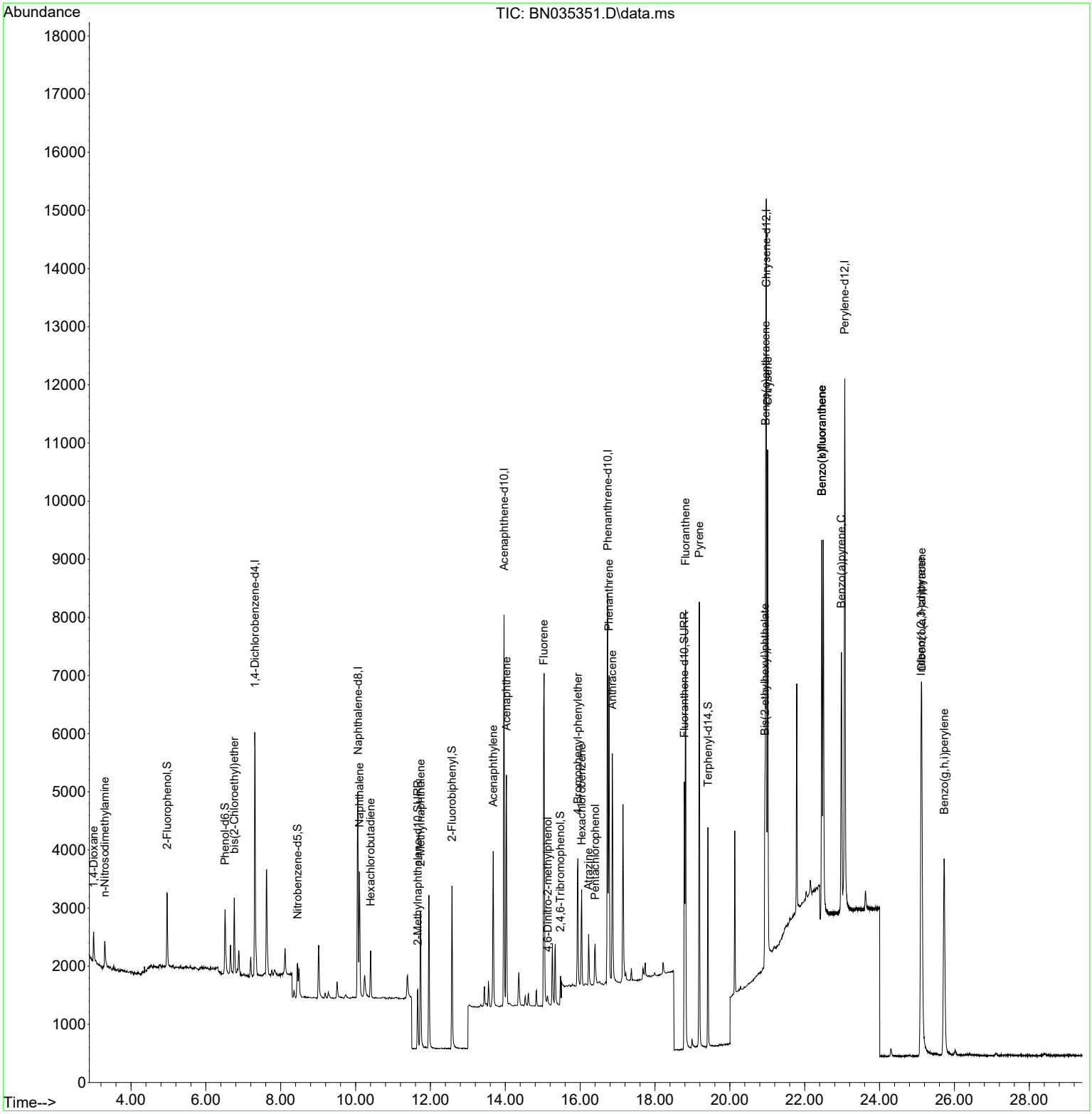
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	806	0.174	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	435	0.230	ng	# 95
3) n-Nitrosodimethylamine	3.299	42	315	0.179	ng	# 87
6) bis(2-Chloroethyl)ether	6.759	93	1064	0.214	ng	99
9) Naphthalene	10.105	128	2744	0.197	ng	96
10) Hexachlorobutadiene	10.404	225	646	0.158	ng	# 99
12) 2-Methylnaphthalene	11.737	142	1910	0.186	ng	98
16) Acenaphthylene	13.678	152	3047	0.187	ng	99
17) Acenaphthene	14.031	154	2064	0.194	ng	99
18) Fluorene	15.026	166	2949	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	153	0.074	ng	# 53
21) 4-Bromophenyl-phenylether	15.941	248	1081	0.171	ng	96
22) Hexachlorobenzene	16.040	284	1318	0.201	ng	98
23) Atrazine	16.227	200	770	0.136	ng	93
24) Pentachlorophenol	16.400	266	445	0.145	ng	# 84
25) Phenanthrene	16.773	178	5182	0.199	ng	99
26) Anthracene	16.860	178	4571	0.191	ng	100
28) Fluoranthene	18.817	202	6914	0.193	ng	100
30) Pyrene	19.184	202	7198	0.217	ng	100
32) Benzo(a)anthracene	20.956	228	6691	0.193	ng	99
33) Chrysene	21.009	228	7234	0.211	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	2779	0.153	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.108	276	8305	0.187	ng	100
37) Benzo(b)fluoranthene	22.456	252	7522	0.200	ng	# 94
38) Benzo(k)fluoranthene	22.456	252	7522	0.200	ng	94
39) Benzo(a)pyrene	22.980	252	6450	0.195	ng	# 90
40) Dibenzo(a,h)anthracene	25.128	278	6620	0.188	ng	96
41) Benzo(g,h,i)perylene	25.725	276	6908	0.184	ng	99

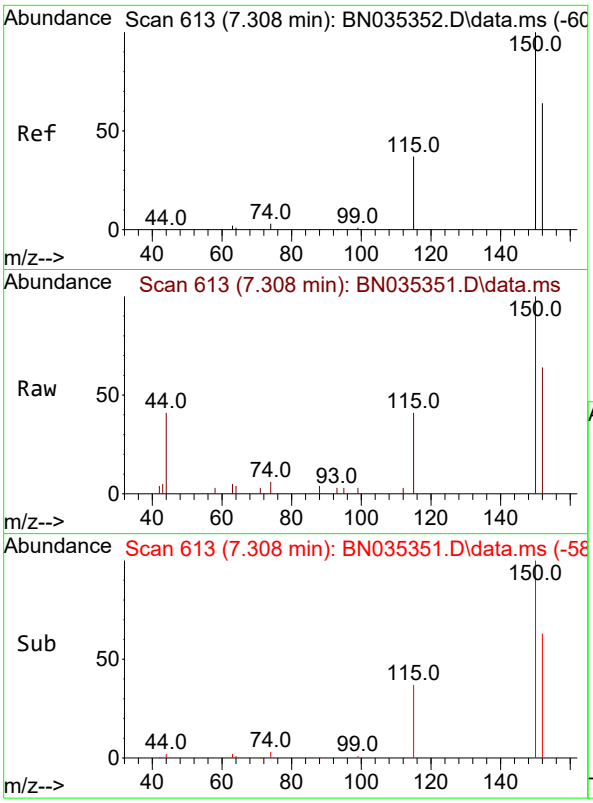
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



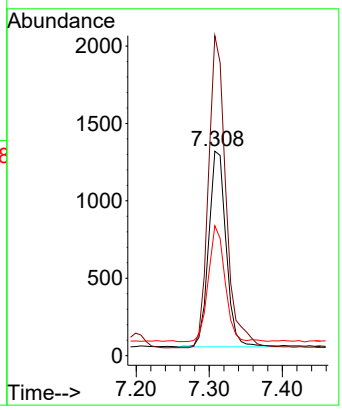


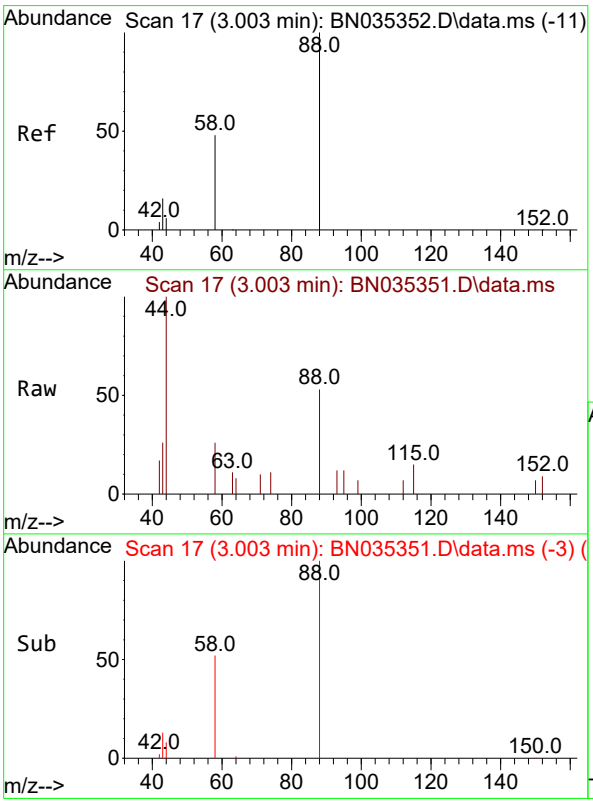
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 2084

Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4

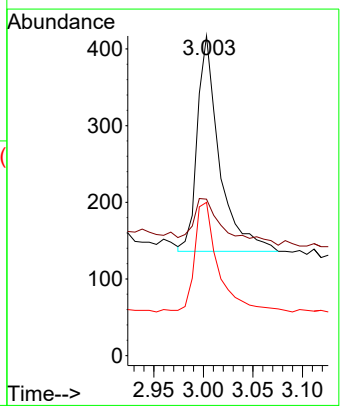


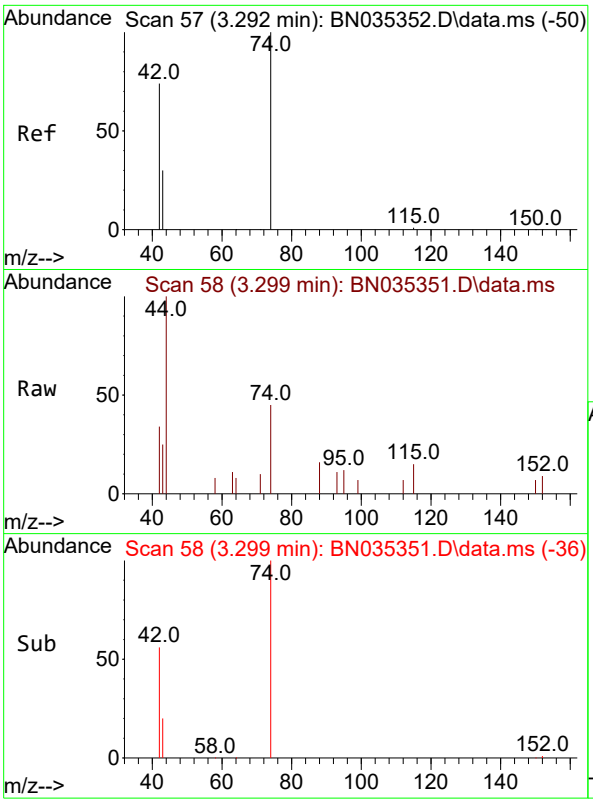


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

Ion	Ratio	Lower	Upper
88	100		
43	29.9	17.2	25.8#
58	55.2	44.5	66.7



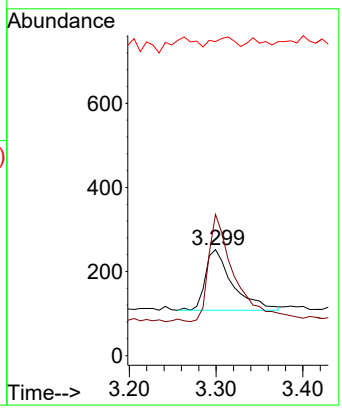


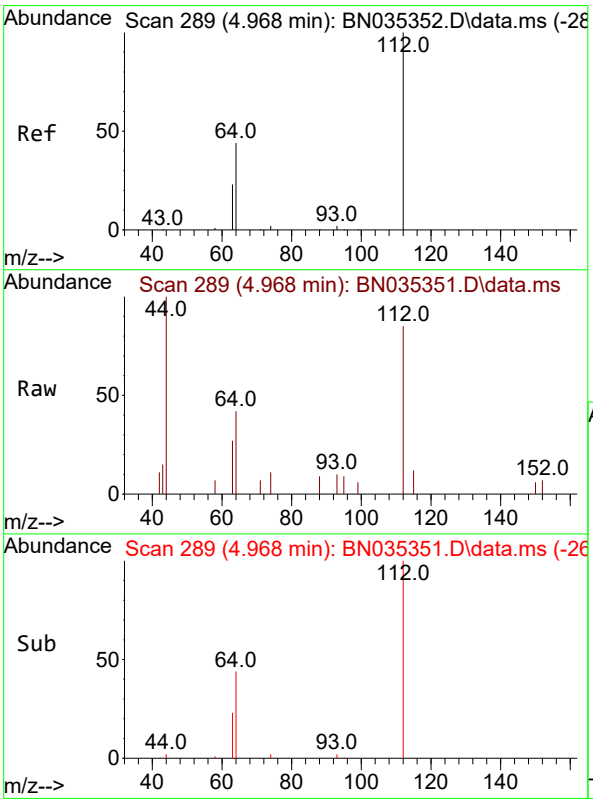
#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 315

Ion	Ratio	Lower	Upper
42	100		
74	172.4	124.9	187.3
44	16.2	2.2	3.4#

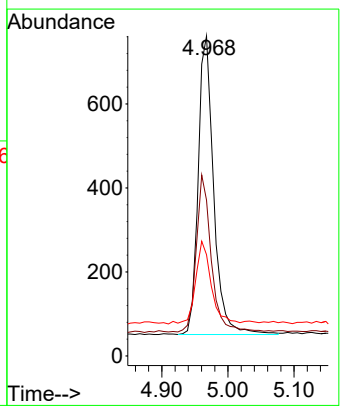


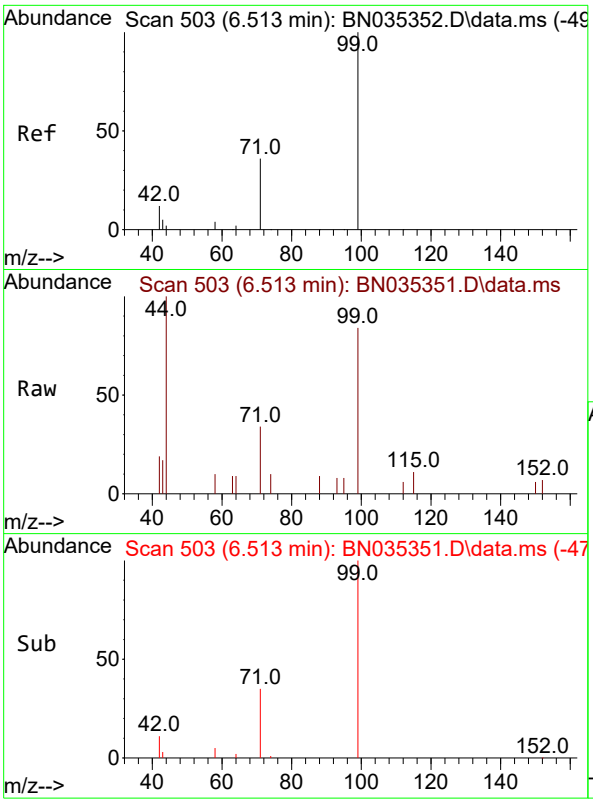


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6



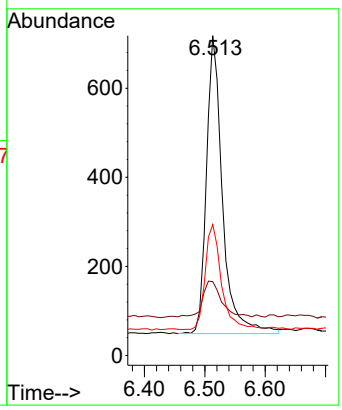


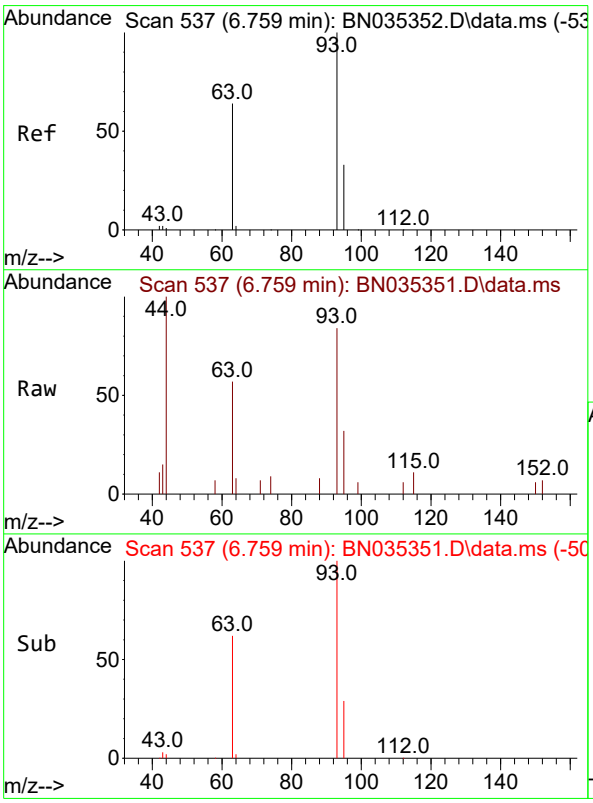
#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1236

Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9

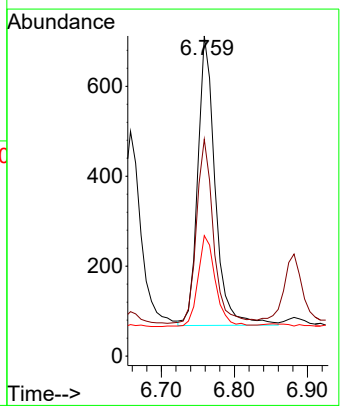


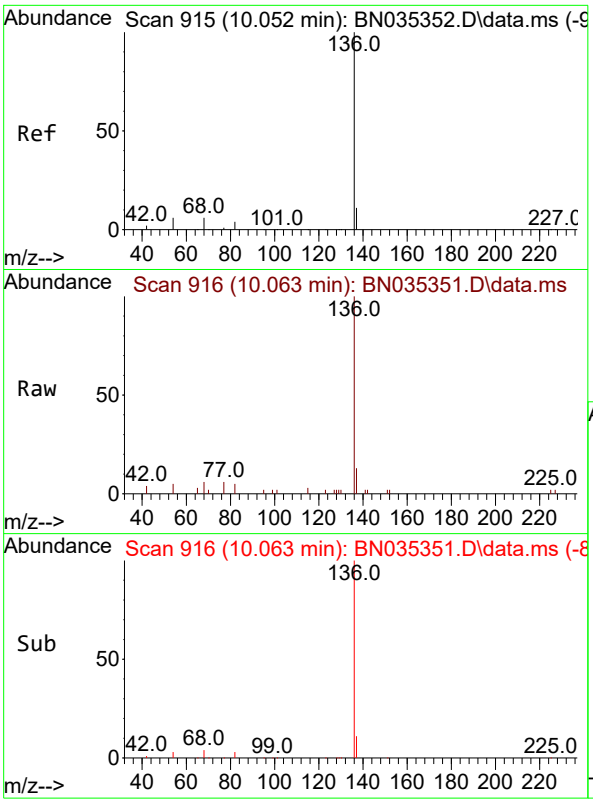


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.6	25.7	38.5



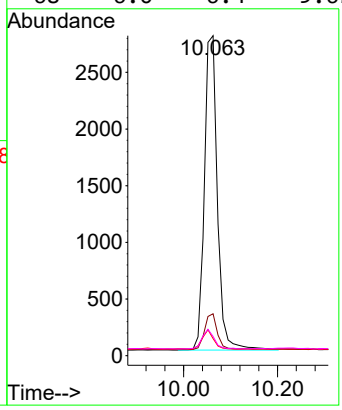


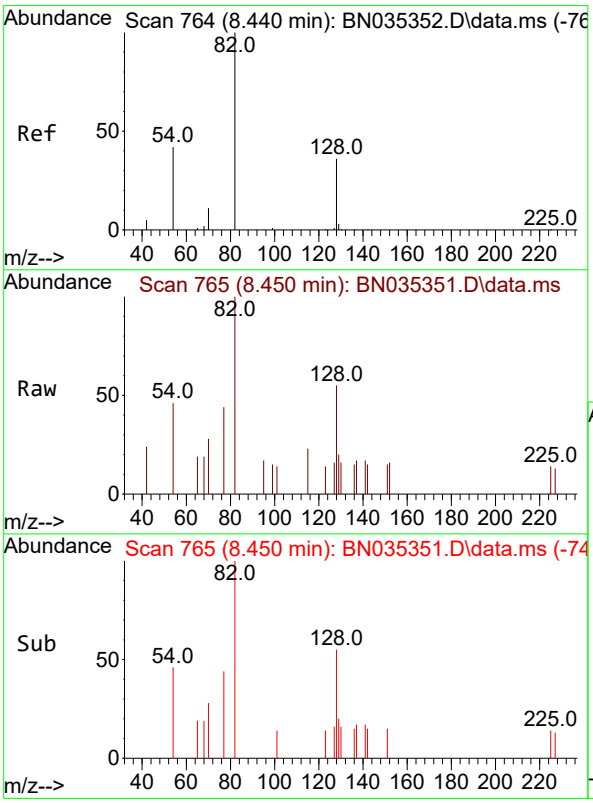
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 5334

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#

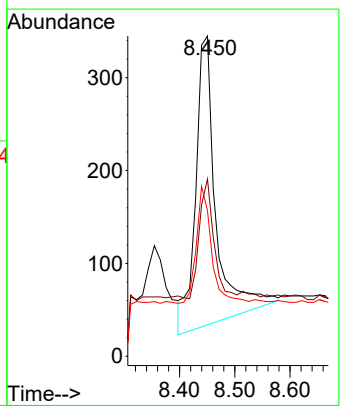


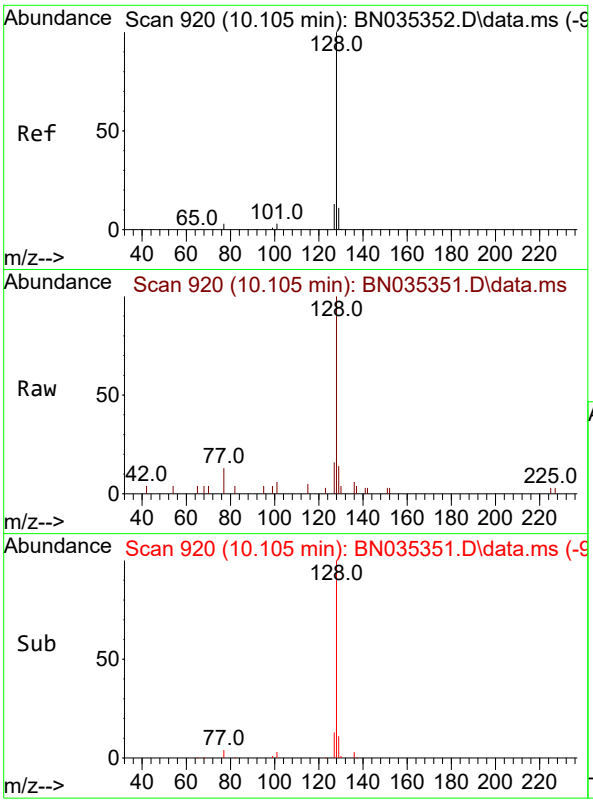


#8
Nitrobenzene-d5
Concen: 0.174 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 806

Ion	Ratio	Lower	Upper
82	100		
128	55.4	33.4	50.0#
54	45.5	36.7	55.1



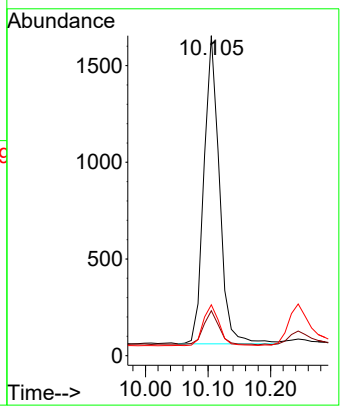


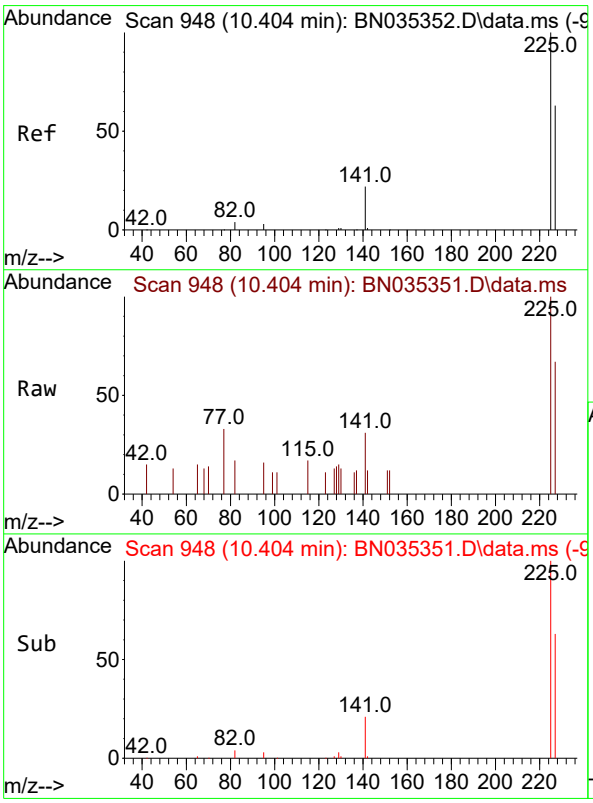
#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2744

Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2

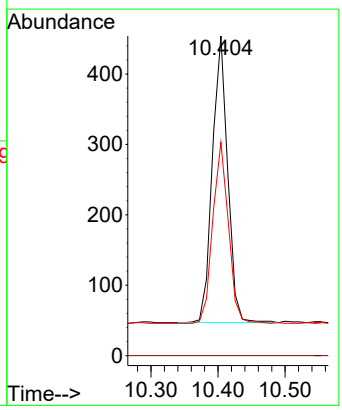


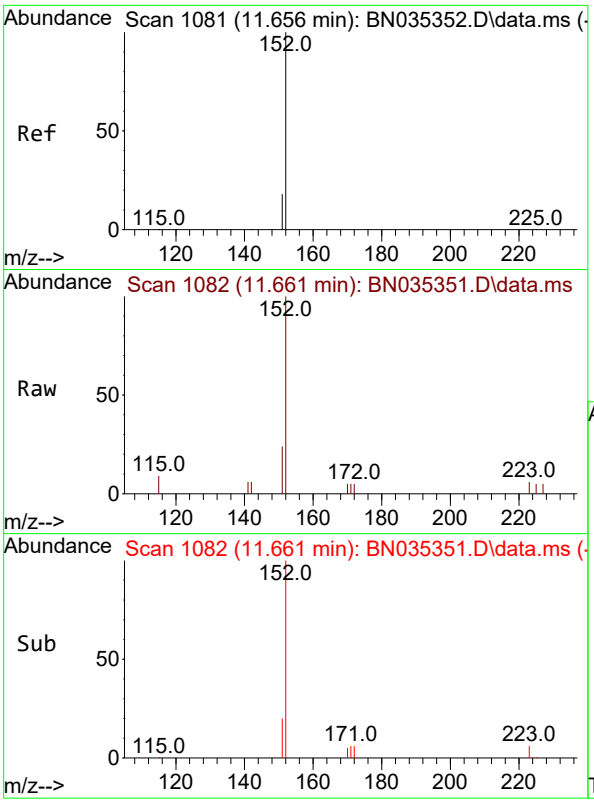


#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9



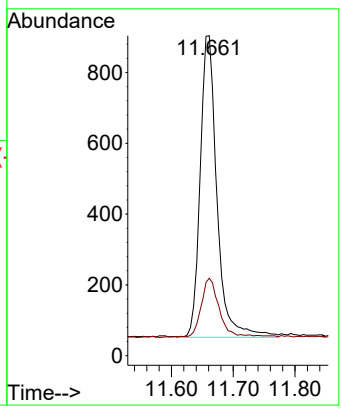


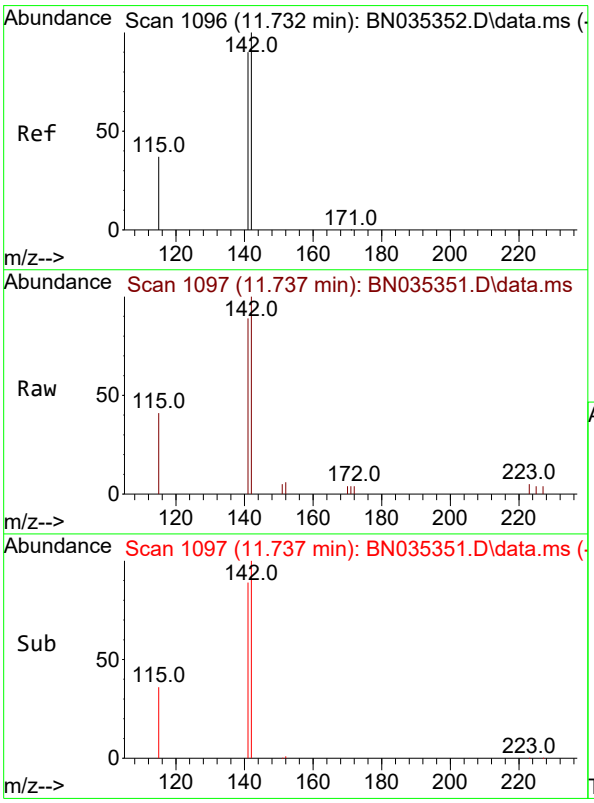
#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1608

Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0

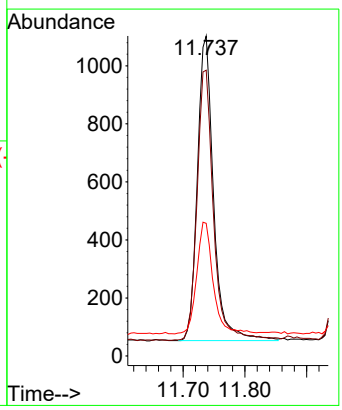


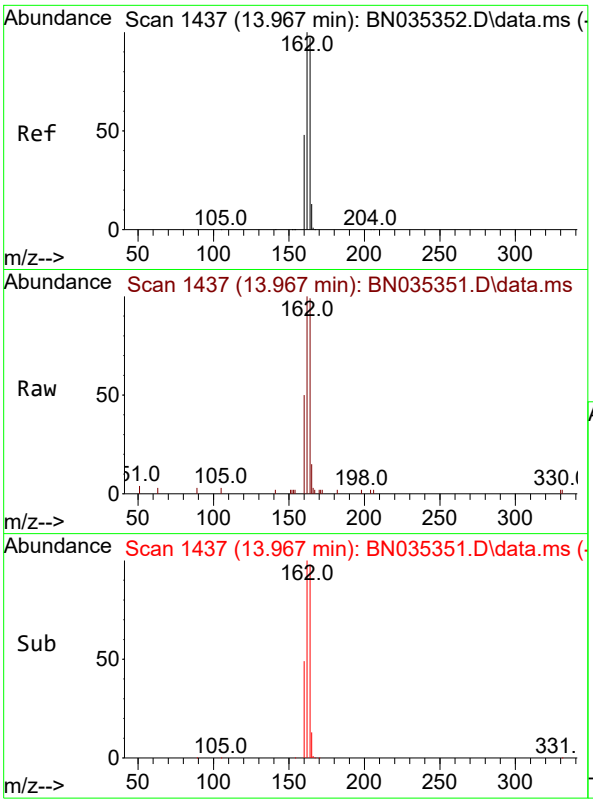


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	41.4	31.4	47.0



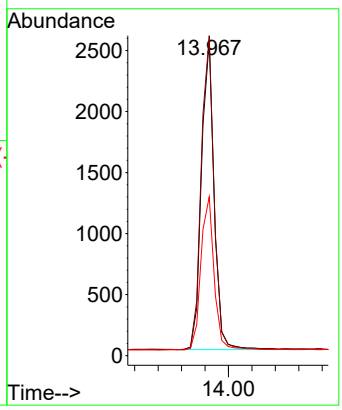


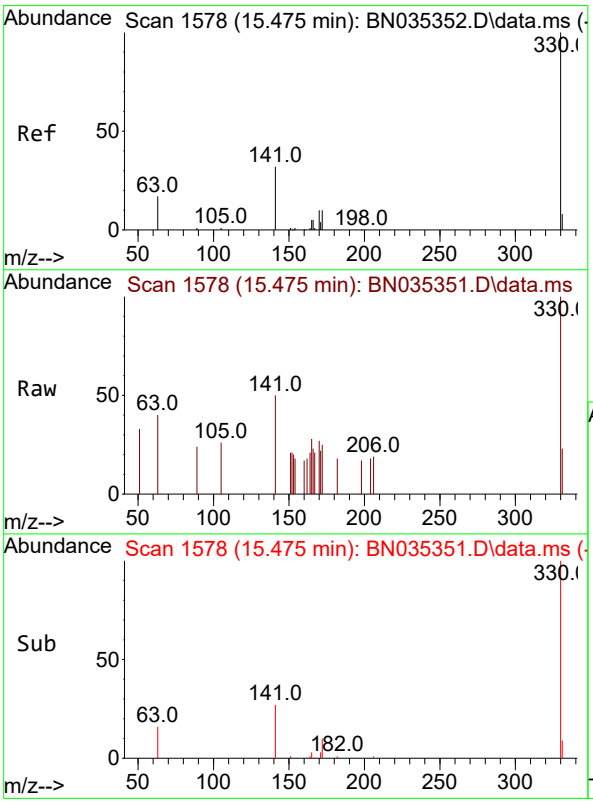
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 3808

Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	50.4	40.1	60.1

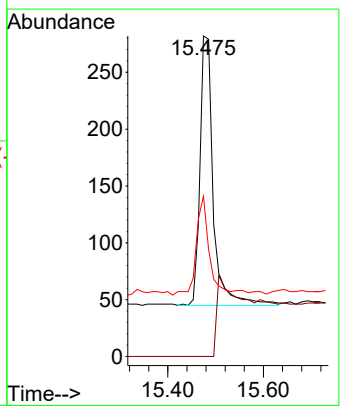


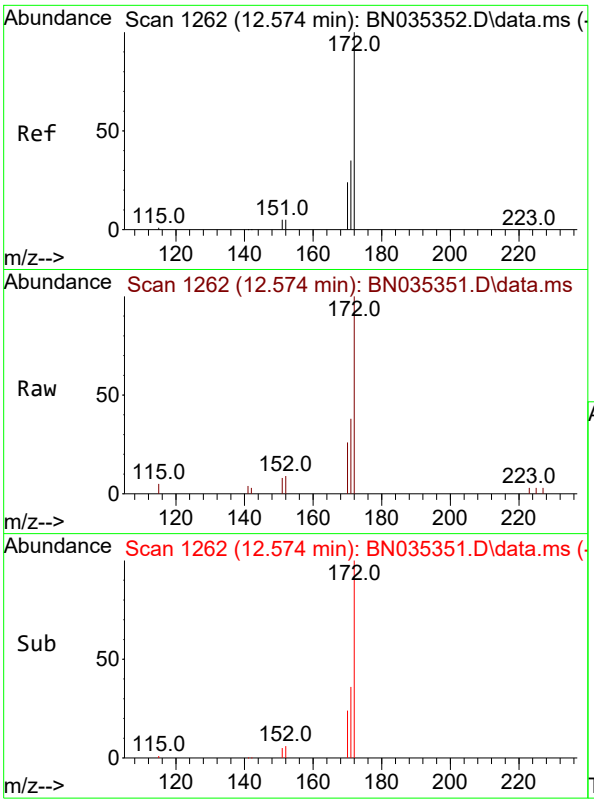


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.2	26.6	40.0



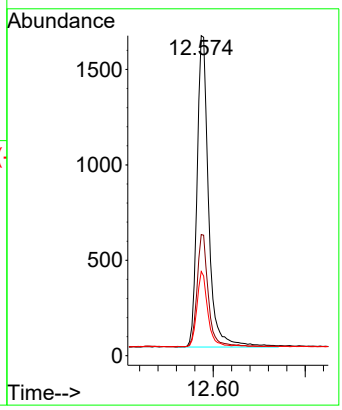


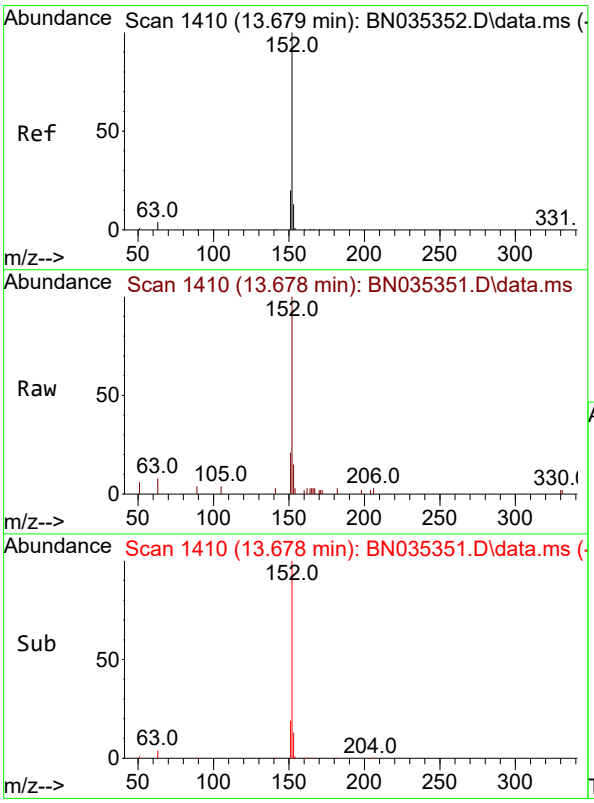
#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 2838

Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.0	43.4
170	26.3	19.8	29.8

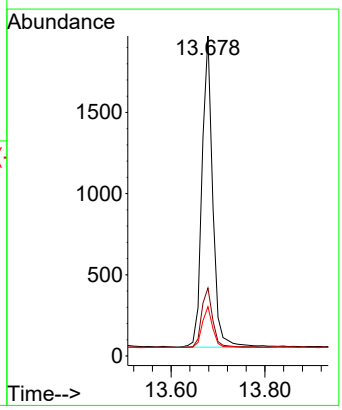


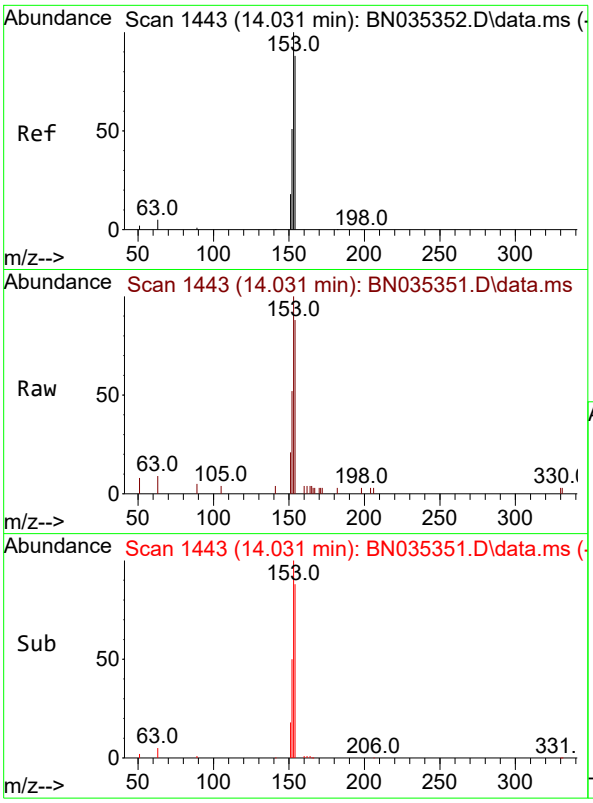


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6



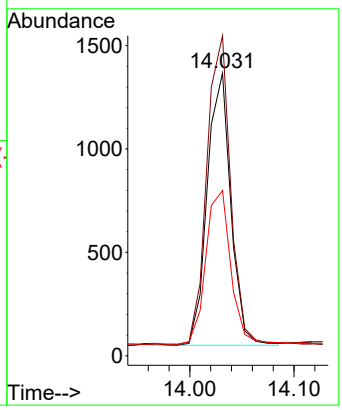


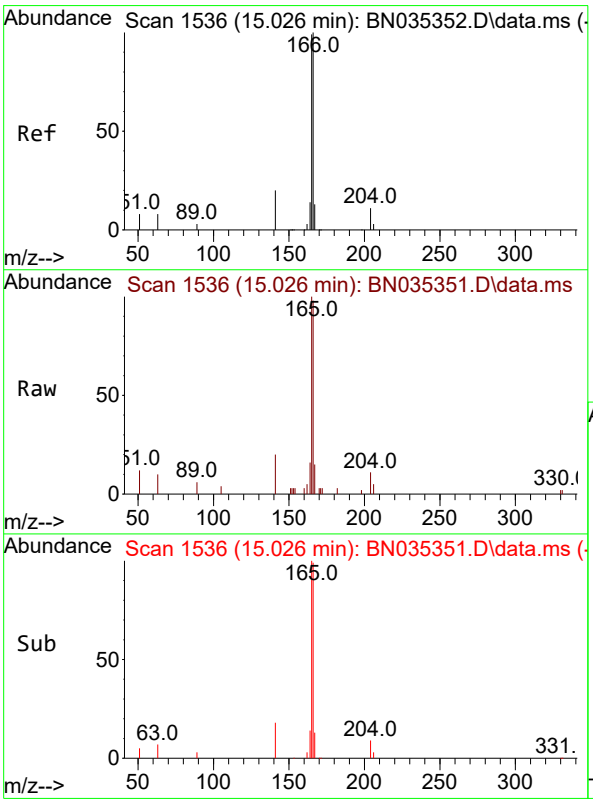
#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 2064

Ion	Ratio	Lower	Upper
154	100		
153	115.2	92.6	139.0
152	60.7	49.0	73.6

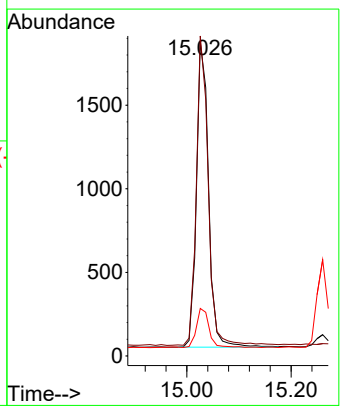


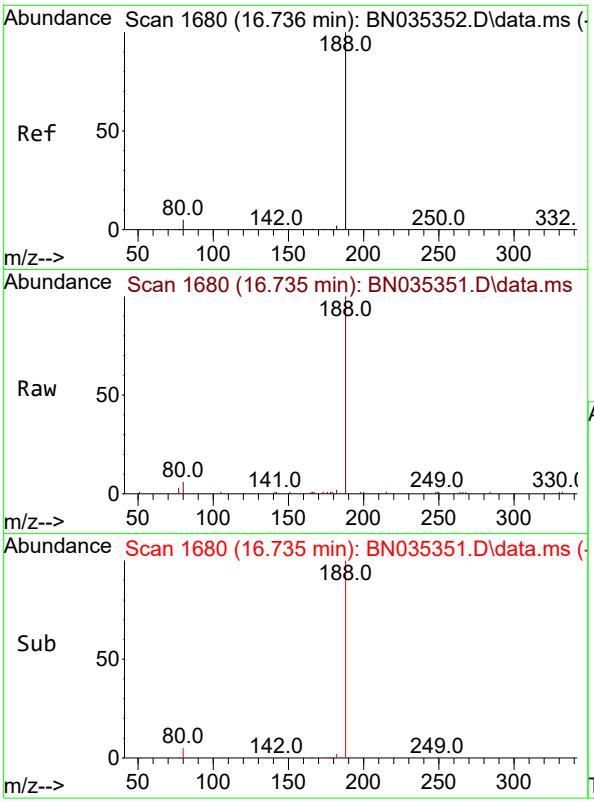


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	14.1	10.8	16.2



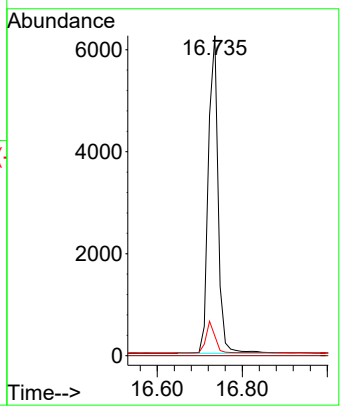


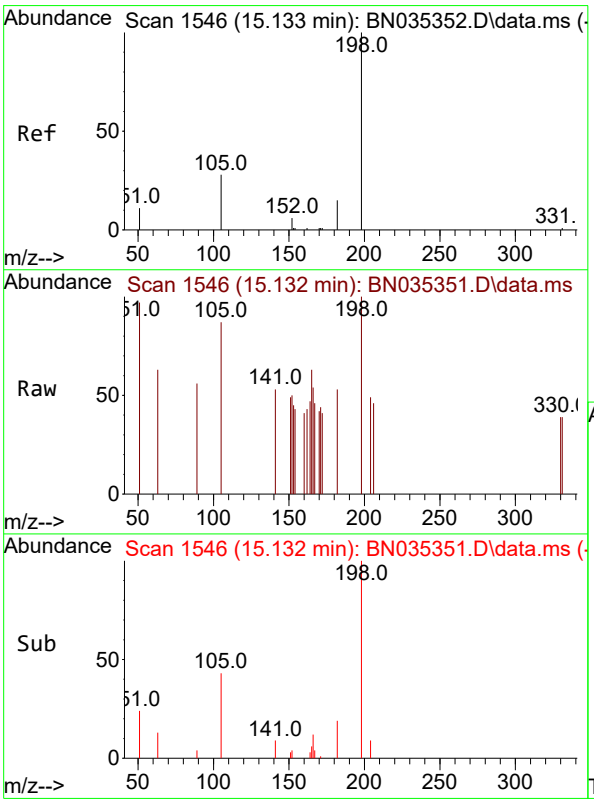
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 9904

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	4.6	6.8

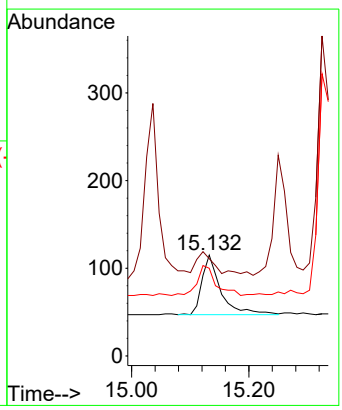


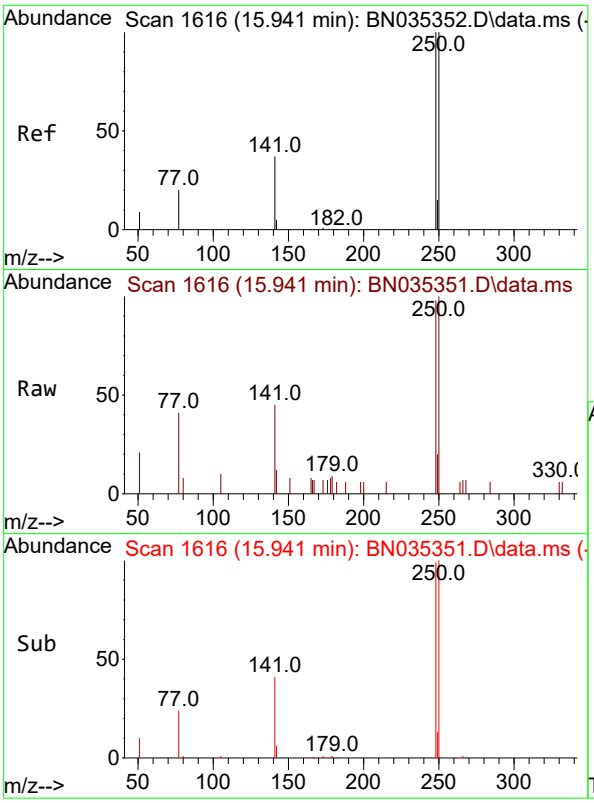


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

Ion	Ratio	Lower	Upper
198	100		
51	96.5	46.5	69.7#
105	87.0	45.3	67.9#



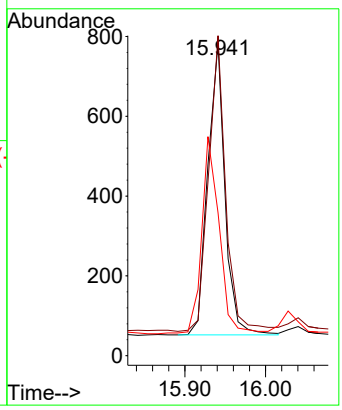


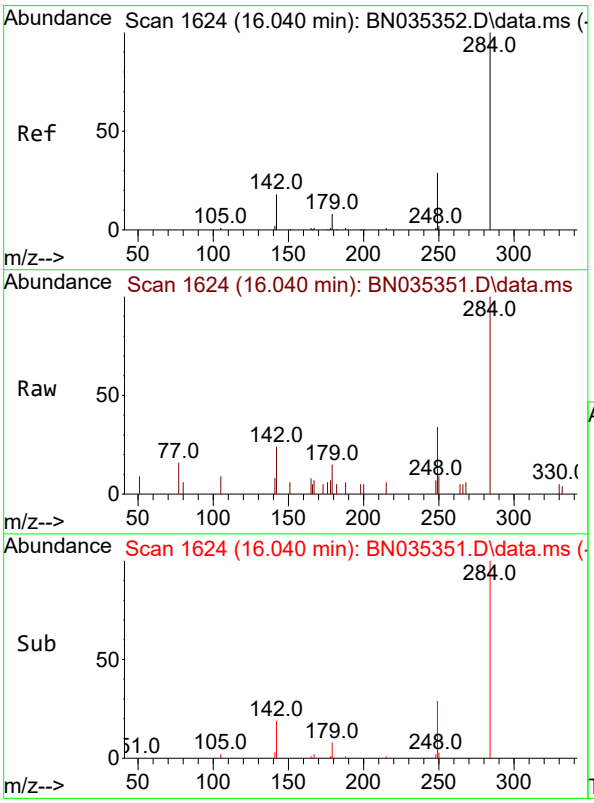
#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1081

Ion	Ratio	Lower	Upper
248	100		
250	102.3	80.6	120.8
141	45.7	31.5	47.3

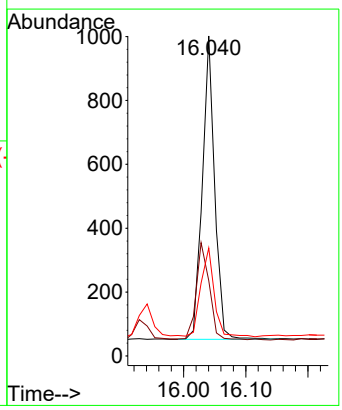


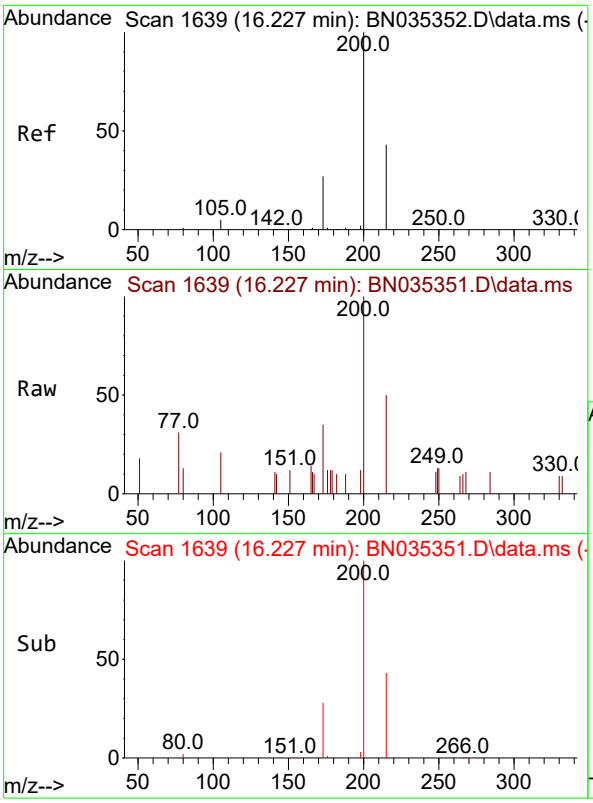


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

Ion	Ratio	Lower	Upper
284	100		
142	34.2	26.7	40.1
249	32.0	24.6	36.8



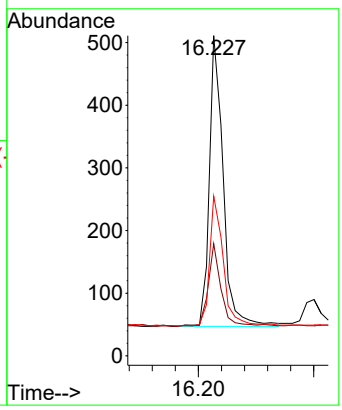


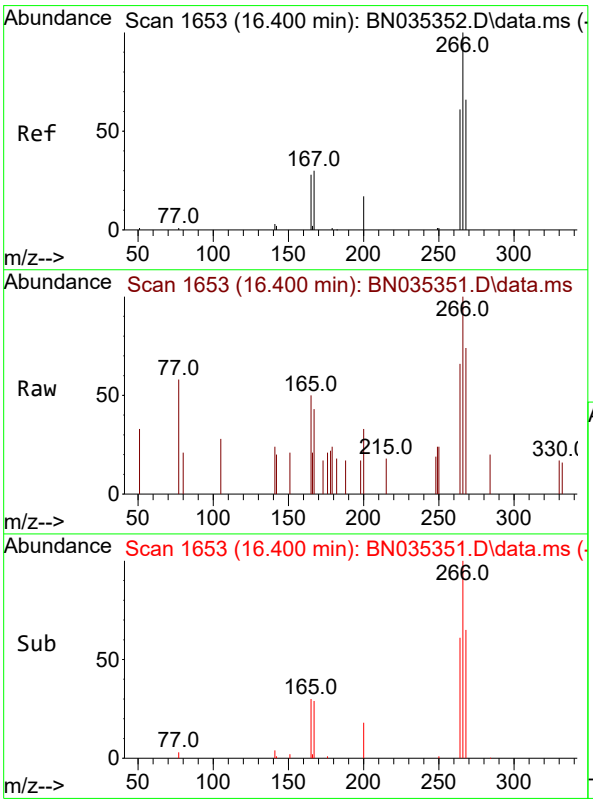
#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 770

Ion	Ratio	Lower	Upper
200	100		
173	35.0	24.1	36.1
215	49.9	36.9	55.3

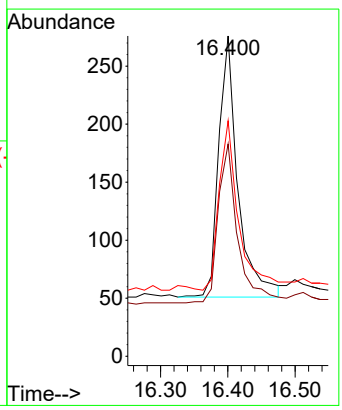


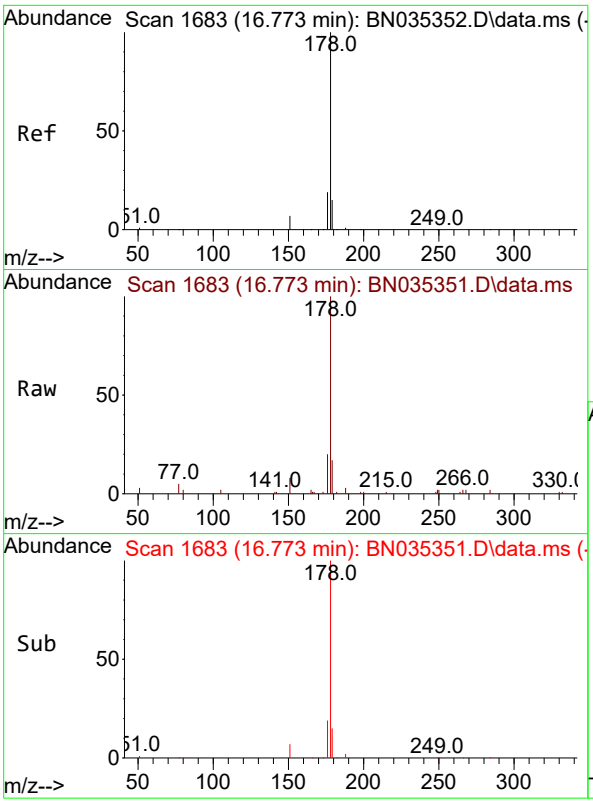


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

Ion	Ratio	Lower	Upper
266	100		
264	62.7	42.3	63.5
268	67.2	43.3	64.9#



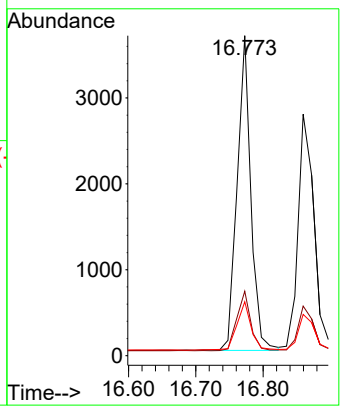


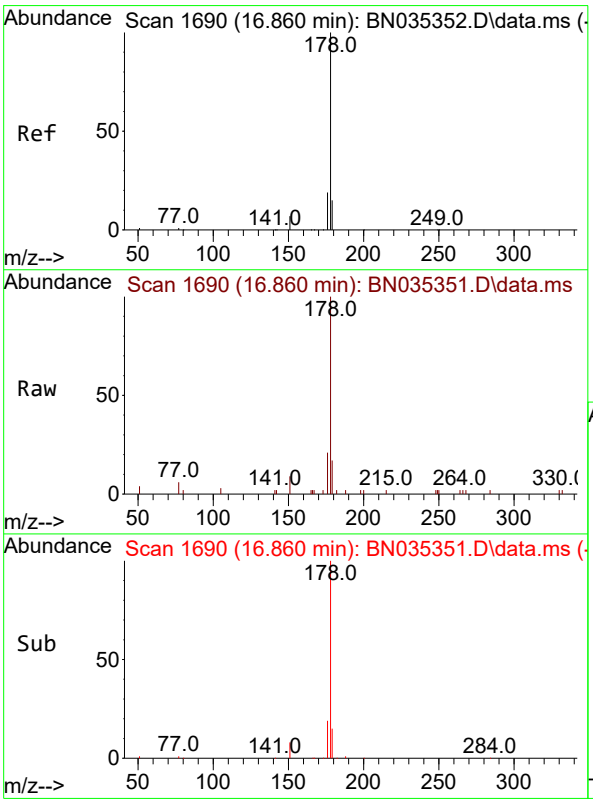
#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 5182

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.9	12.3	18.5

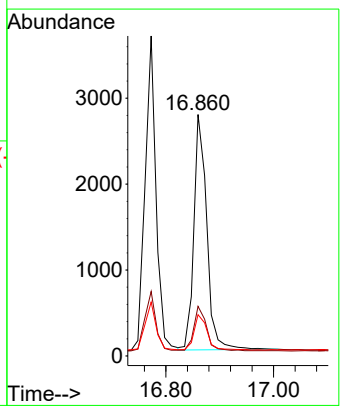


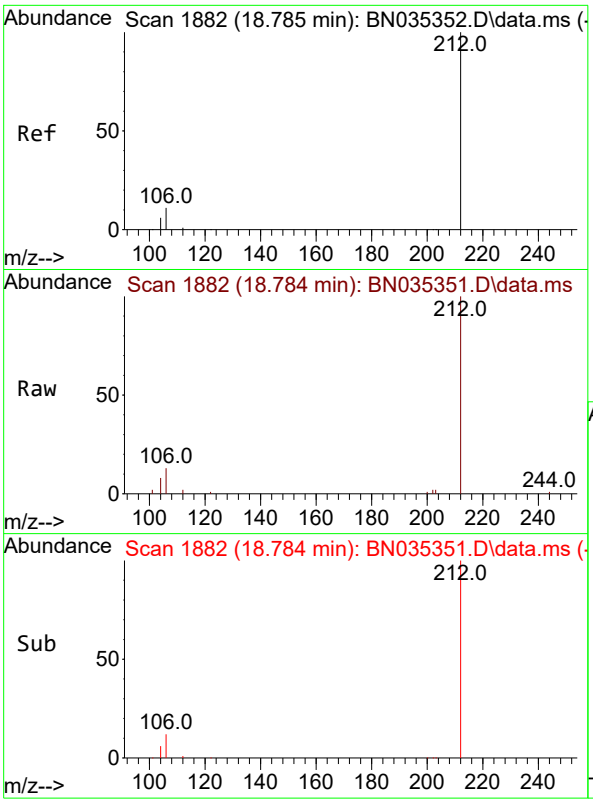


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.6	18.8



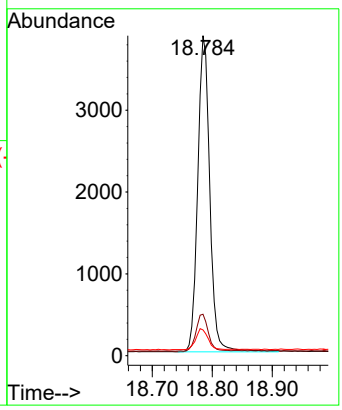


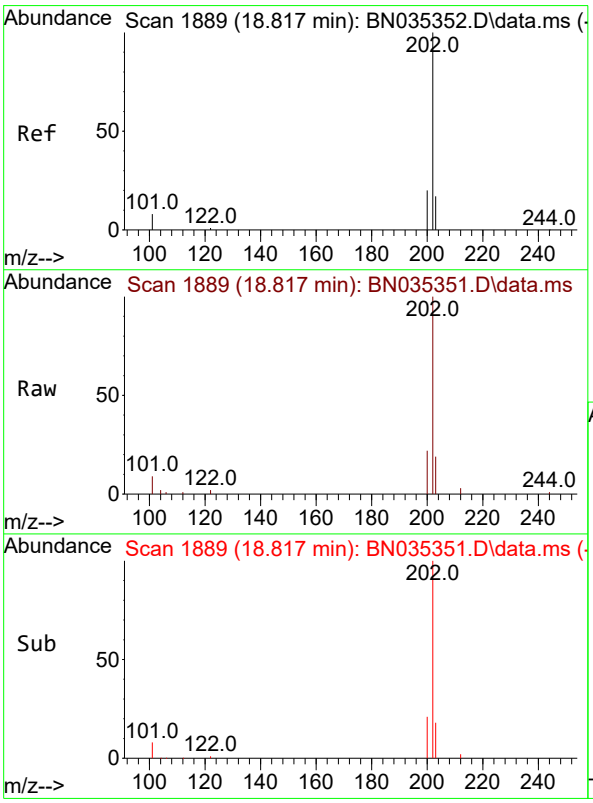
#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 5379

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9

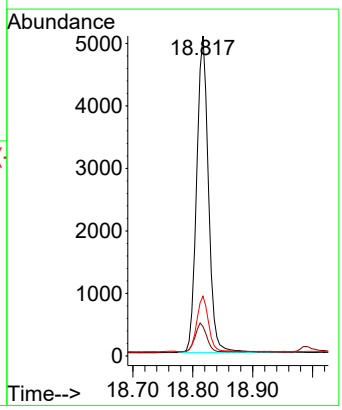


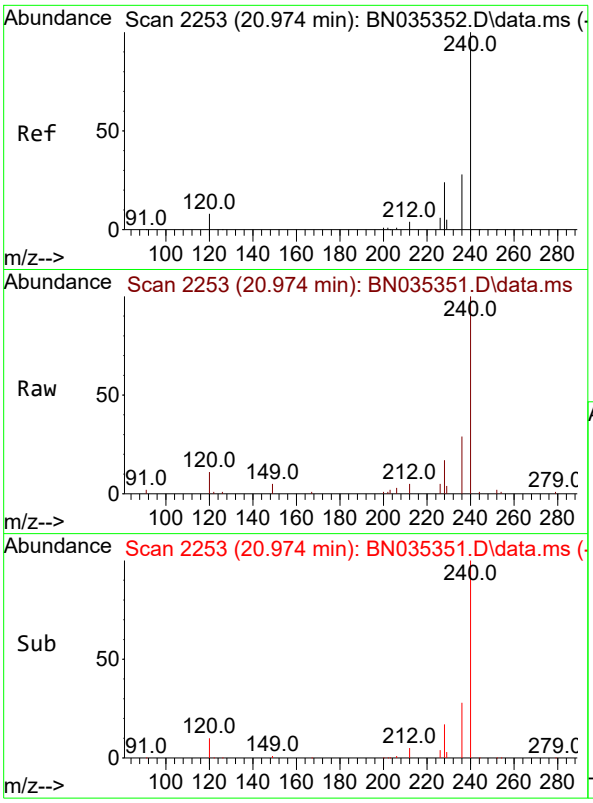


#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	17.3	13.7	20.5



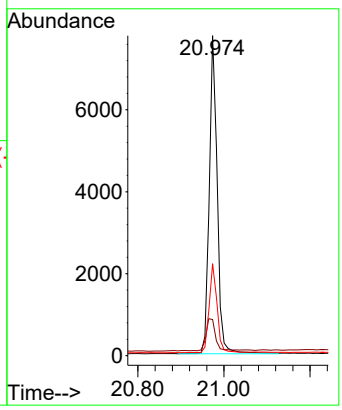


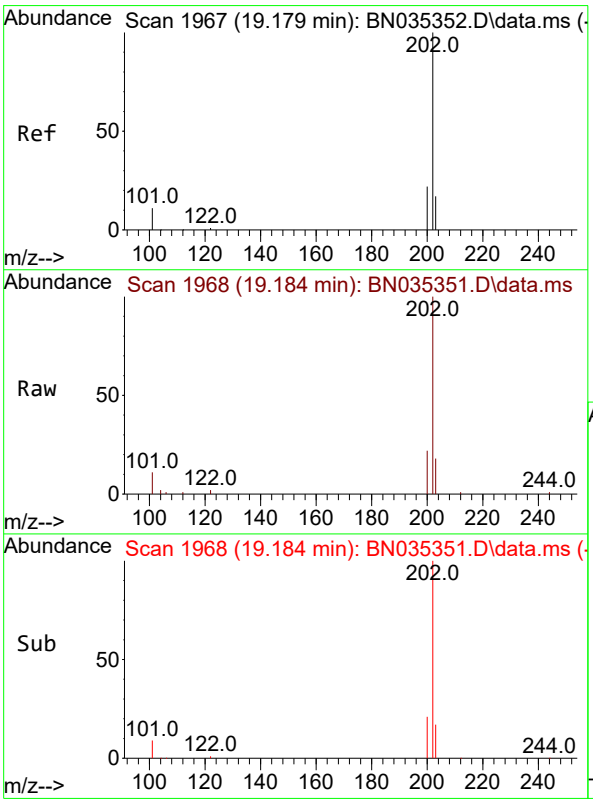
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 9963

Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3

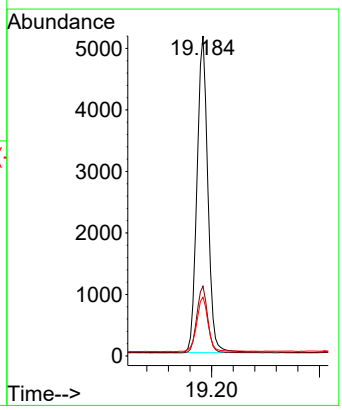


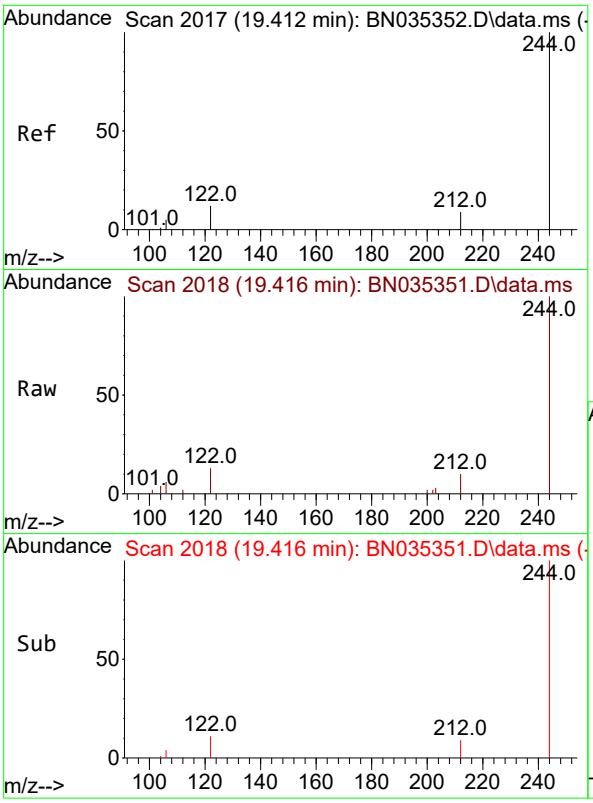


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	14.3	21.5



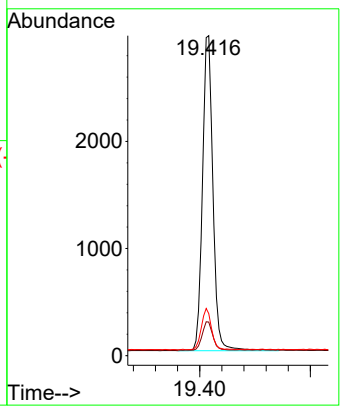


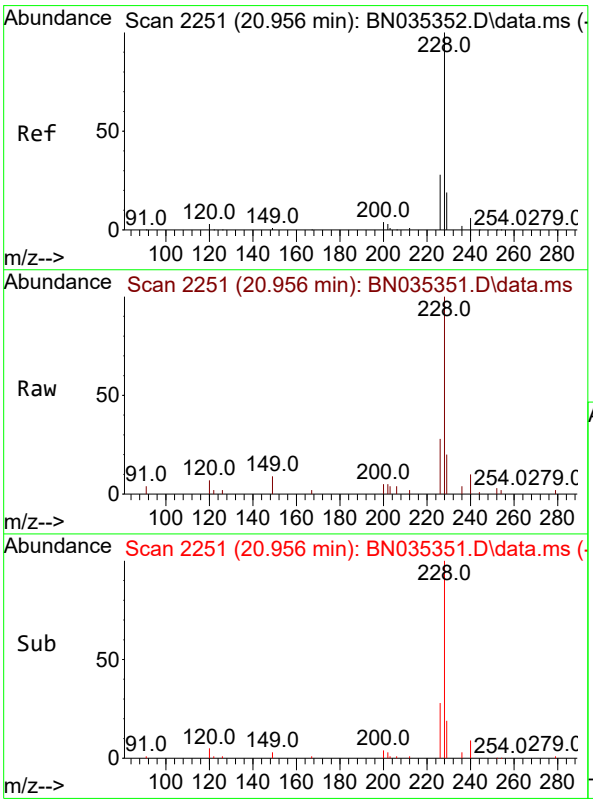
#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 3871

Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5

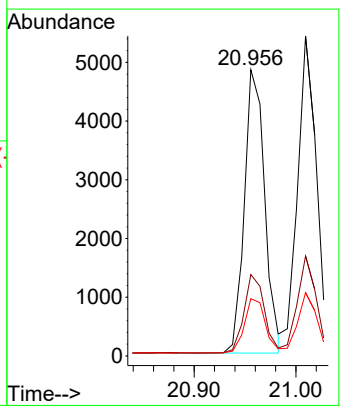


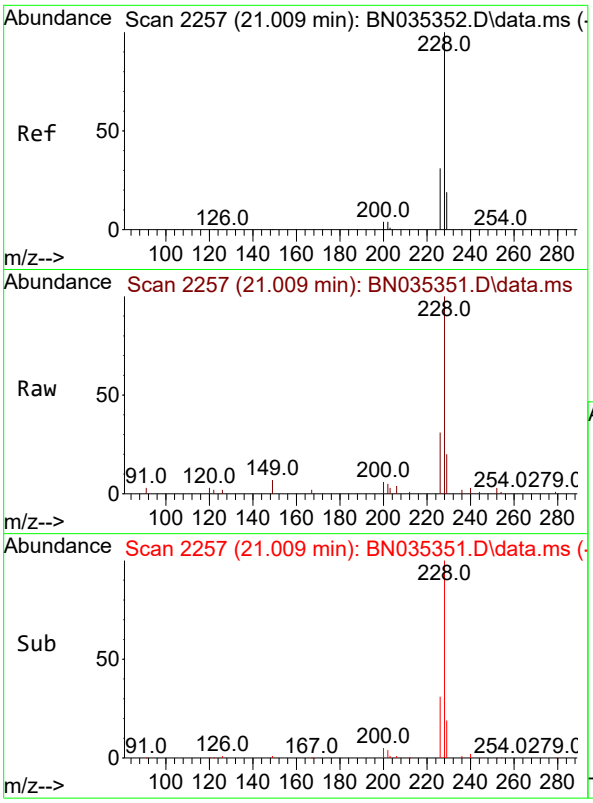


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.0	15.8	23.8



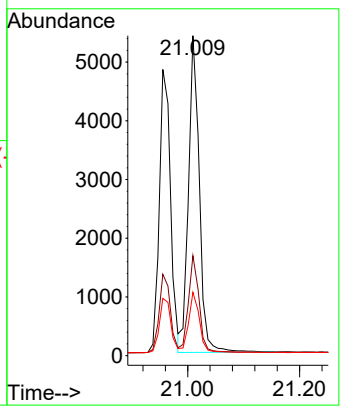


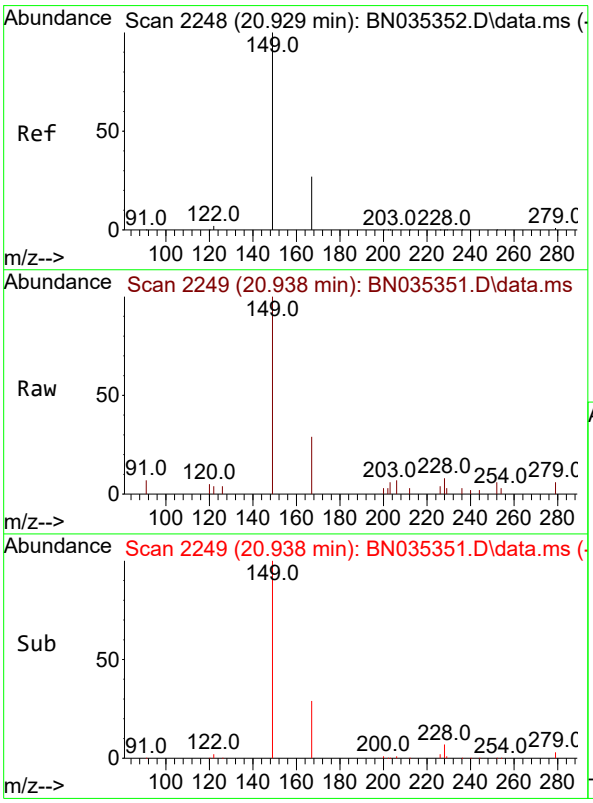
#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 7234

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9

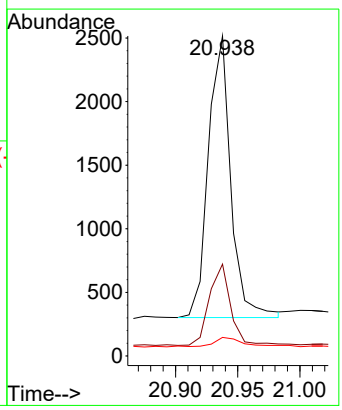


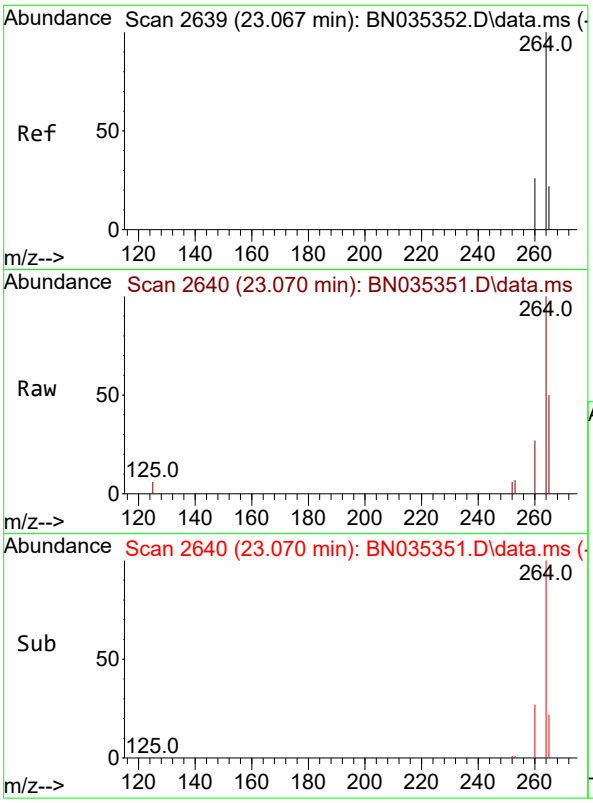


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#



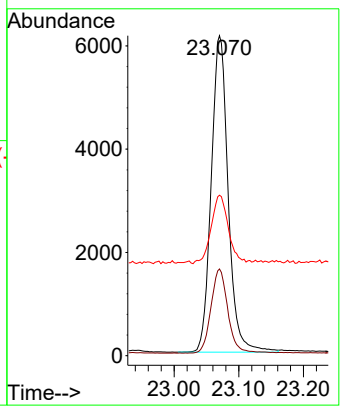


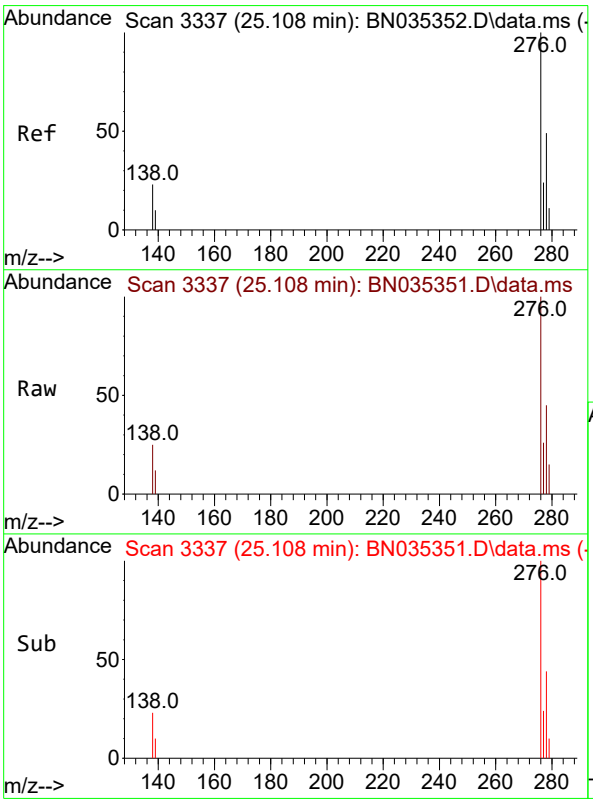
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 11158

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.2	40.2	60.4

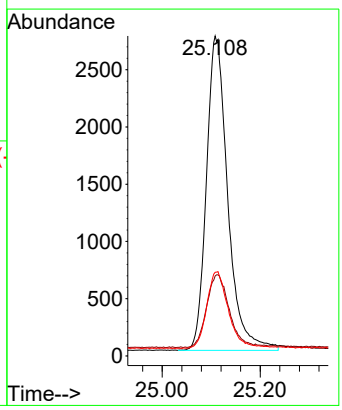


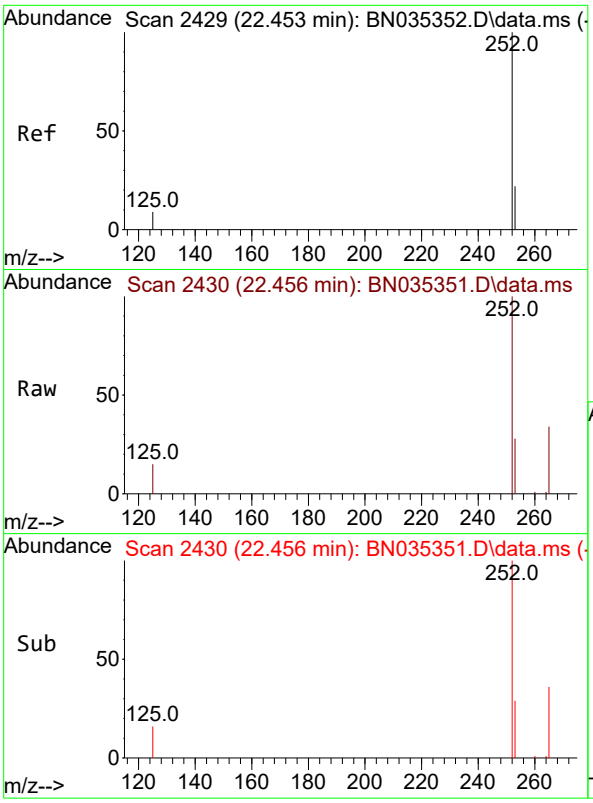


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

Ion	Ratio	Lower	Upper
276	100		
138	24.3	19.4	29.0
277	24.7	19.8	29.6



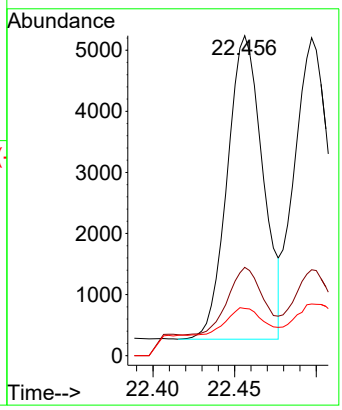


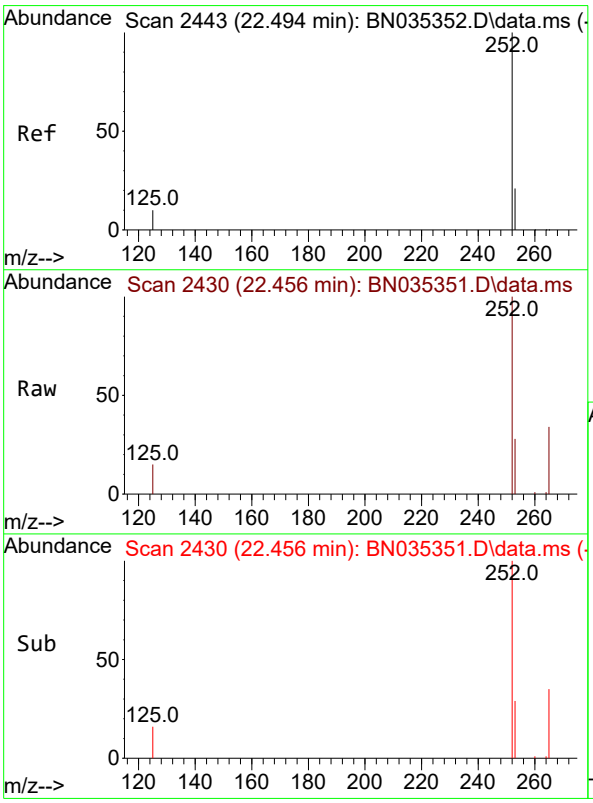
#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 7522

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4#

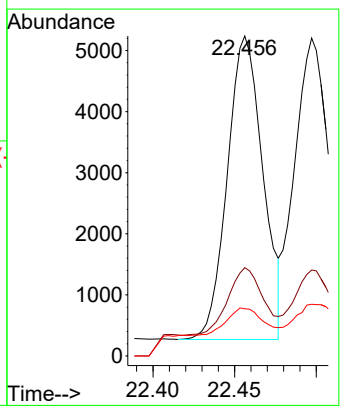


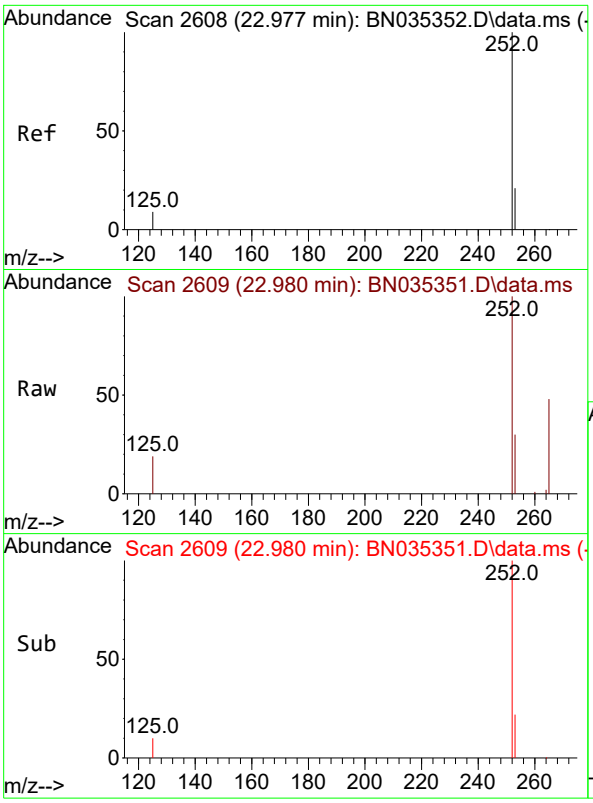


#38
Benzo(k)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.038 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7522

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.5	29.3
125	14.8	10.2	15.4



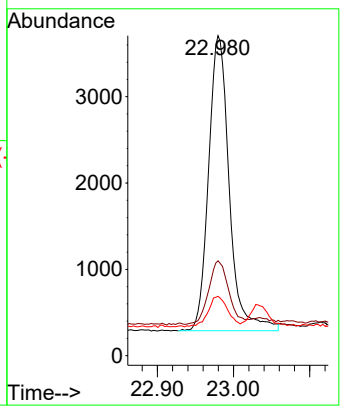


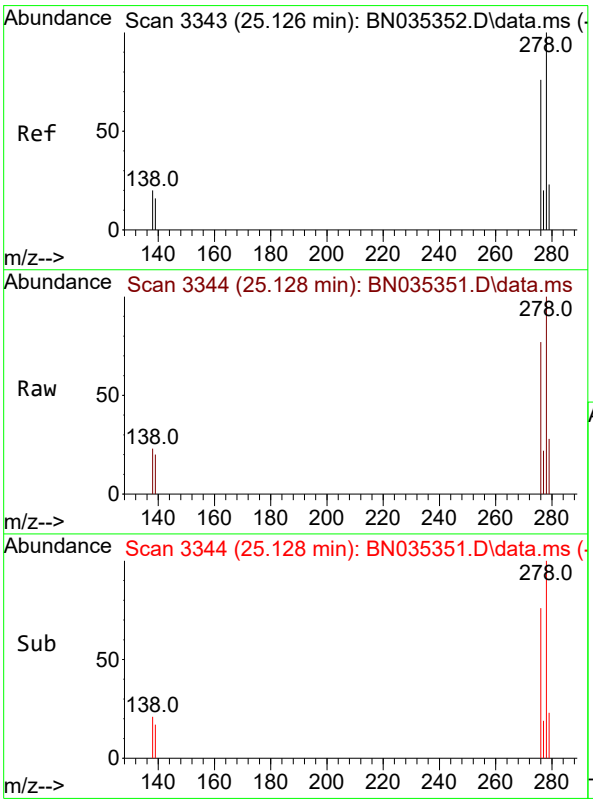
#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 6450

Ion	Ratio	Lower	Upper
252	100		
253	29.7	20.2	30.4
125	18.5	10.9	16.3#

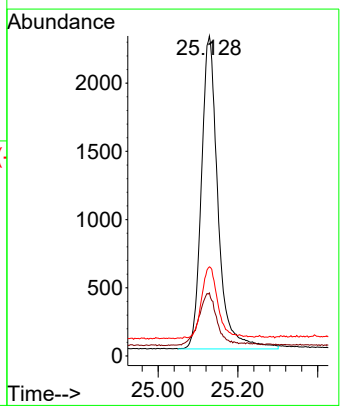


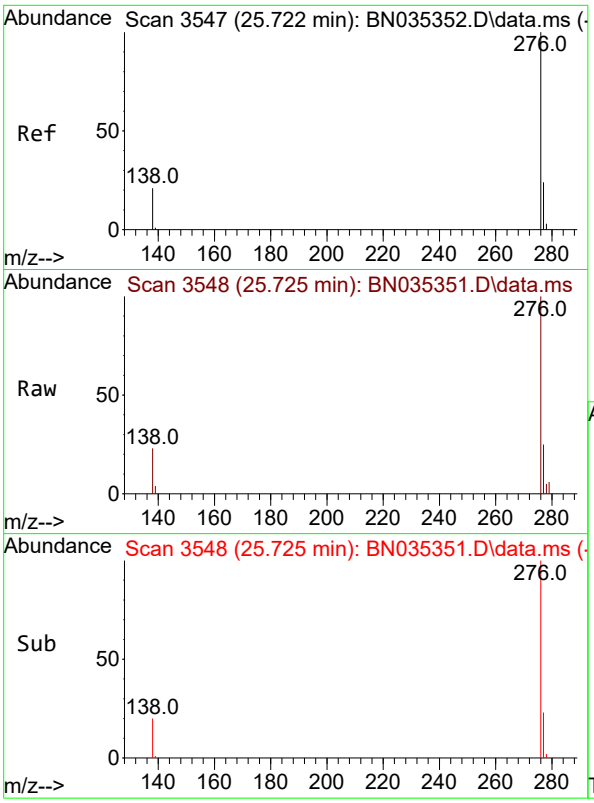


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.9	20.5	30.7



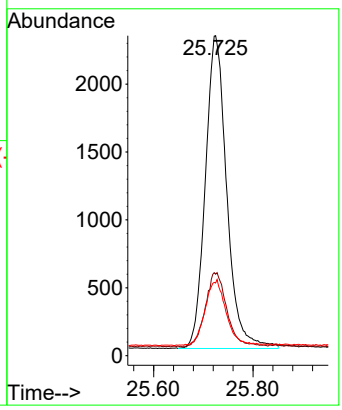


#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 6908

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

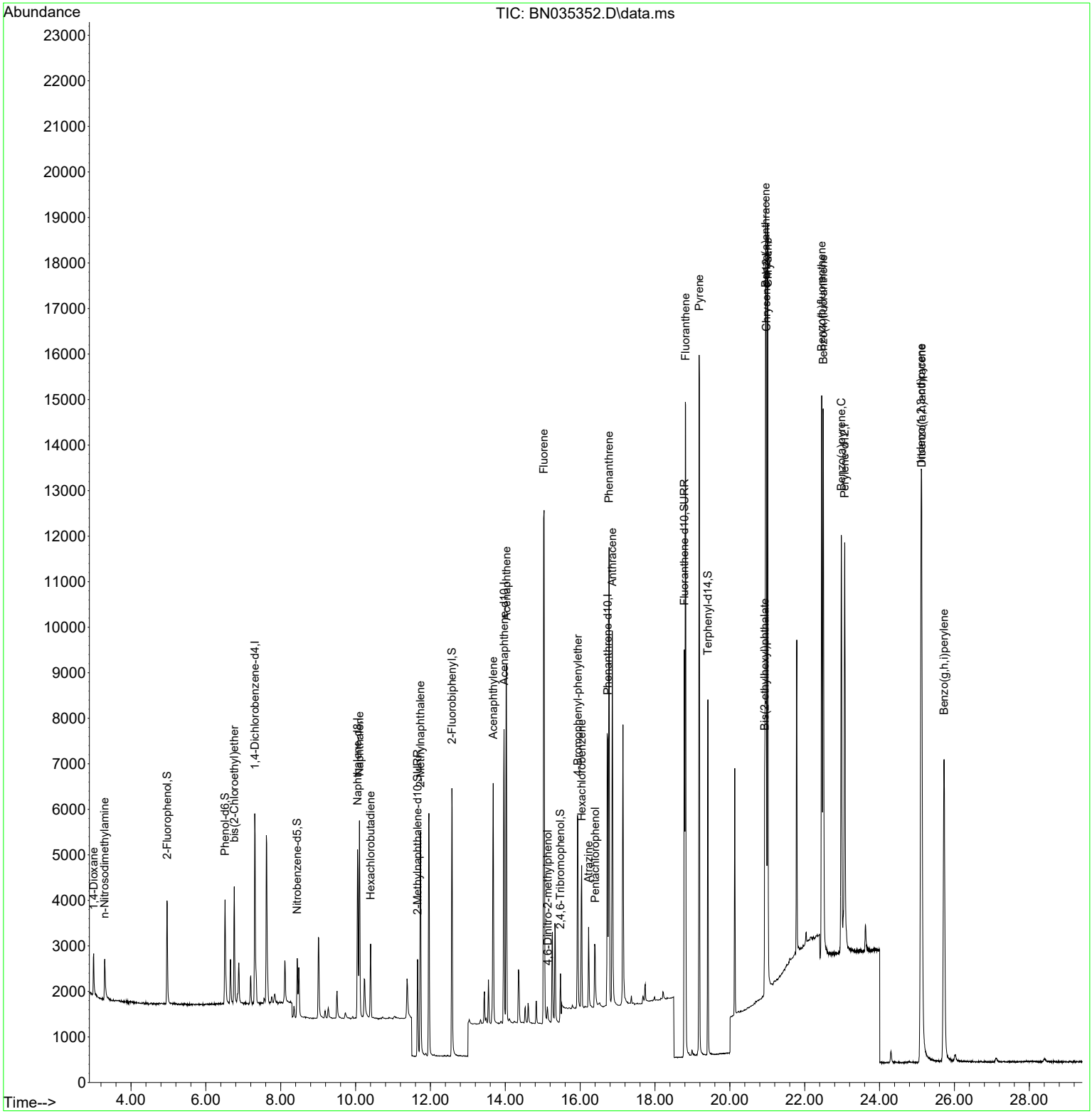
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng		0.00
35) Perylene-d12	23.067	264	10842	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	2085	0.401	ng		0.00
5) Phenol-d6	6.513	99	2444	0.375	ng		0.00
8) Nitrobenzene-d5	8.440	82	1371	0.301	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	3237	0.347	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	975	0.356	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	5735	0.372	ng		0.00
27) Fluoranthene-d10	18.785	212	10223	0.352	ng		0.00
31) Terphenyl-d14	19.412	244	7533	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	771	0.414	ng		100
3) n-Nitrosodimethylamine	3.292	42	668	0.385	ng		100
6) bis(2-Chloroethyl)ether	6.759	93	2032	0.415	ng		100
9) Naphthalene	10.105	128	5475	0.401	ng		100
10) Hexachlorobutadiene	10.404	225	1292	0.323	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3867	0.384	ng		100
16) Acenaphthylene	13.679	152	6058	0.373	ng		100
17) Acenaphthene	14.031	154	4125	0.388	ng		100
18) Fluorene	15.026	166	5863	0.375	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	337	0.171	ng		100
21) 4-Bromophenyl-phenylether	15.941	248	2146	0.355	ng		100
22) Hexachlorobenzene	16.040	284	2590	0.413	ng		100
23) Atrazine	16.227	200	1461	0.269	ng		100
24) Pentachlorophenol	16.400	266	906	0.309	ng		87
25) Phenanthrene	16.773	178	10127	0.405	ng		100
26) Anthracene	16.860	178	8921	0.389	ng		100
28) Fluoranthene	18.817	202	13438	0.391	ng		100
30) Pyrene	19.179	202	14053	0.443	ng		100
32) Benzo(a)anthracene	20.956	228	12908	0.389	ng		100
33) Chrysene	21.009	228	13729	0.418	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.282	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	16615	0.384	ng		100
37) Benzo(b)fluoranthene	22.453	252	14235	0.390	ng		100
38) Benzo(k)fluoranthene	22.494	252	15199	0.416	ng		100
39) Benzo(a)pyrene	22.977	252	12425	0.387	ng		100
40) Dibenzo(a,h)anthracene	25.126	278	12948	0.378	ng		100
41) Benzo(g,h,i)perylene	25.722	276	13529	0.371	ng		100

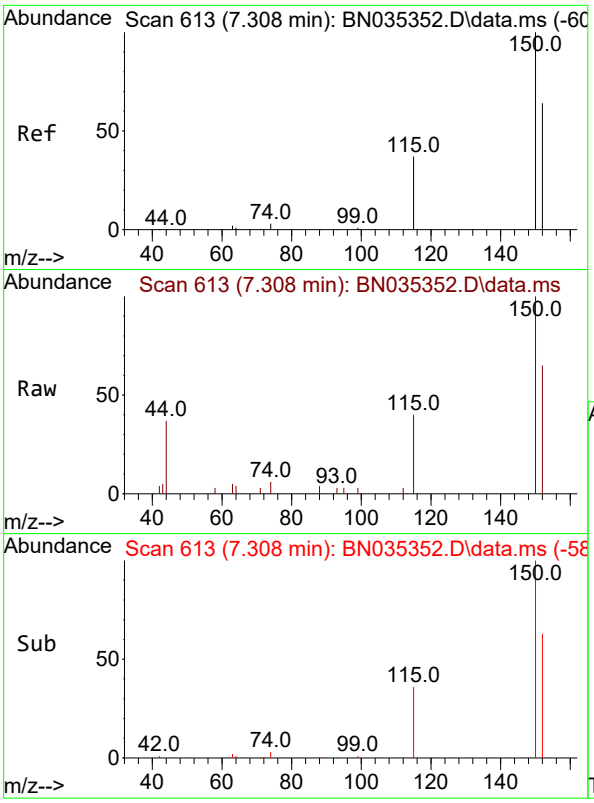
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



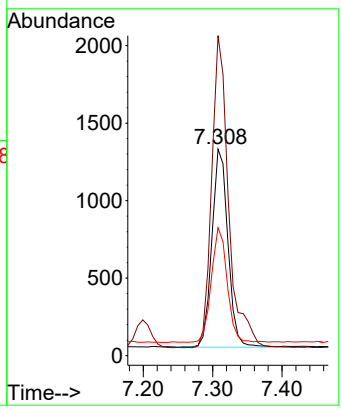


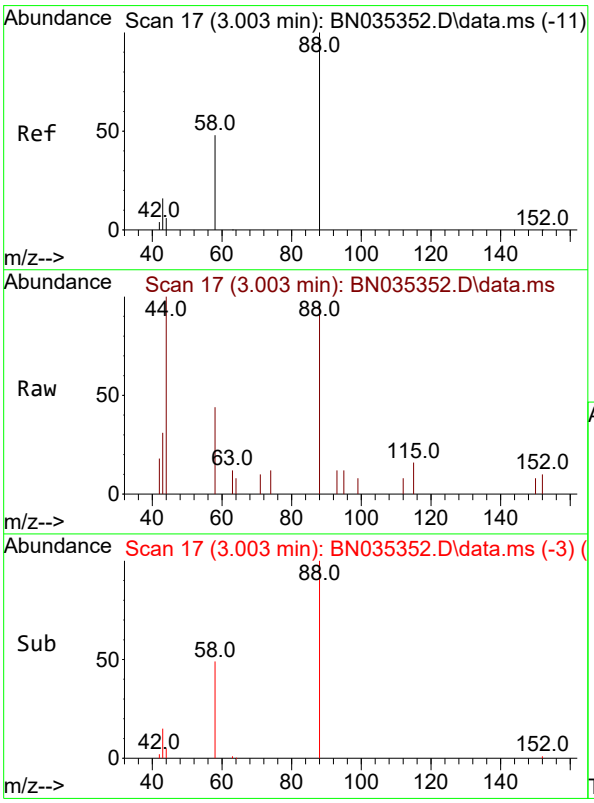
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2048

Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.0	186.0
115	62.0	49.6	74.4

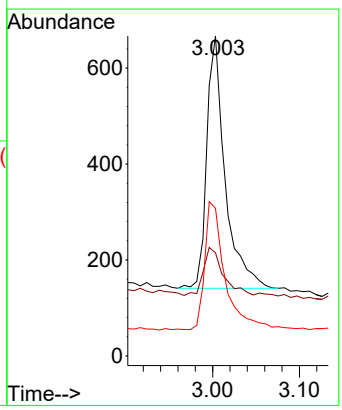


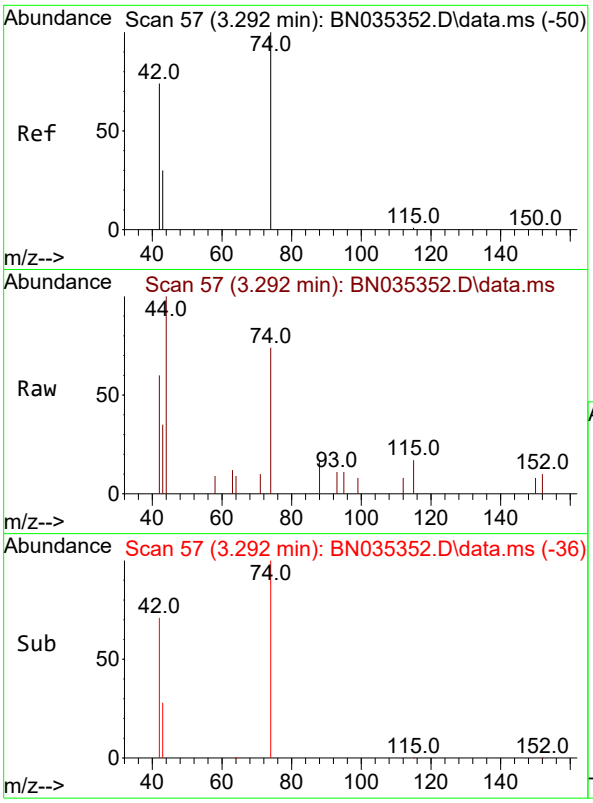


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	55.6	44.5	66.7



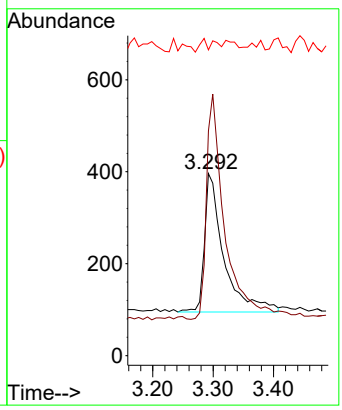


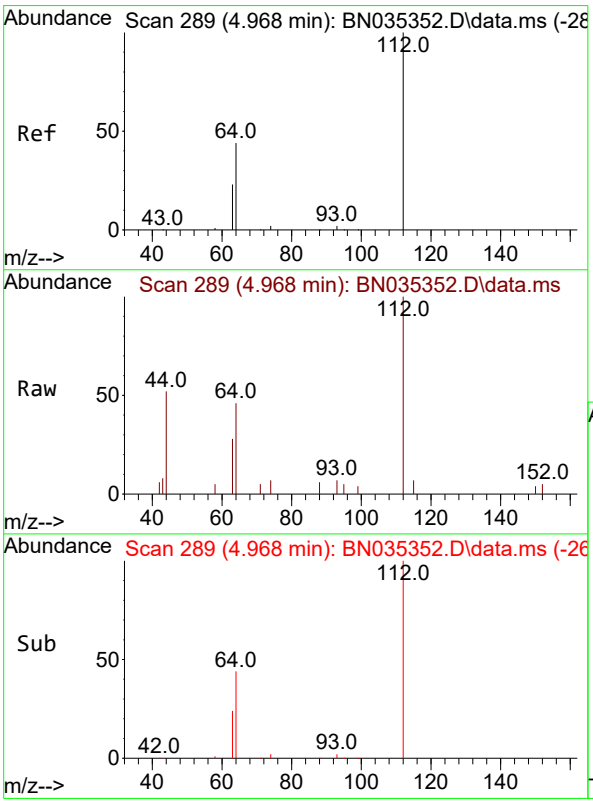
#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 668

Ion	Ratio	Lower	Upper
42	100		
74	156.1	124.9	187.3
44	2.8	2.2	3.4

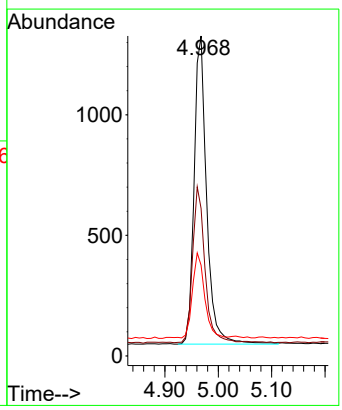


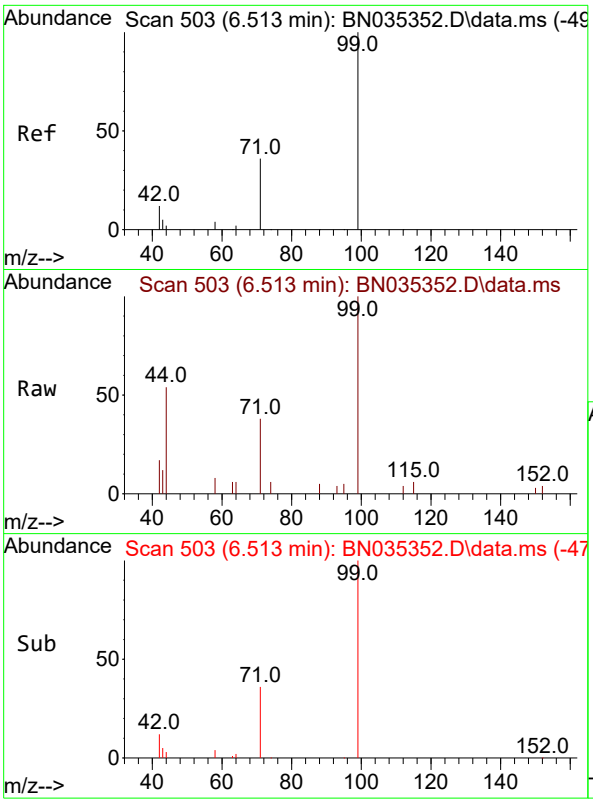


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:112 Resp: 2085

Ion	Ratio	Lower	Upper
112	100		
64	49.8	39.8	59.8
63	26.3	21.0	31.6



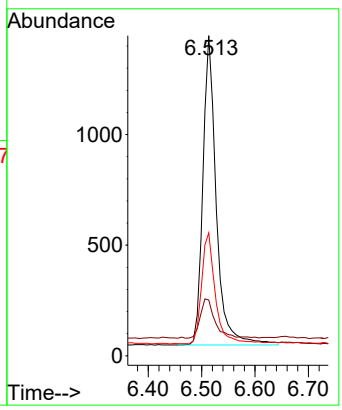


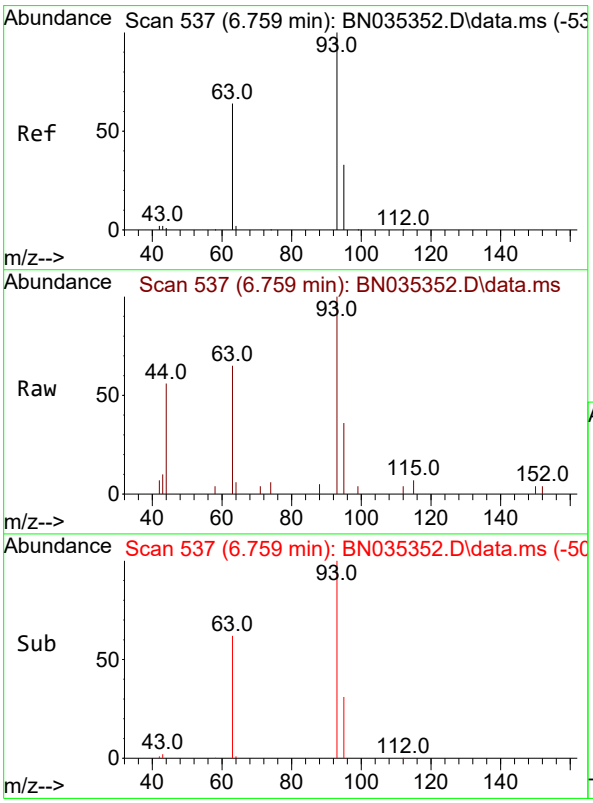
#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 2444

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9

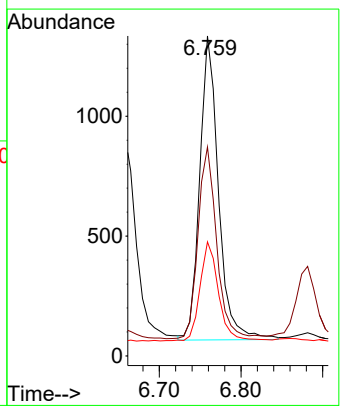


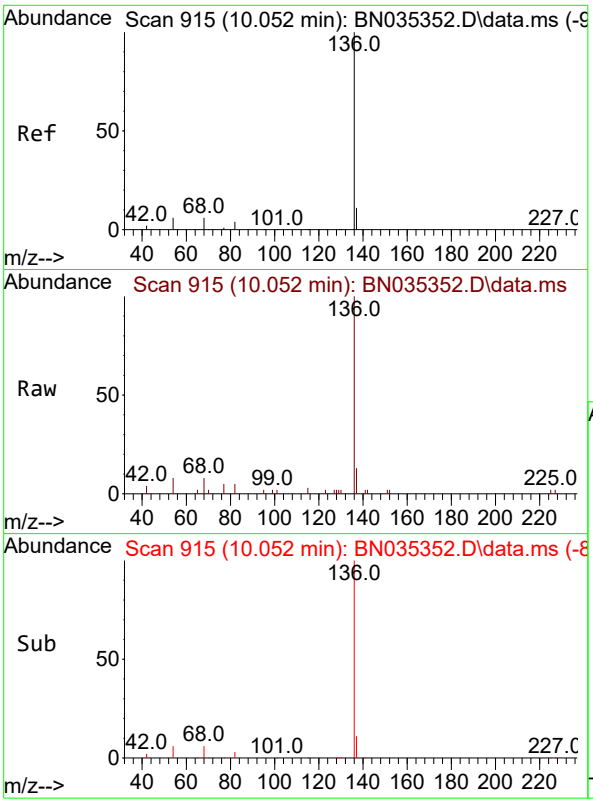


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5



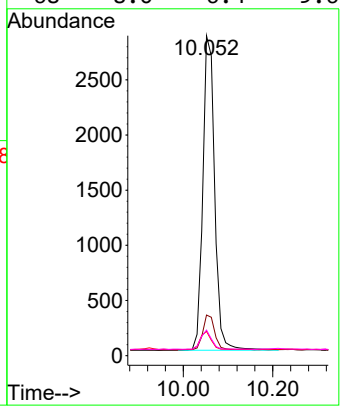


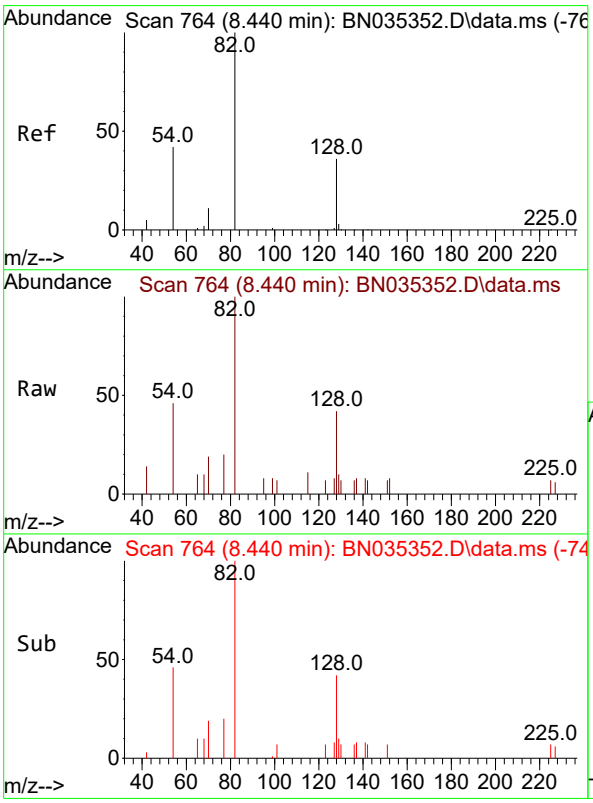
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 5229

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6

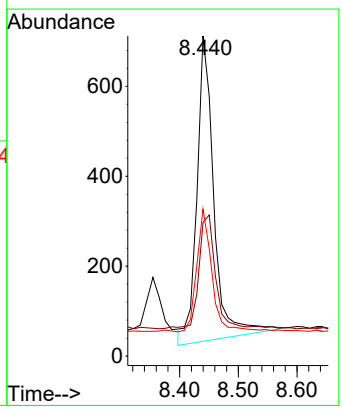


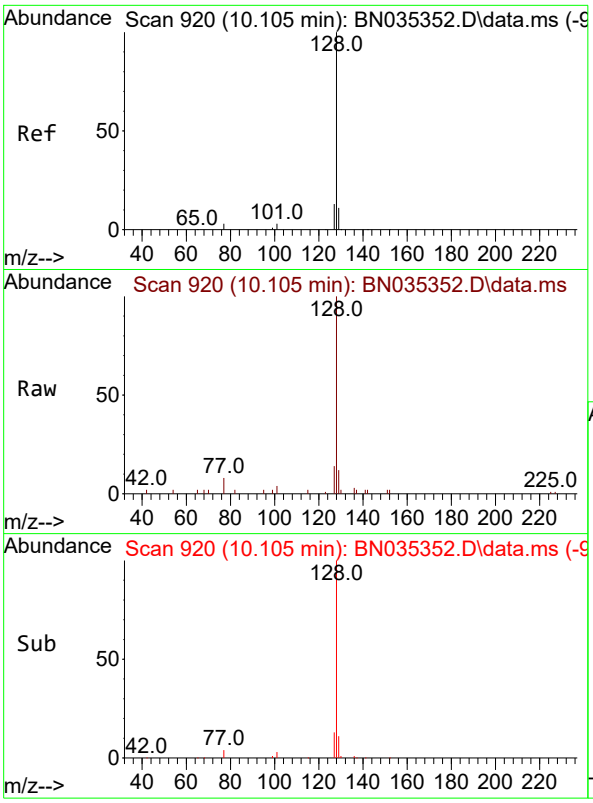


#8
Nitrobenzene-d5
Concen: 0.301 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1371

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1



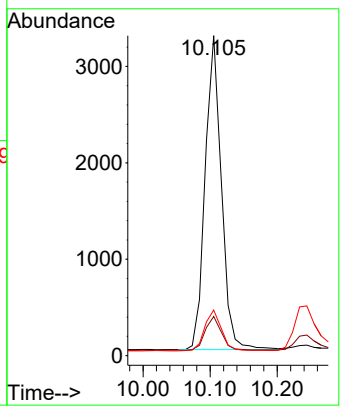


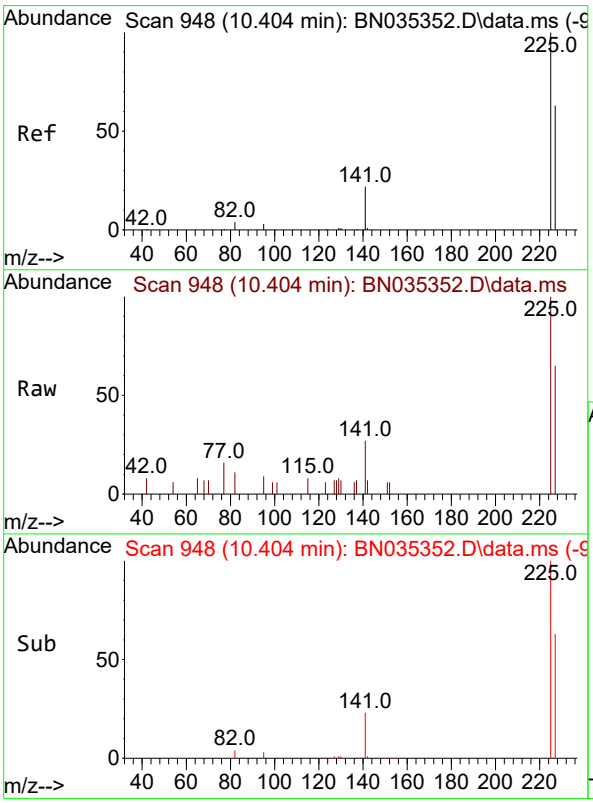
#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 5475

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2

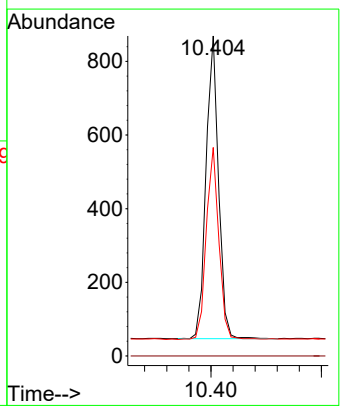


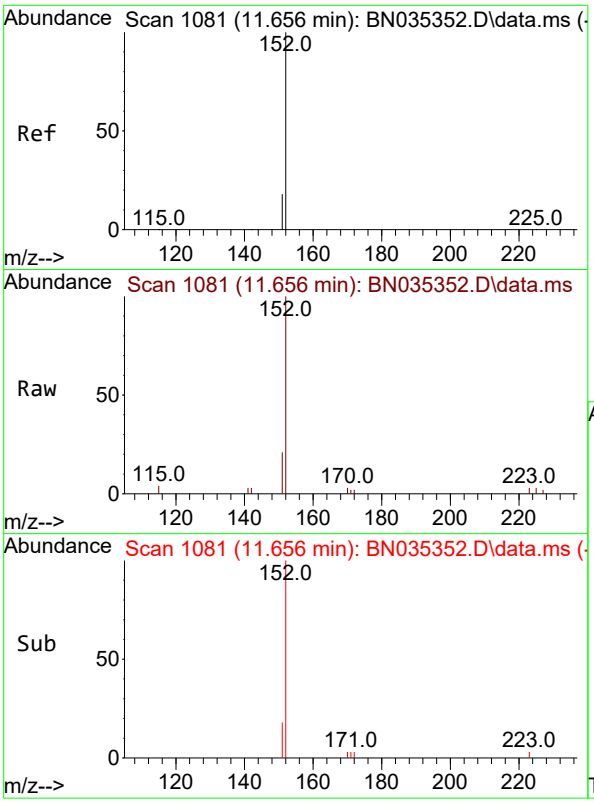


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



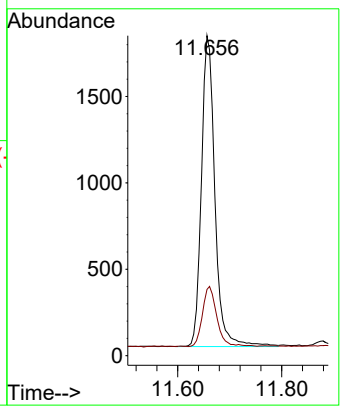


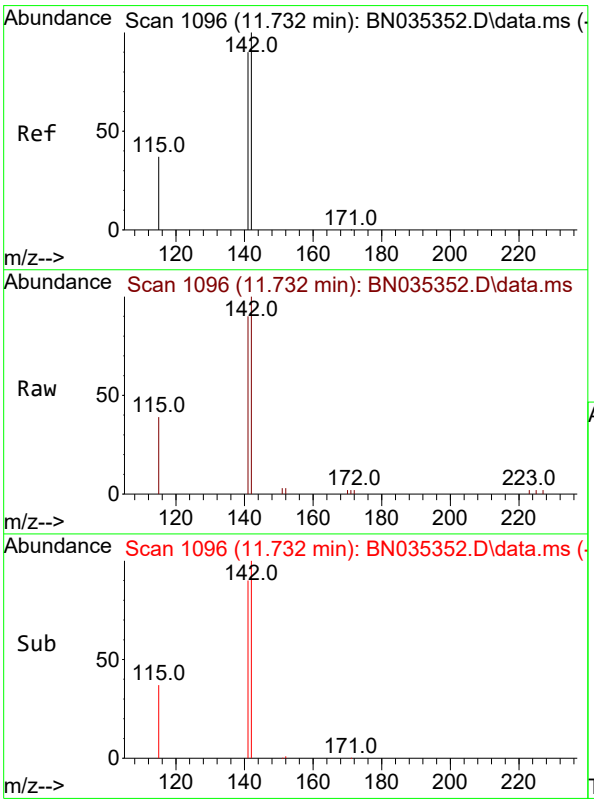
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3237

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

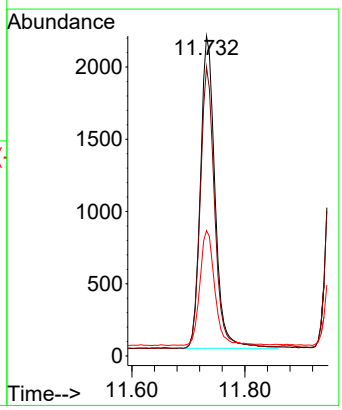


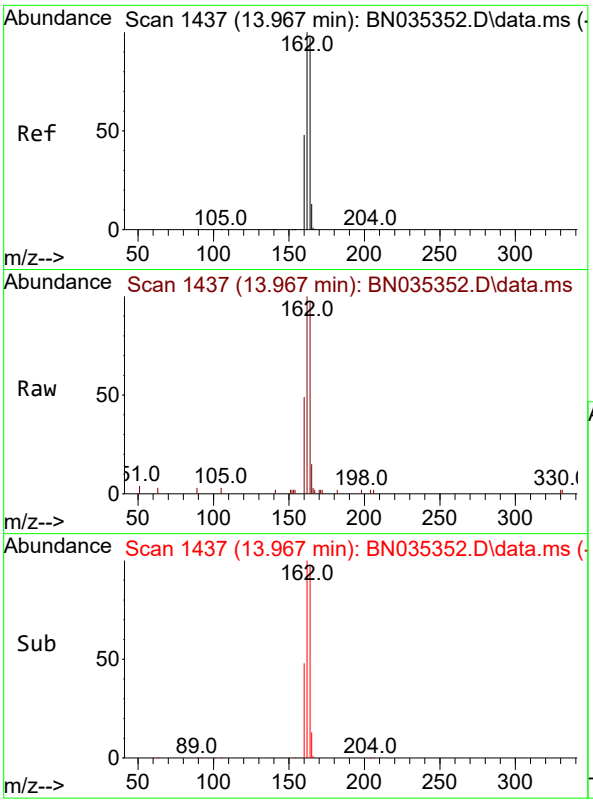


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.2	31.4	47.0



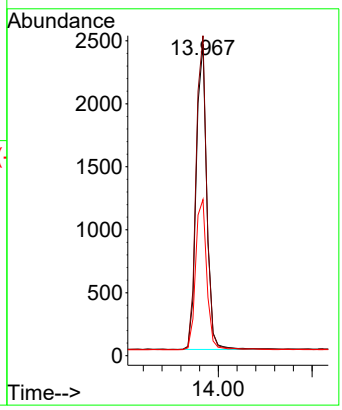


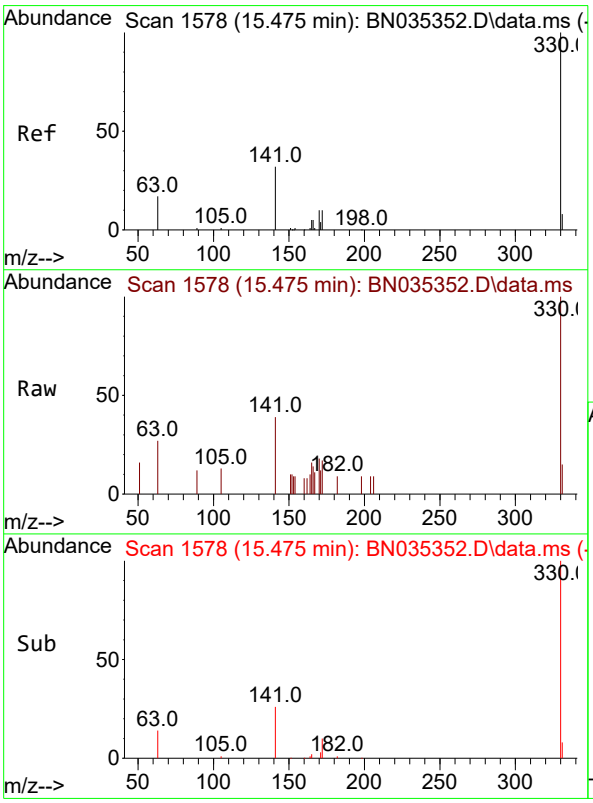
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 3799

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.1	40.1	60.1

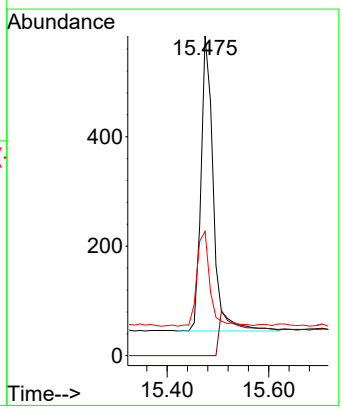


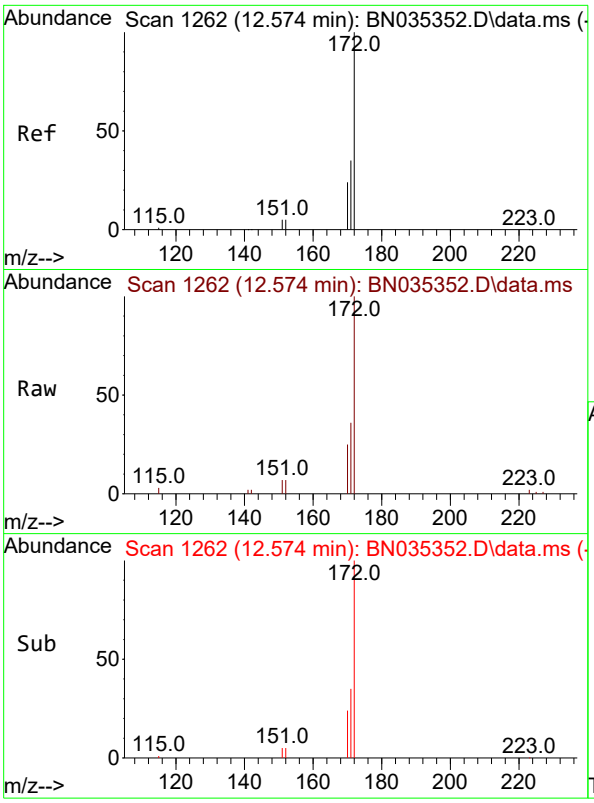


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0



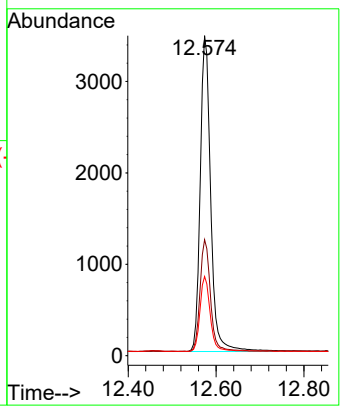


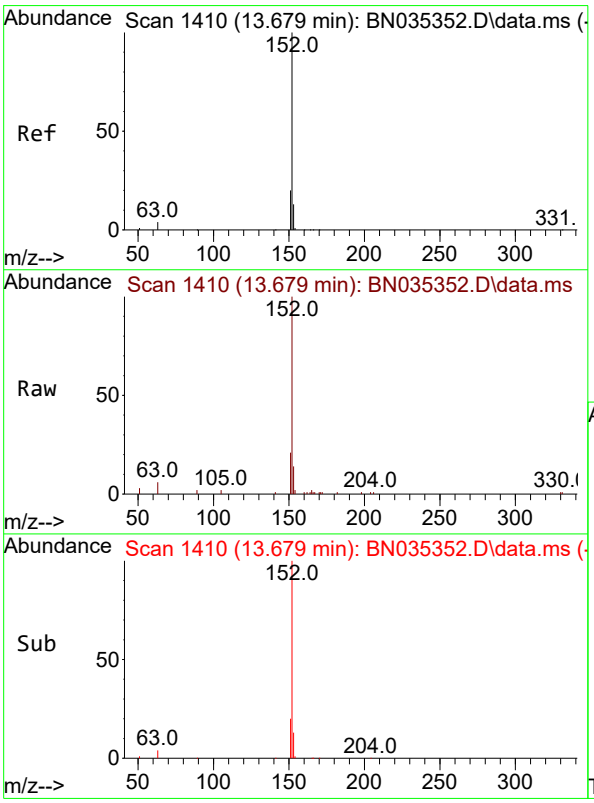
#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 5735

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8

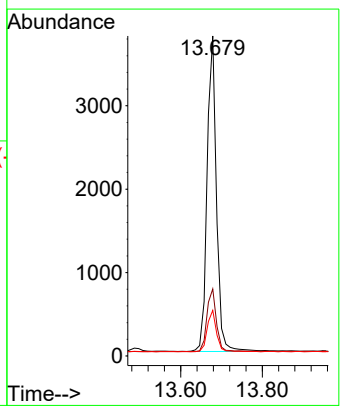


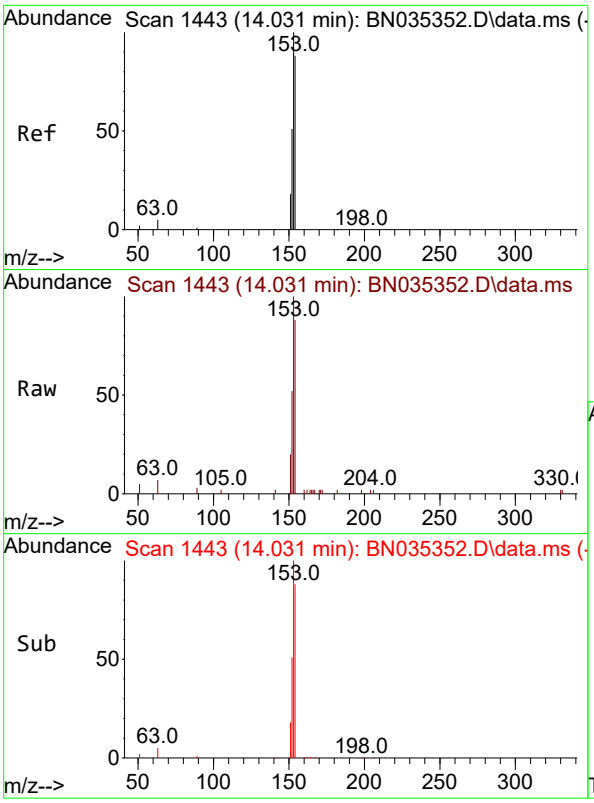


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6



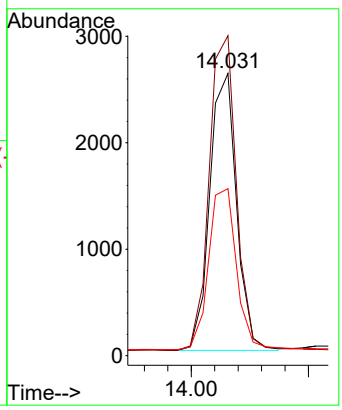


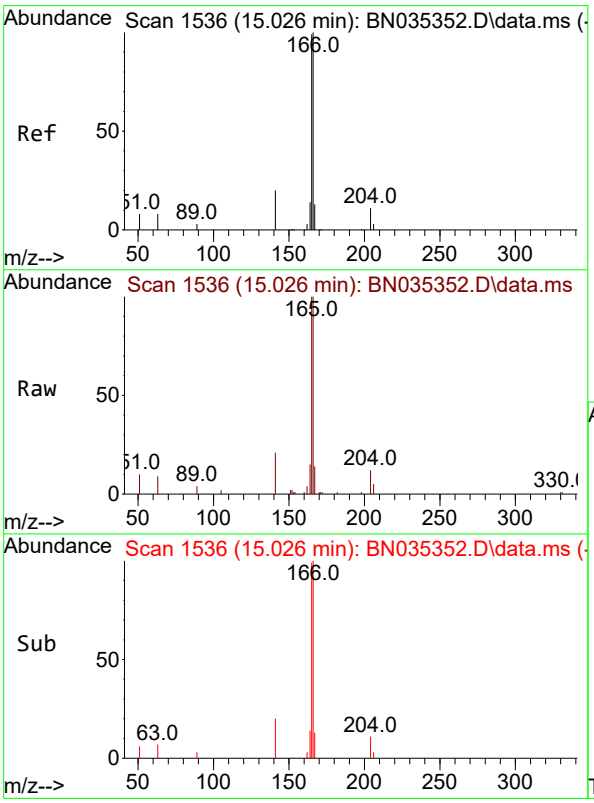
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 4125

Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	61.3	49.0	73.6

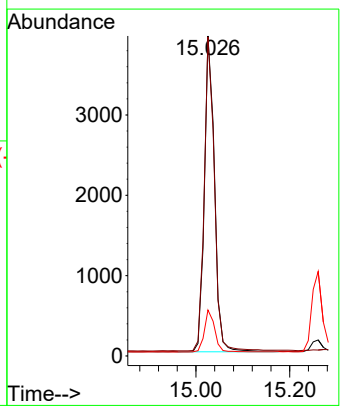


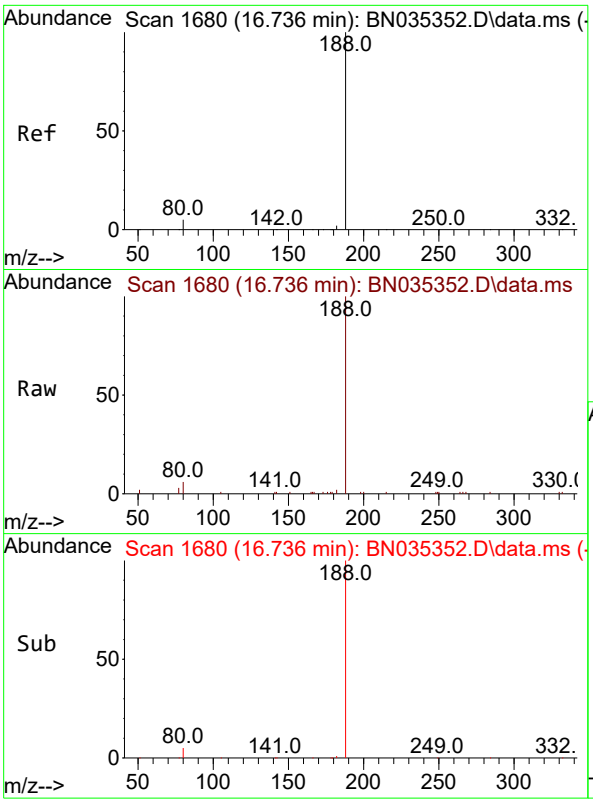


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.7	119.5
167	13.5	10.8	16.2



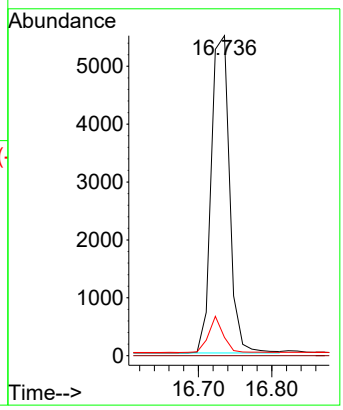


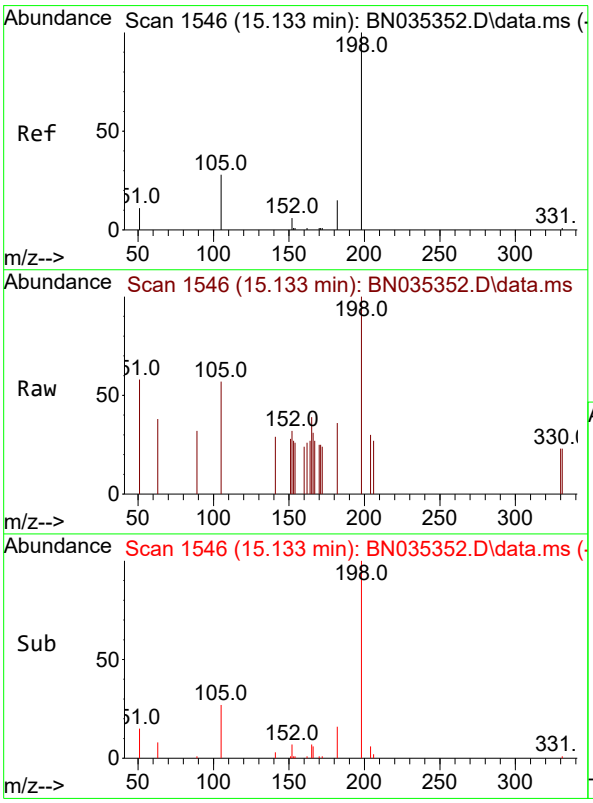
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 9490

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.6	6.8

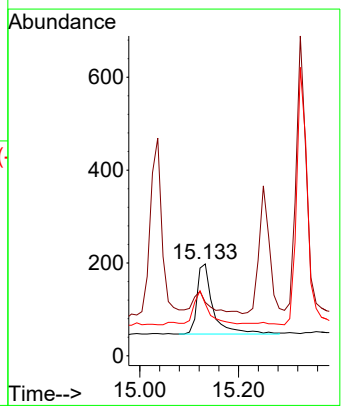


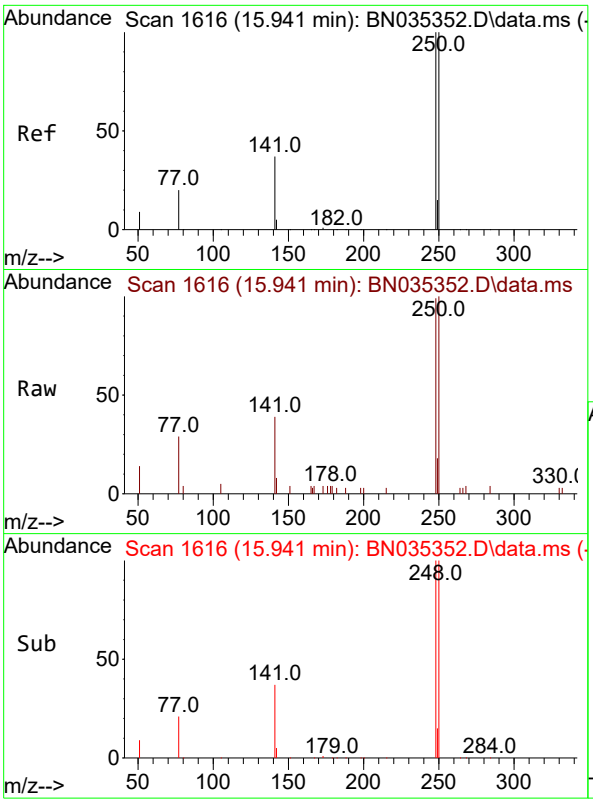


#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

Ion	Ratio	Lower	Upper
198	100		
51	58.1	46.5	69.7
105	56.6	45.3	67.9



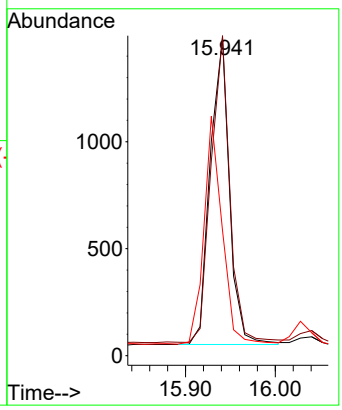


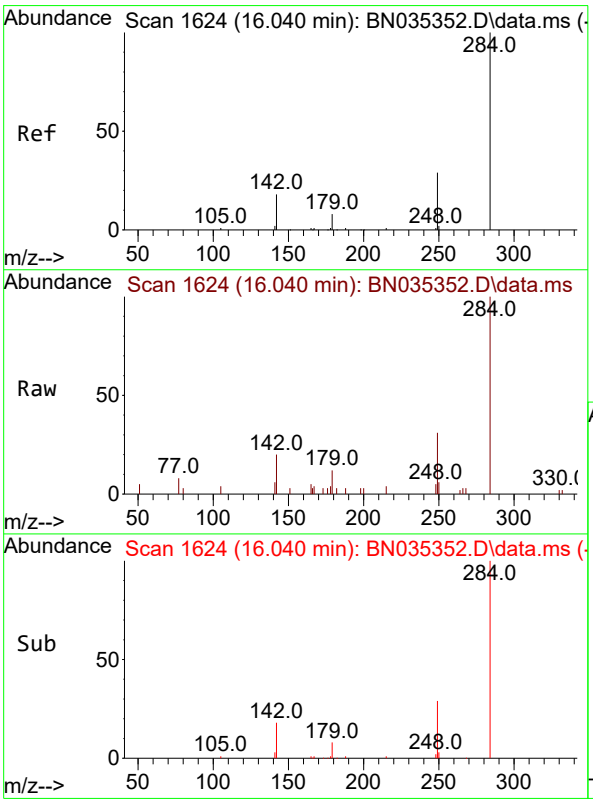
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 2146

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	39.4	31.5	47.3

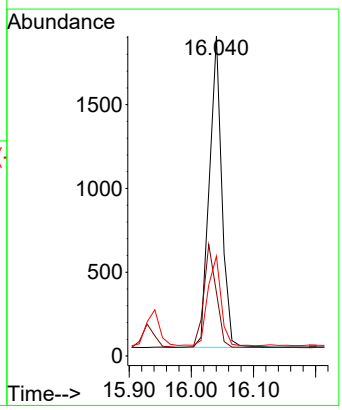


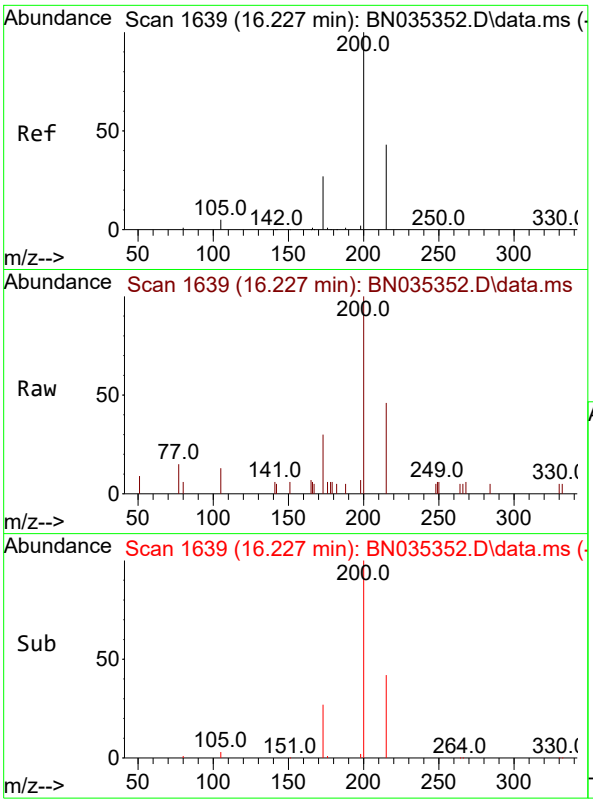


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.7	24.6	36.8



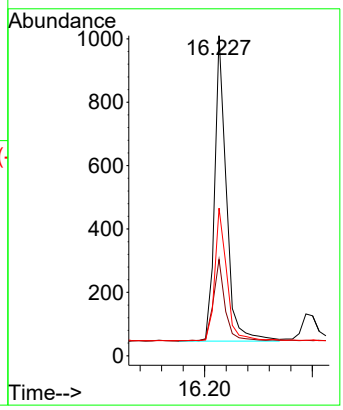


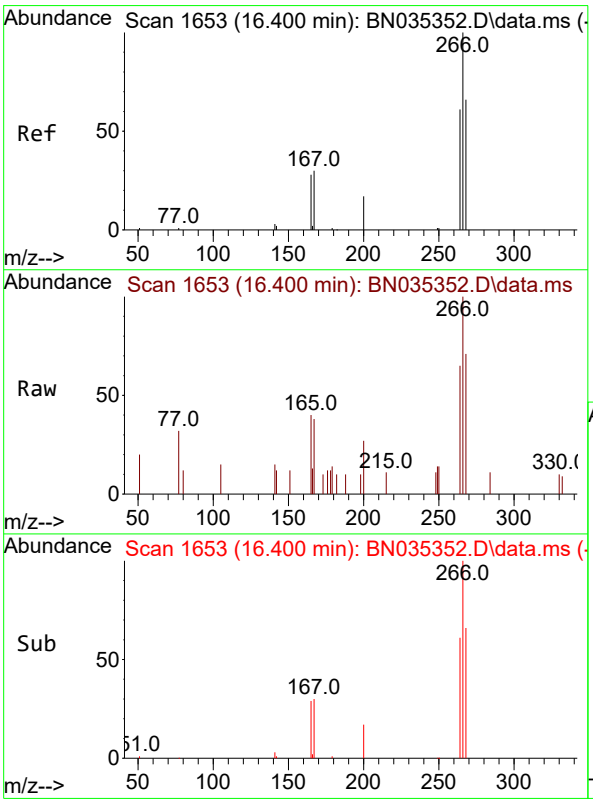
#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1461

Ion	Ratio	Lower	Upper
200	100		
173	30.1	24.1	36.1
215	46.1	36.9	55.3

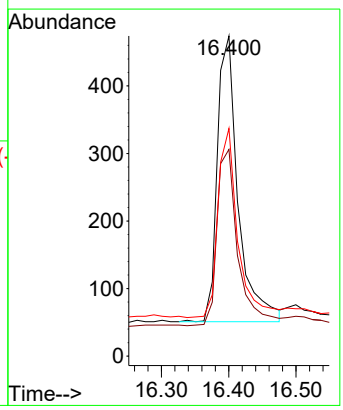


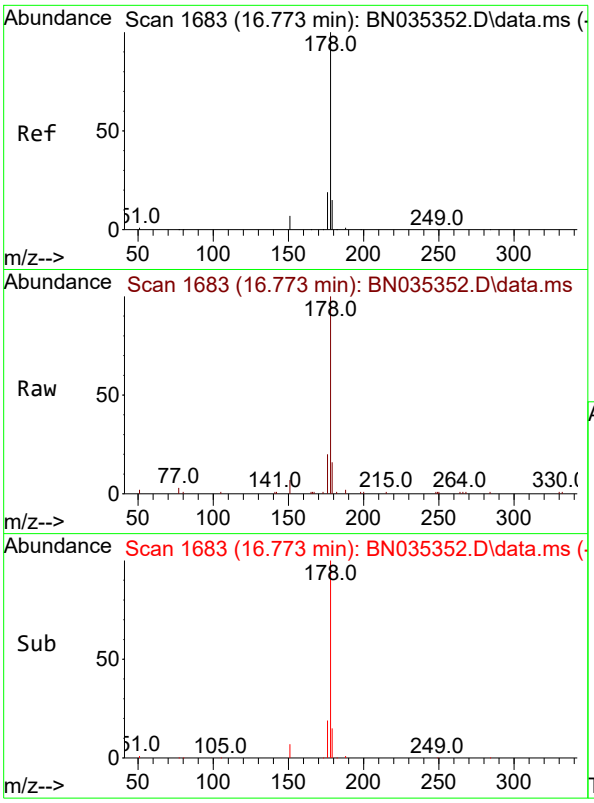


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	63.8	43.3	64.9



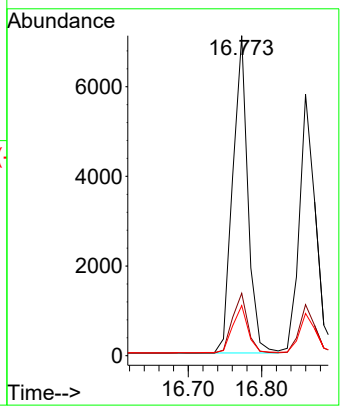


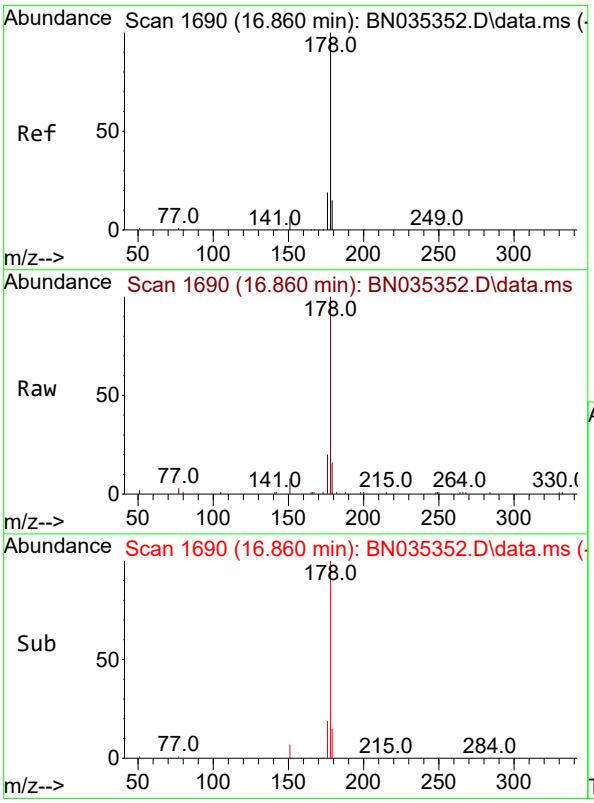
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 10127

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5

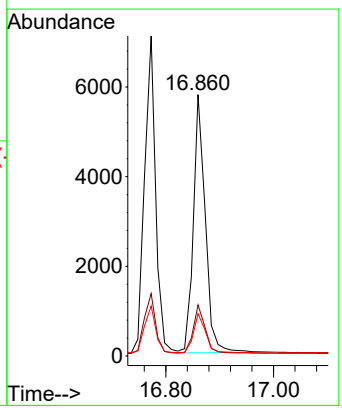


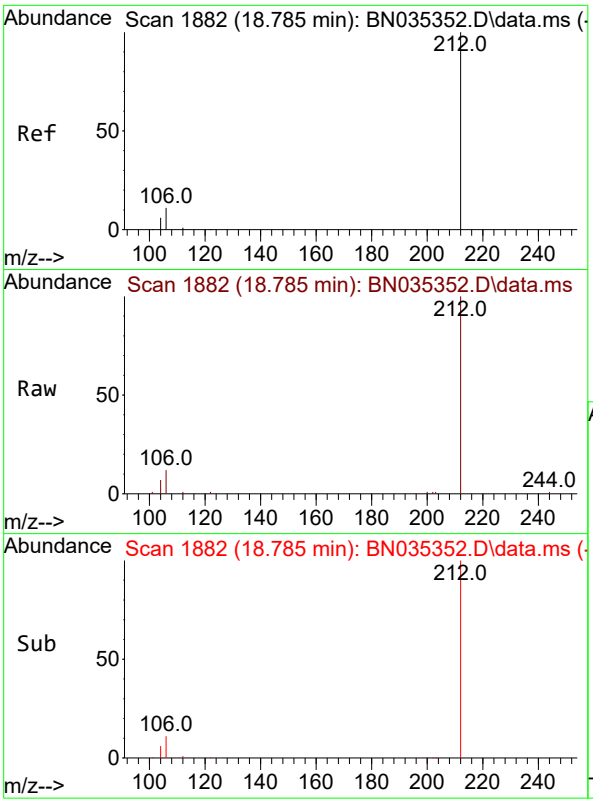


#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.7	12.6	18.8



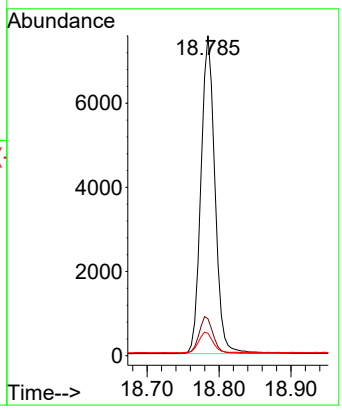


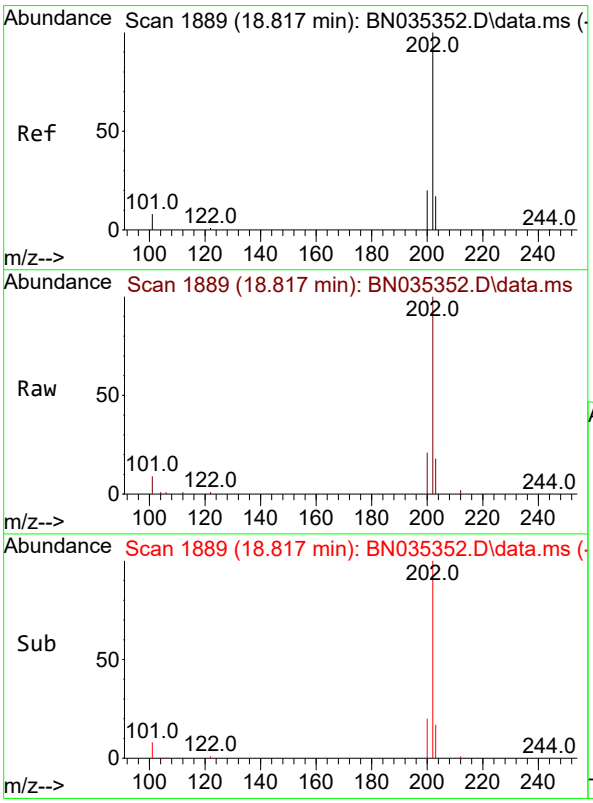
#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 10223

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9

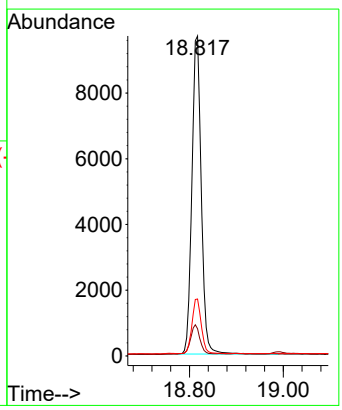


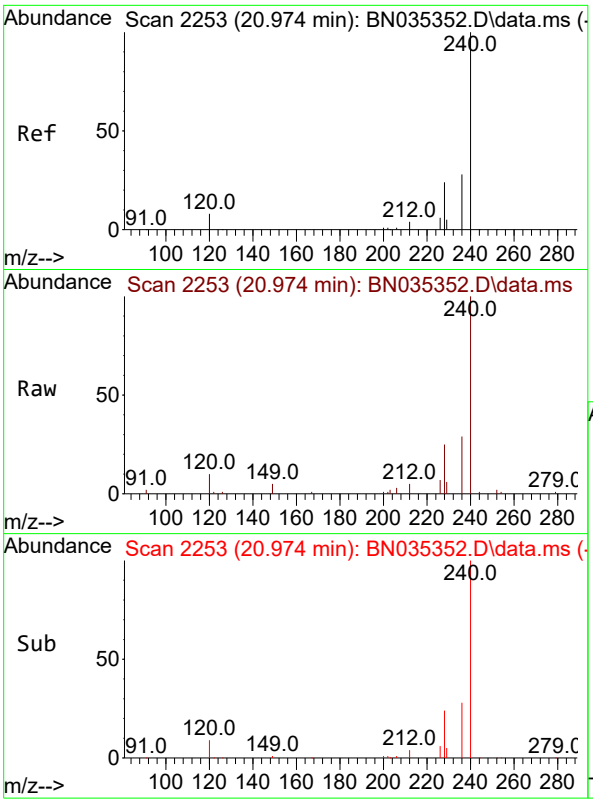


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



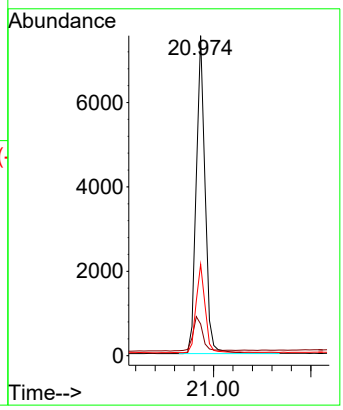


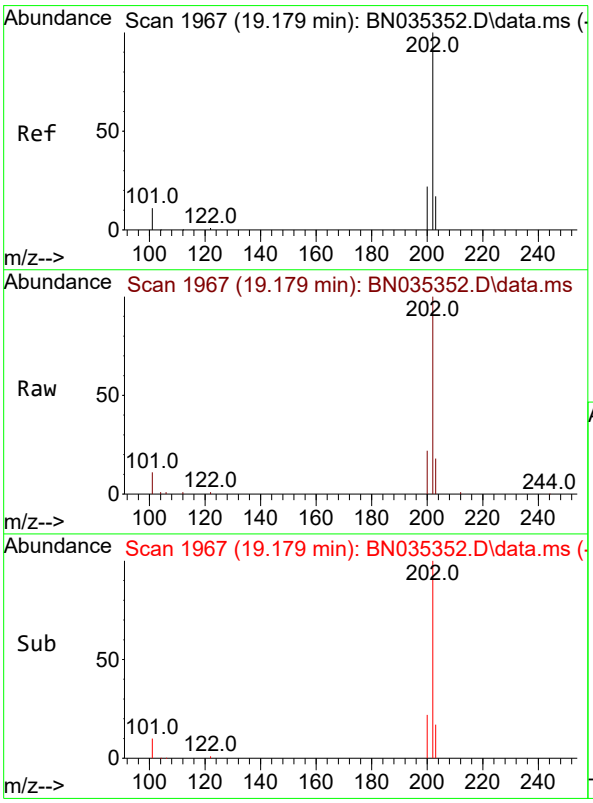
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 9527

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3

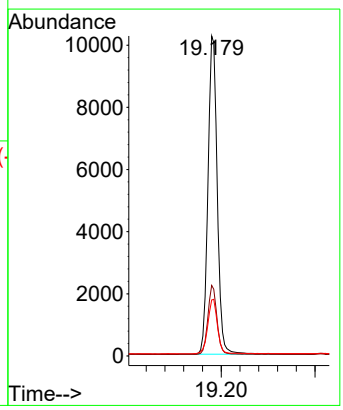


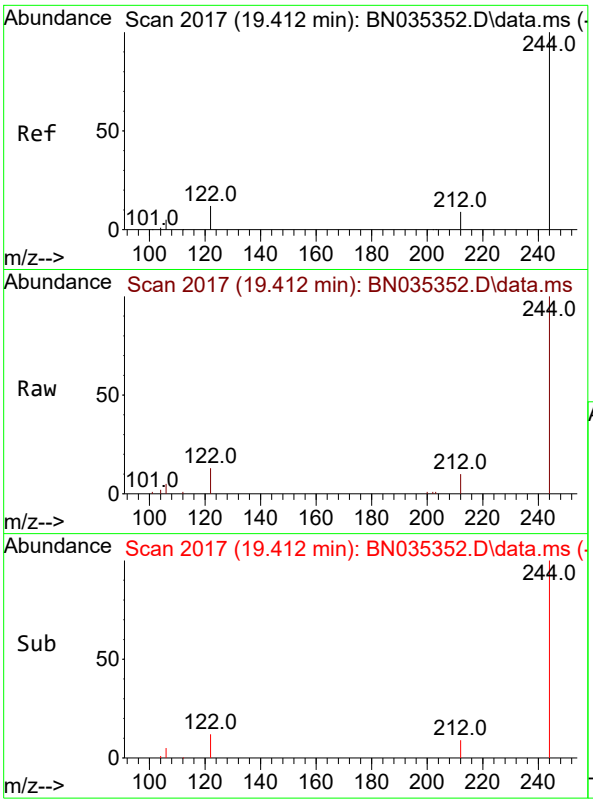


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5



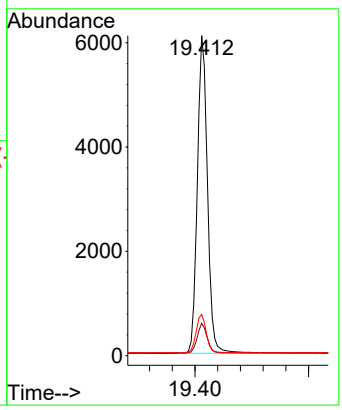


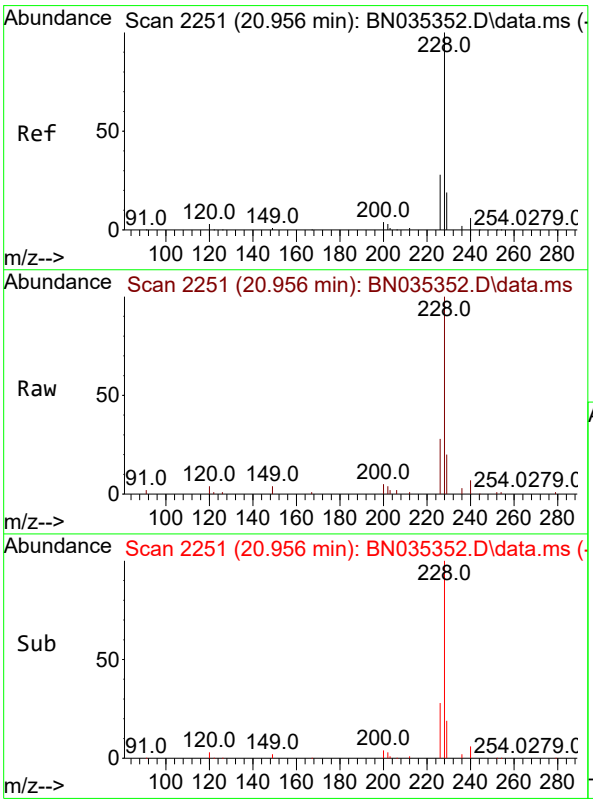
#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 7533

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5

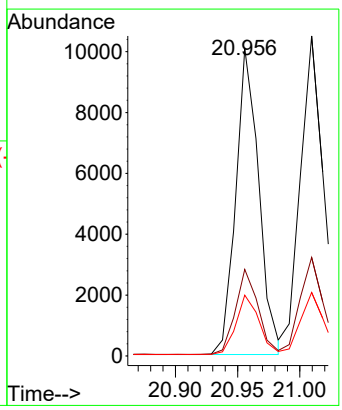


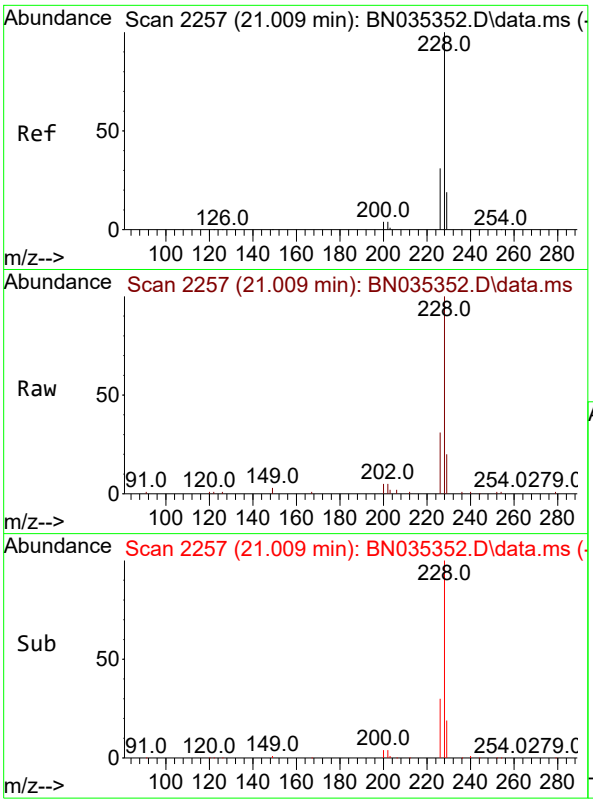


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.8	15.8	23.8



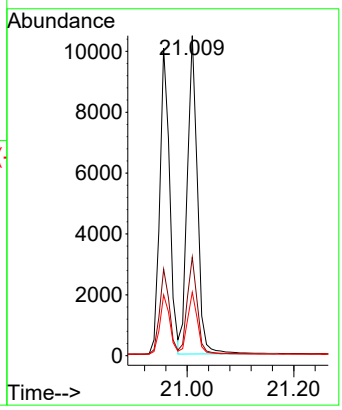


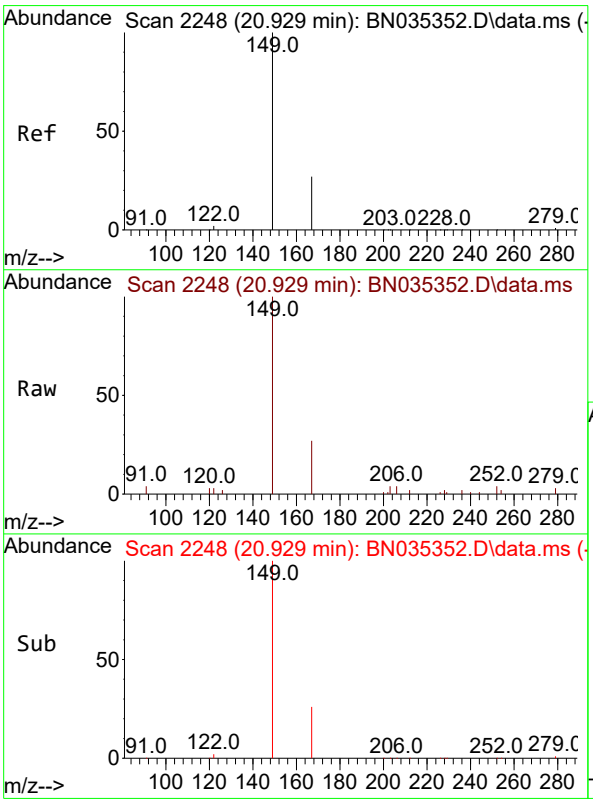
#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 13729

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.9	15.9	23.9

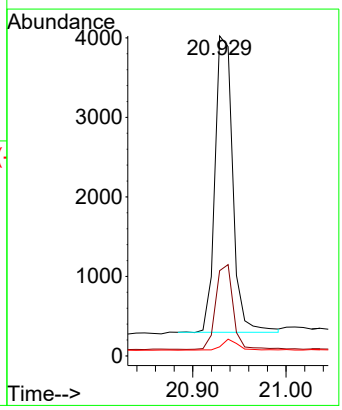


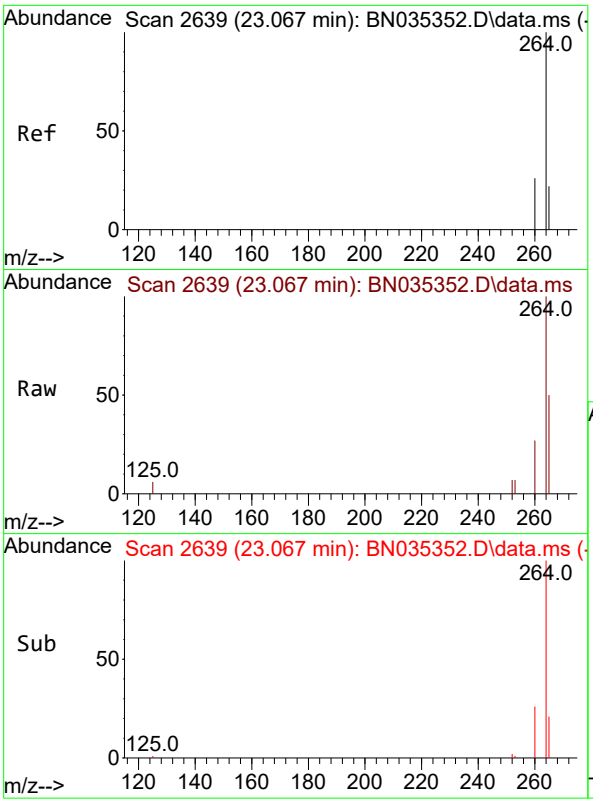


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.4	2.7	4.1



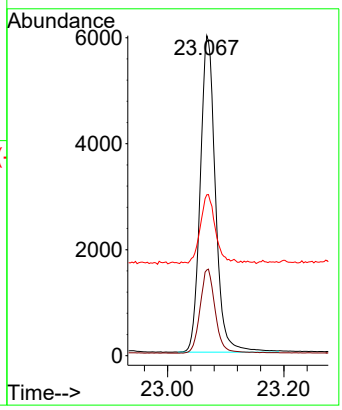


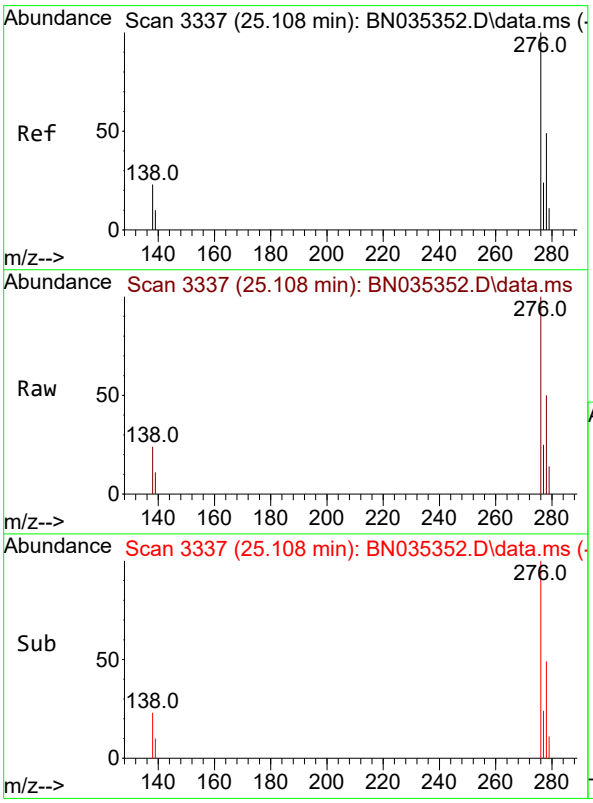
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 10842

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4

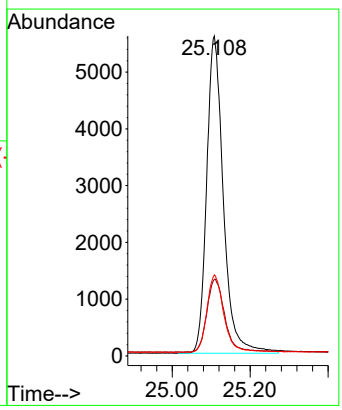


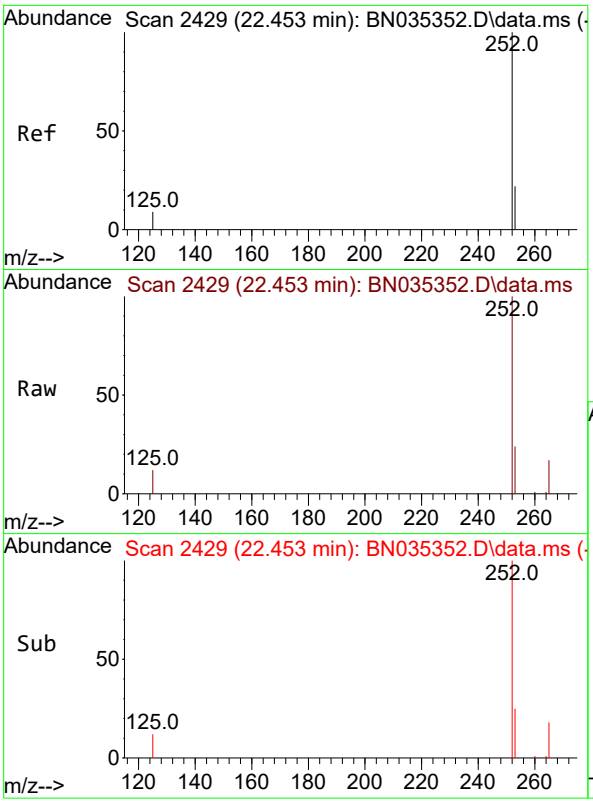


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615

Ion	Ratio	Lower	Upper
276	100		
138	24.2	19.4	29.0
277	24.7	19.8	29.6



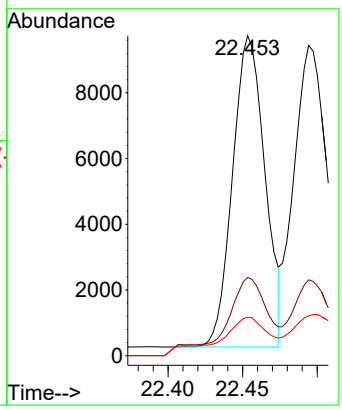


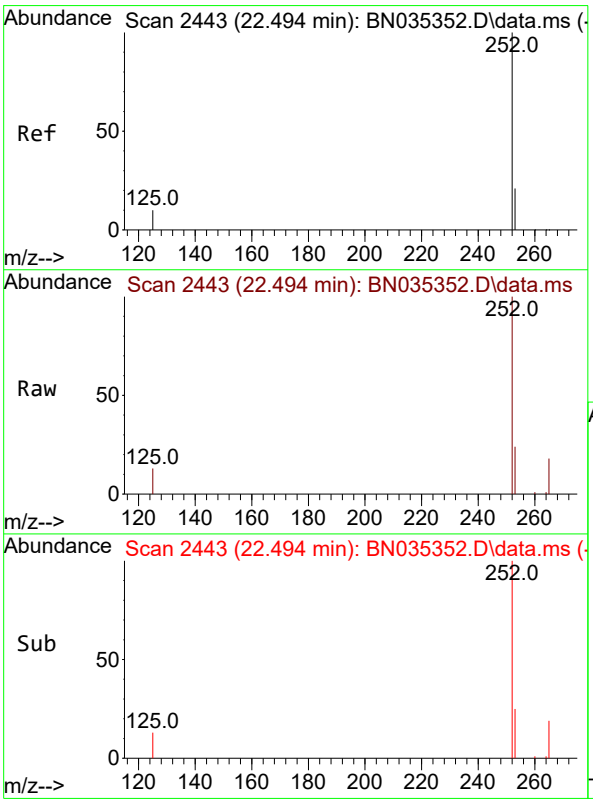
#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 14235

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	12.0	9.6	14.4

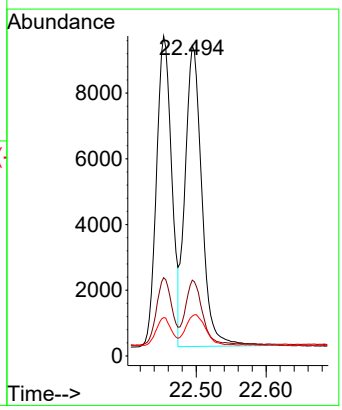


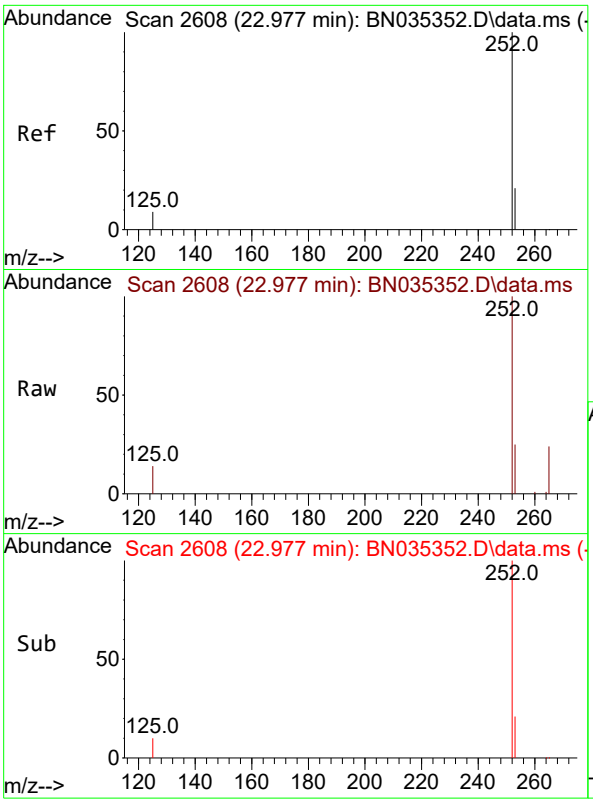


#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.5	29.3
125	12.8	10.2	15.4



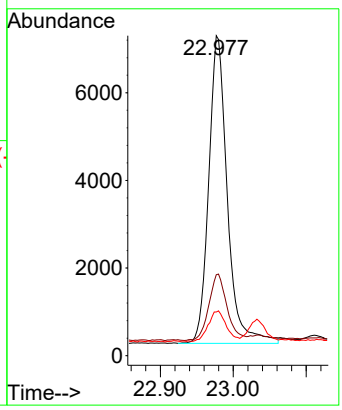


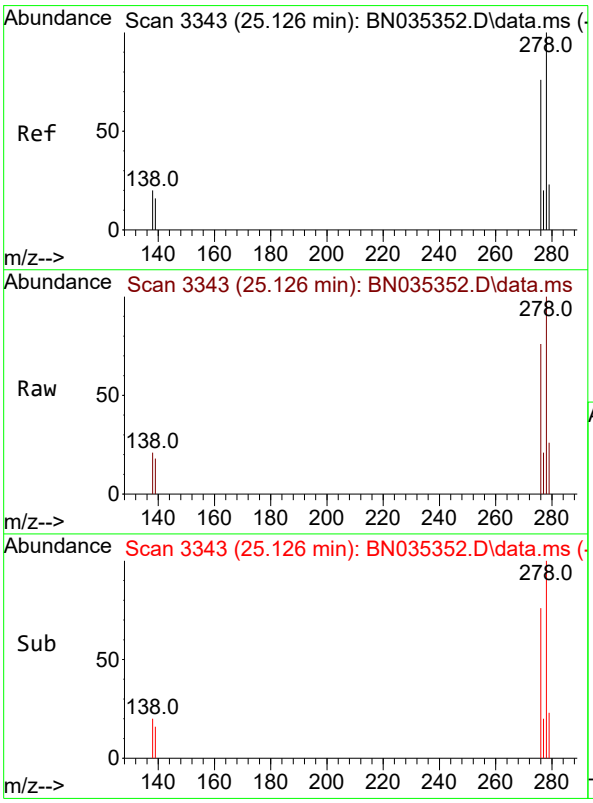
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 12425

Ion	Ratio	Lower	Upper
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3

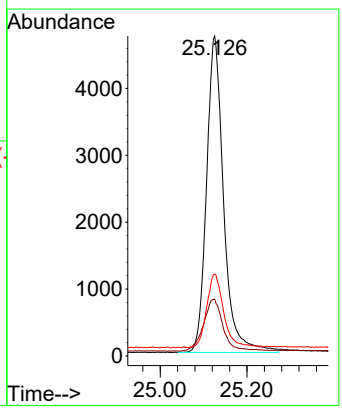


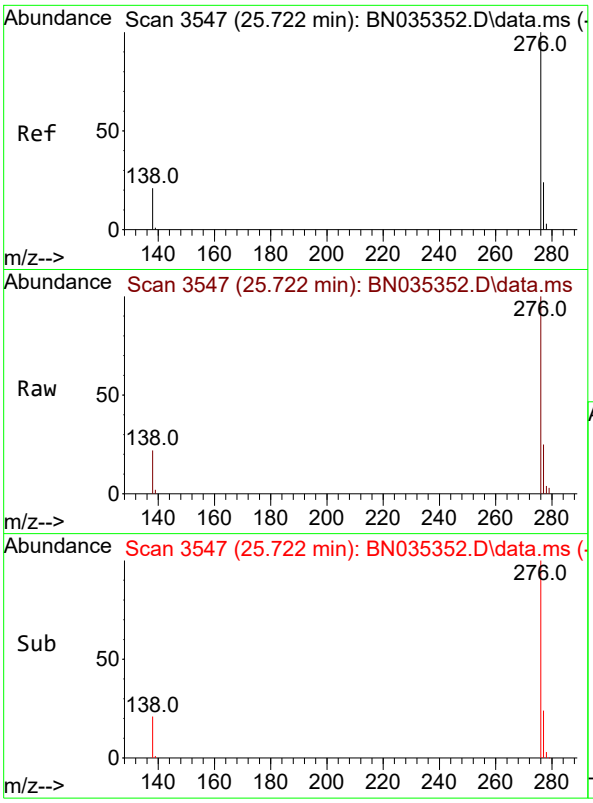


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7



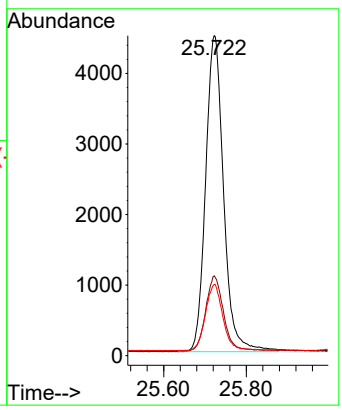


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 13529

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	22.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng		0.00
35) Perylene-d12	23.067	264	8338	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	1280	0.332	ng		0.00
5) Phenol-d6	6.513	99	1437	0.310	ng		0.00
8) Nitrobenzene-d5	8.440	82	1017	0.427	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng		0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng		0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng		99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	#	88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng		99
9) Naphthalene	10.105	128	4364	0.424	ng		99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng		98
16) Acenaphthylene	13.679	152	5261	0.435	ng		100
17) Acenaphthene	14.031	154	3421	0.426	ng		99
18) Fluorene	15.026	166	4825	0.420	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	#	86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng		99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng		99
23) Atrazine	16.227	200	1227	0.401	ng		99
24) Pentachlorophenol	16.400	266	662	0.301	ng	#	83
25) Phenanthrene	16.773	178	8509	0.421	ng		100
26) Anthracene	16.860	178	7849	0.430	ng		100
28) Fluoranthene	18.812	202	10941	0.402	ng		100
30) Pyrene	19.179	202	11476	0.410	ng		100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng		100
33) Chrysene	21.009	228	11926	0.436	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng		99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng		99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng		99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng		99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng		100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng		99

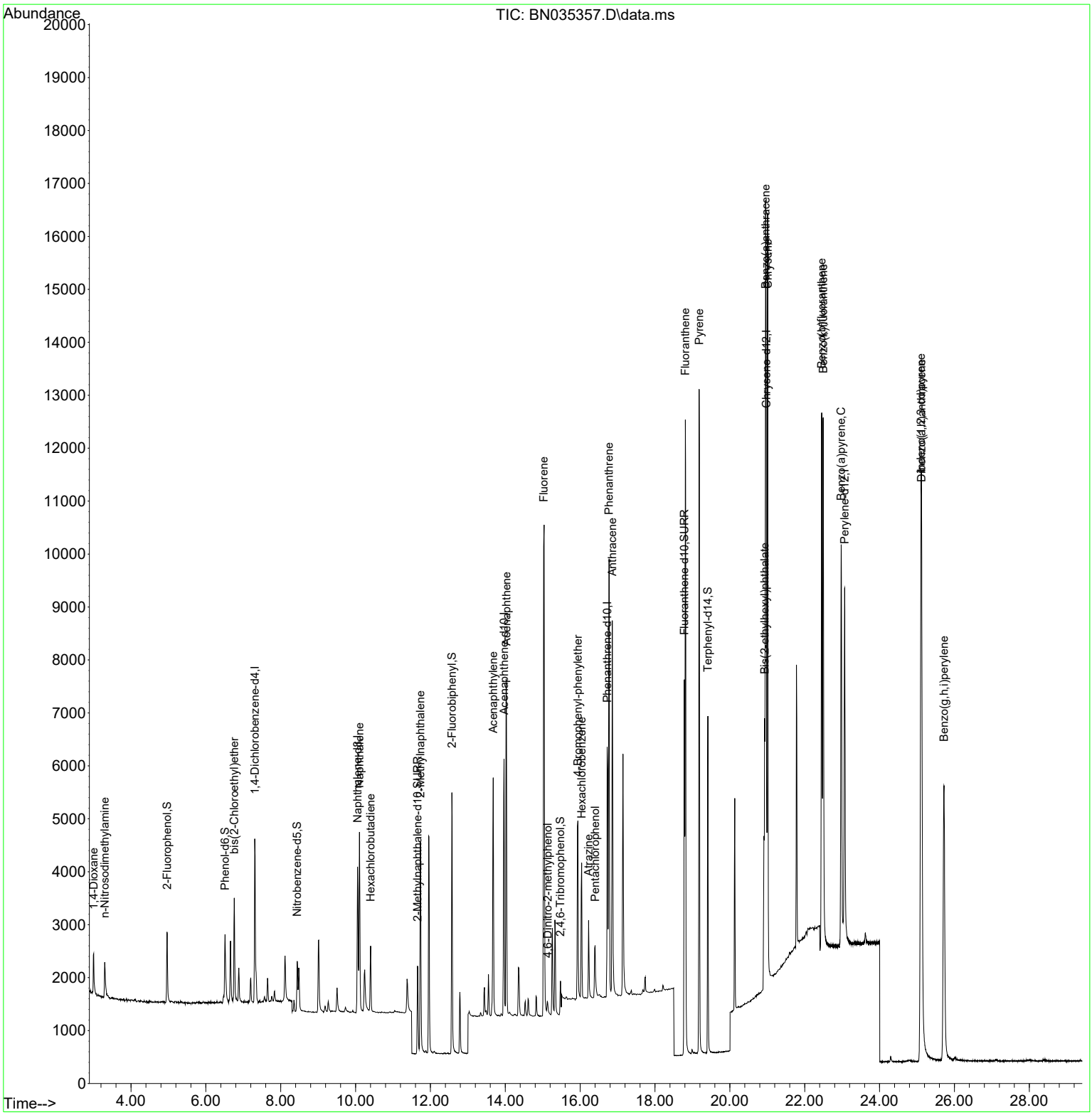
(#) = qualifier out of range (m) = manual integration (+) = signals summed

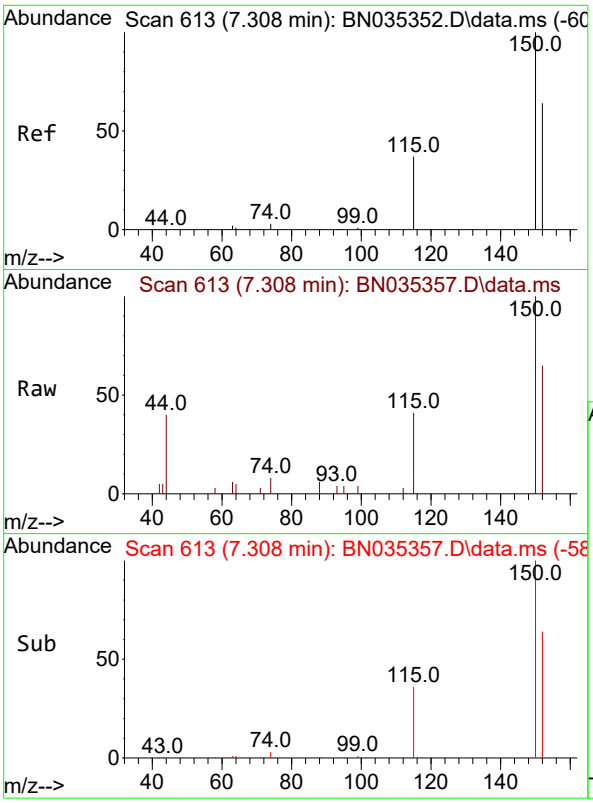
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



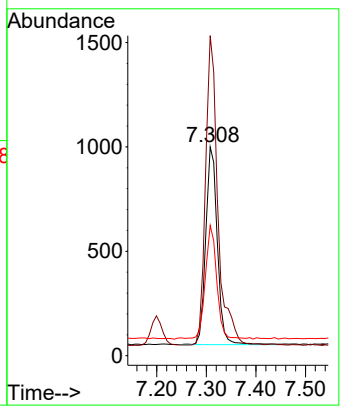


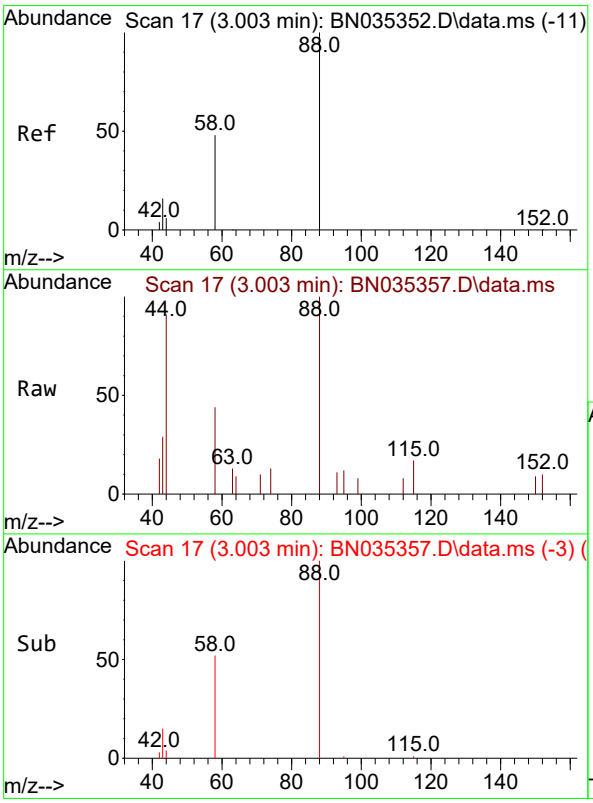
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:152 Resp: 1540

Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.0	186.0
115	62.4	49.6	74.4

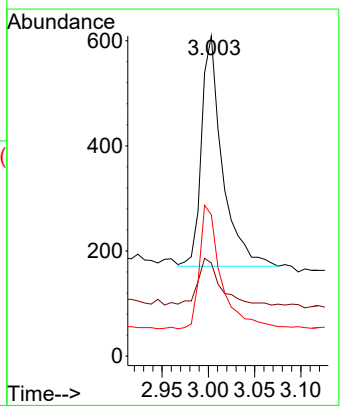


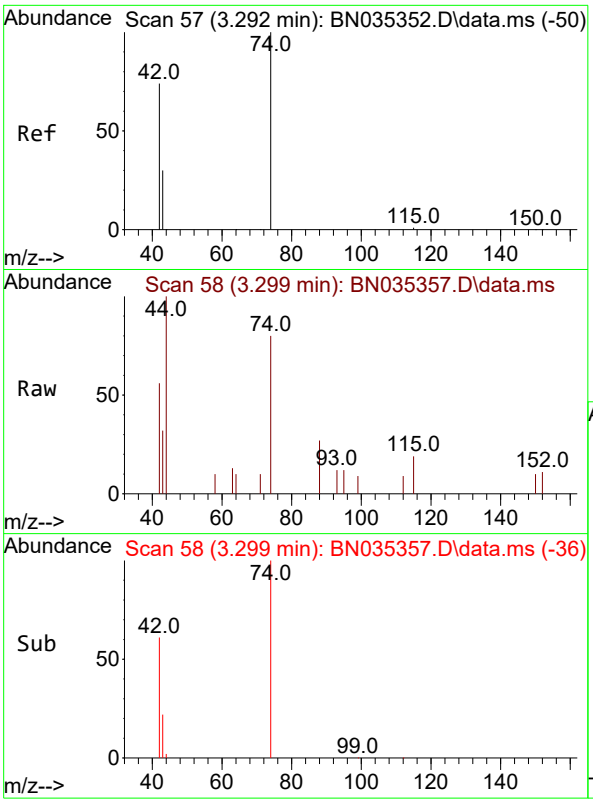


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

Ion	Ratio	Lower	Upper
88	100		
43	21.8	17.2	25.8
58	56.0	44.5	66.7



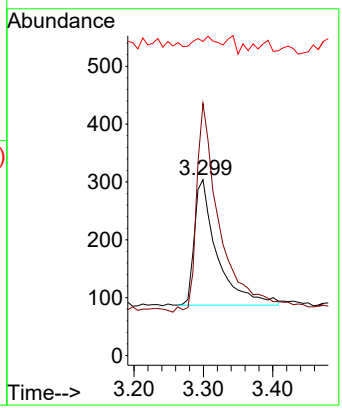


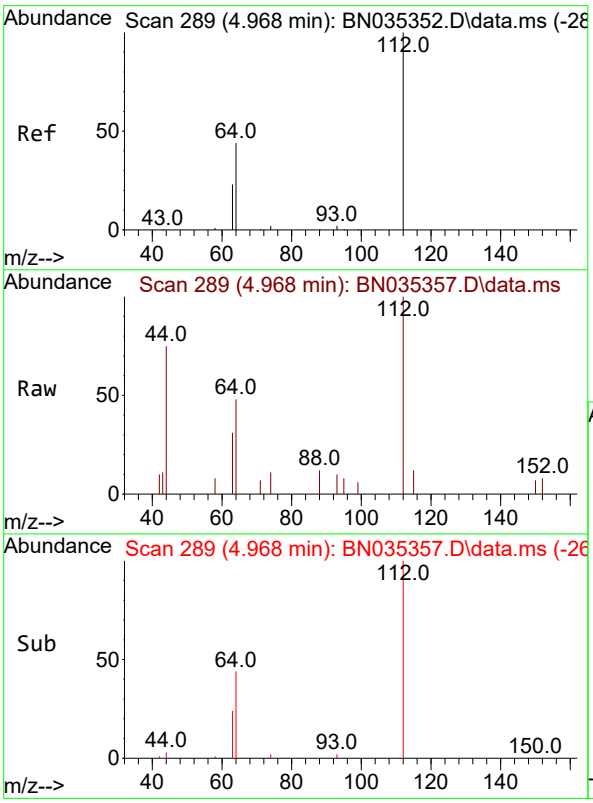
#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 42 Resp: 495

Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4#

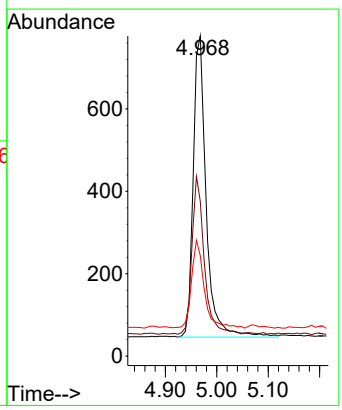


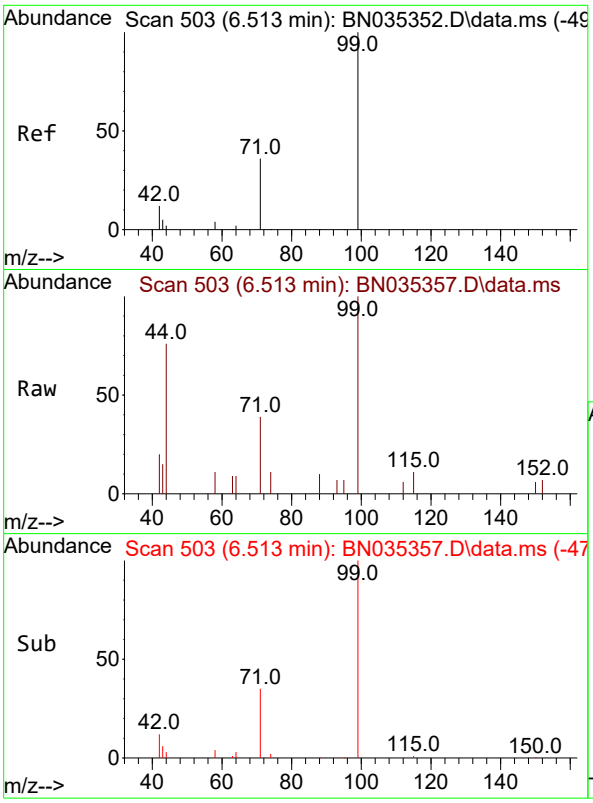


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	28.4	21.0	31.6



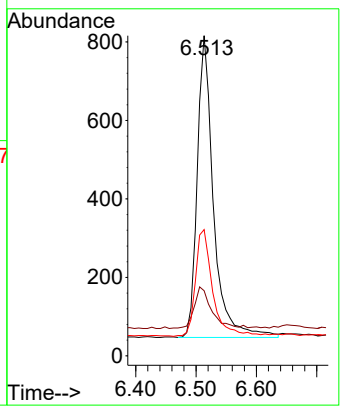


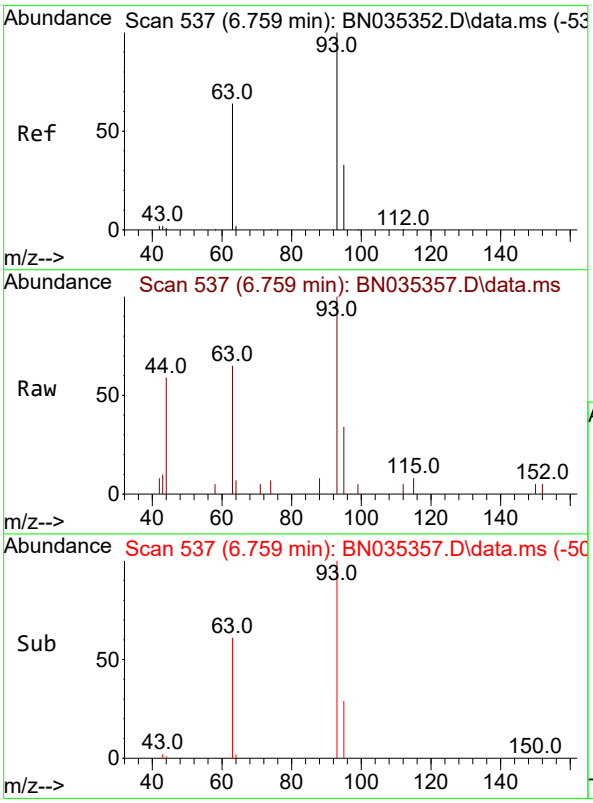
#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 99 Resp: 1437

Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9

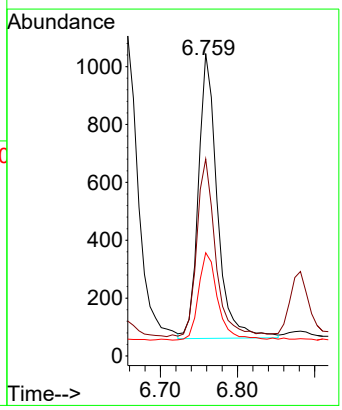


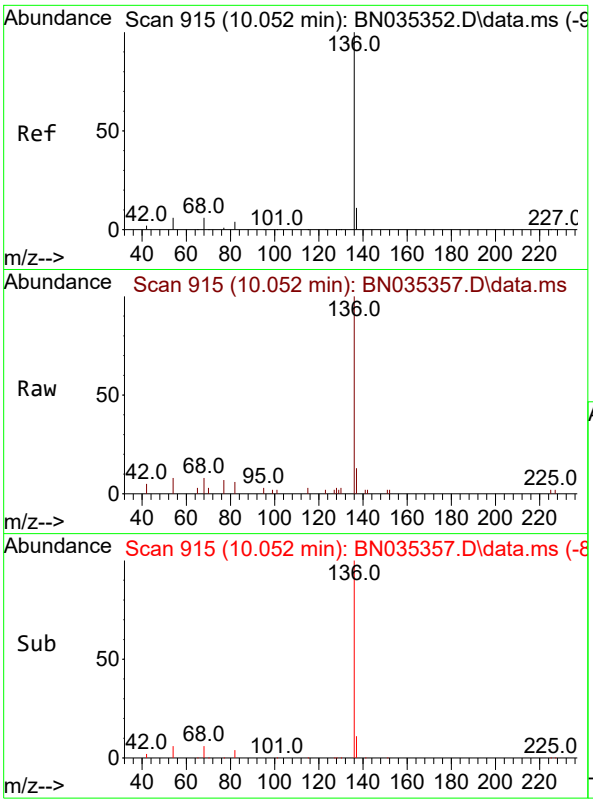


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

Ion	Ratio	Lower	Upper
93	100		
63	62.1	50.4	75.6
95	31.4	25.7	38.5



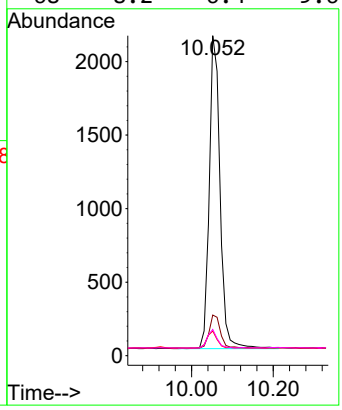


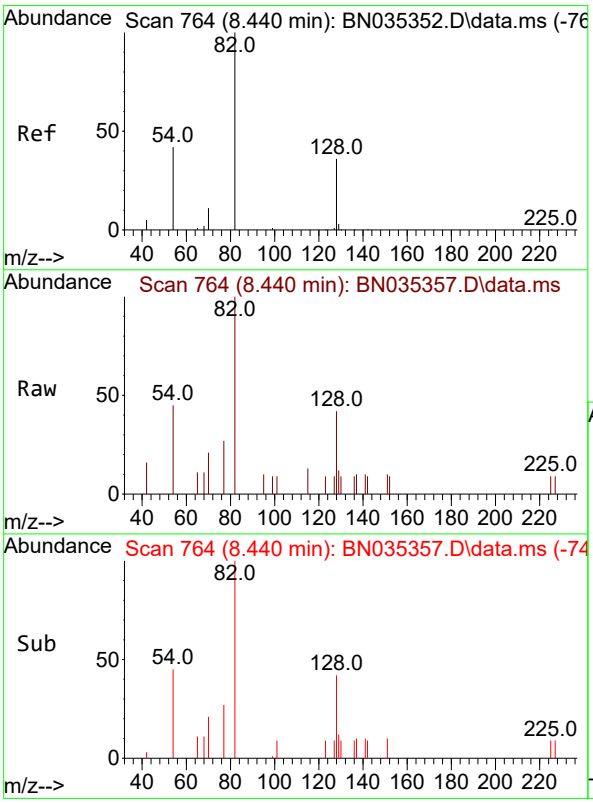
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:136 Resp: 3904

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6

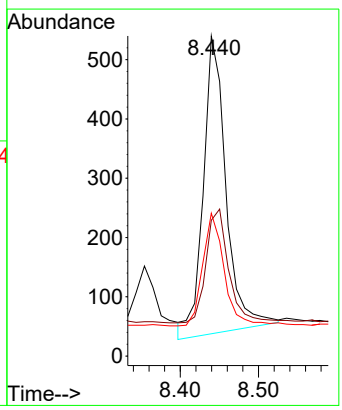


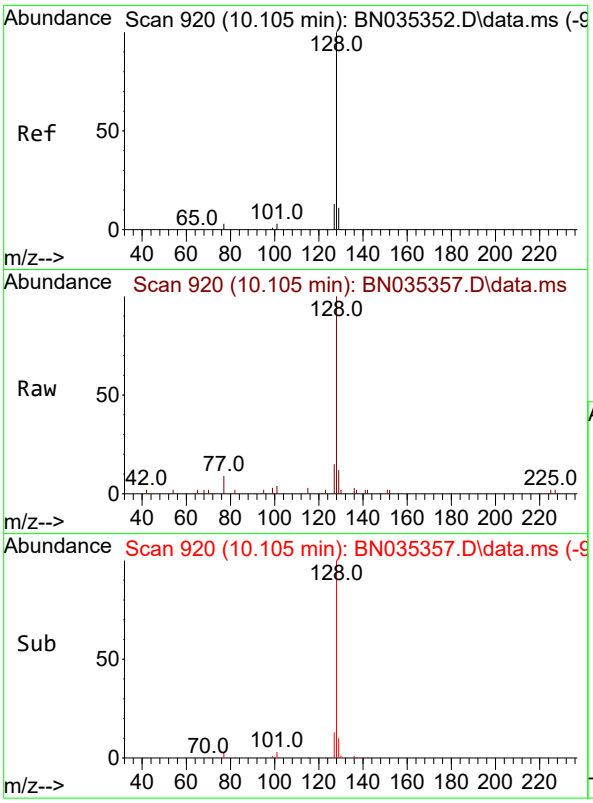


#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 1017

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1



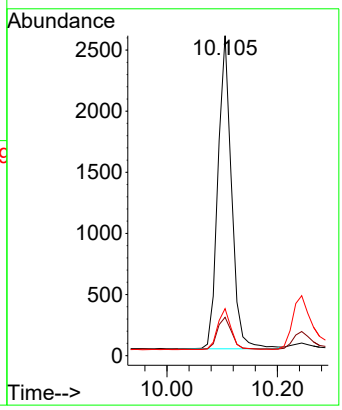


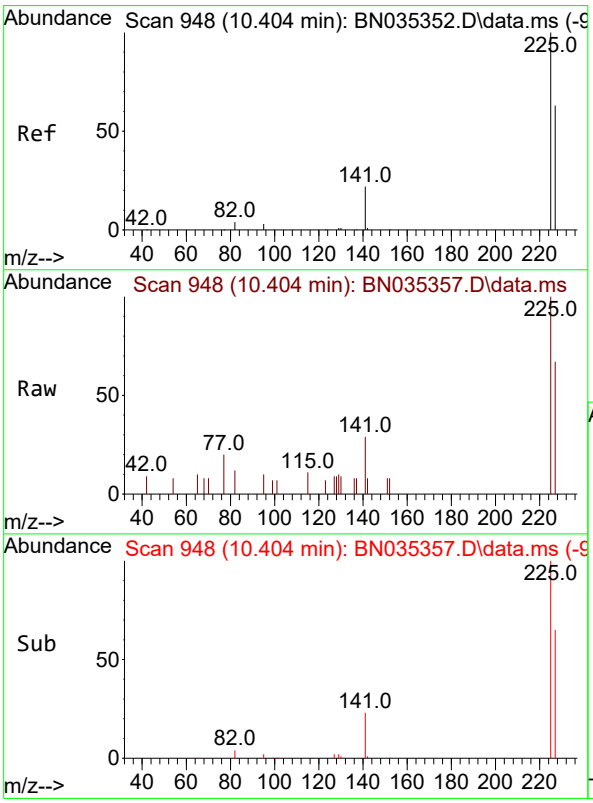
#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:128 Resp: 4364

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.7	11.4	17.2

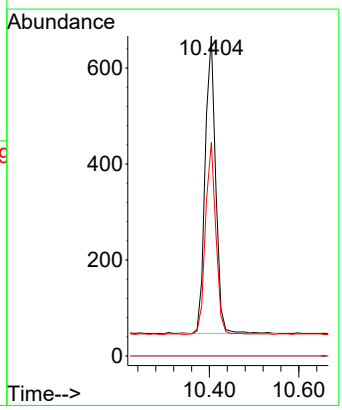


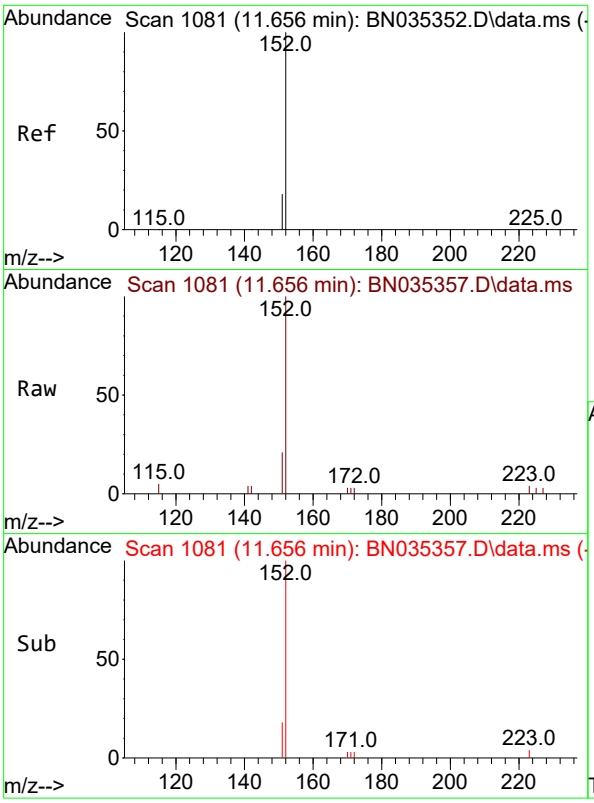


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9



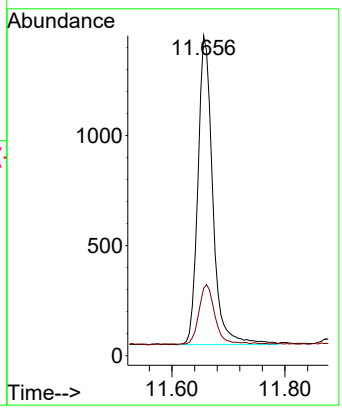


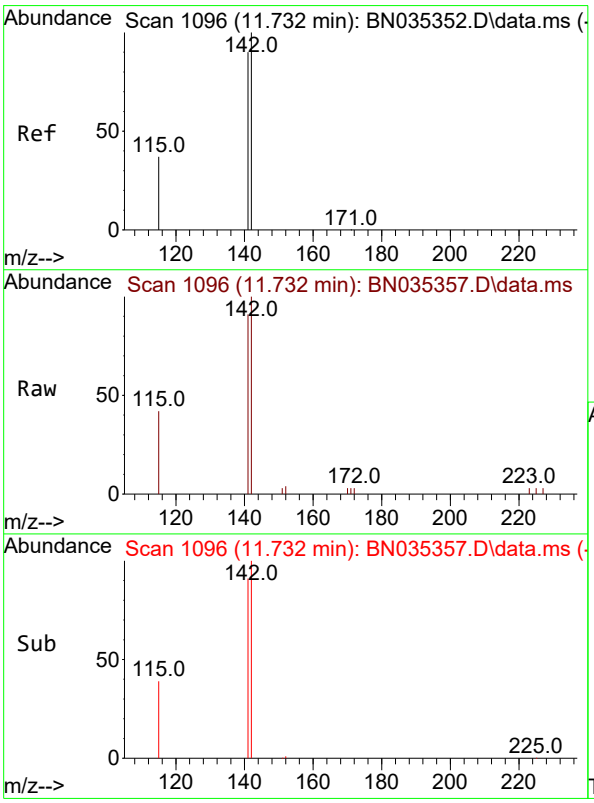
#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:152 Resp: 2565

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

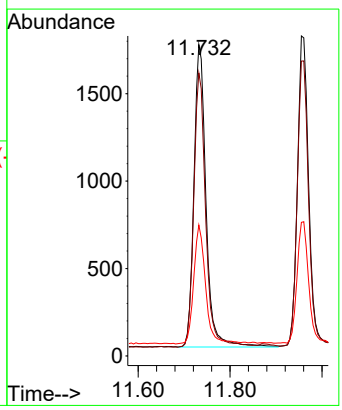


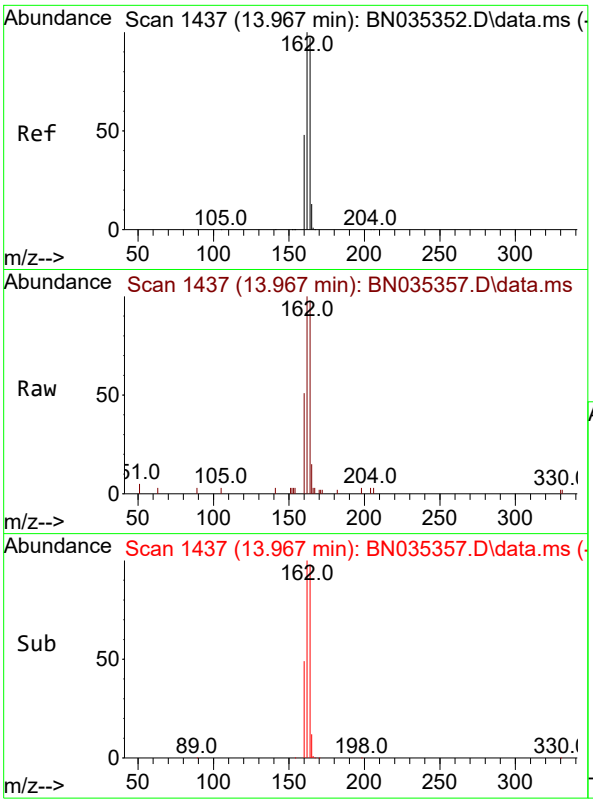


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	42.0	31.4	47.0



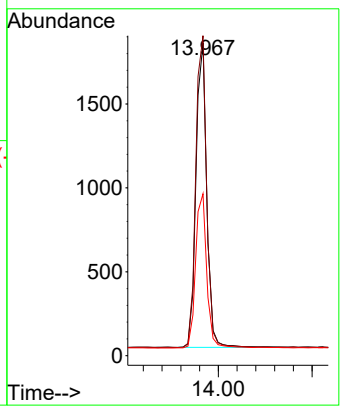


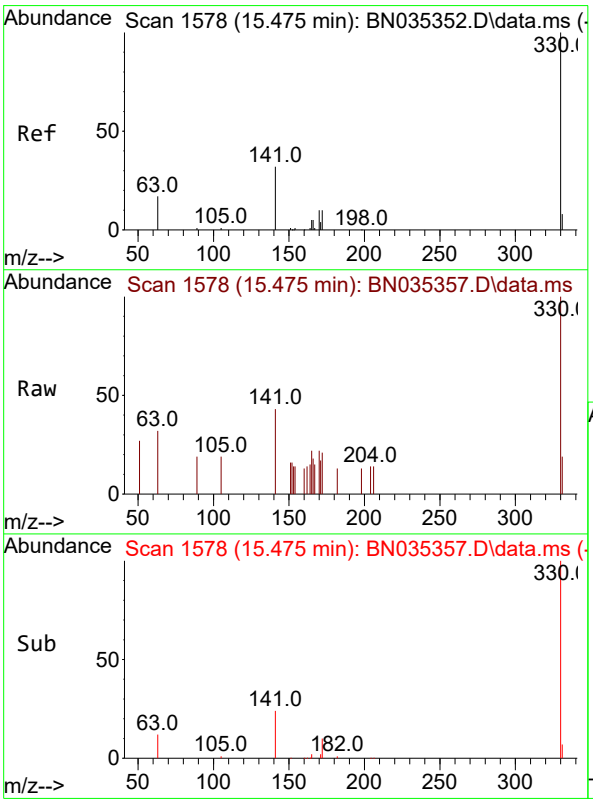
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:164 Resp: 2879

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.8	40.1	60.1

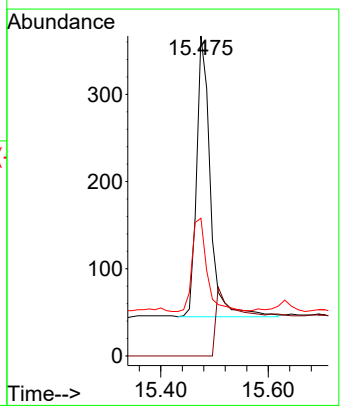


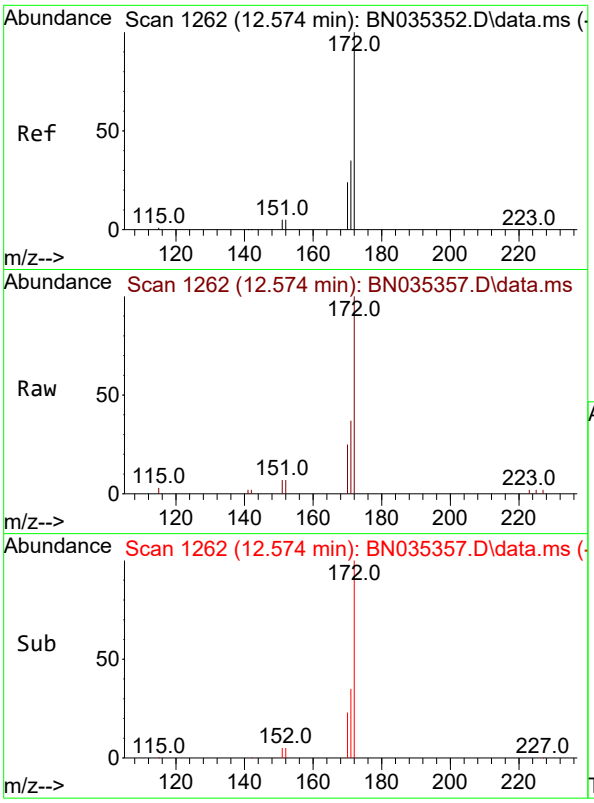


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0



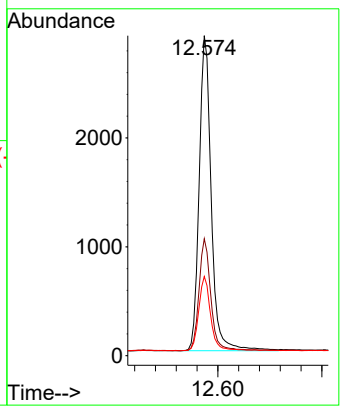


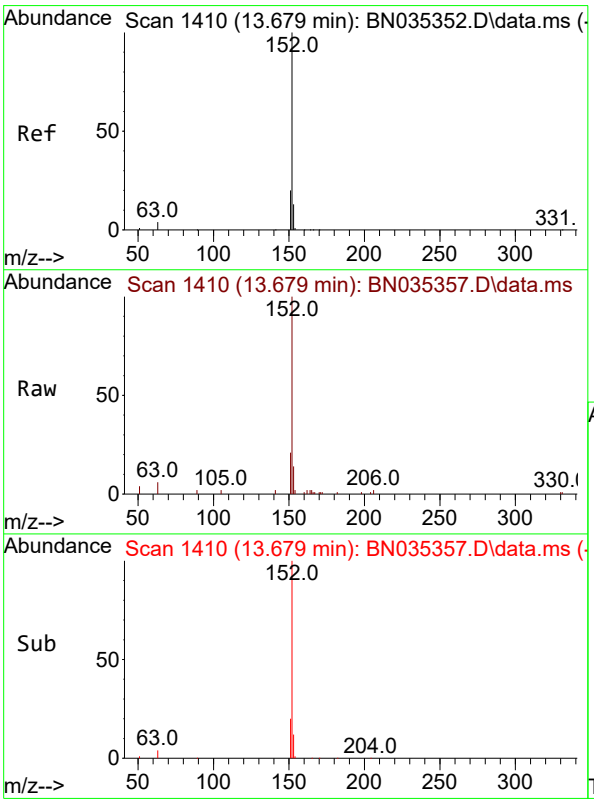
#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:172 Resp: 4647

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8

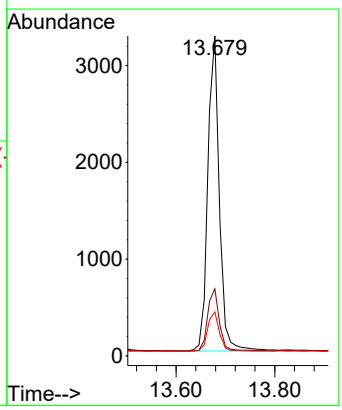


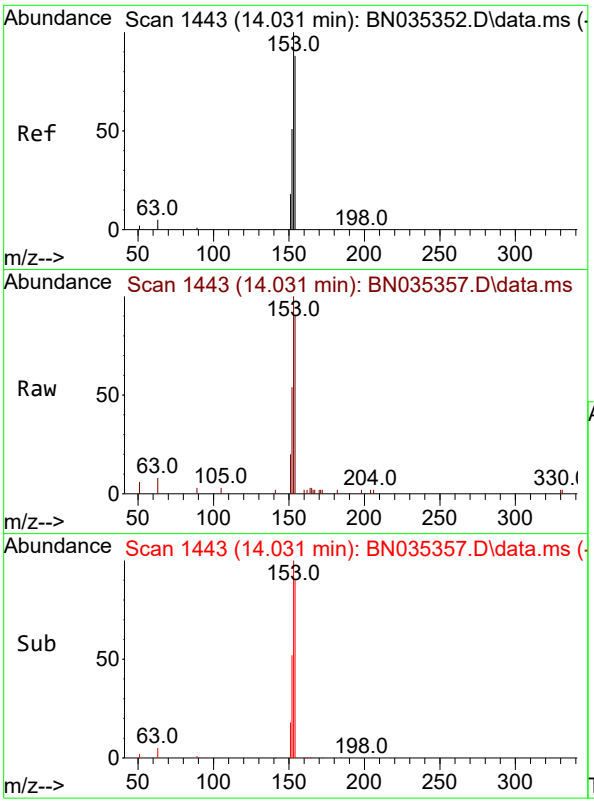


#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.7	10.4	15.6



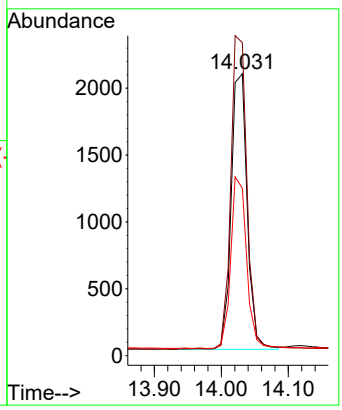


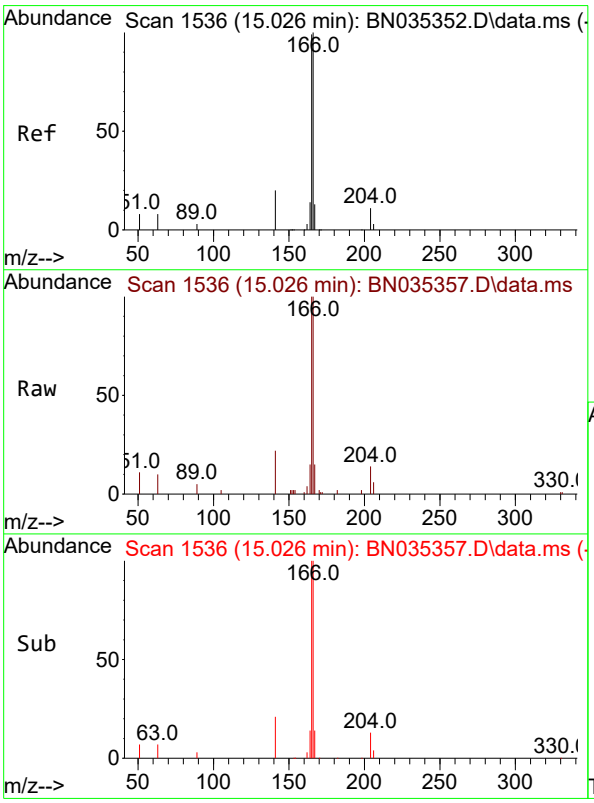
#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:154 Resp: 3421

Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6

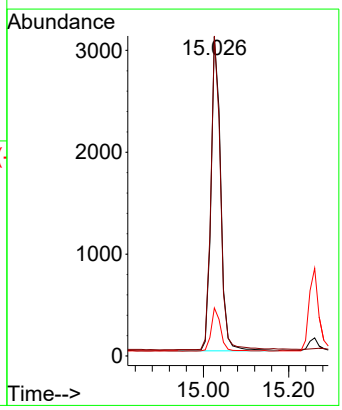


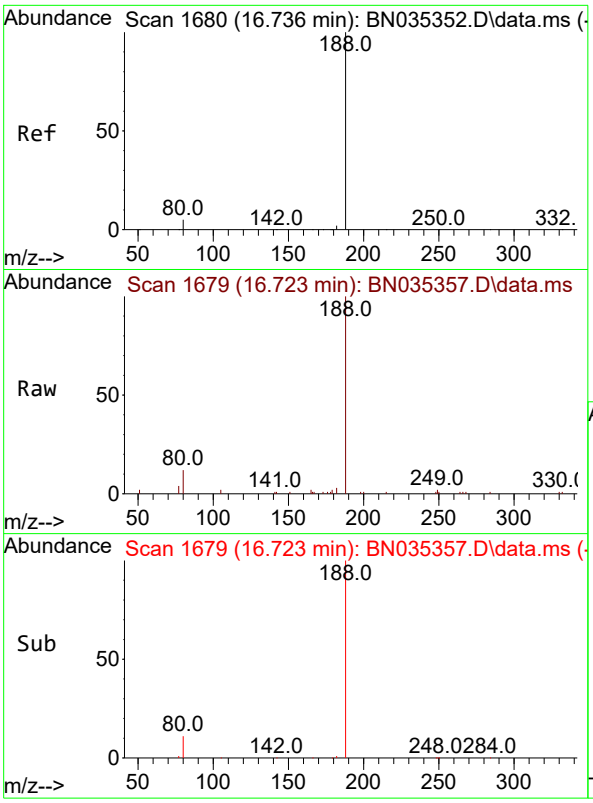


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2



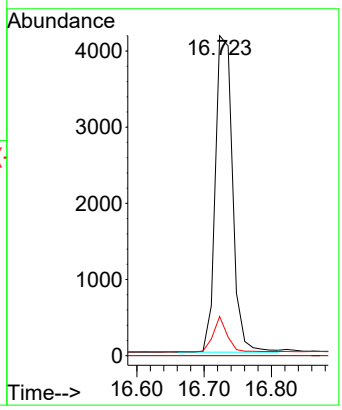


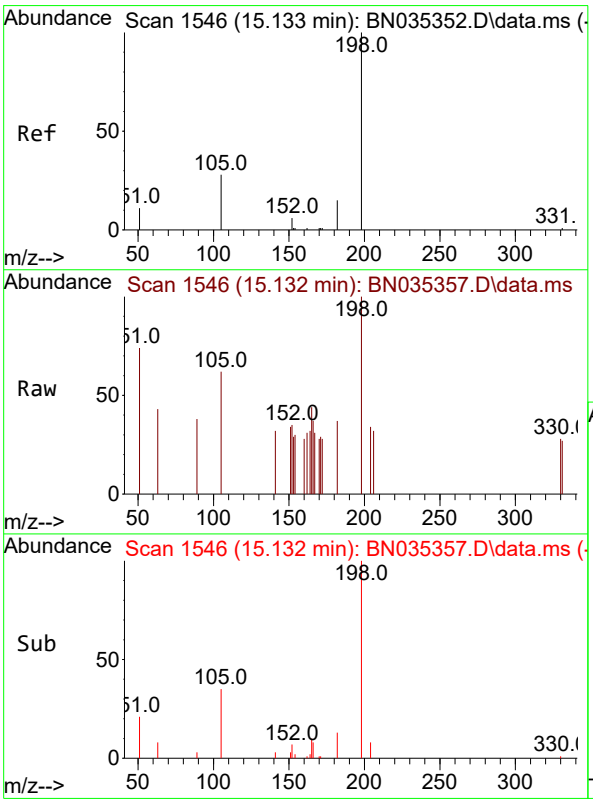
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:188 Resp: 7350

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8#

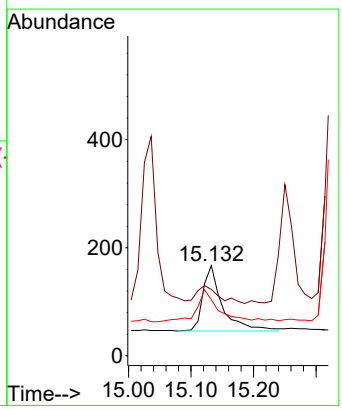


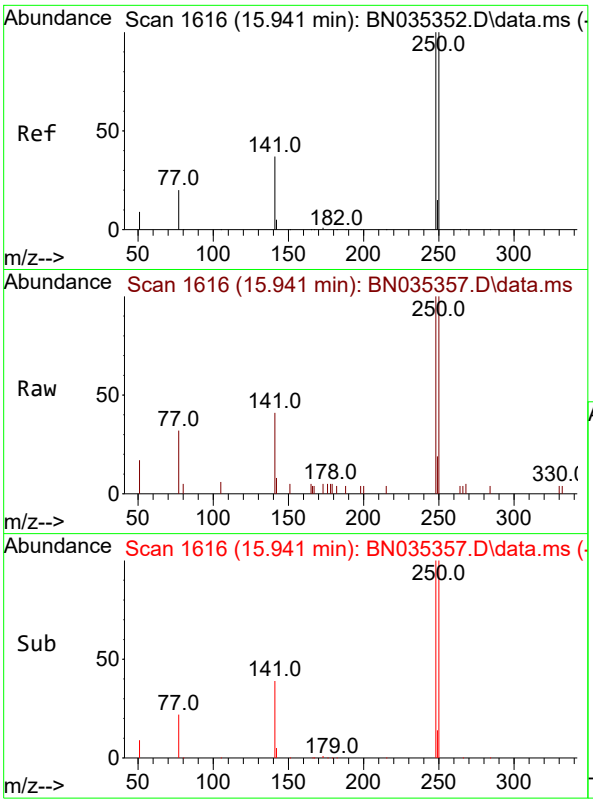


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

Ion	Ratio	Lower	Upper
198	100		
51	73.7	46.5	69.7#
105	62.3	45.3	67.9



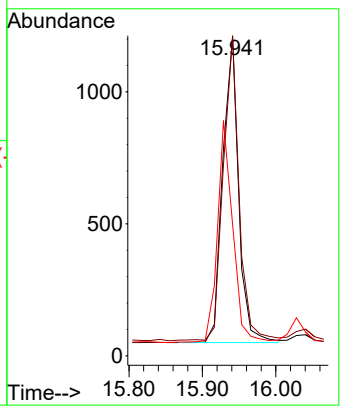


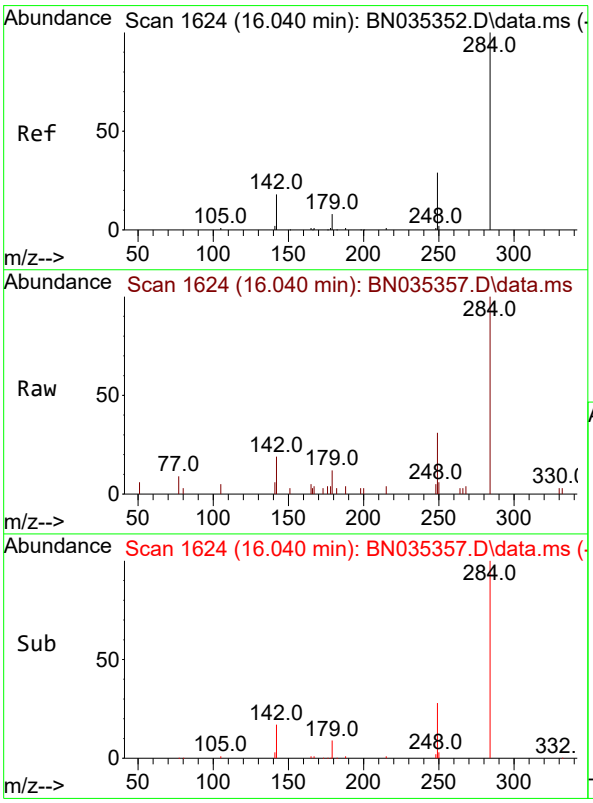
#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:248 Resp: 1742

Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3

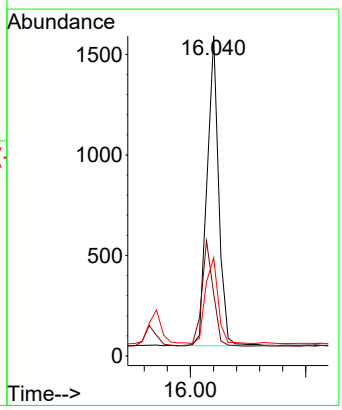


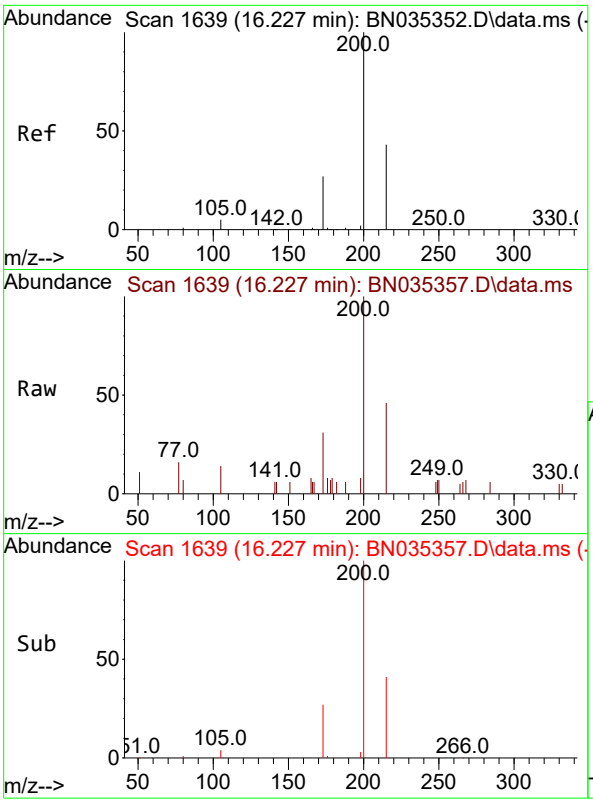


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8



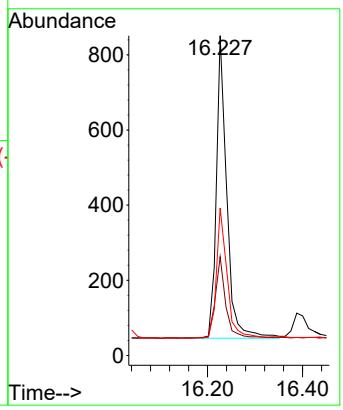


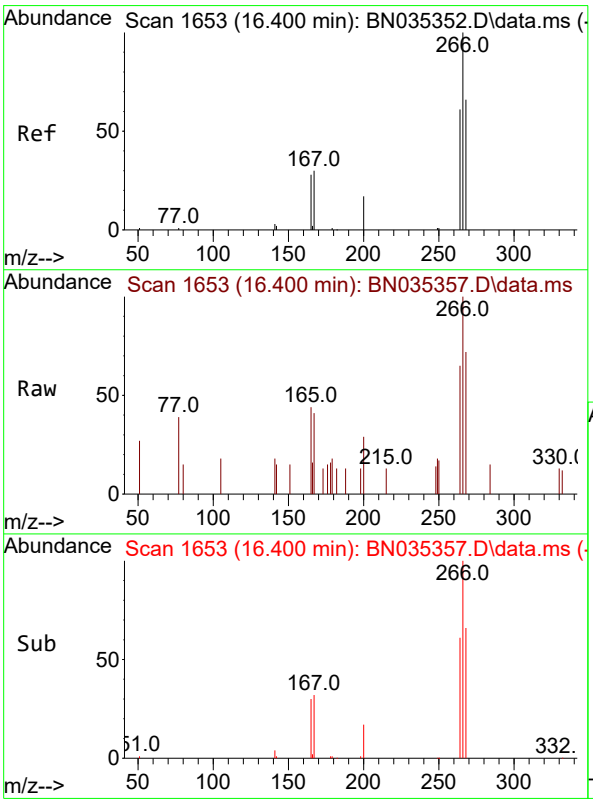
#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:200 Resp: 1227

Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3

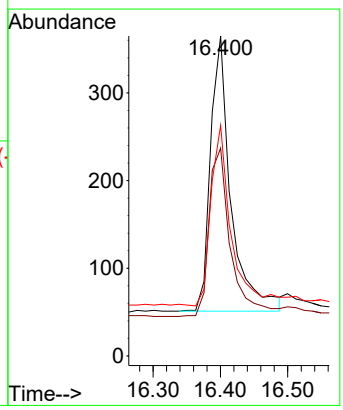


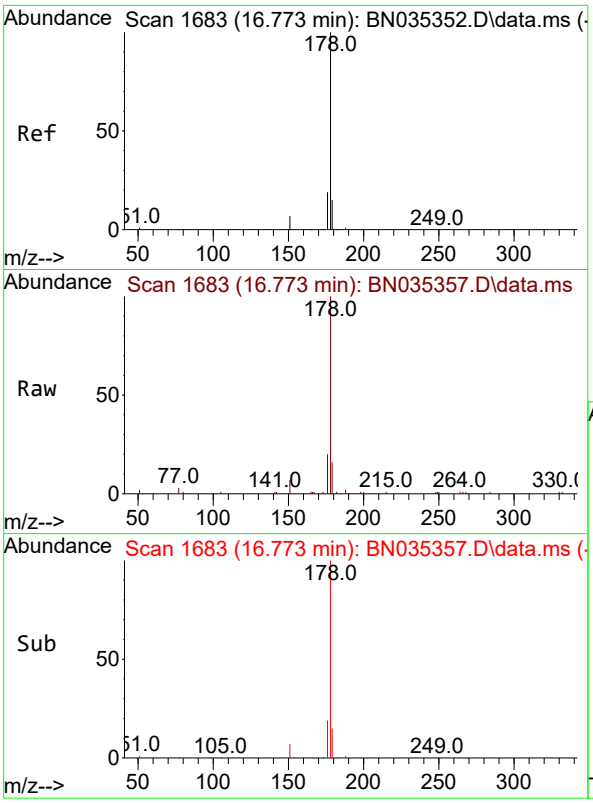


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	65.0	42.3	63.5#
268	66.8	43.3	64.9#



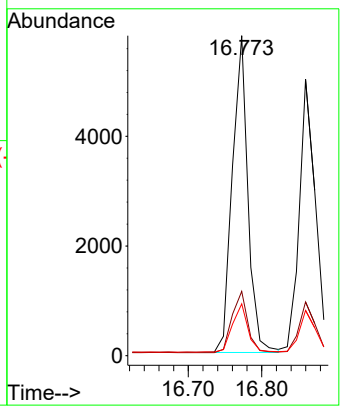


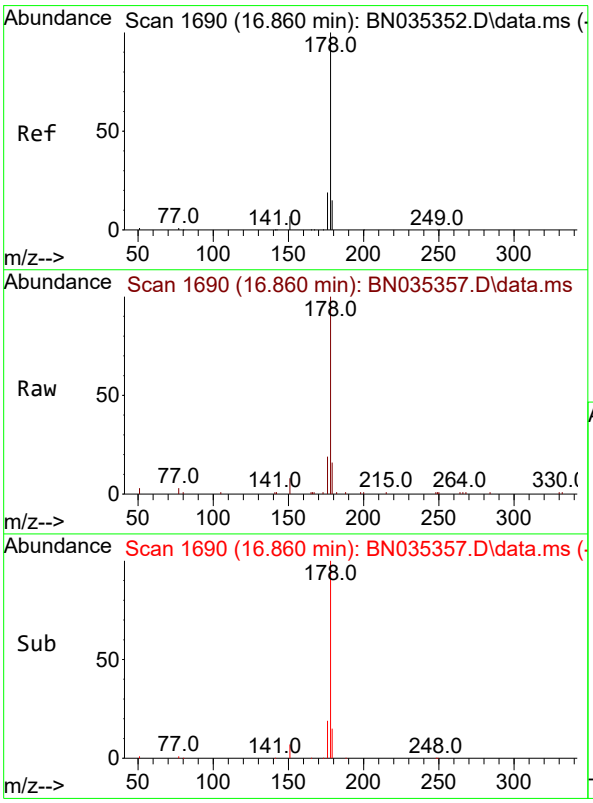
#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:178 Resp: 8509

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.4	12.3	18.5

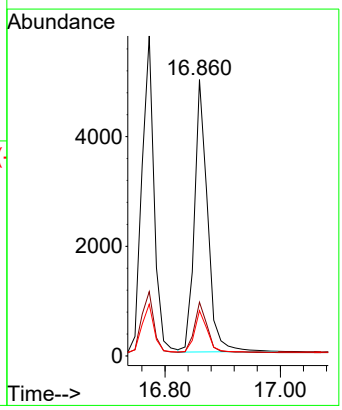


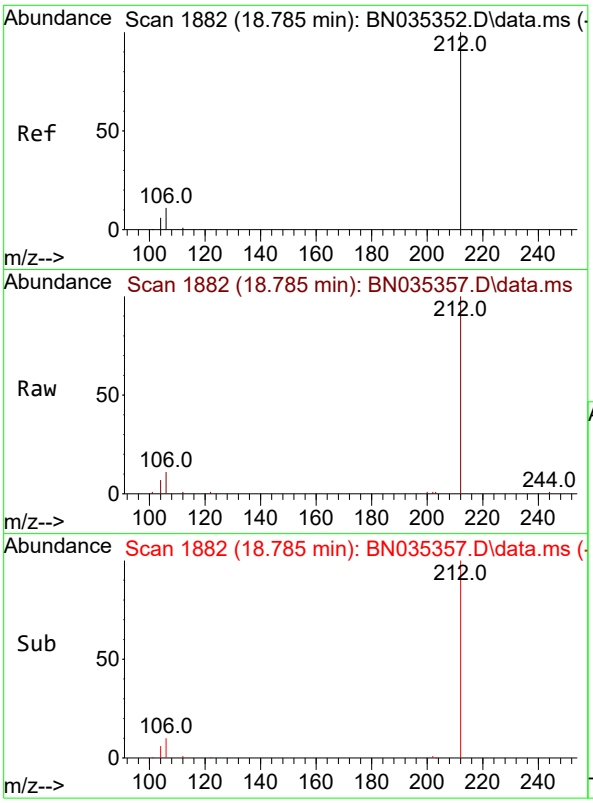


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8



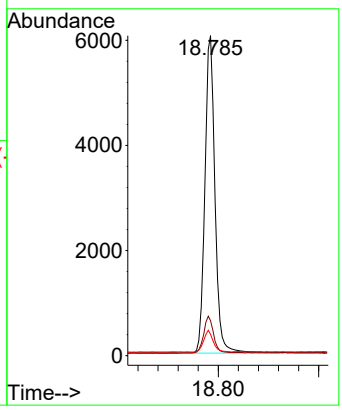


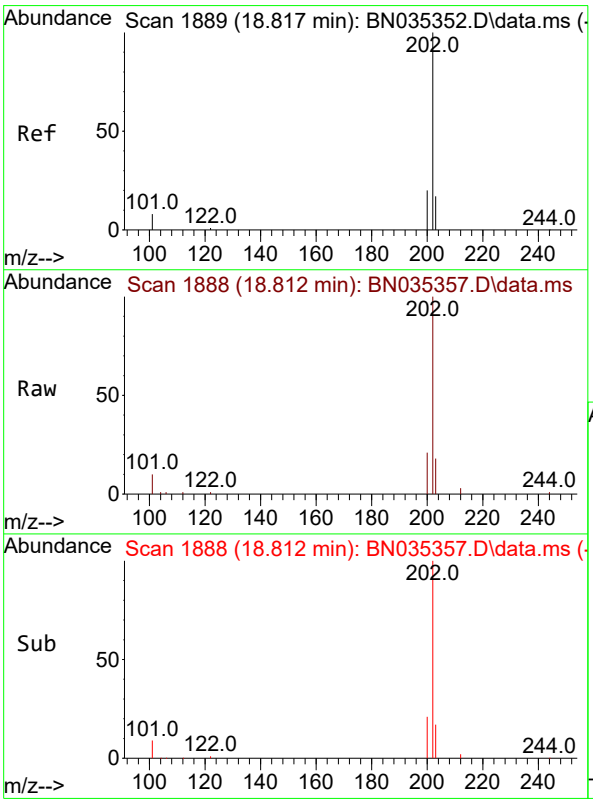
#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:212 Resp: 8415

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9

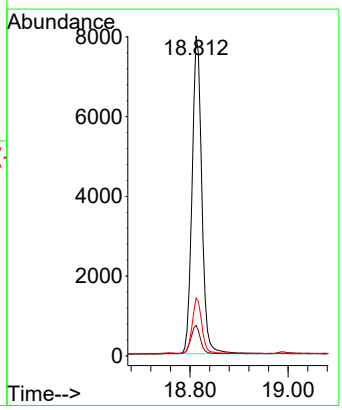


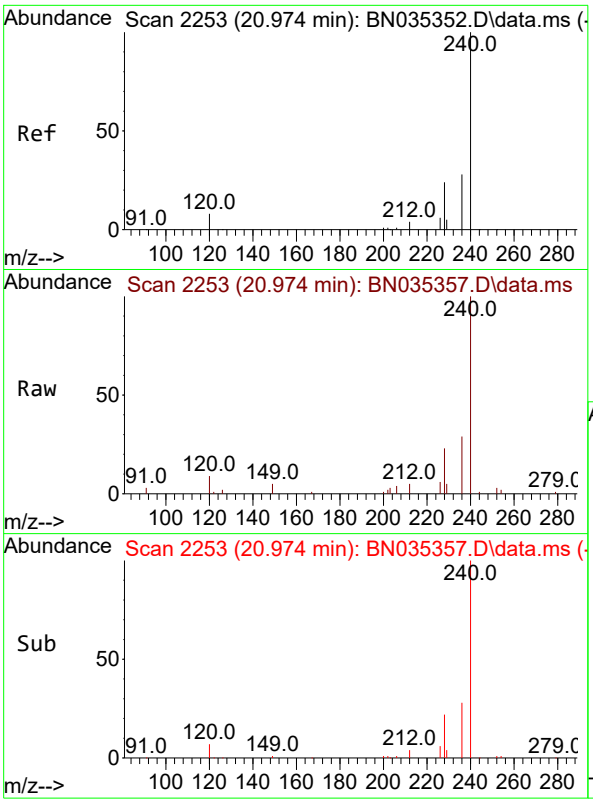


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



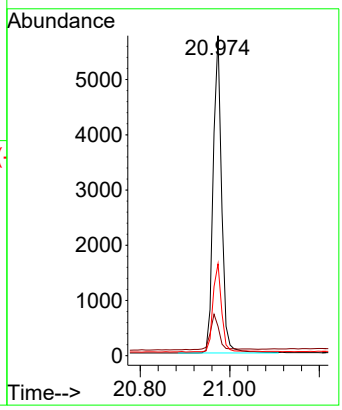


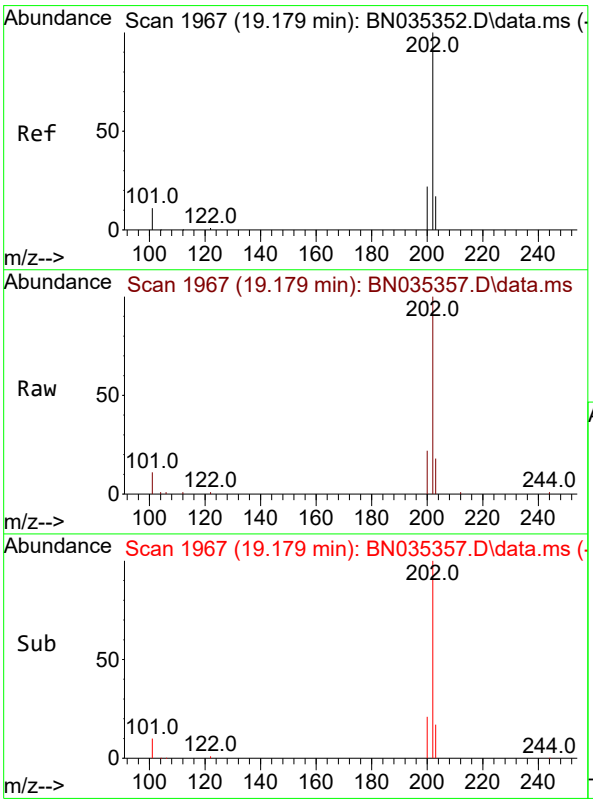
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:240 Resp: 7576

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3

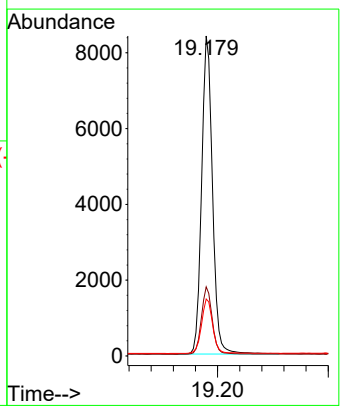


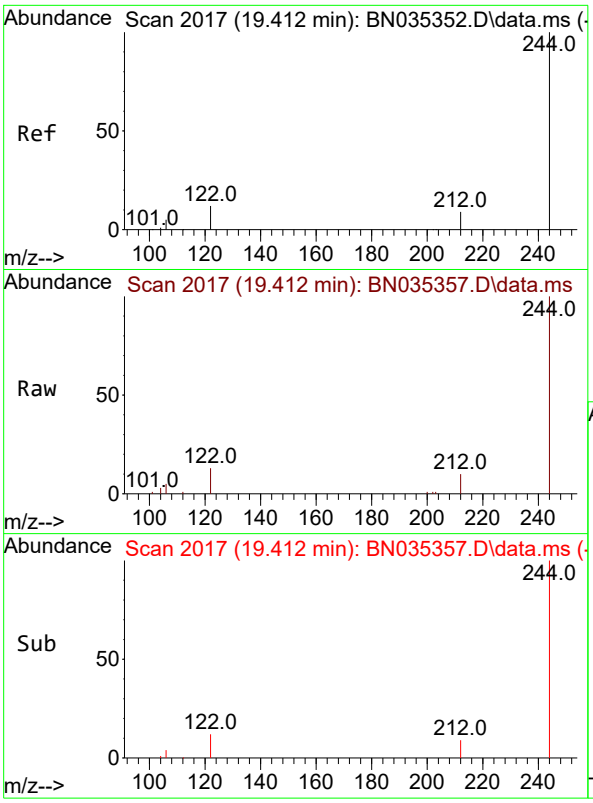


#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5



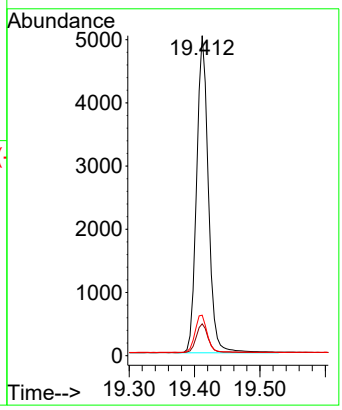


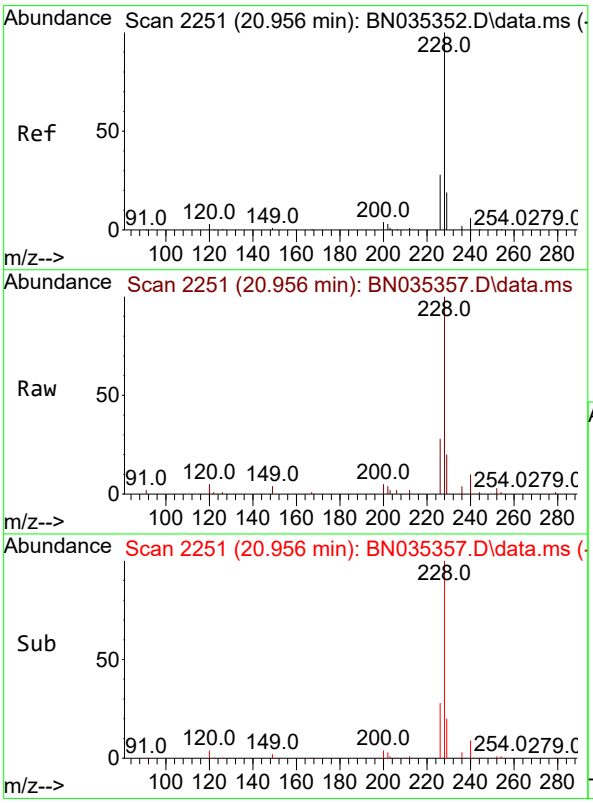
#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:244 Resp: 6272

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5

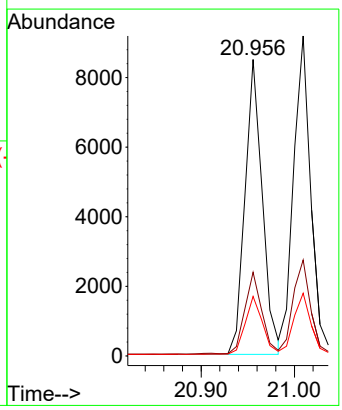


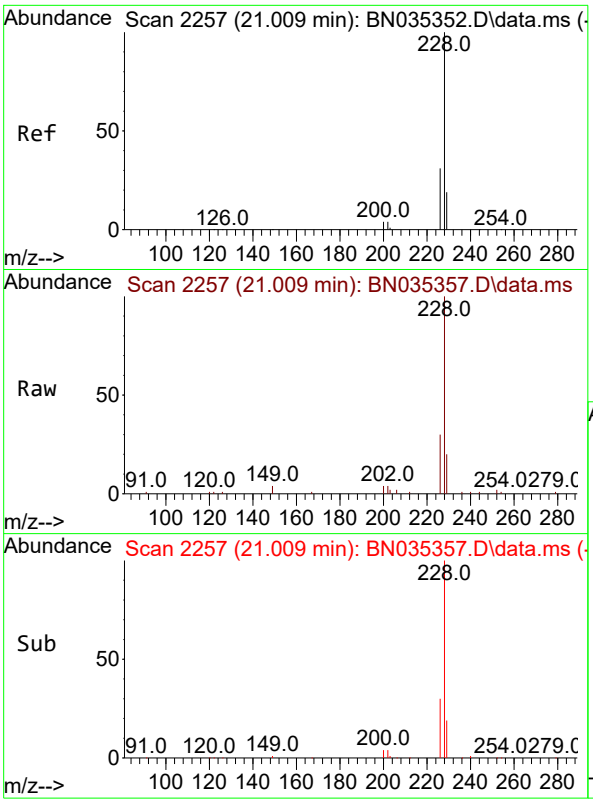


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.1	15.8	23.8



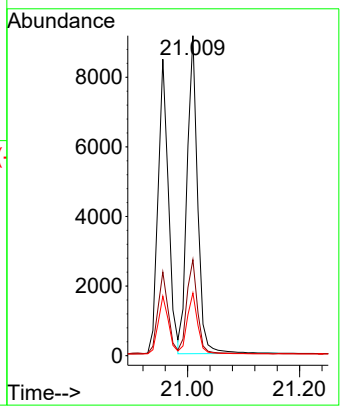


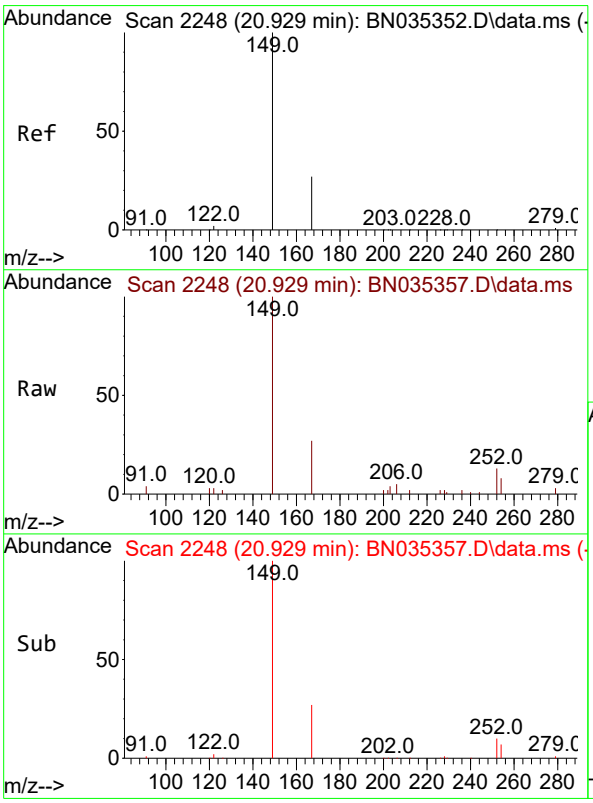
#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:228 Resp: 11926

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9

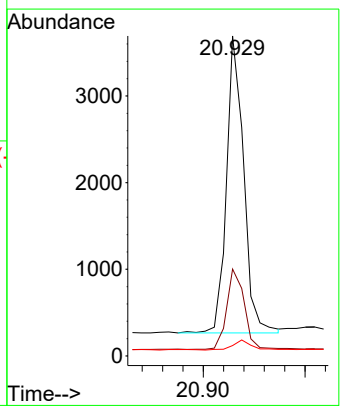


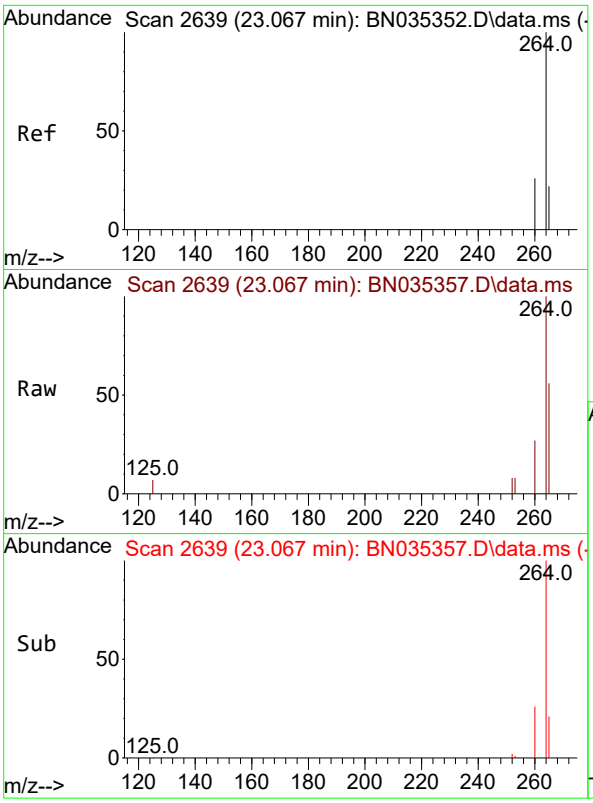


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1



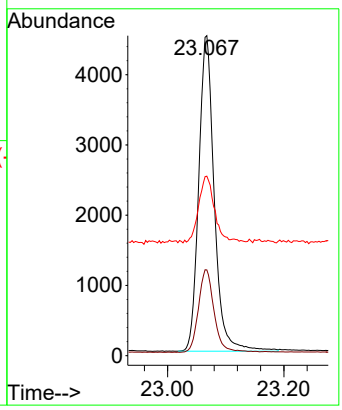


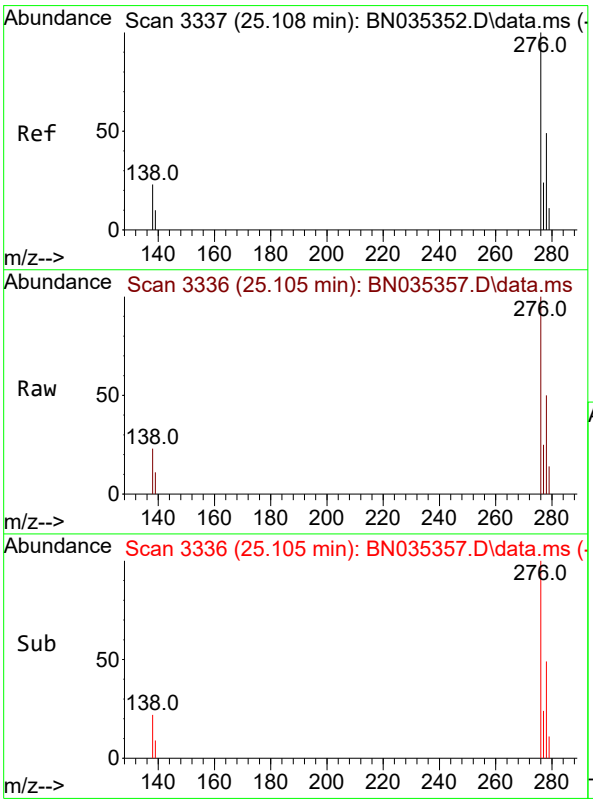
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:264 Resp: 8338

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4

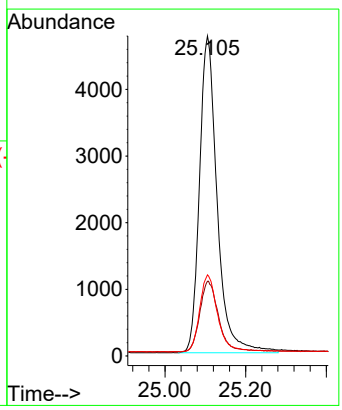


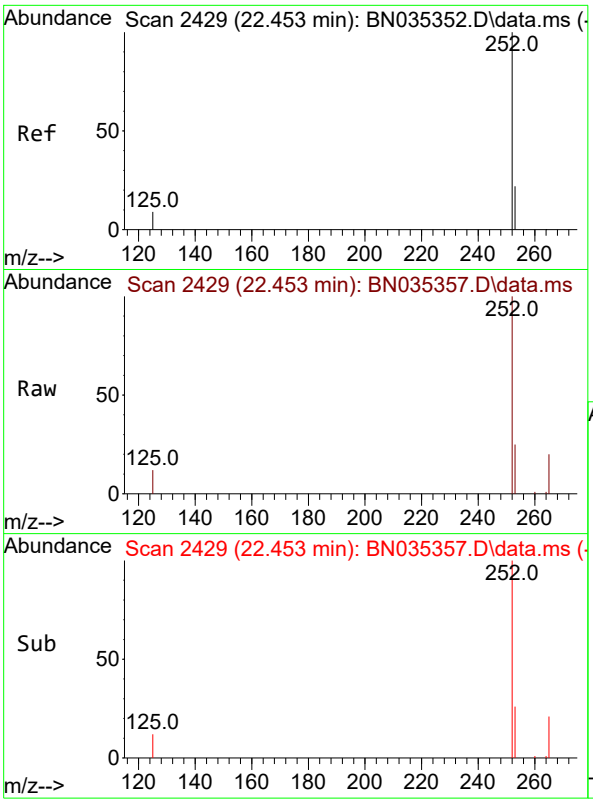


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6



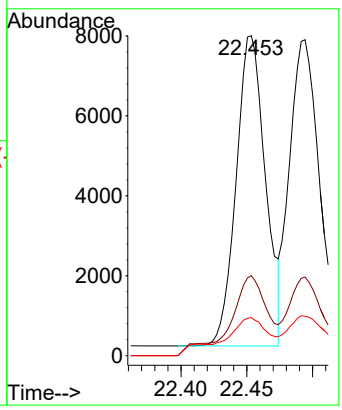


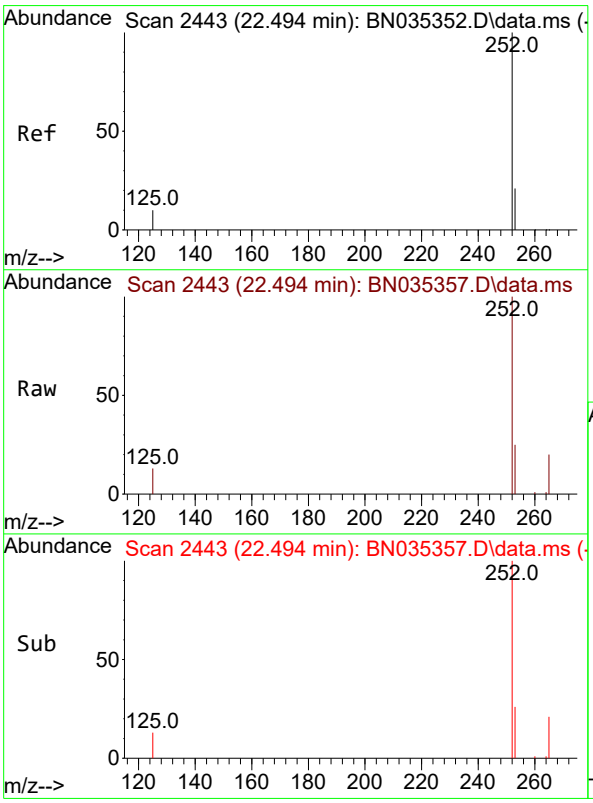
#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:252 Resp: 12988

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4

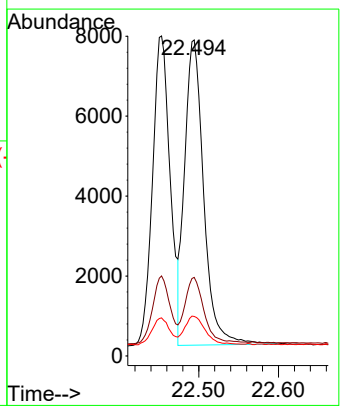


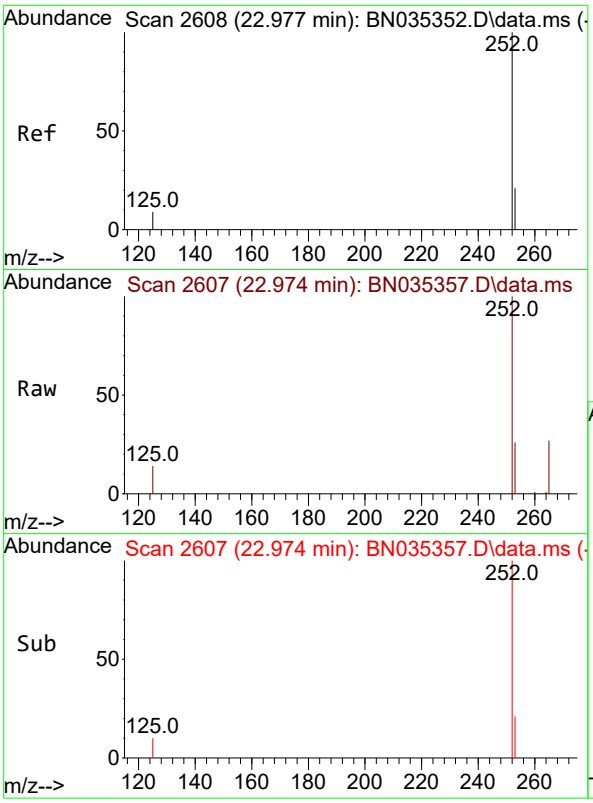


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.5	10.2	15.4



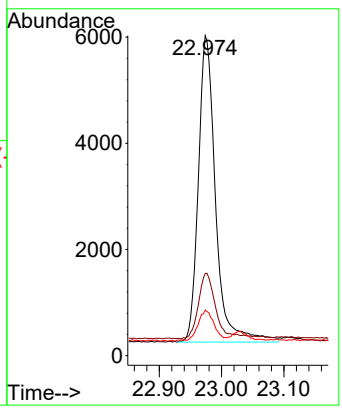


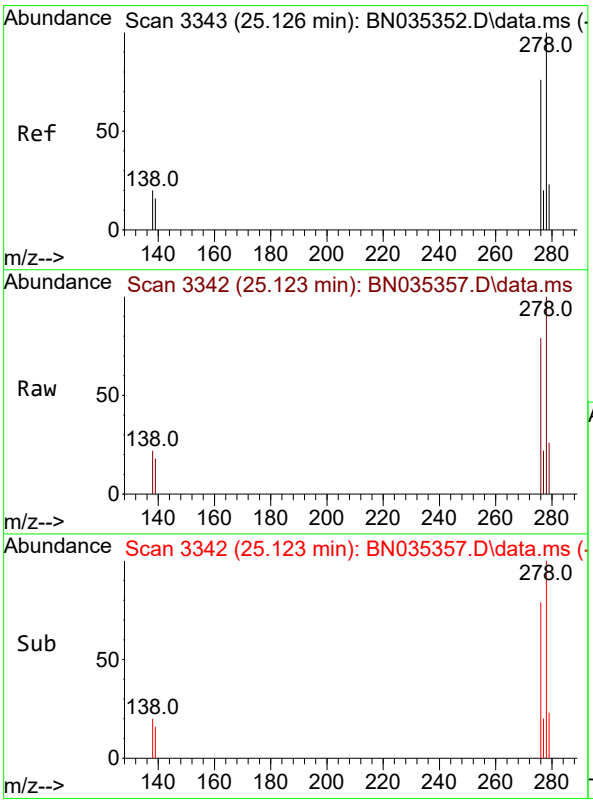
#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:252 Resp: 11094

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3

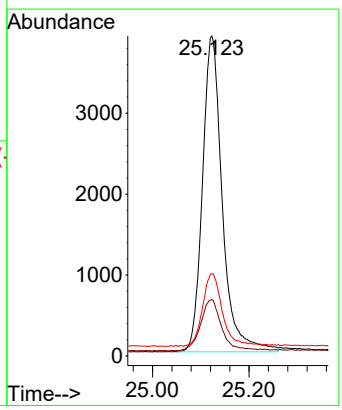


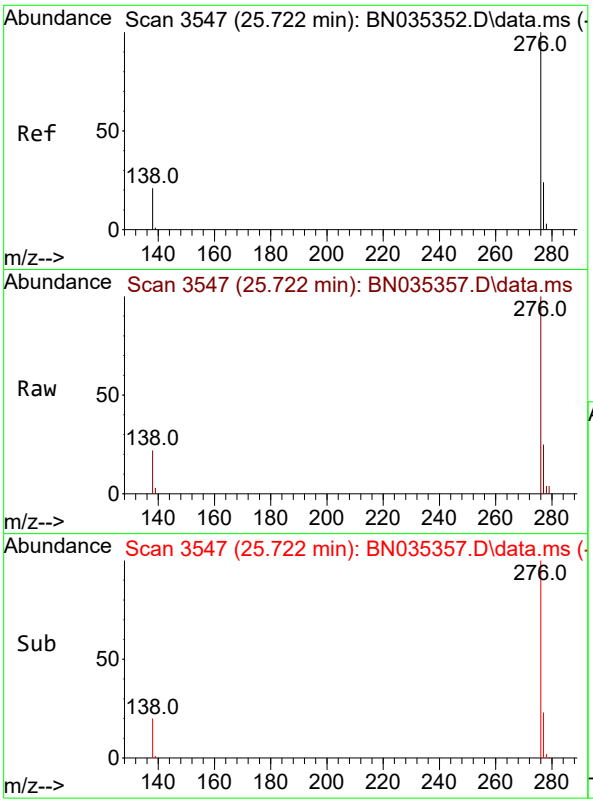


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7



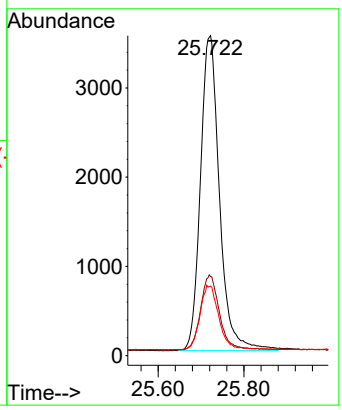


#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:276 Resp: 10870

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	21.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035368.D
Acq On : 28 Nov 2024 04:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 28 05:19:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2051	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5360	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3908	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	9758	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	9496	0.400	ng	0.00
35) Perylene-d12	23.067	264	10416	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	2113	0.412	ng	0.00
5) Phenol-d6	6.513	99	2611	0.423	ng	0.00
8) Nitrobenzene-d5	8.440	82	1400	0.428	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	3309	0.394	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	1093	0.394	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	5940	0.402	ng	0.00
27) Fluoranthene-d10	18.785	212	10388	0.376	ng	0.00
31) Terphenyl-d14	19.412	244	7482	0.399	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	770	0.393	ng	100
3) n-Nitrosodimethylamine	3.292	42	671	0.411	ng	# 98
6) bis(2-Chloroethyl)ether	6.759	93	2024	0.390	ng	100
9) Naphthalene	10.105	128	5590	0.395	ng	100
10) Hexachlorobutadiene	10.404	225	1343	0.412	ng	# 100
12) 2-Methylnaphthalene	11.732	142	4014	0.397	ng	99
16) Acenaphthylene	13.679	152	6370	0.388	ng	99
17) Acenaphthene	14.031	154	4272	0.392	ng	100
18) Fluorene	15.026	166	6118	0.392	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	349	0.364	ng	98
21) 4-Bromophenyl-phenylether	15.941	248	2214	0.388	ng	99
22) Hexachlorobenzene	16.040	284	2712	0.405	ng	99
23) Atrazine	16.227	200	1469	0.362	ng	98
24) Pentachlorophenol	16.400	266	1108	0.380	ng	87
25) Phenanthrene	16.773	178	10414	0.389	ng	100
26) Anthracene	16.860	178	9214	0.380	ng	100
28) Fluoranthene	18.812	202	13563	0.375	ng	100
30) Pyrene	19.184	202	14155	0.404	ng	100
32) Benzo(a)anthracene	20.956	228	12659	0.381	ng	100
33) Chrysene	21.009	228	13795	0.403	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4791	0.365	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	15947	0.392	ng	99
37) Benzo(b)fluoranthene	22.453	252	16437	0.431	ng	100
38) Benzo(k)fluoranthene	22.497	252	14678	0.391	ng	99
39) Benzo(a)pyrene	22.980	252	11871	0.378	ng	99
40) Dibenzo(a,h)anthracene	25.128	278	12541	0.390	ng	99
41) Benzo(g,h,i)perylene	25.722	276	12859	0.383	ng	98

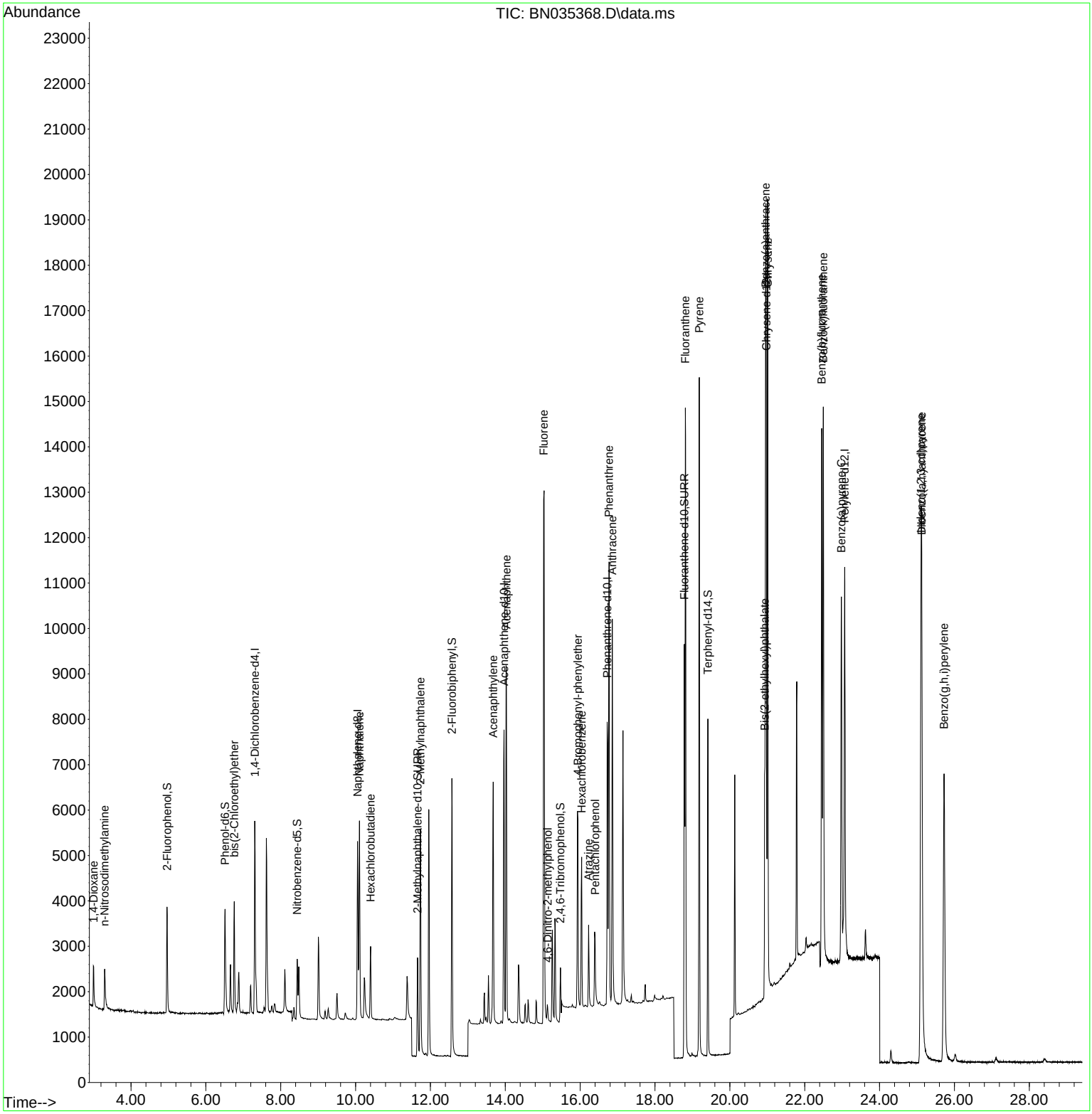
(#) = qualifier out of range (m) = manual integration (+) = signals summed

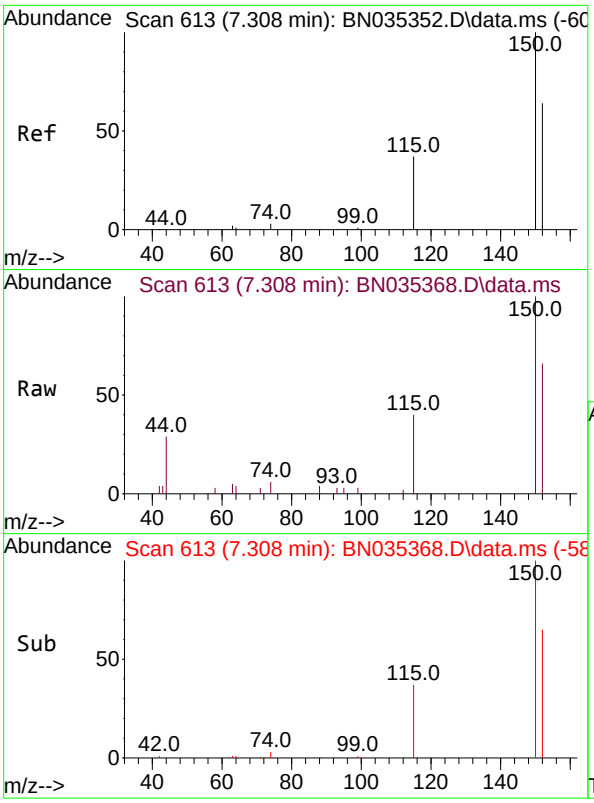
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035368.D
Acq On : 28 Nov 2024 04:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 28 05:19:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



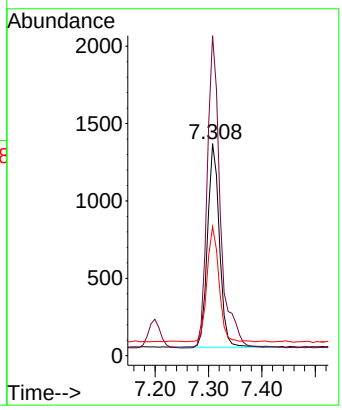


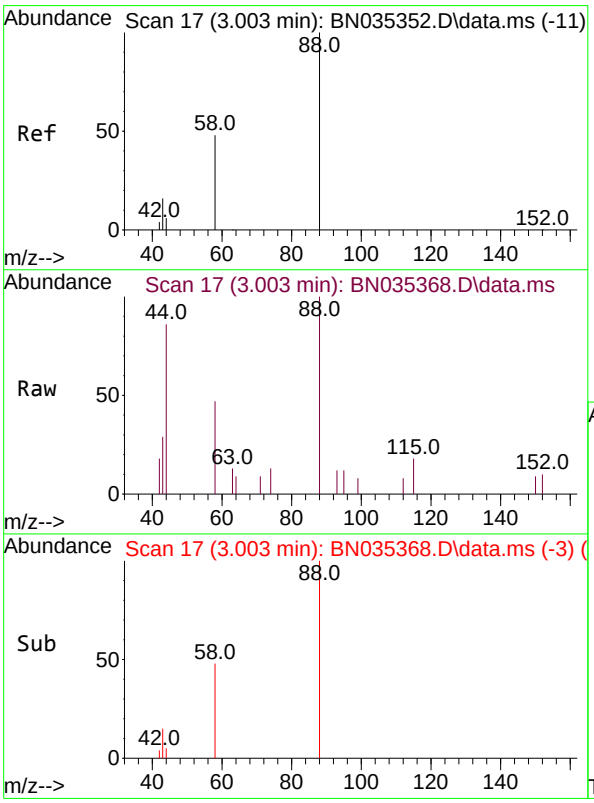
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2051

Ion	Ratio	Lower	Upper
152	100		
150	150.9	124.0	186.0
115	60.8	49.6	74.4

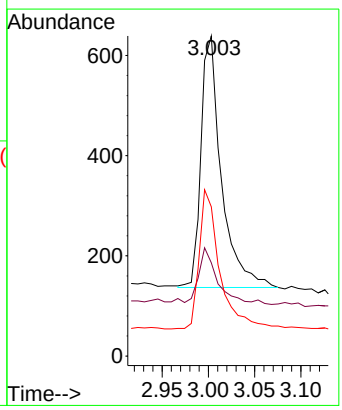


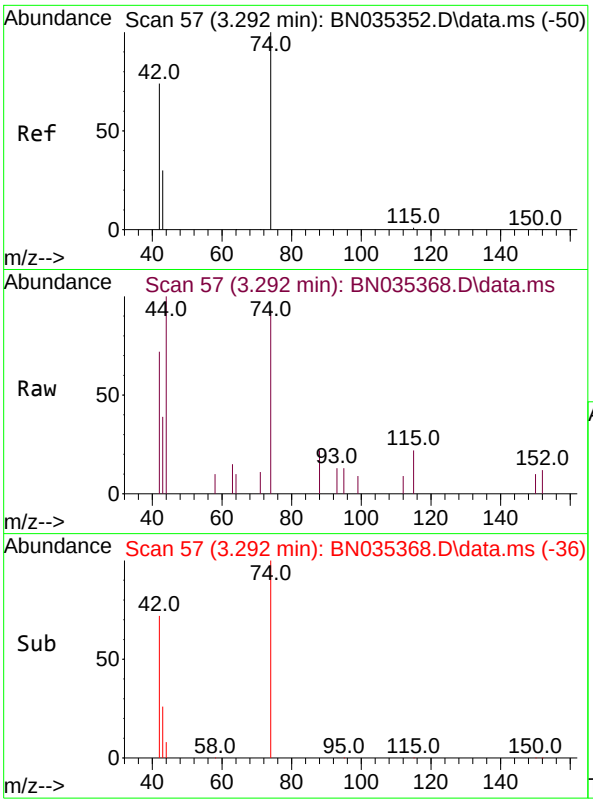


#2
1,4-Dioxane
Concen: 0.393 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion: 88 Resp: 770

Ion	Ratio	Lower	Upper
88	100		
43	22.2	17.2	25.8
58	55.6	44.5	66.7



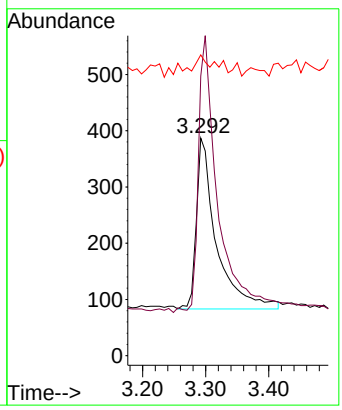


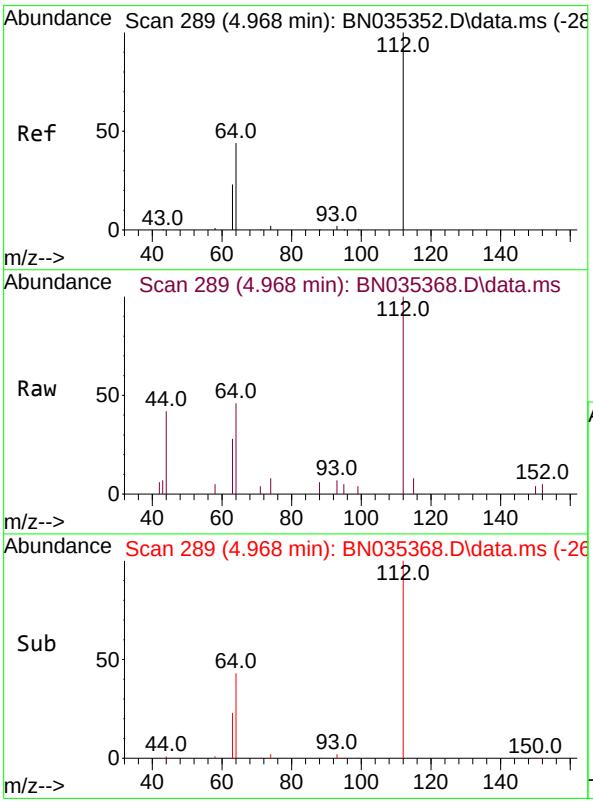
#3
n-Nitrosodimethylamine
Concen: 0.411 ng
RT: 3.292 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 671

Ion	Ratio	Lower	Upper
42	100		
74	158.9	124.9	187.3
44	4.3	2.2	3.4#

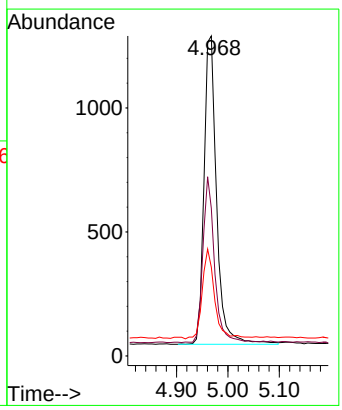


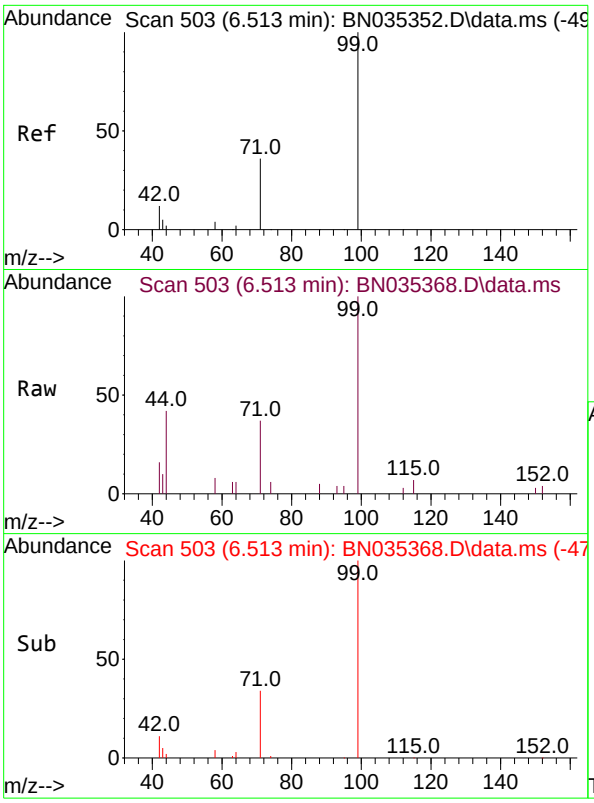


#4
2-Fluorophenol
Concen: 0.412 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:112 Resp: 2113

Ion	Ratio	Lower	Upper
112	100		
64	49.9	39.8	59.8
63	28.7	21.0	31.6



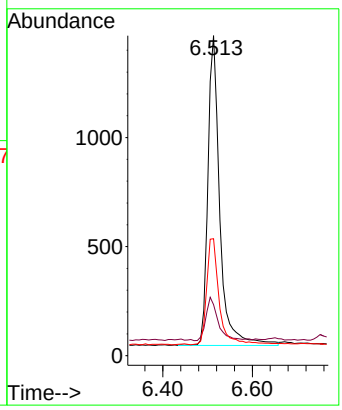


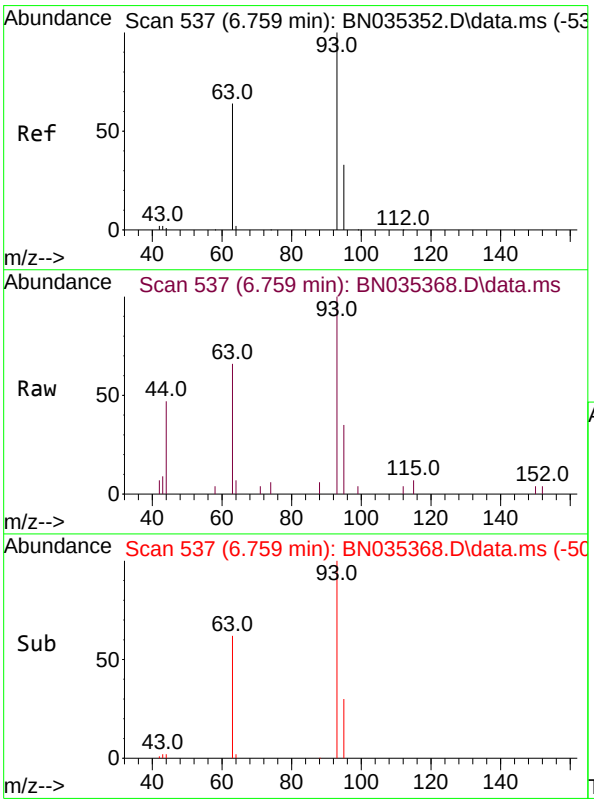
#5
Phenol-d6
Concen: 0.423 ng
RT: 6.513 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2611

Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	36.8	29.3	43.9

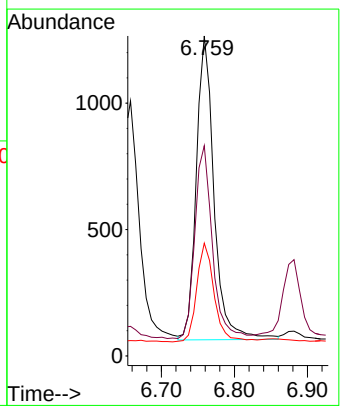


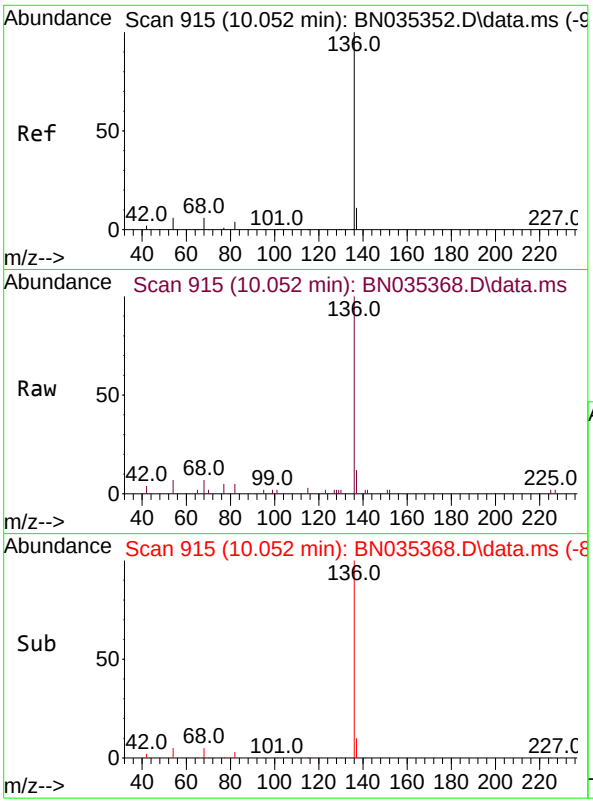


#6
bis(2-Chloroethyl)ether
Concen: 0.390 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion: 93 Resp: 2024

Ion	Ratio	Lower	Upper
93	100		
63	62.9	50.4	75.6
95	32.0	25.7	38.5



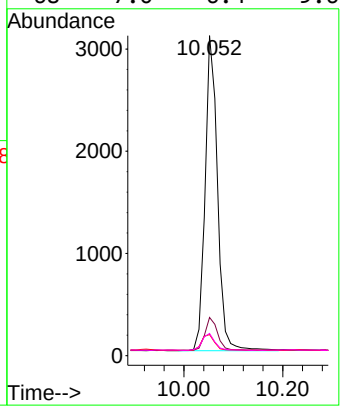


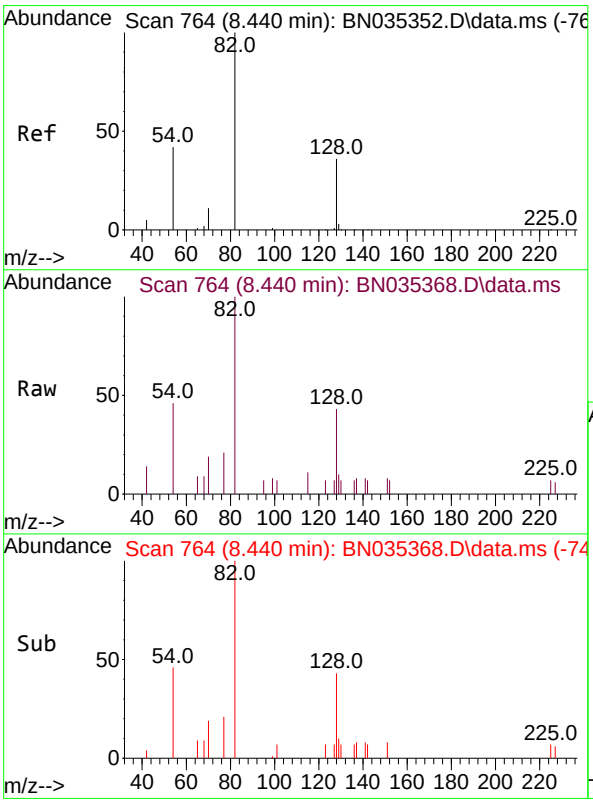
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 5360

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.2	15.2
54	6.6	6.1	9.1
68	7.0	6.4	9.6

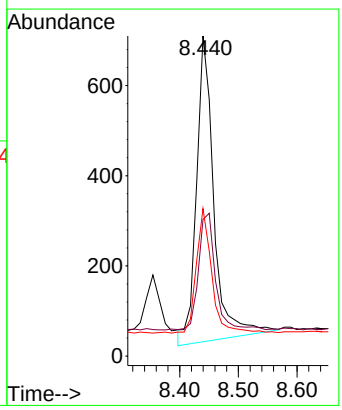


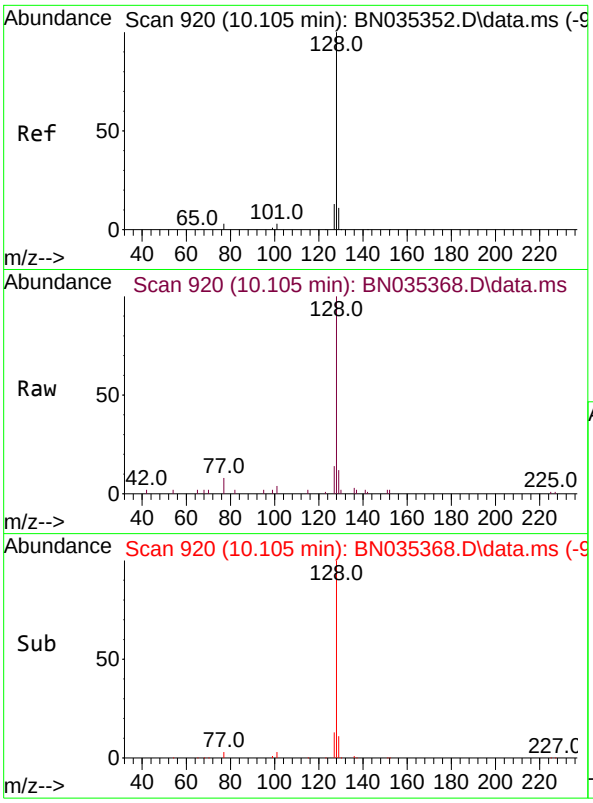


#8
Nitrobenzene-d5
Concen: 0.428 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion: 82 Resp: 1400

Ion	Ratio	Lower	Upper
82	100		
128	42.7	33.4	50.0
54	46.1	36.7	55.1



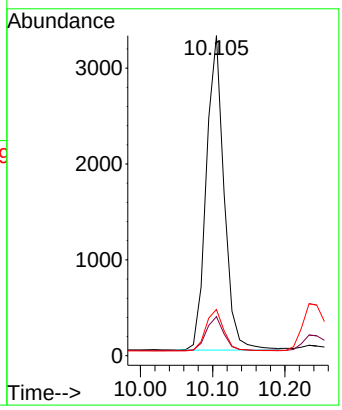


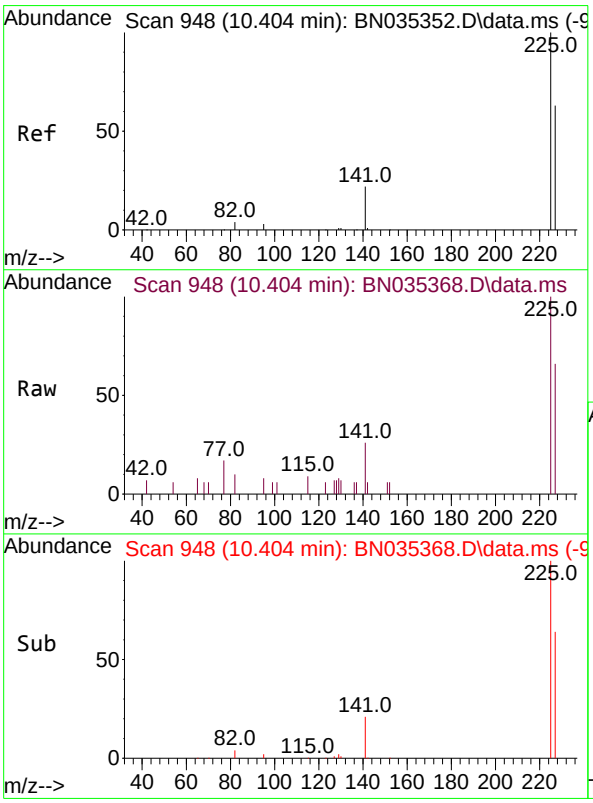
#9
Naphthalene
Concen: 0.395 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 5590

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.4	11.4	17.2

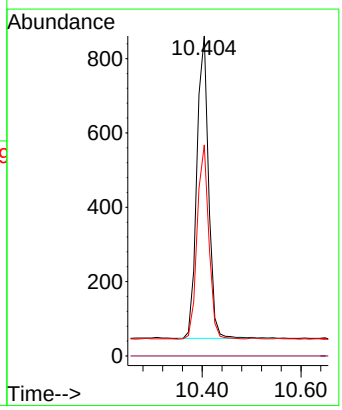


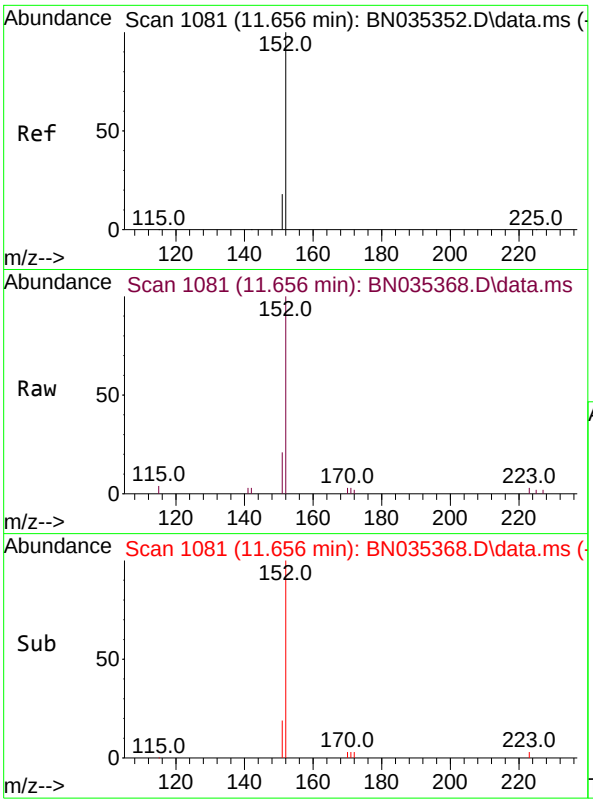


#10
Hexachlorobutadiene
Concen: 0.412 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:225 Resp: 1343

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.3	76.9



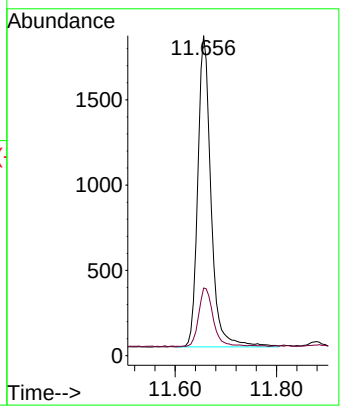


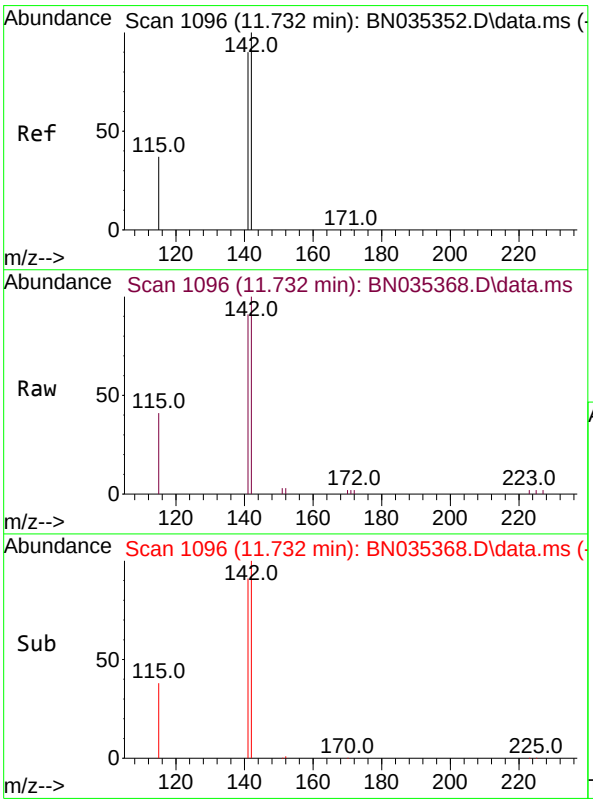
#11
2-Methylnaphthalene-d10
Concen: 0.394 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3309

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0

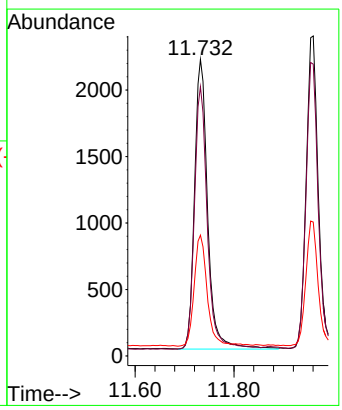


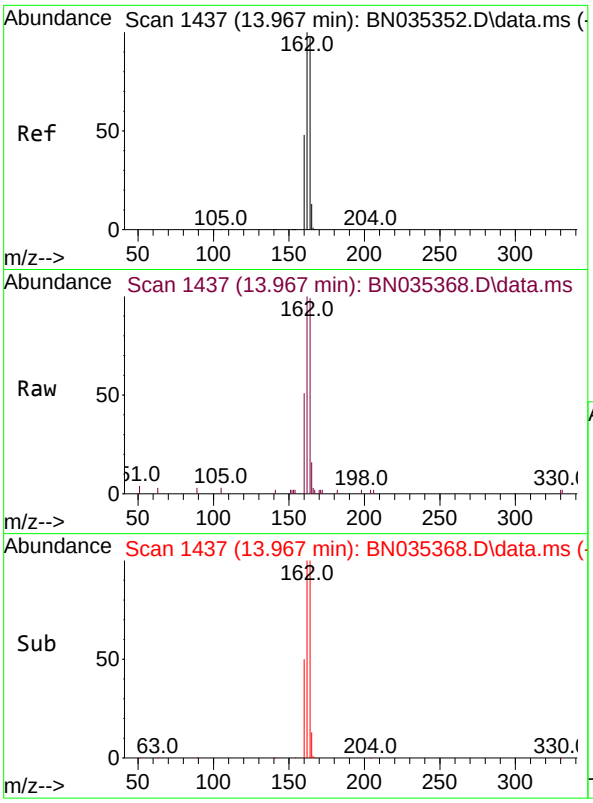


#12
2-Methylnaphthalene
Concen: 0.397 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:142 Resp: 4014

Ion	Ratio	Lower	Upper
142	100		
141	90.8	72.2	108.4
115	40.7	31.4	47.0



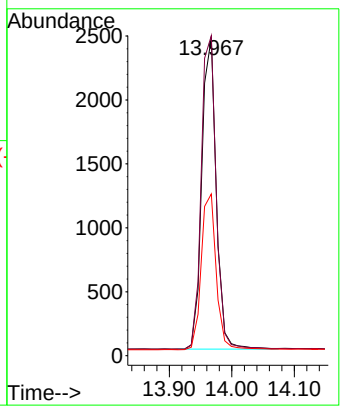


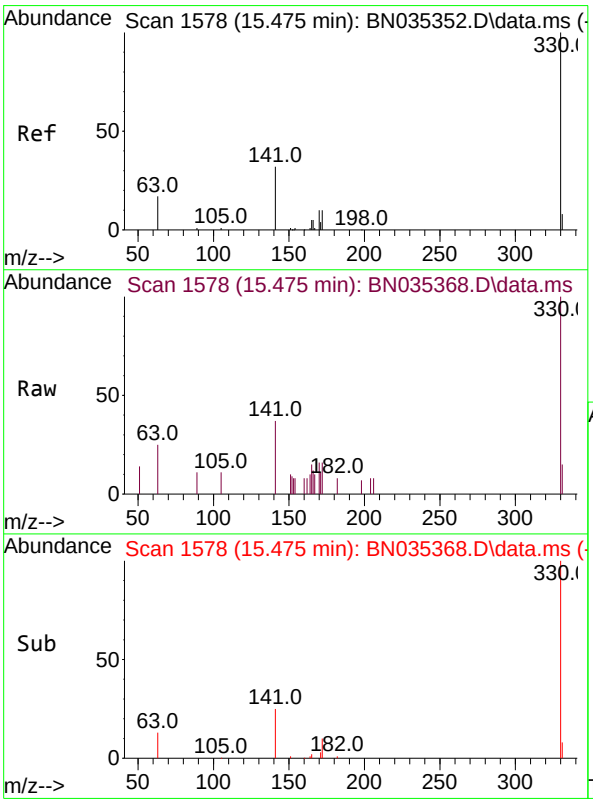
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 3908

Ion	Ratio	Lower	Upper
164	100		
162	100.5	82.2	123.2
160	50.8	40.1	60.1

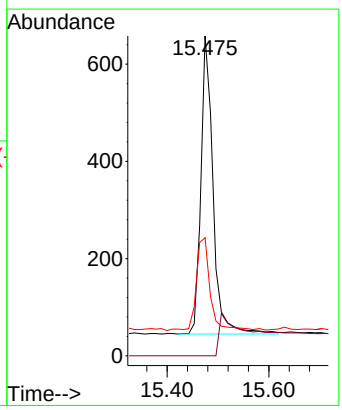


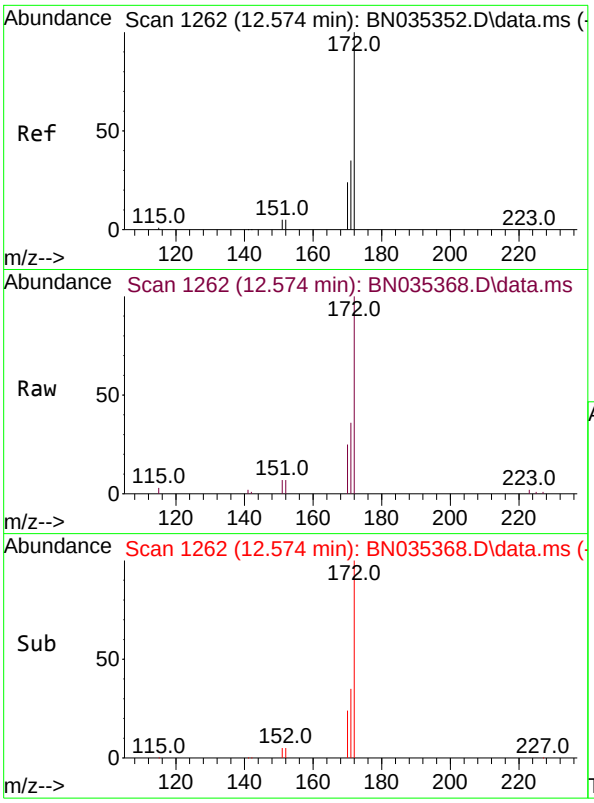


#14
2,4,6-Tribromophenol
Concen: 0.394 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:330 Resp: 1093

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.1	26.6	40.0



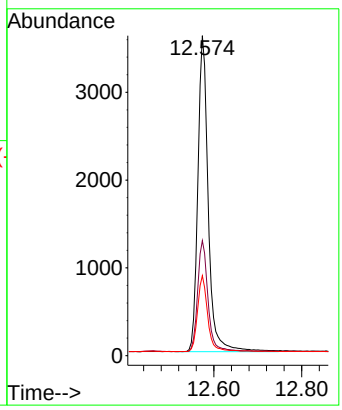


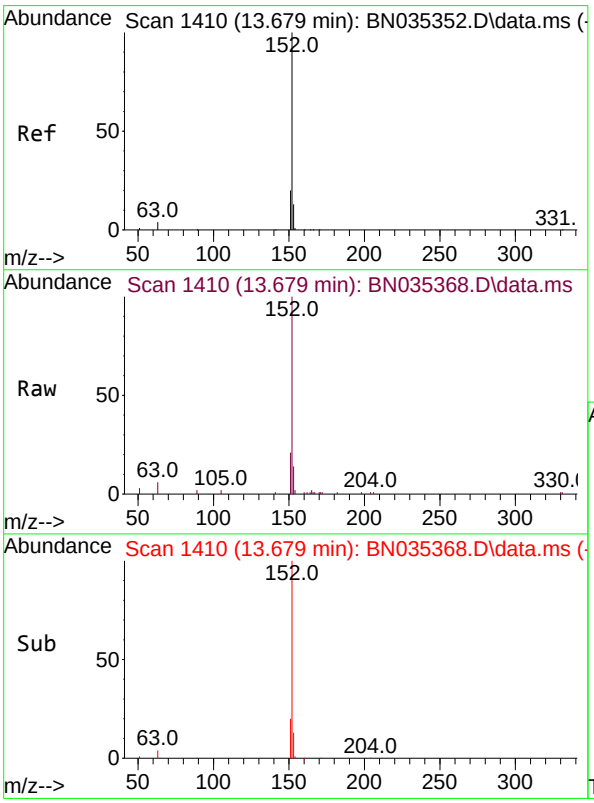
#15
2-Fluorobiphenyl
Concen: 0.402 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 5940

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	25.0	19.8	29.8

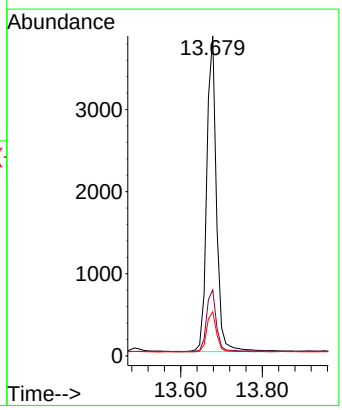


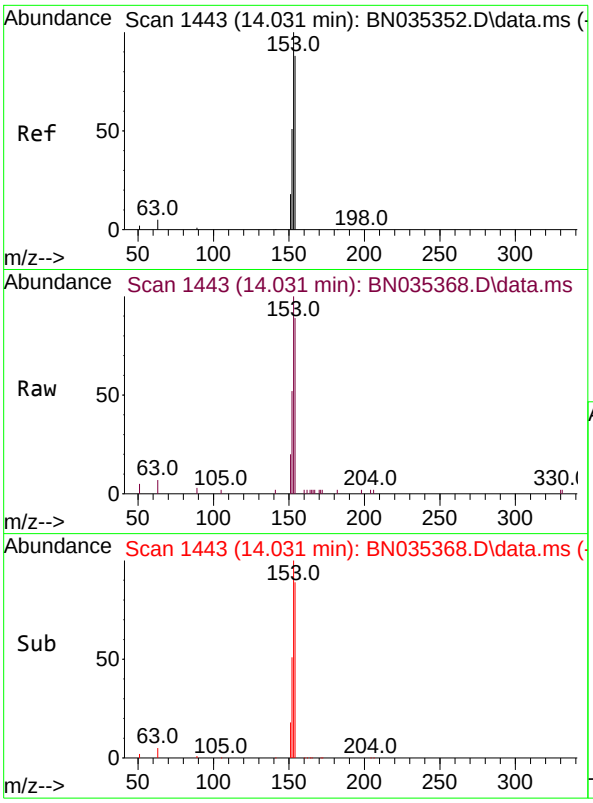


#16
Acenaphthylene
Concen: 0.388 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:152 Resp: 6370

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	12.9	10.4	15.6



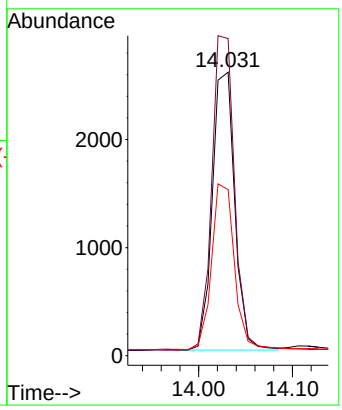


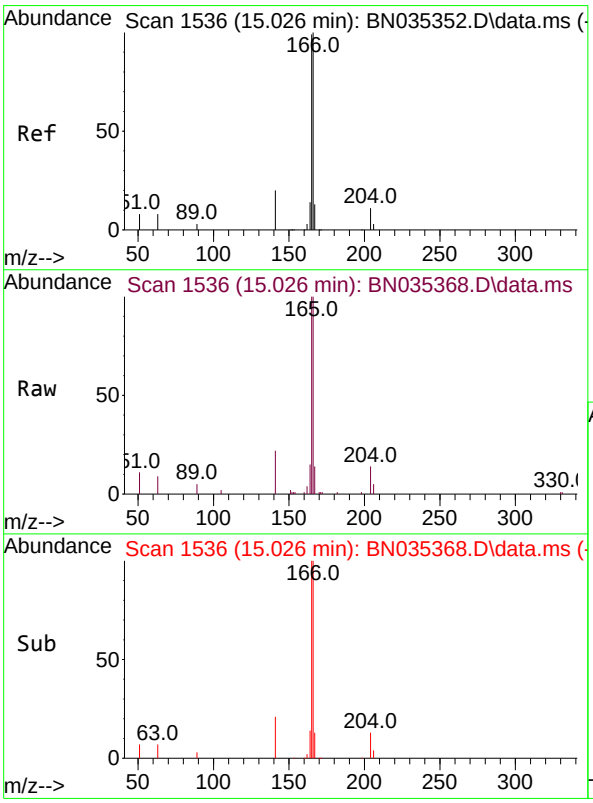
#17
Acenaphthene
Concen: 0.392 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 4272

Ion	Ratio	Lower	Upper
154	100		
153	115.9	92.6	139.0
152	61.0	49.0	73.6

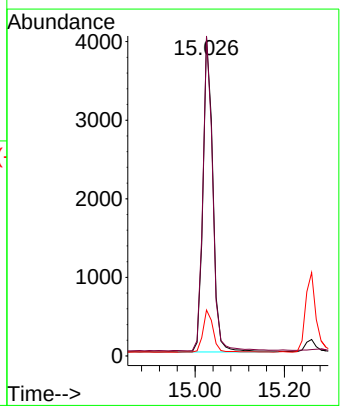


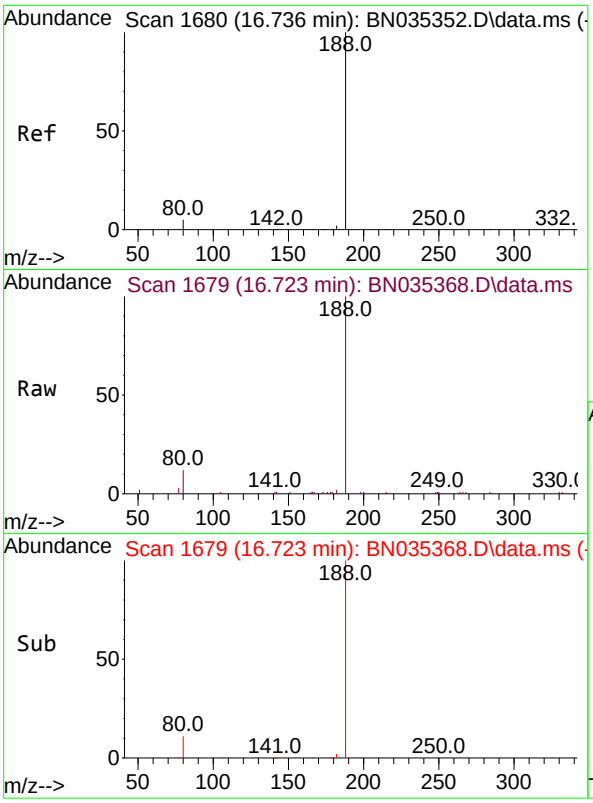


#18
Fluorene
Concen: 0.392 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:166 Resp: 6118

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.7	119.5
167	13.9	10.8	16.2



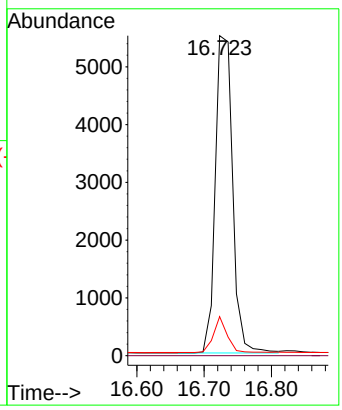


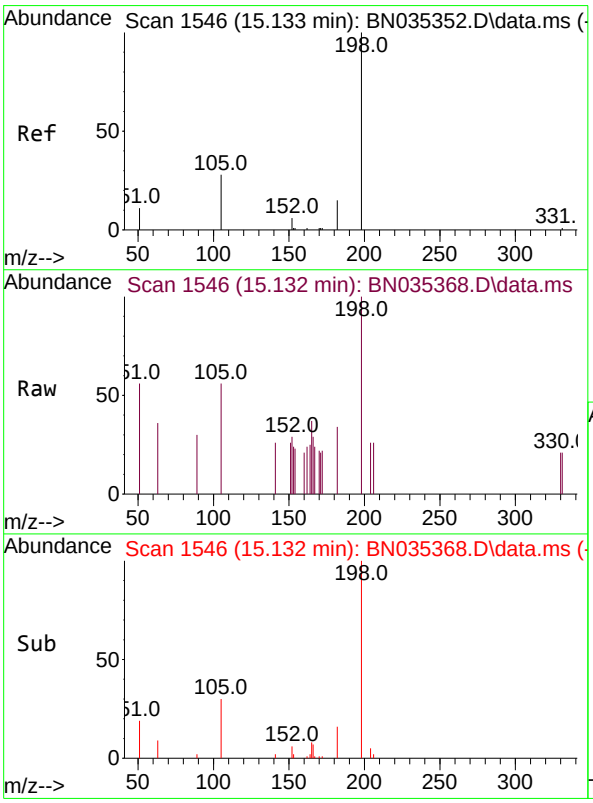
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 9758

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8#

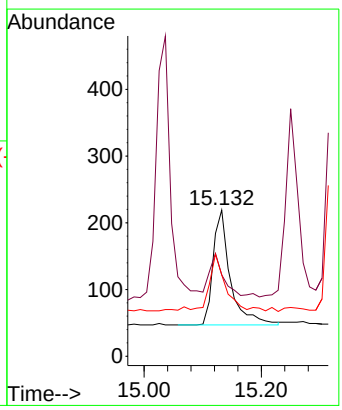


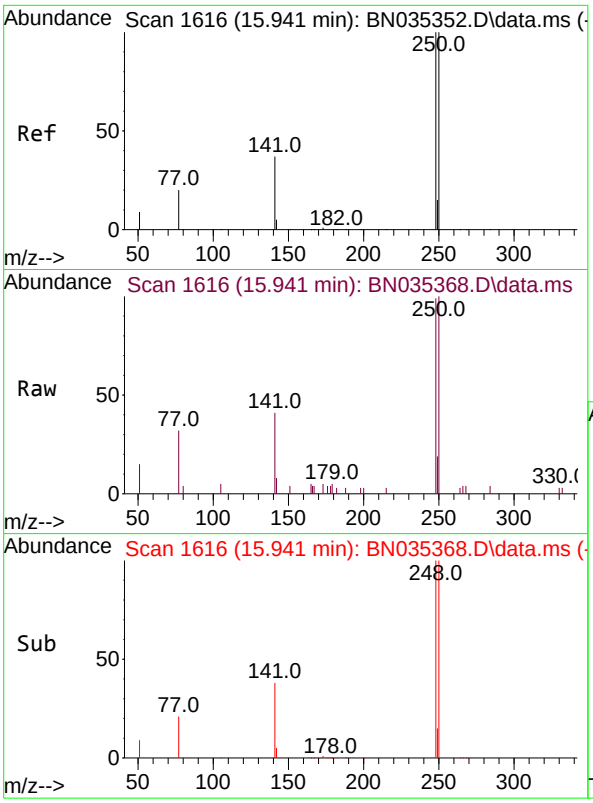


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:198 Resp: 349

Ion	Ratio	Lower	Upper
198	100		
51	55.7	46.5	69.7
105	55.7	45.3	67.9



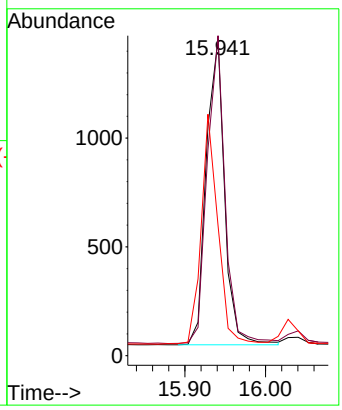


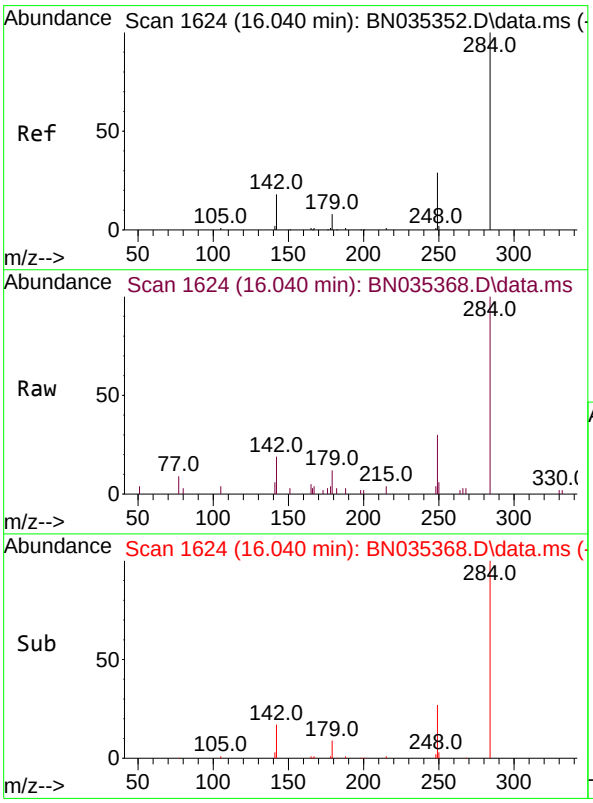
#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2214

Ion	Ratio	Lower	Upper
248	100		
250	101.0	80.6	120.8
141	41.1	31.5	47.3

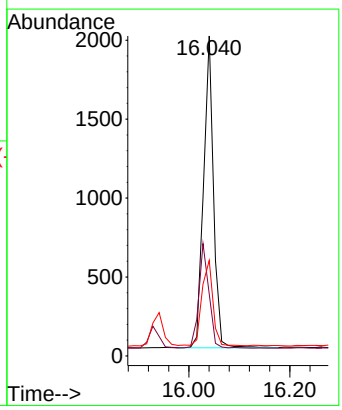


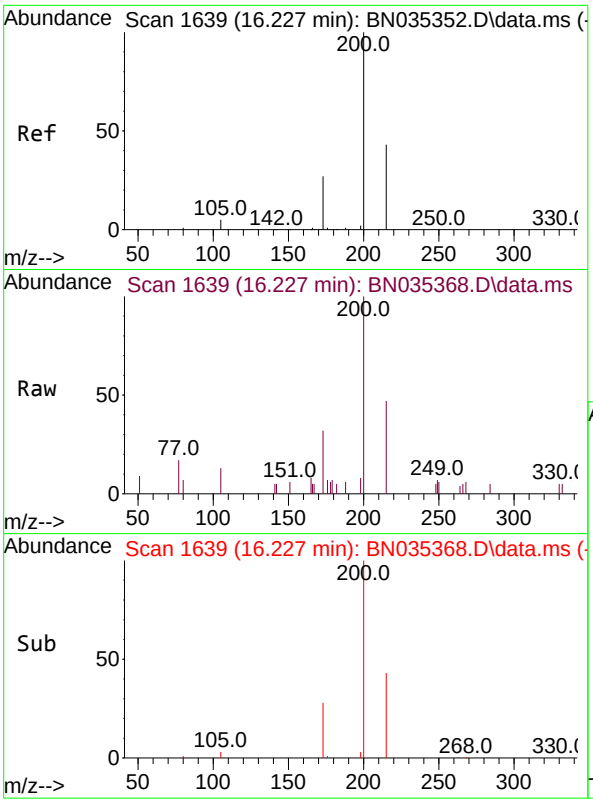


#22
Hexachlorobenzene
Concen: 0.405 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:284 Resp: 2712

Ion	Ratio	Lower	Upper
284	100		
142	34.0	26.7	40.1
249	30.5	24.6	36.8



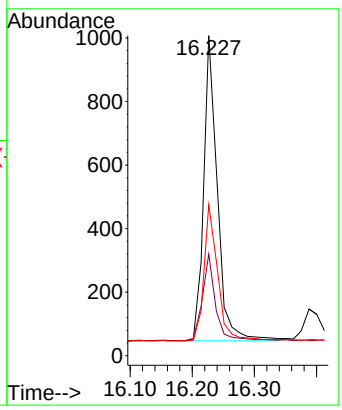


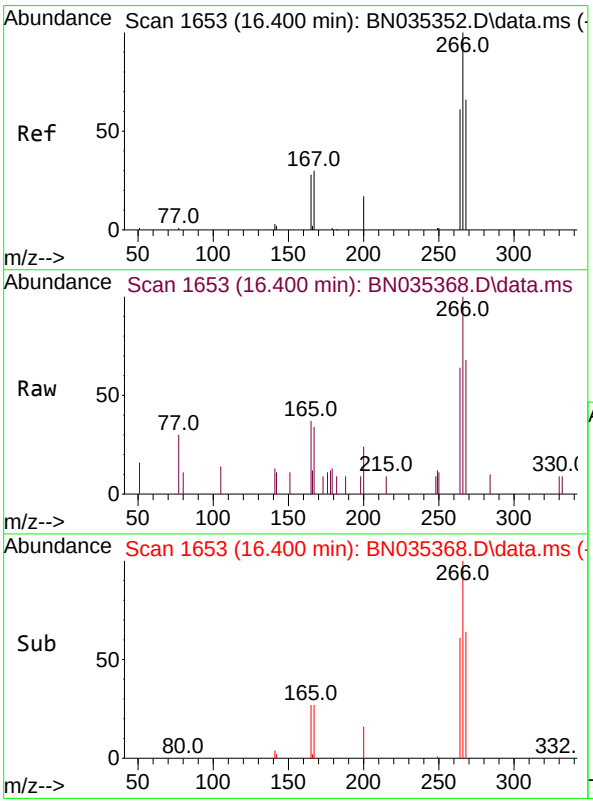
#23
Atrazine
Concen: 0.362 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1469

Ion	Ratio	Lower	Upper
200	100		
173	31.8	24.1	36.1
215	47.2	36.9	55.3

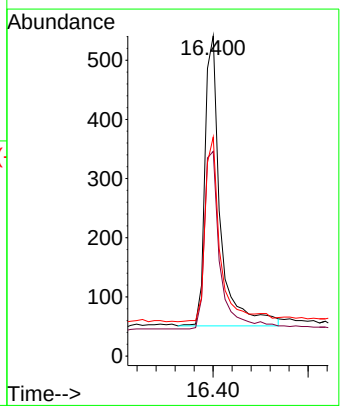


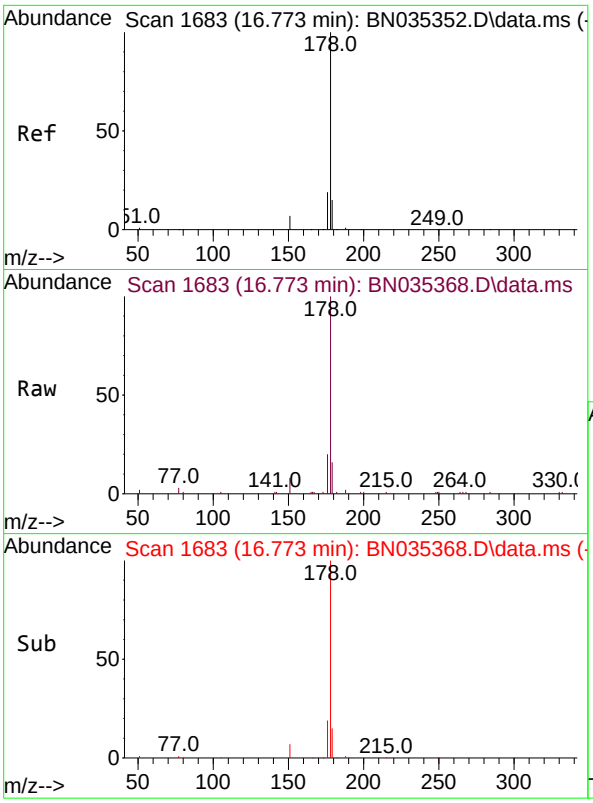


#24
Pentachlorophenol
Concen: 0.380 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:266 Resp: 1108

Ion	Ratio	Lower	Upper
266	100		
264	62.3	42.3	63.5
268	62.8	43.3	64.9



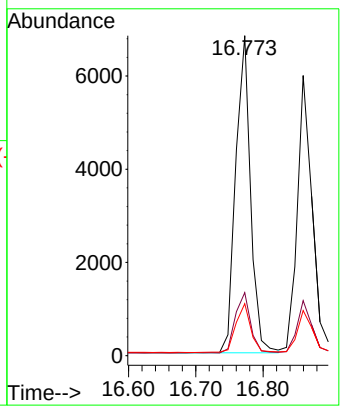


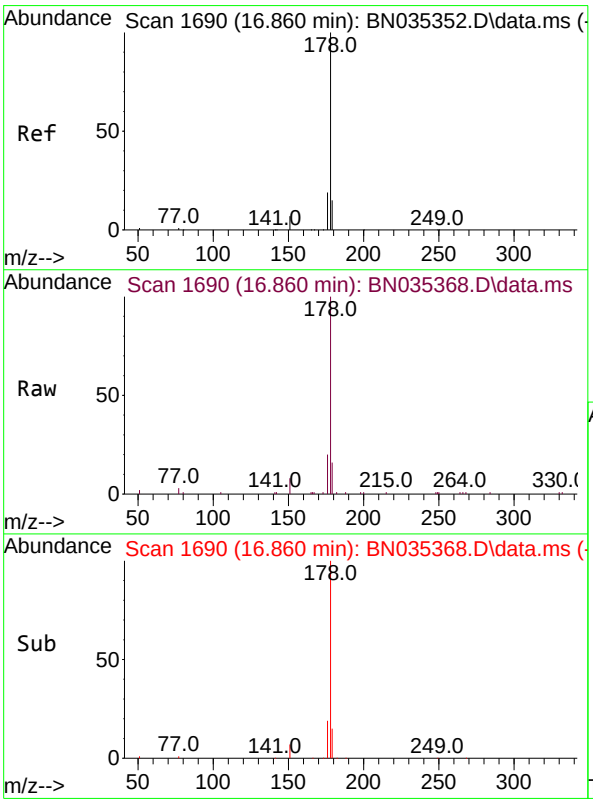
#25
Phenanthrene
Concen: 0.389 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 10414

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5

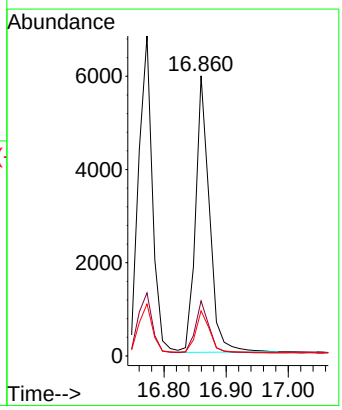


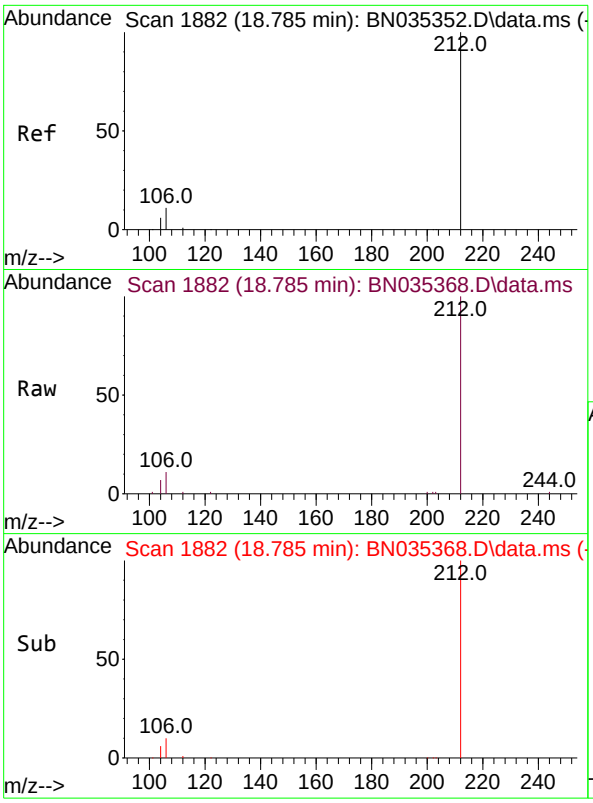


#26
Anthracene
Concen: 0.380 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:178 Resp: 9214

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.4	12.6	18.8



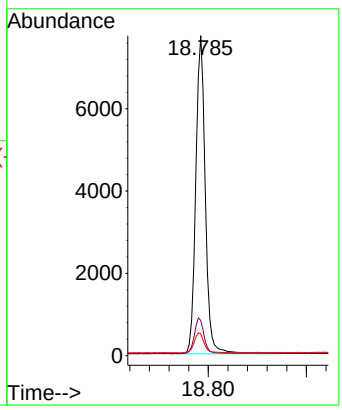


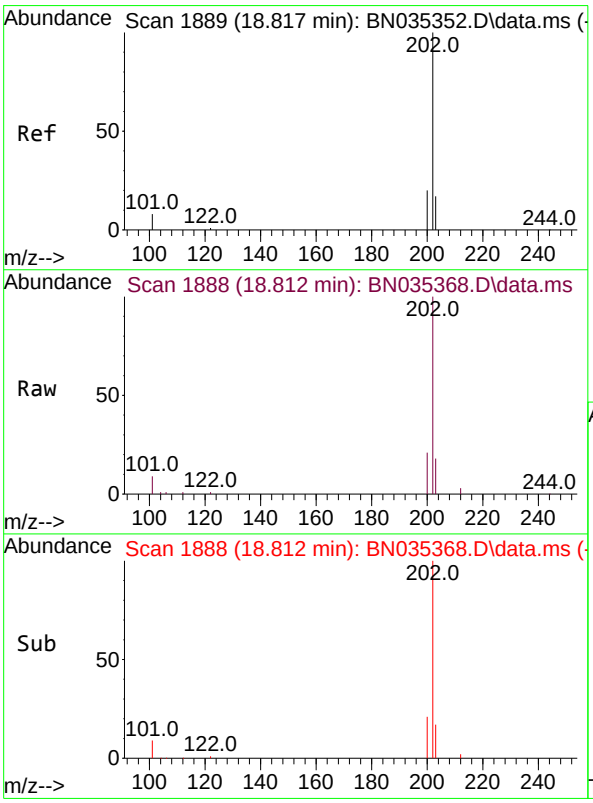
#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 10388

Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.4	5.3	7.9

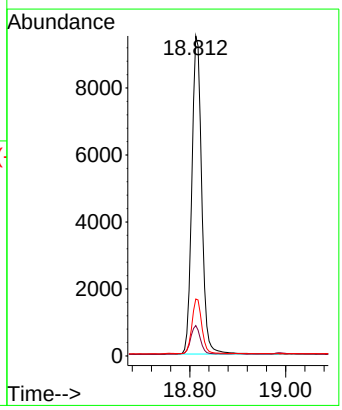


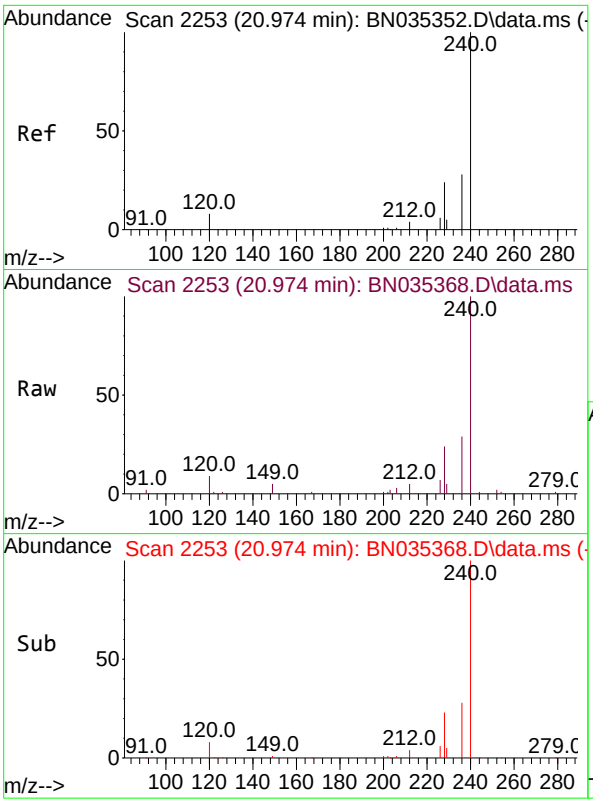


#28
Fluoranthene
Concen: 0.375 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:202 Resp: 13563

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.1	13.7	20.5



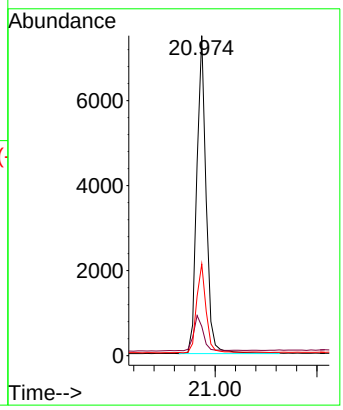


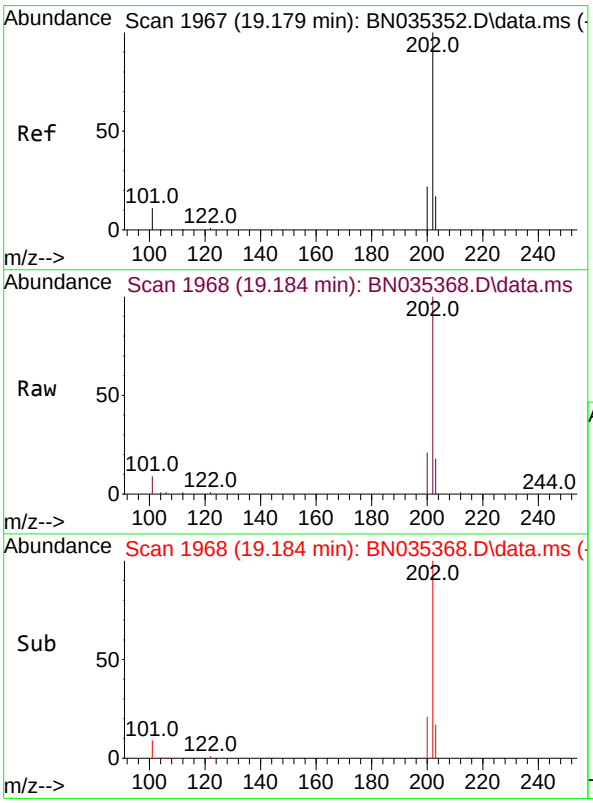
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 9496

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3

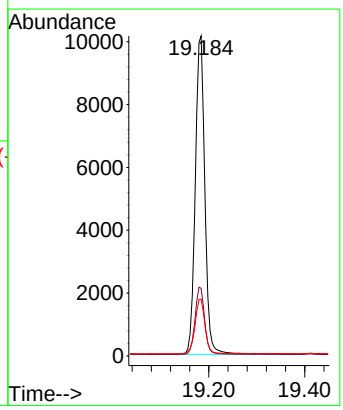


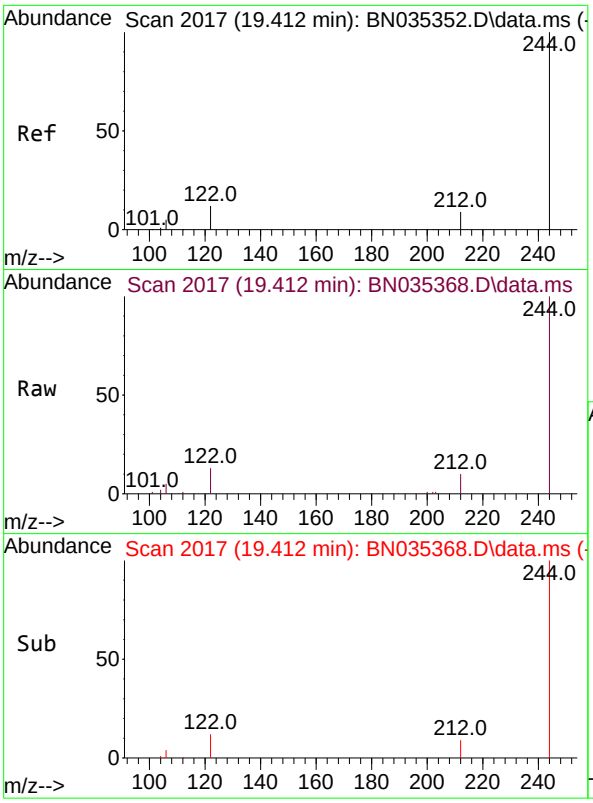


#30
Pyrene
Concen: 0.404 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:202 Resp: 14155

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.7	14.3	21.5



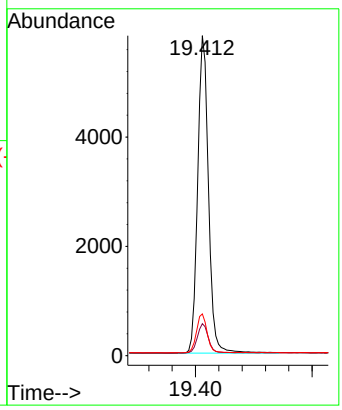


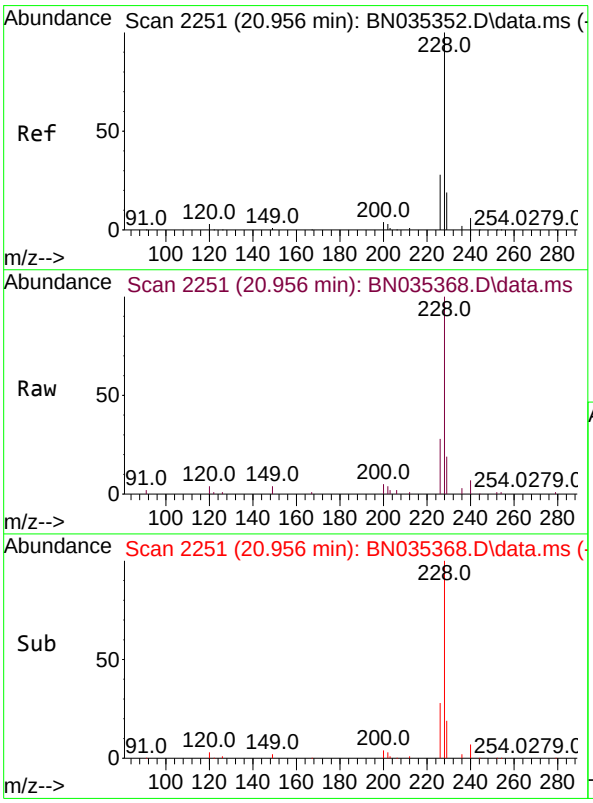
#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 7482

Ion	Ratio	Lower	Upper
244	100		
212	10.0	8.1	12.1
122	13.0	10.3	15.5

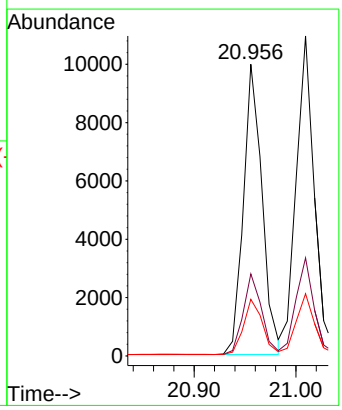


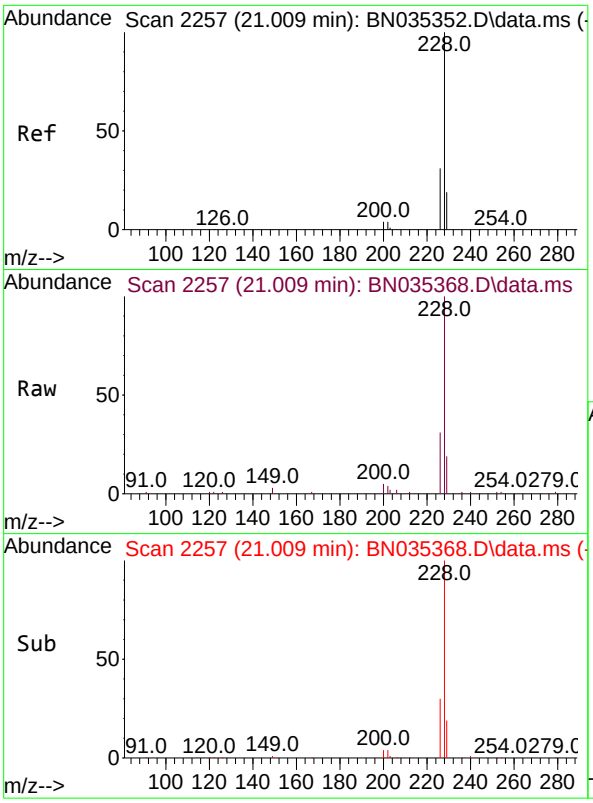


#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:228 Resp: 12659

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.4	15.8	23.8



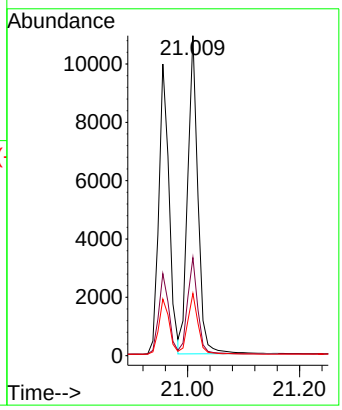


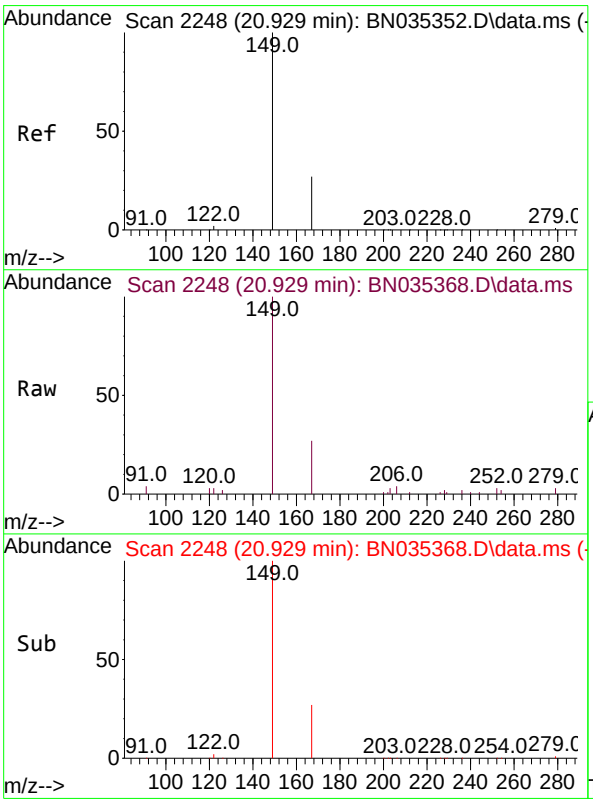
#33
Chrysene
Concen: 0.403 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 13795

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.4	15.9	23.9

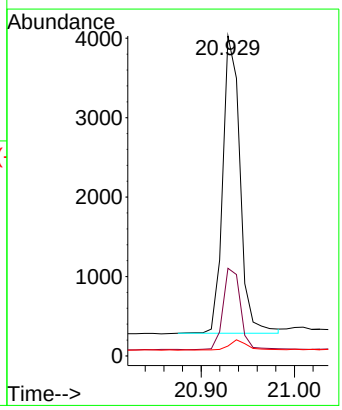


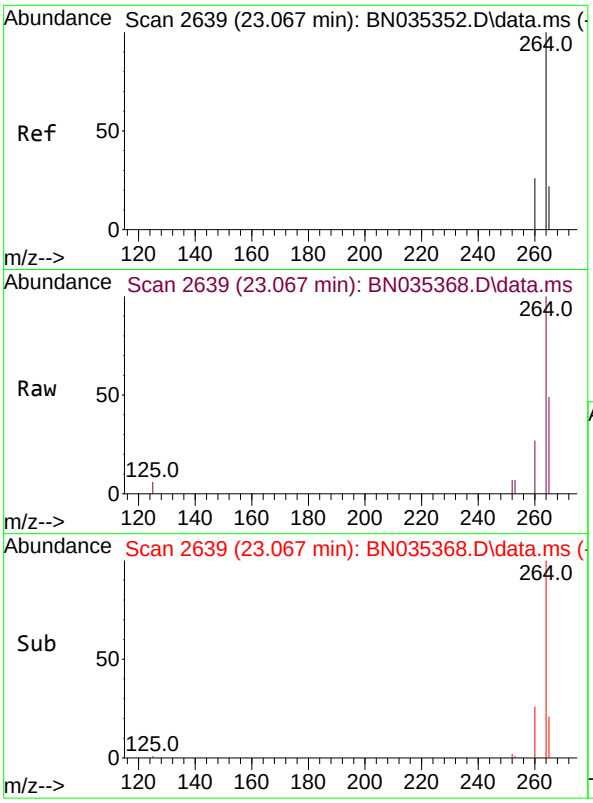


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.365 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:149 Resp: 4791

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.9	2.7	4.1



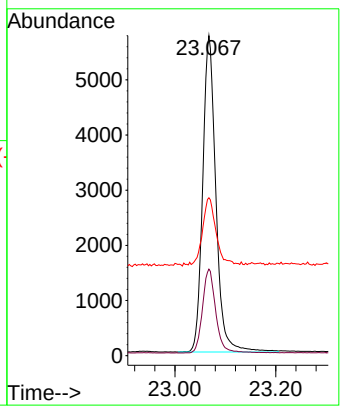


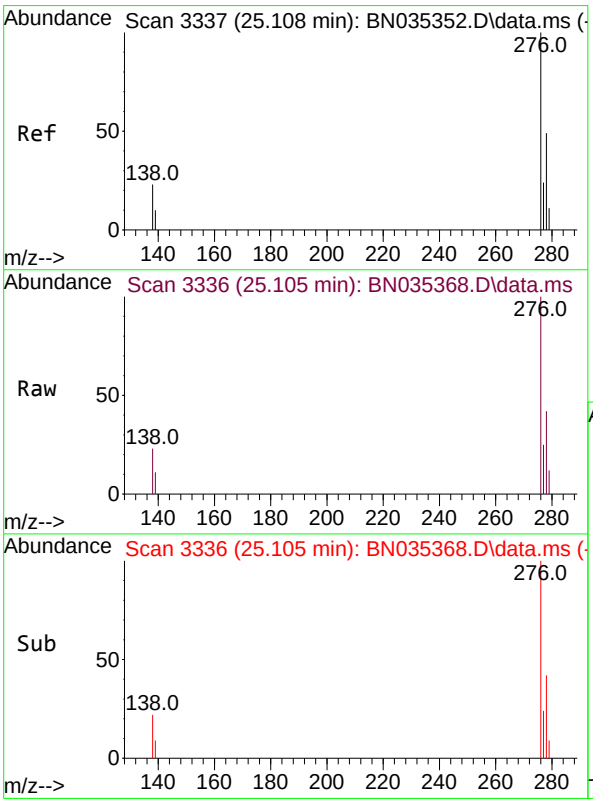
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 10416

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	49.4	40.2	60.4

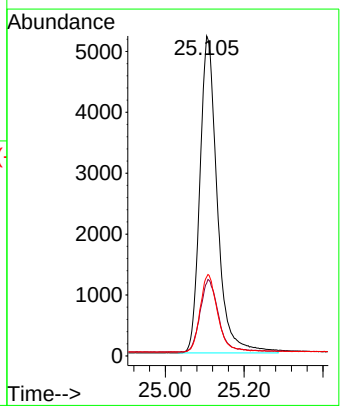


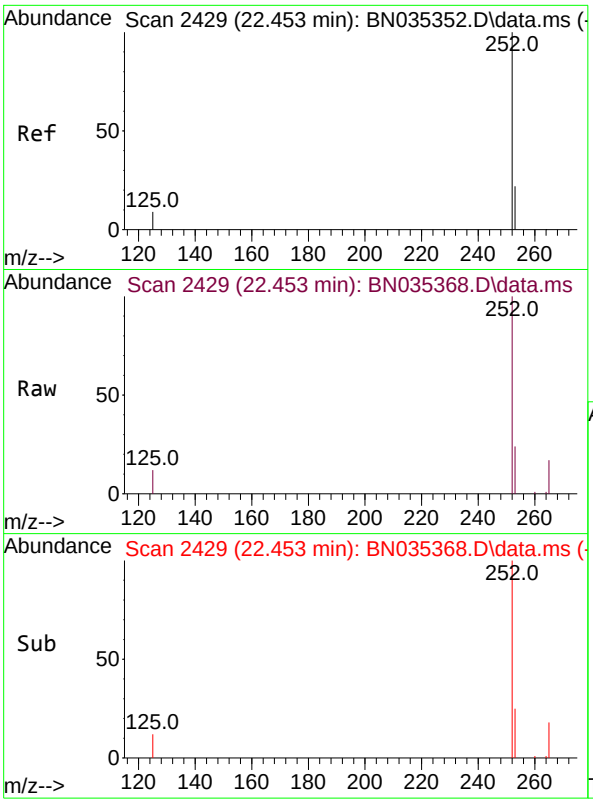


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.392 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:276 Resp: 15947

Ion	Ratio	Lower	Upper
276	100		
138	23.2	19.4	29.0
277	24.5	19.8	29.6



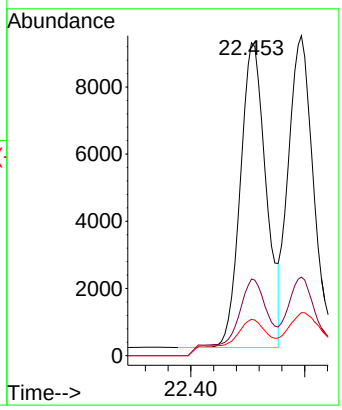


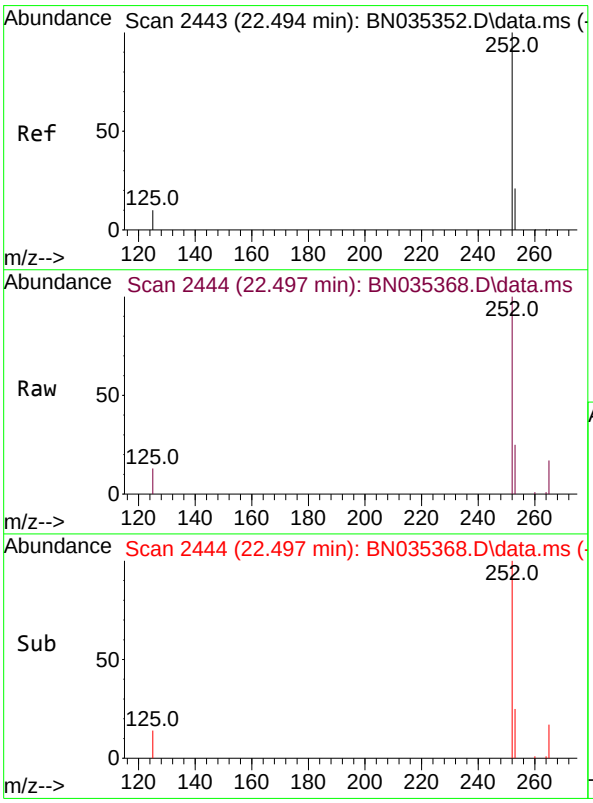
#37
Benzo(b)fluoranthene
Concen: 0.431 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 16437

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	11.7	9.6	14.4

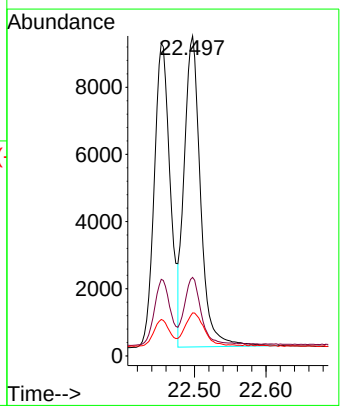


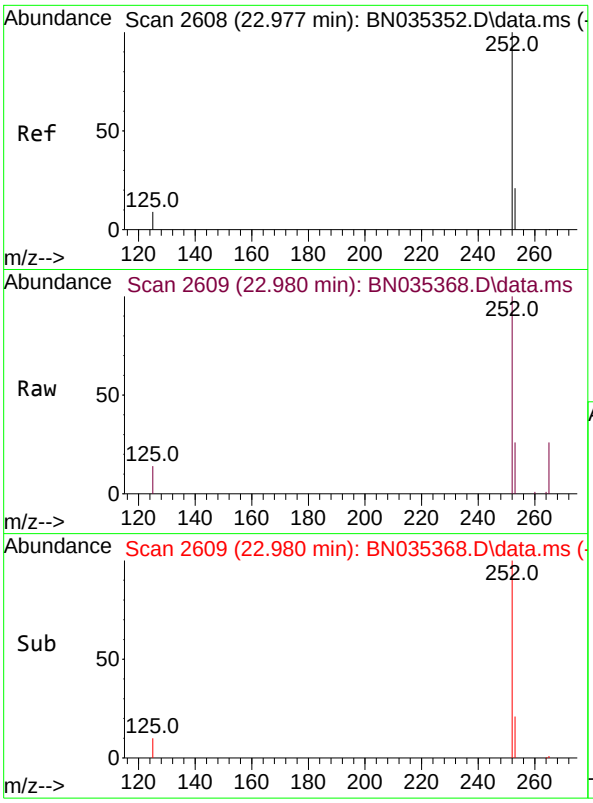


#38
Benzo(k)fluoranthene
Concen: 0.391 ng
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:252 Resp: 14678

Ion	Ratio	Lower	Upper
252	100		
253	24.6	19.5	29.3
125	13.4	10.2	15.4



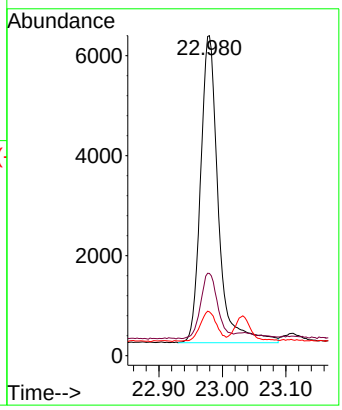


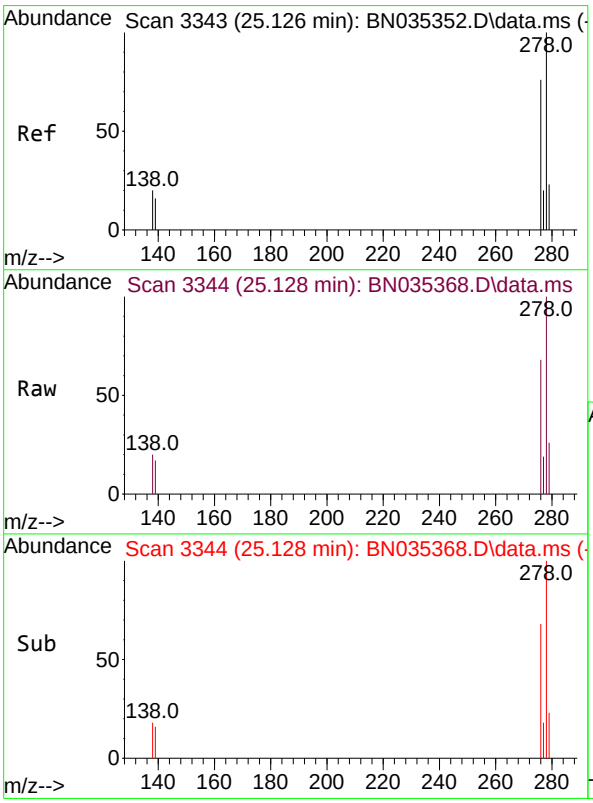
#39
Benzo(a)pyrene
Concen: 0.378 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 11871

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	13.7	10.9	16.3

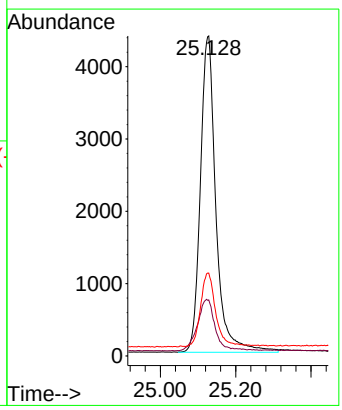


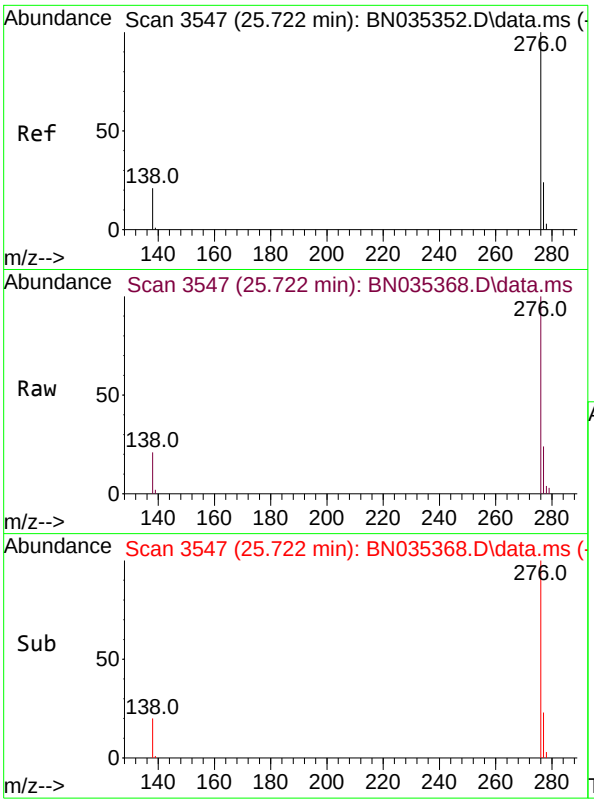


#40
Dibenzo(a,h)anthracene
Concen: 0.390 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Tgt Ion:278 Resp: 12541

Ion	Ratio	Lower	Upper
278	100		
139	17.5	14.2	21.4
279	25.9	20.5	30.7



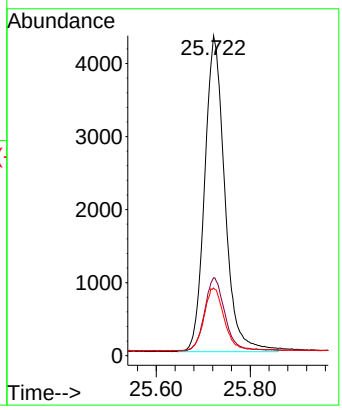


#41
Benzo(g,h,i)perylene
Concen: 0.383 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035368.D
Acq: 28 Nov 2024 04:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 12859

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.9	29.9
138	21.2	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035369.D
Acq On : 28 Nov 2024 05:27
Operator : RC/JU
Sample : PB165198BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165198BL

Quant Time: Nov 28 06:02:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

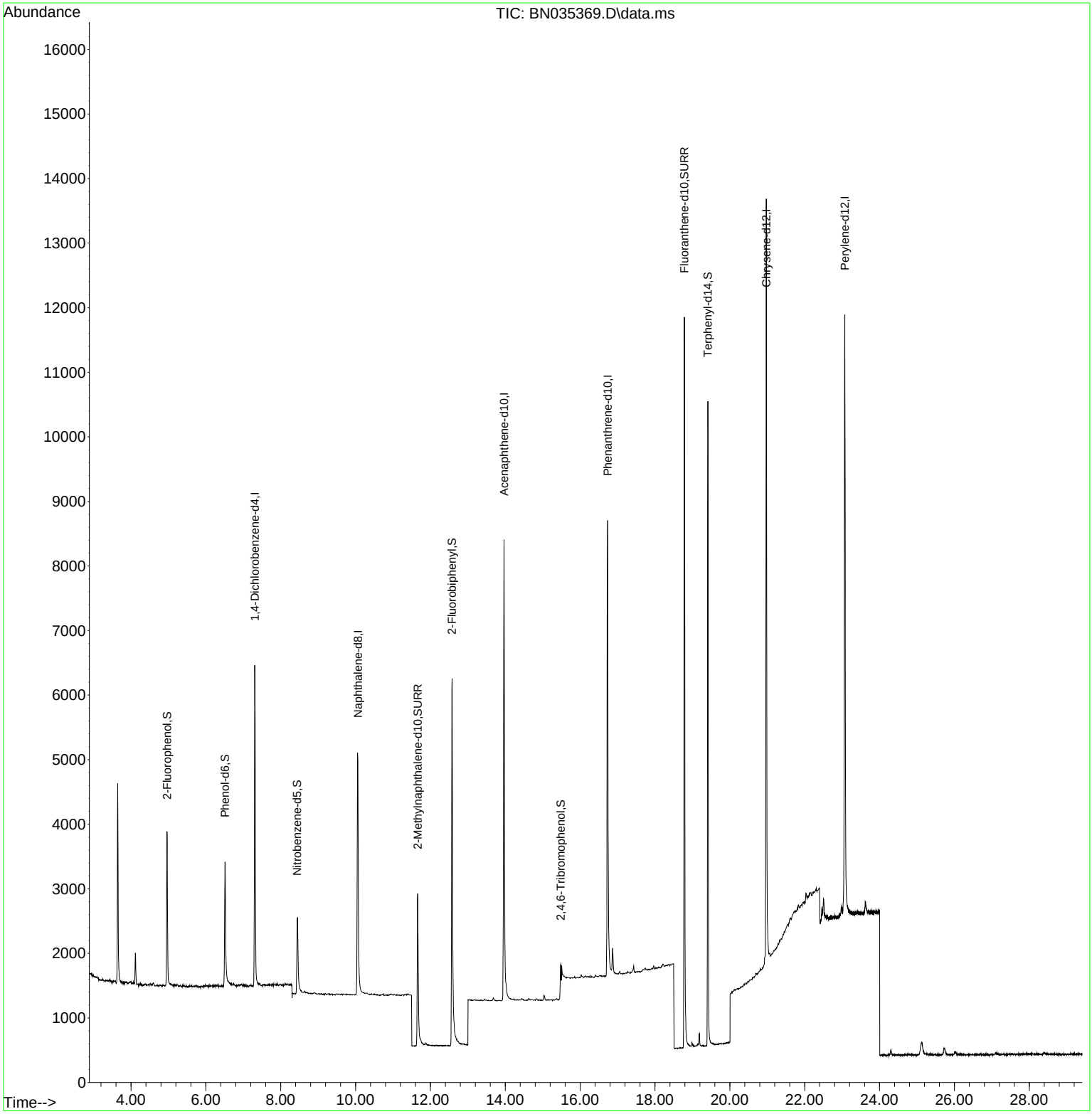
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2540	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	6378	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	4630	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	11721	0.400	ng	0.00
29) Chrysene-d12	20.974	240	10667	0.400	ng	0.00
35) Perylene-d12	23.070	264	11480	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	2145	0.337	ng	0.00
5) Phenol-d6	6.513	99	2450	0.320	ng	0.00
8) Nitrobenzene-d5	8.440	82	1657	0.425	ng	0.00
11) 2-Methylnaphthalene-d10	11.661	152	4167	0.417	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	675	0.205	ng	0.01
15) 2-Fluorobiphenyl	12.579	172	6893	0.394	ng	0.00
27) Fluoranthene-d10	18.784	212	13454	0.405	ng	0.00
31) Terphenyl-d14	19.412	244	10274	0.488	ng	0.00
Target Compounds						Qvalue

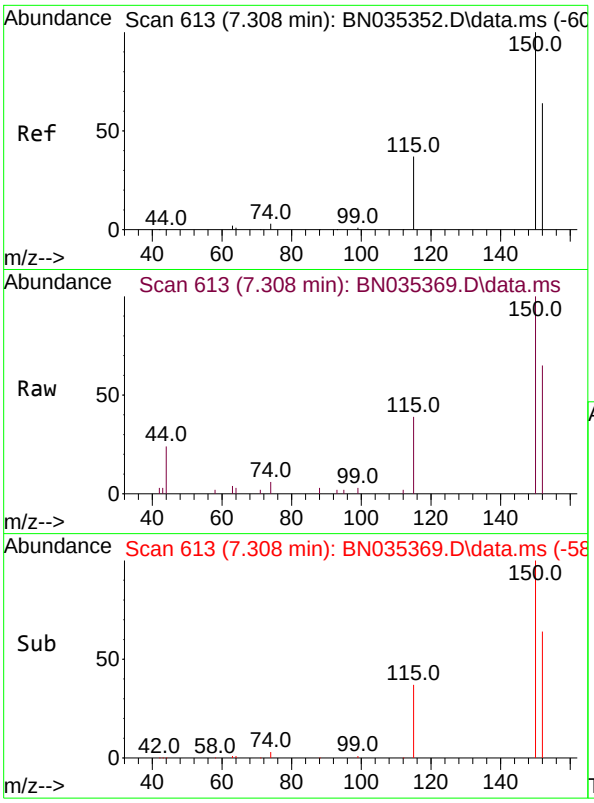
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035369.D
Acq On : 28 Nov 2024 05:27
Operator : RC/JU
Sample : PB165198BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165198BL

Quant Time: Nov 28 06:02:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



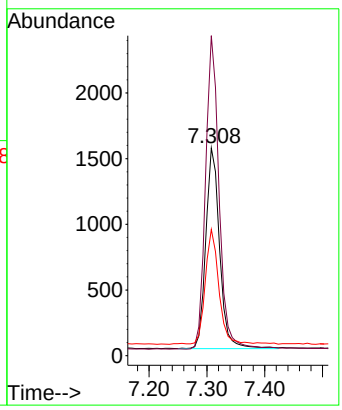


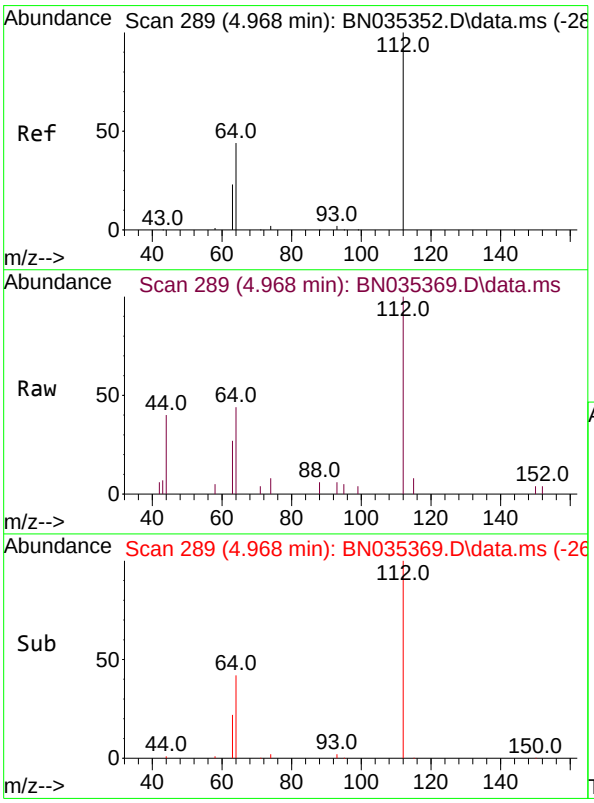
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Instrument :
BNA_N
ClientSampleId :
PB165198BL

Tgt Ion:152 Resp: 2540

Ion	Ratio	Lower	Upper
152	100		
150	154.1	124.0	186.0
115	60.8	49.6	74.4

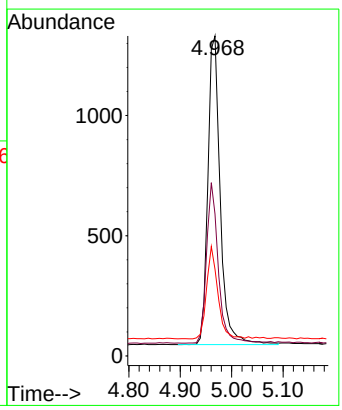


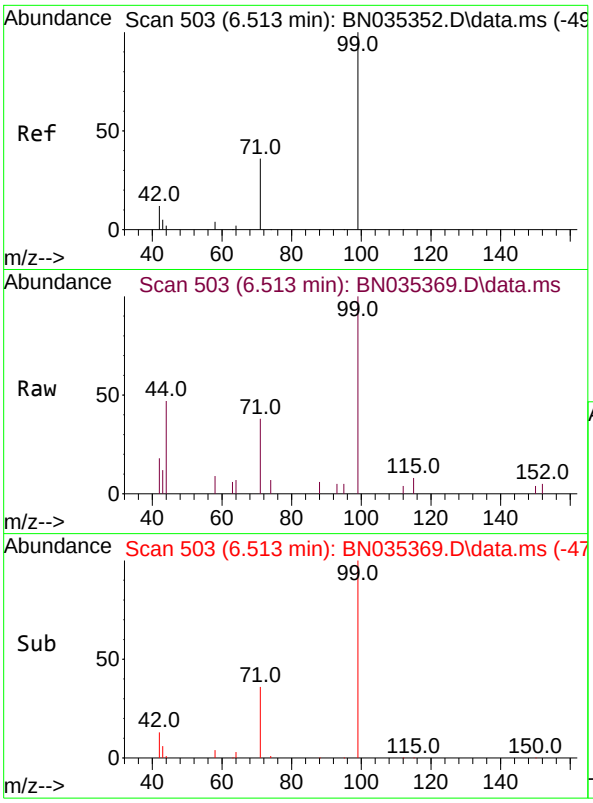


#4
2-Fluorophenol
Concen: 0.337 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:112 Resp: 2145

Ion	Ratio	Lower	Upper
112	100		
64	49.6	39.8	59.8
63	27.3	21.0	31.6



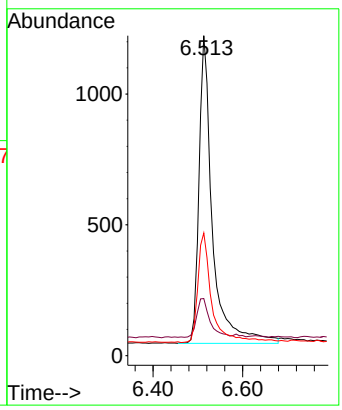


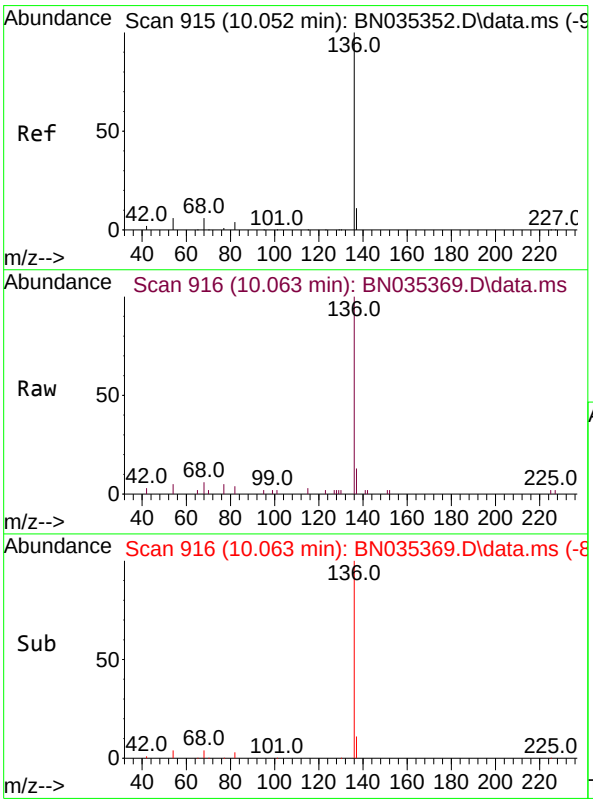
#5
Phenol-d6
Concen: 0.320 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Instrument :
BNA_N
ClientSampleId :
PB165198BL

Tgt Ion: 99 Resp: 2450

Ion	Ratio	Lower	Upper
99	100		
42	12.3	11.4	17.2
71	37.2	29.3	43.9

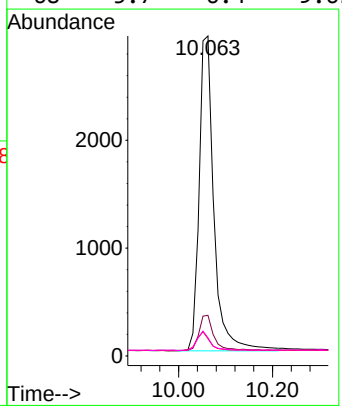


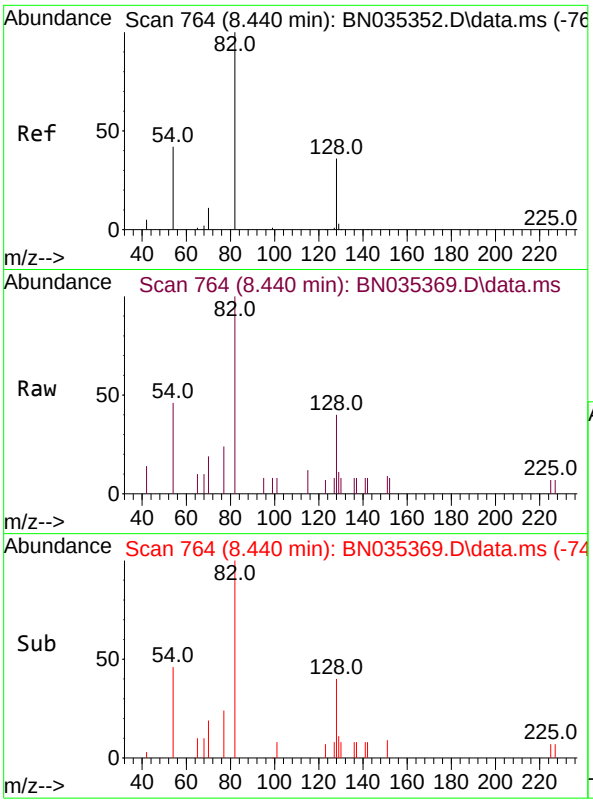


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. 0.011 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:136 Resp: 6378

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	5.4	6.1	9.1#
68	5.7	6.4	9.6#



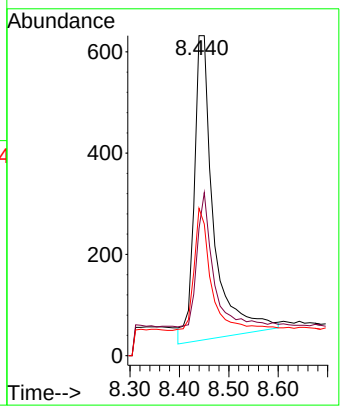


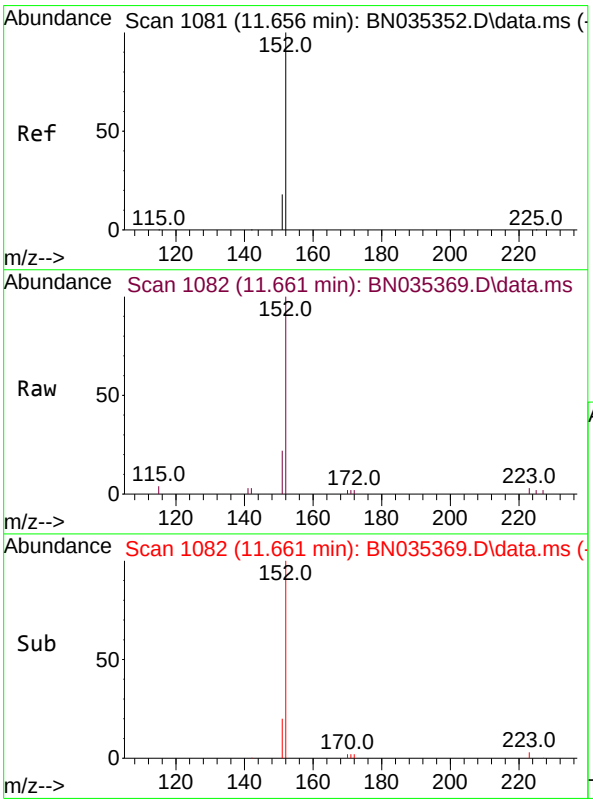
#8
Nitrobenzene-d5
Concen: 0.425 ng
RT: 8.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Instrument :
BNA_N
ClientSampleId :
PB165198BL

Tgt Ion: 82 Resp: 1657

Ion	Ratio	Lower	Upper
82	100		
128	39.7	33.4	50.0
54	46.0	36.7	55.1

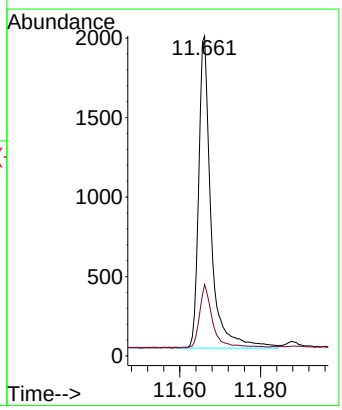


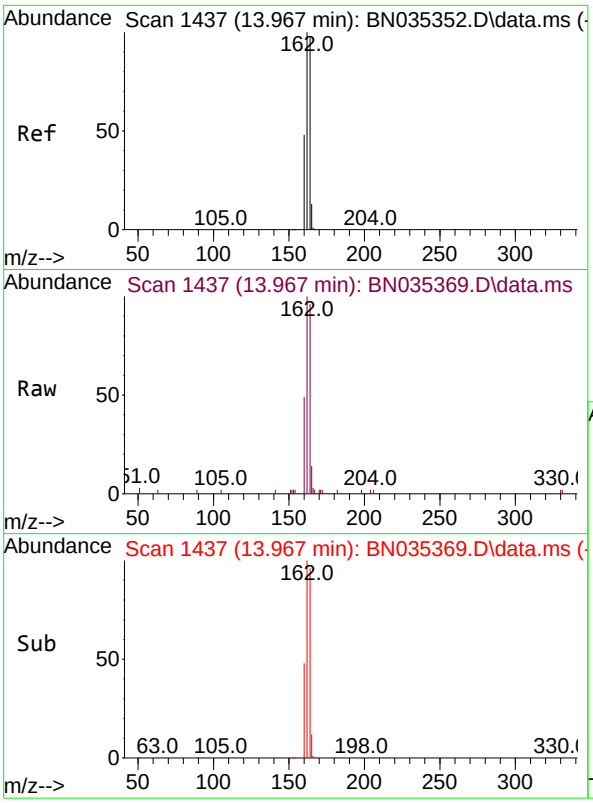


#11
2-Methylnaphthalene-d10
Concen: 0.417 ng
RT: 11.661 min Scan# 1082
Delta R.T. 0.005 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:152 Resp: 4167

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.6	25.0



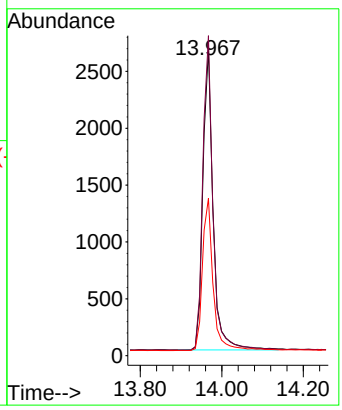


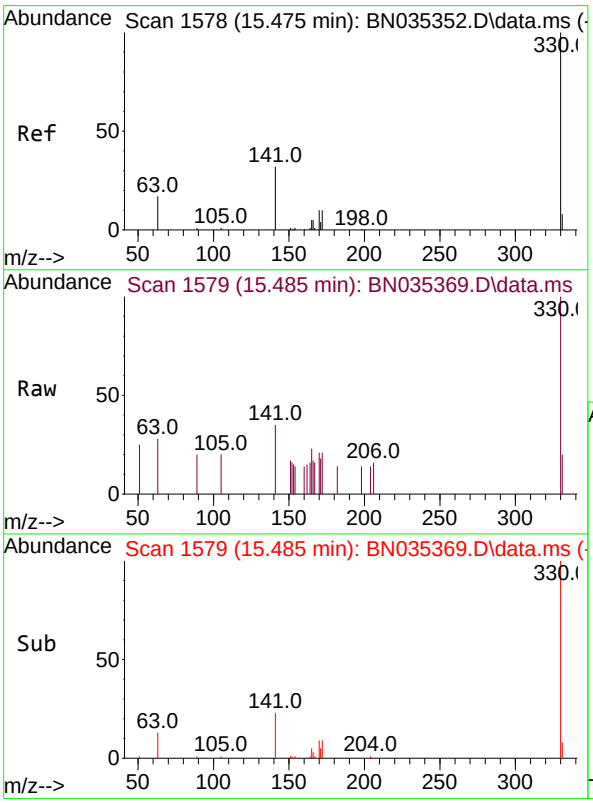
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Instrument :
BNA_N
ClientSampleId :
PB165198BL

Tgt Ion:164 Resp: 4630

Ion	Ratio	Lower	Upper
164	100		
162	104.4	82.2	123.2
160	51.4	40.1	60.1

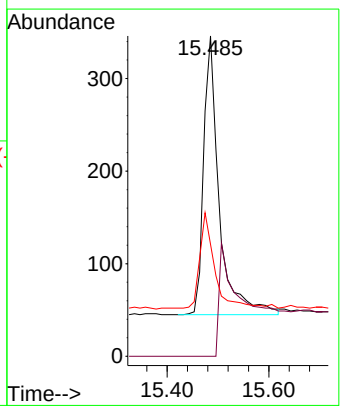


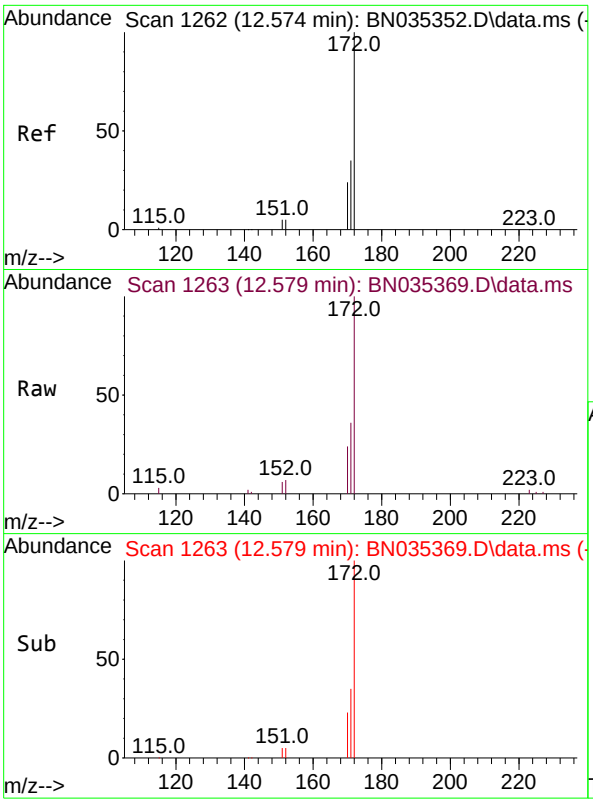


#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.485 min Scan# 1579
Delta R.T. 0.011 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:330 Resp: 675

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.8	26.6	40.0



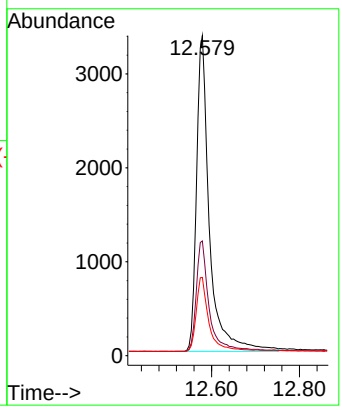


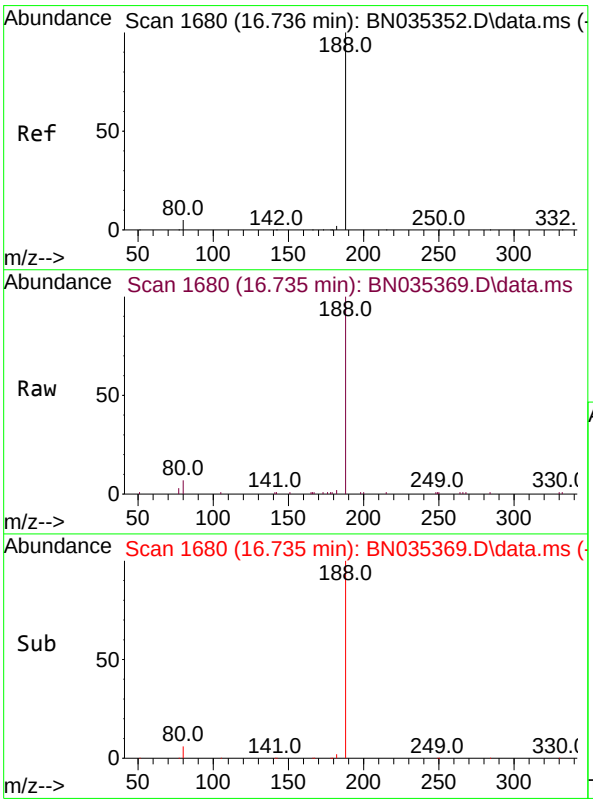
#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.579 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Instrument :
BNA_N
ClientSampleId :
PB165198BL

Tgt Ion:172 Resp: 6893

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.4
170	24.5	19.8	29.8

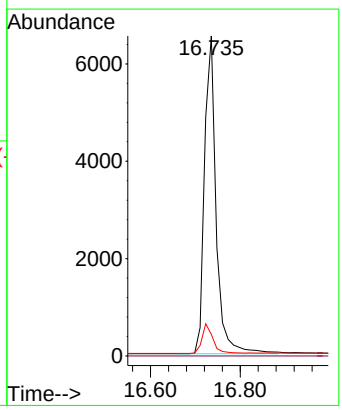


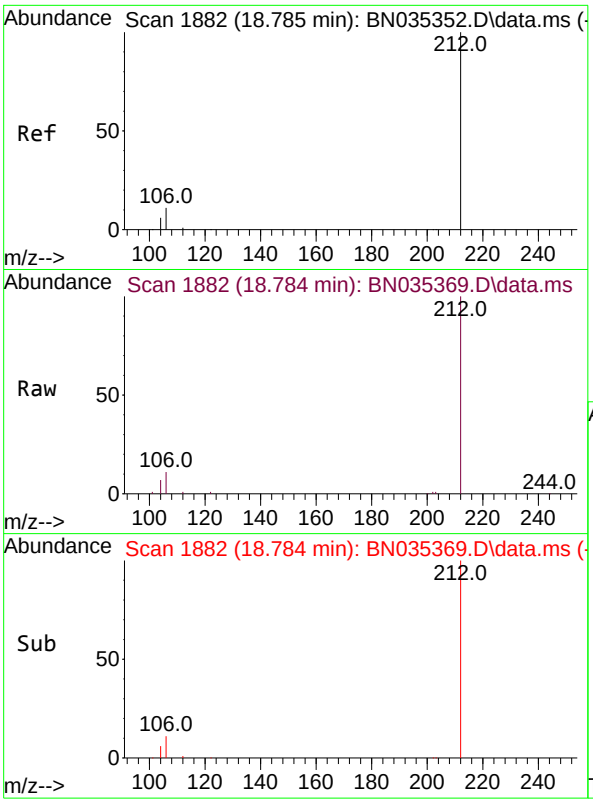


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:188 Resp: 11721

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.8	4.6	6.8



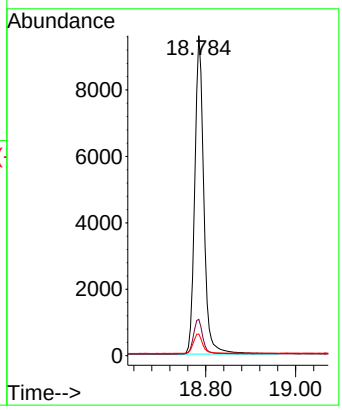


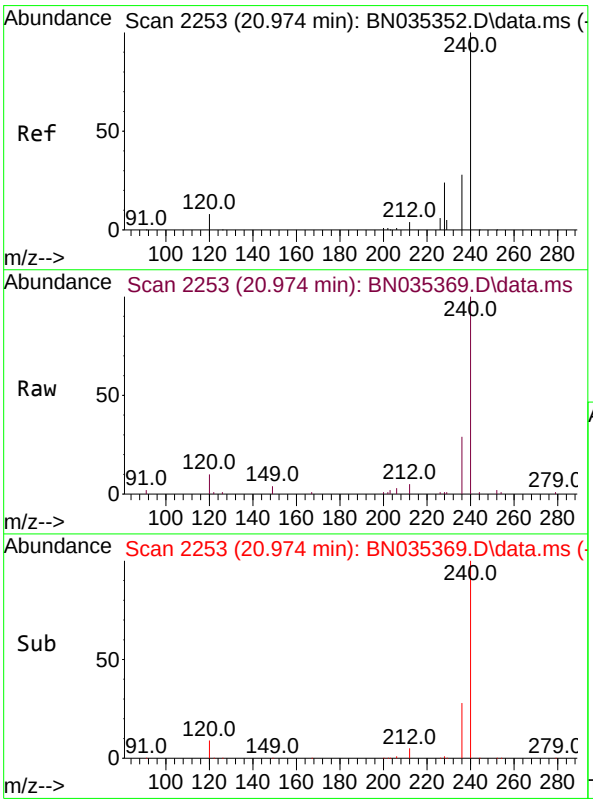
#27
Fluoranthene-d10
Concen: 0.405 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Instrument :
BNA_N
ClientSampleId :
PB165198BL

Tgt Ion:212 Resp: 13454

Ion	Ratio	Lower	Upper
212	100		
106	10.9	9.2	13.8
104	6.2	5.3	7.9

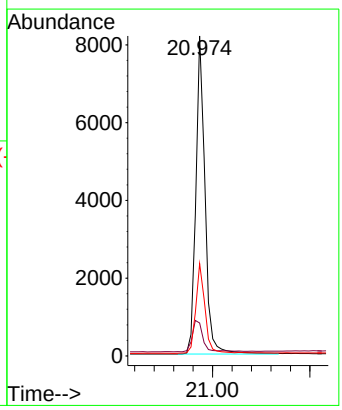


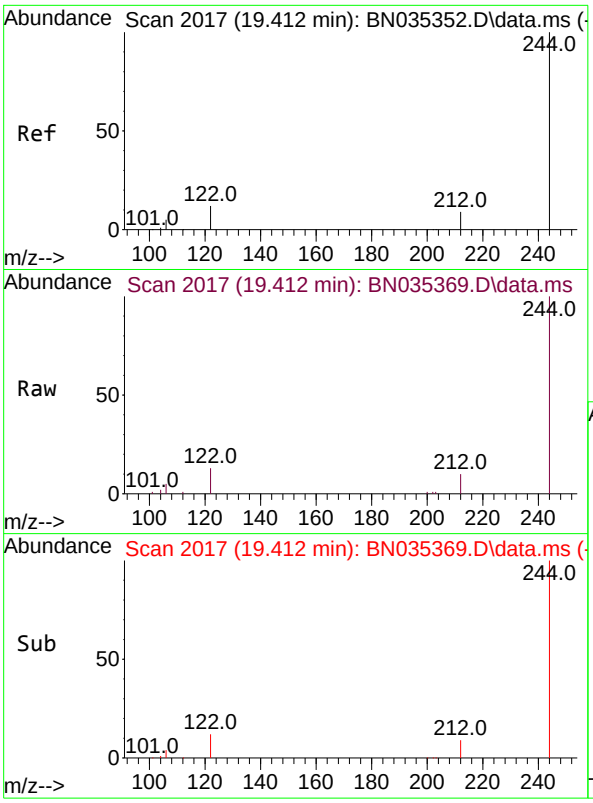


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:240 Resp: 10667

Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.9	11.9
236	28.8	22.9	34.3



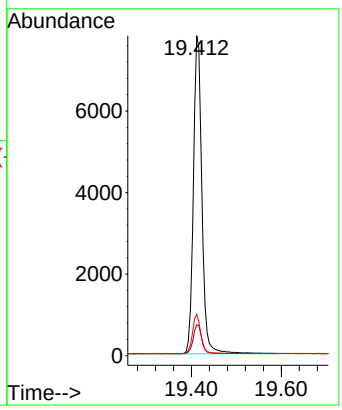


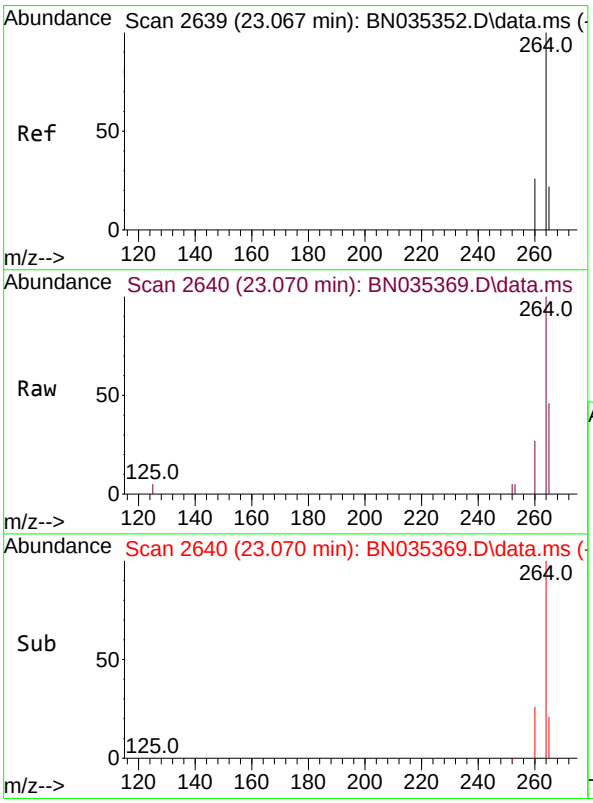
#31
Terphenyl-d14
Concen: 0.488 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Instrument :
BNA_N
ClientSampleId :
PB165198BL

Tgt Ion:244 Resp: 10274

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	12.8	10.3	15.5

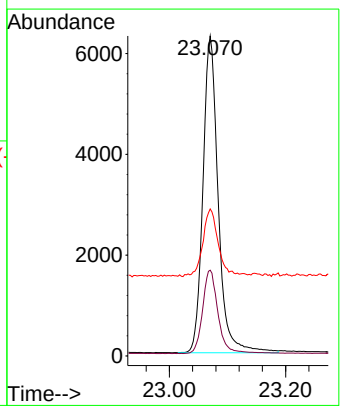




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2640
Delta R.T. 0.003 min
Lab File: BN035369.D
Acq: 28 Nov 2024 05:27

Tgt Ion:264 Resp: 11480

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	46.0	40.2	60.4



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035370.D
Acq On : 28 Nov 2024 06:03
Operator : RC/JU
Sample : PB165198BS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Quant Time: Nov 28 06:28:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2262	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5496	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3686	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	9203	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	8666	0.400	ng	0.00
35) Perylene-d12	23.067	264	8924	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	2290	0.405	ng	0.00
5) Phenol-d6	6.513	99	2626	0.386	ng	0.00
8) Nitrobenzene-d5	8.440	82	1716	0.511	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	4975	0.578	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	735	0.281	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	6624	0.475	ng	0.00
27) Fluoranthene-d10	18.785	212	11970	0.459	ng	0.00
31) Terphenyl-d14	19.412	244	8912	0.521	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	876	0.405	ng	# 74
3) n-Nitrosodimethylamine	3.292	42	799	0.444	ng	# 91
6) bis(2-Chloroethyl)ether	6.759	93	2447	0.428	ng	100
9) Naphthalene	10.105	128	6241	0.431	ng	100
10) Hexachlorobutadiene	10.404	225	1469	0.439	ng	# 99
12) 2-Methylnaphthalene	11.732	142	4378	0.422	ng	98
16) Acenaphthylene	13.679	152	7040	0.455	ng	99
17) Acenaphthene	14.021	154	4456	0.434	ng	100
18) Fluorene	15.026	166	6228	0.423	ng	100
20) 4,6-Dinitro-2-methylph...	15.122	198	411	0.454	ng	91
21) 4-Bromophenyl-phenylether	15.941	248	2303	0.428	ng	97
22) Hexachlorobenzene	16.041	284	2710	0.429	ng	99
23) Atrazine	16.227	200	1548	0.404	ng	98
24) Pentachlorophenol	16.388	266	950	0.345	ng	87
25) Phenanthrene	16.773	178	11082	0.438	ng	100
26) Anthracene	16.860	178	10144	0.444	ng	100
28) Fluoranthene	18.813	202	13705	0.402	ng	100
30) Pyrene	19.180	202	14204	0.444	ng	100
32) Benzo(a)anthracene	20.956	228	13138	0.433	ng	100
33) Chrysene	21.010	228	14112	0.451	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.410	ng	100
36) Indeno(1,2,3-cd)pyrene	25.108	276	15213	0.436	ng	99
37) Benzo(b)fluoranthene	22.453	252	16020	0.491	ng	99
38) Benzo(k)fluoranthene	22.494	252	14448	0.450	ng	99
39) Benzo(a)pyrene	22.977	252	12434	0.462	ng	99
40) Dibenzo(a,h)anthracene	25.123	278	11913	0.433	ng	99
41) Benzo(g,h,i)perylene	25.719	276	11556	0.402	ng	100

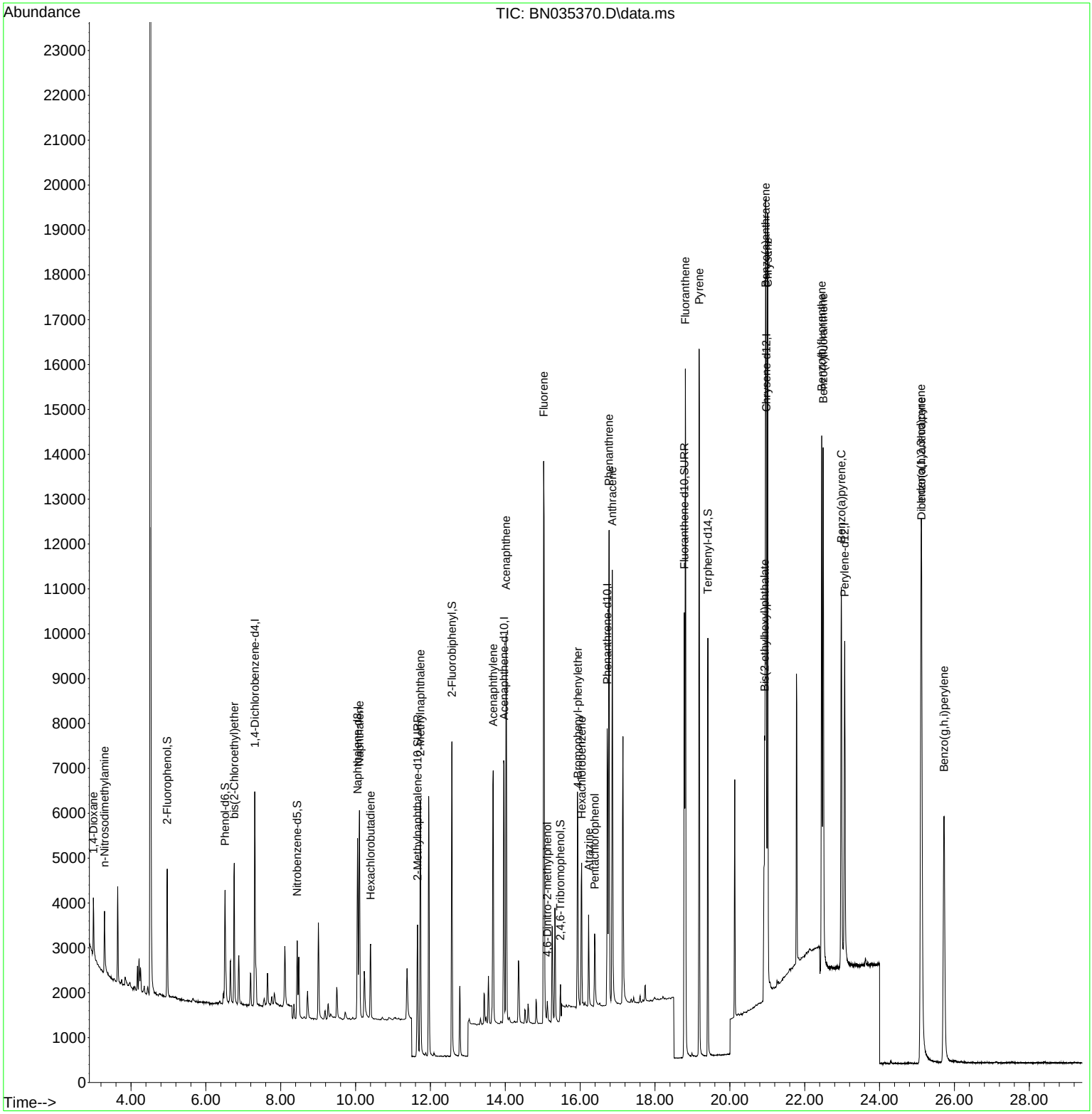
(#) = qualifier out of range (m) = manual integration (+) = signals summed

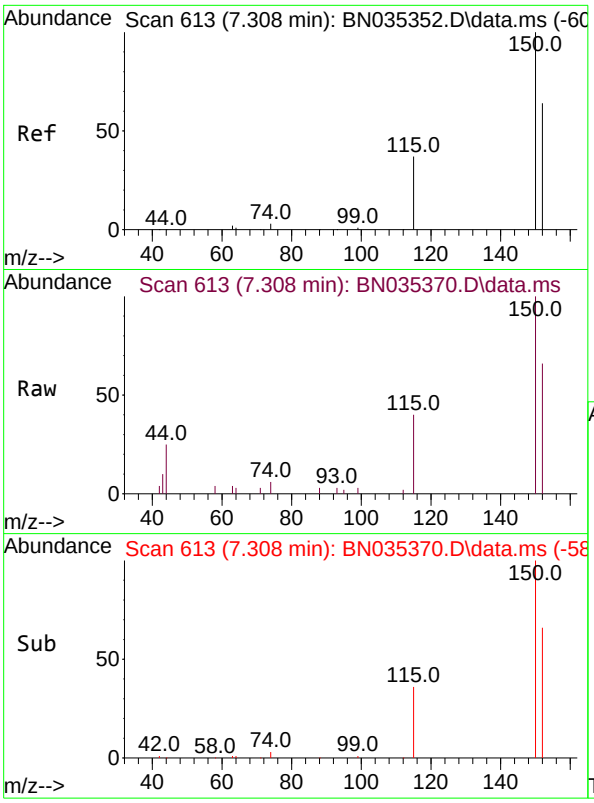
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035370.D
Acq On : 28 Nov 2024 06:03
Operator : RC/JU
Sample : PB165198BS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Quant Time: Nov 28 06:28:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



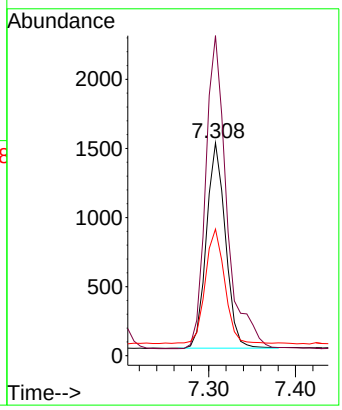


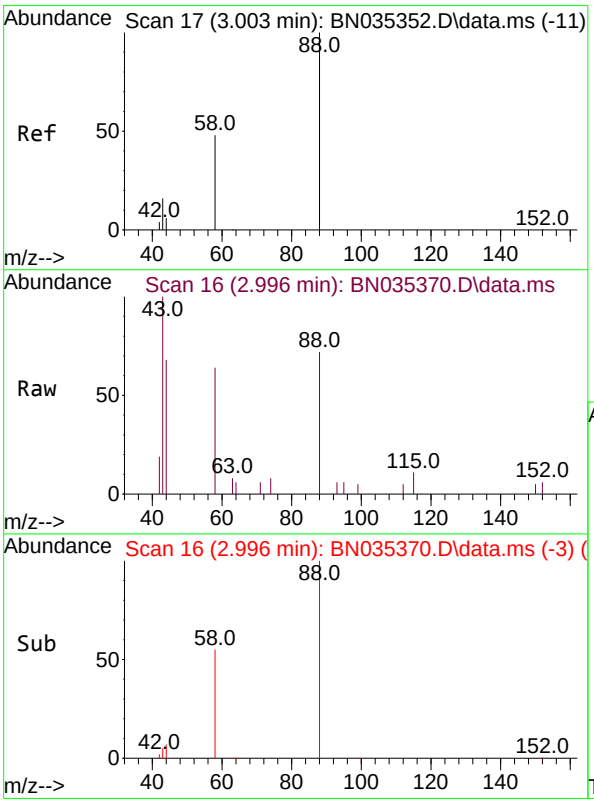
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:152 Resp: 2262

Ion	Ratio	Lower	Upper
152	100		
150	150.4	124.0	186.0
115	59.5	49.6	74.4

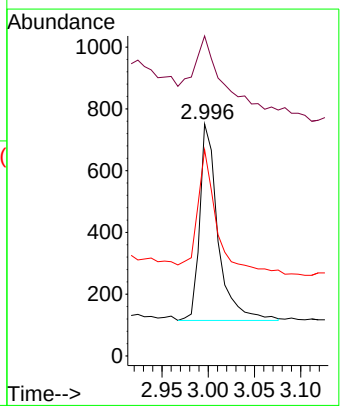


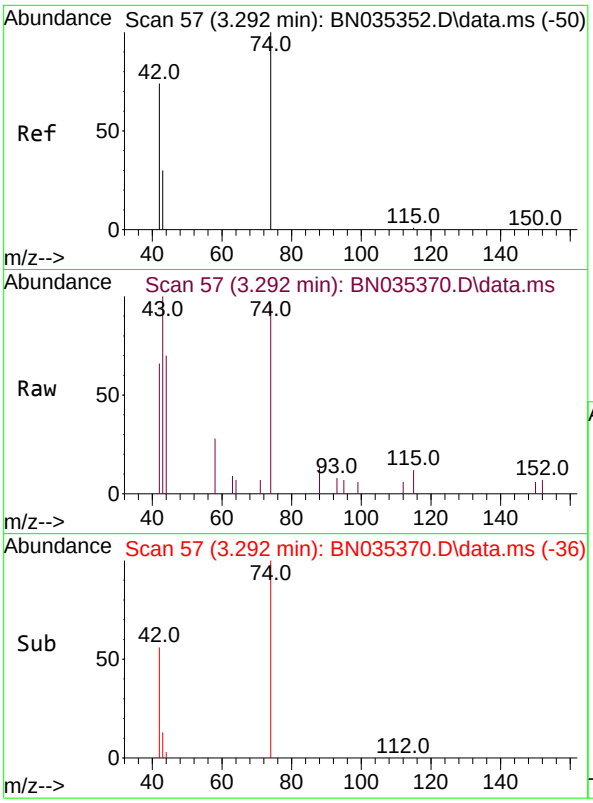


#2
1,4-Dioxane
Concen: 0.405 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion: 88 Resp: 876

Ion	Ratio	Lower	Upper
88	100		
43	58.3	17.2	25.8#
58	59.7	44.5	66.7



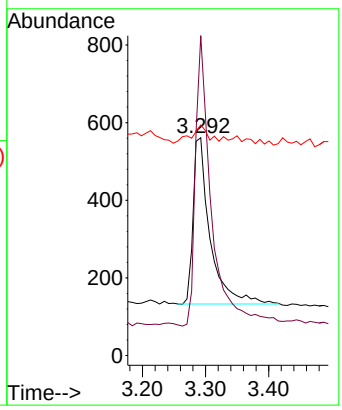


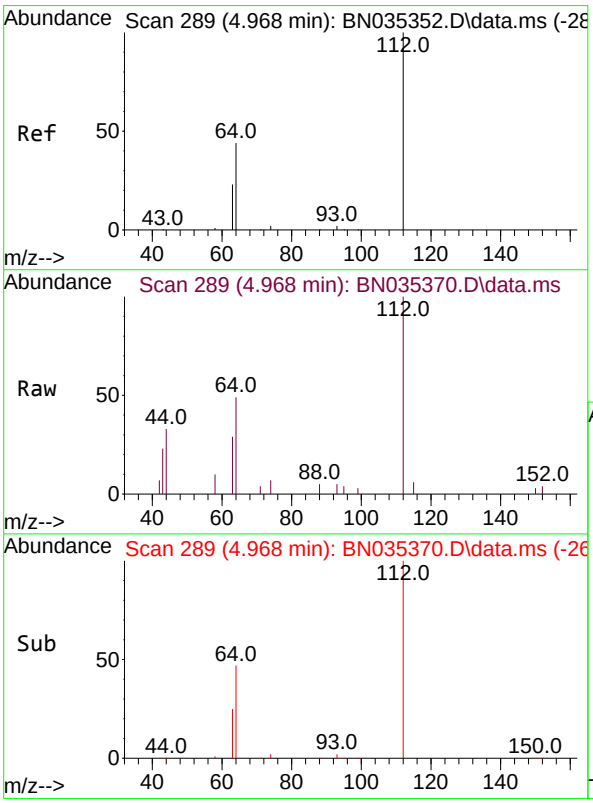
#3
n-Nitrosodimethylamine
Concen: 0.444 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion: 42 Resp: 799

Ion	Ratio	Lower	Upper
42	100		
74	167.0	124.9	187.3
44	10.6	2.2	3.4#

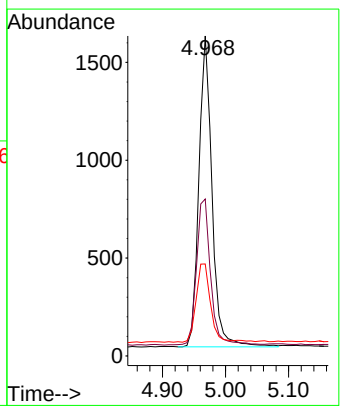


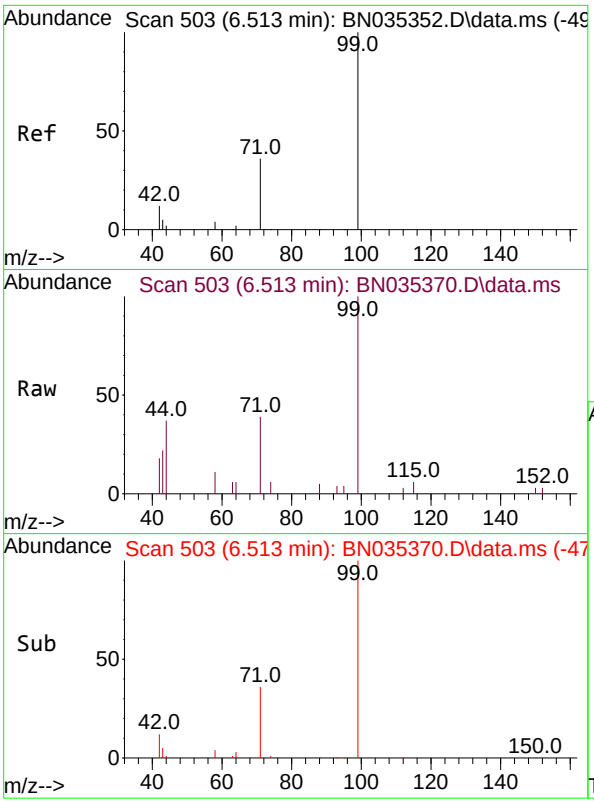


#4
2-Fluorophenol
Concen: 0.405 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:112 Resp: 2290

Ion	Ratio	Lower	Upper
112	100		
64	50.4	39.8	59.8
63	28.0	21.0	31.6



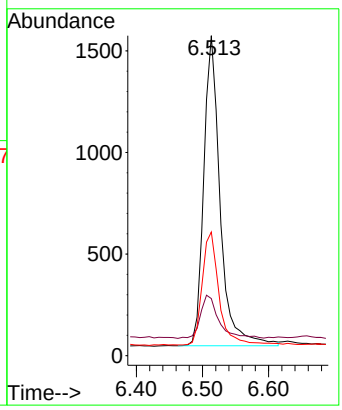


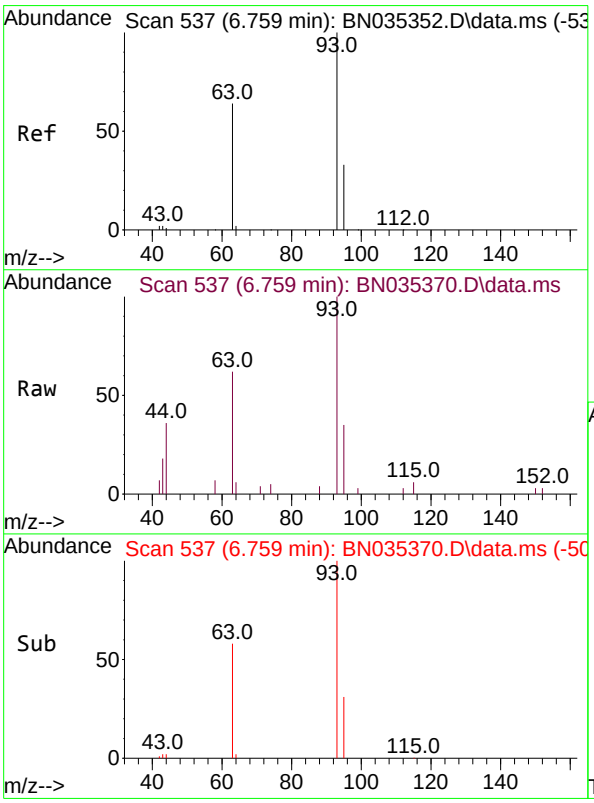
#5
Phenol-d6
Concen: 0.386 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion: 99 Resp: 2626

Ion	Ratio	Lower	Upper
99	100		
42	15.6	11.4	17.2
71	37.5	29.3	43.9

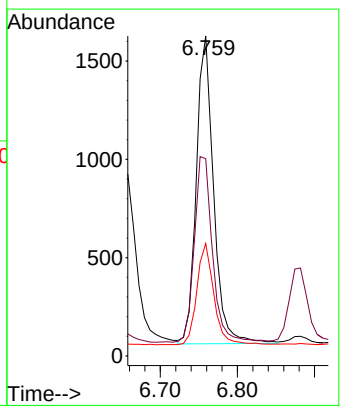


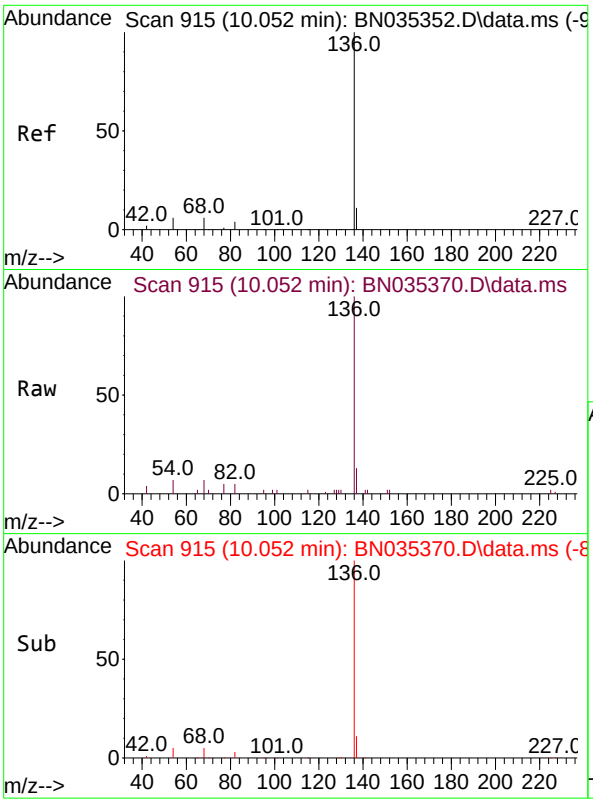


#6
bis(2-Chloroethyl)ether
Concen: 0.428 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion: 93 Resp: 2447

Ion	Ratio	Lower	Upper
93	100		
63	63.1	50.4	75.6
95	32.0	25.7	38.5



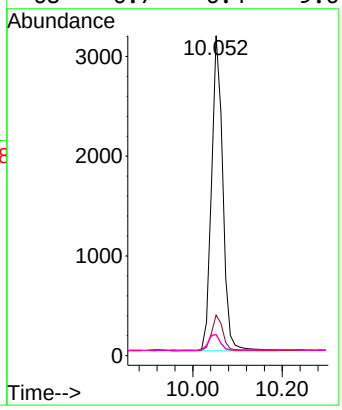


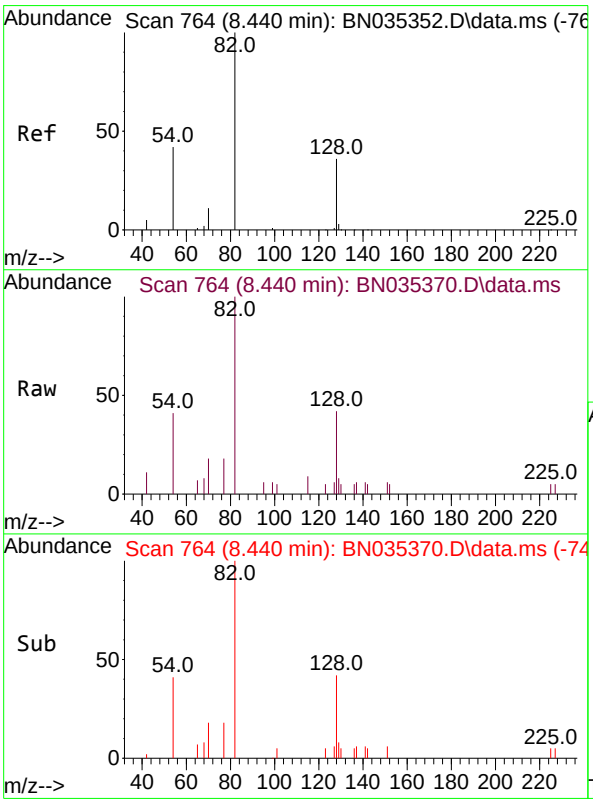
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:136 Resp: 5496

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	6.6	6.1	9.1
68	6.7	6.4	9.6

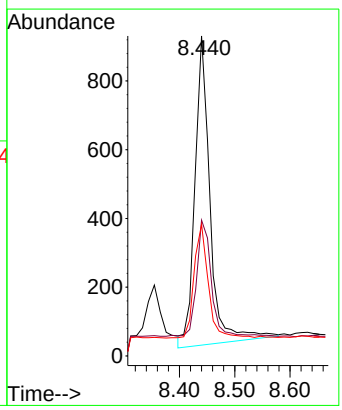


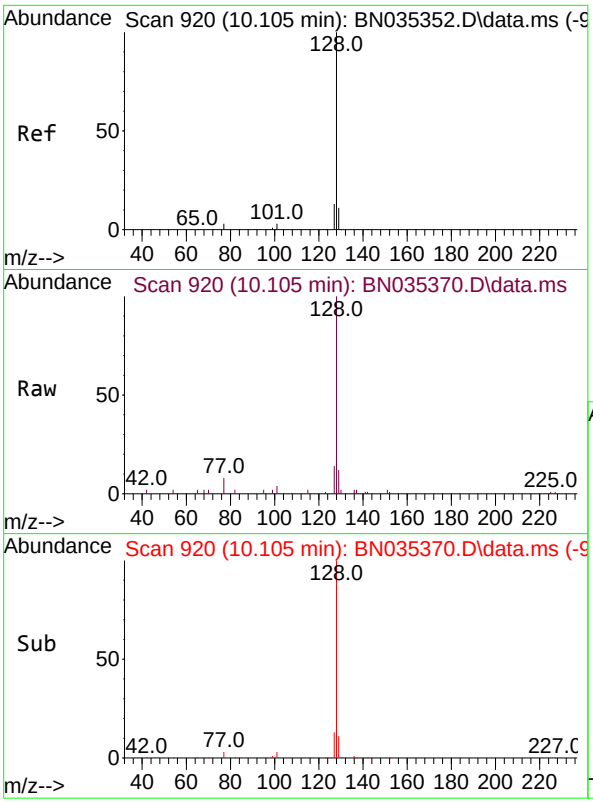


#8
Nitrobenzene-d5
Concen: 0.511 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion: 82 Resp: 1716

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	41.1	36.7	55.1



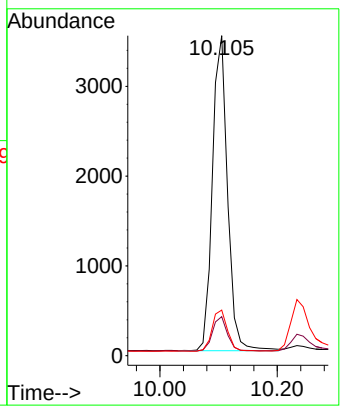


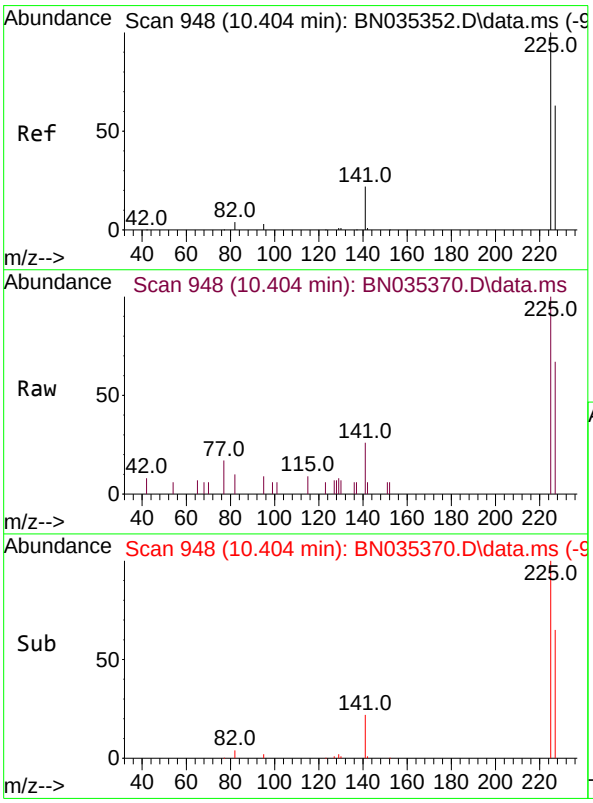
#9
Naphthalene
Concen: 0.431 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:128 Resp: 6241

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.2	11.4	17.2

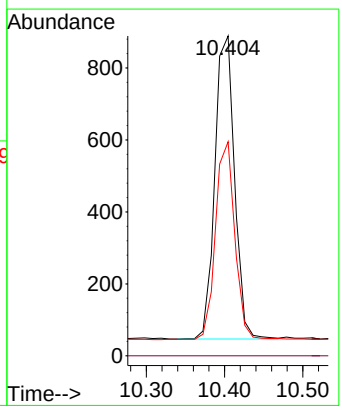


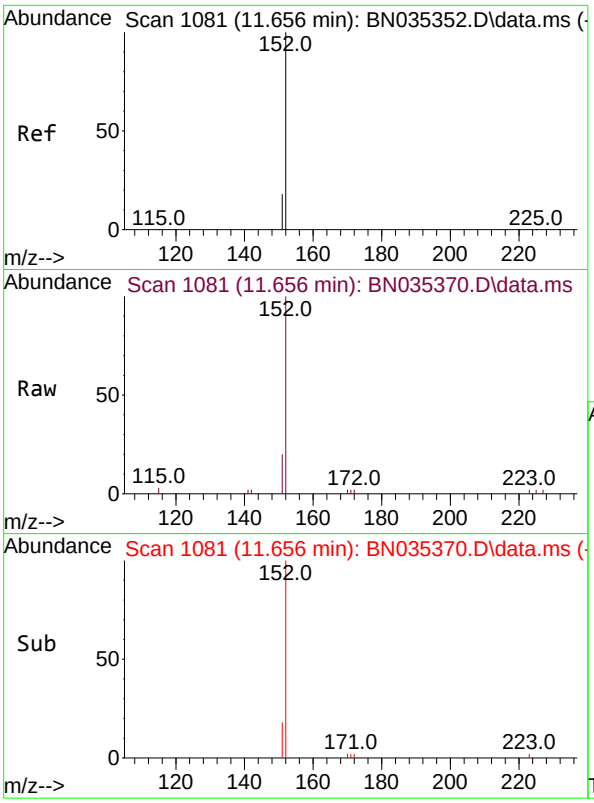


#10
Hexachlorobutadiene
Concen: 0.439 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:225 Resp: 1469

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9



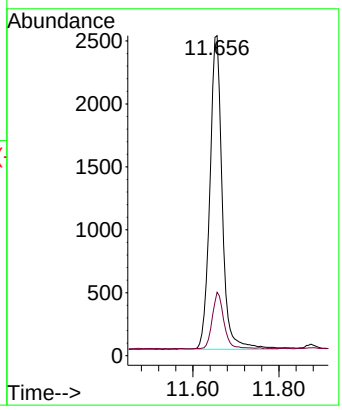


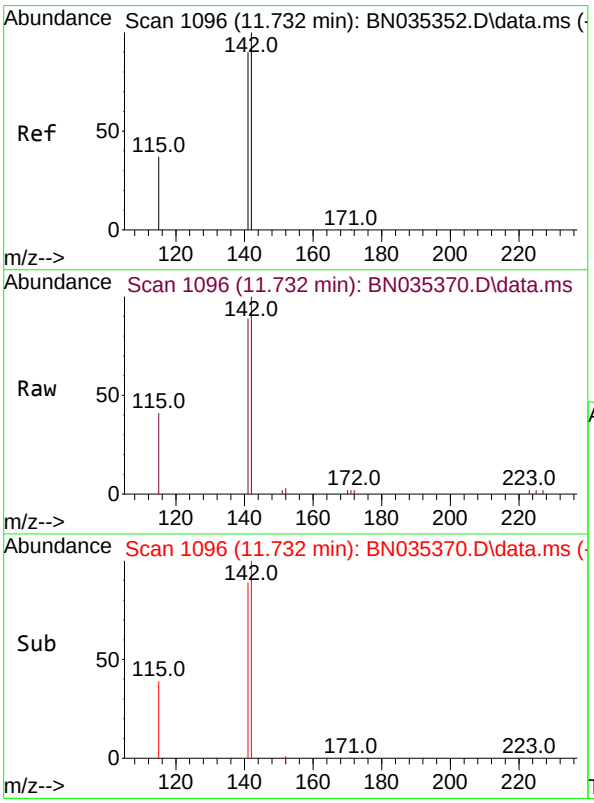
#11
2-Methylnaphthalene-d10
Concen: 0.578 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:152 Resp: 4975

Ion	Ratio	Lower	Upper
152	100		
151	16.9	16.6	25.0

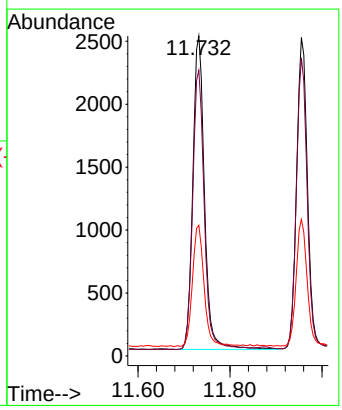


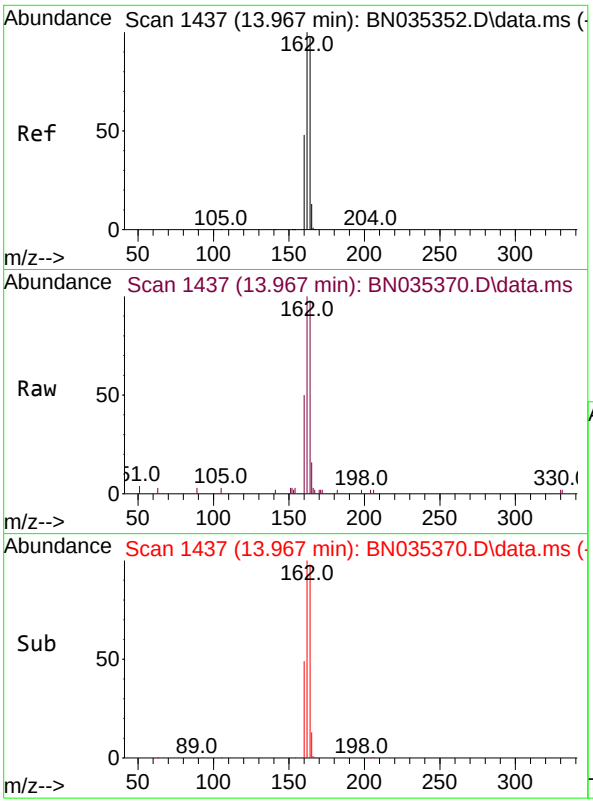


#12
2-Methylnaphthalene
Concen: 0.422 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:142 Resp: 4378

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	40.8	31.4	47.0



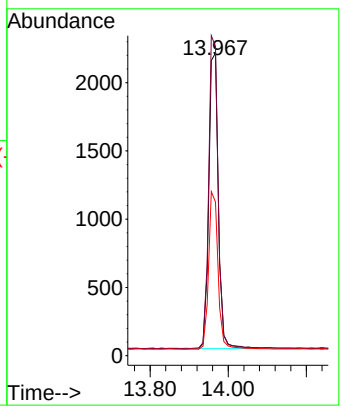


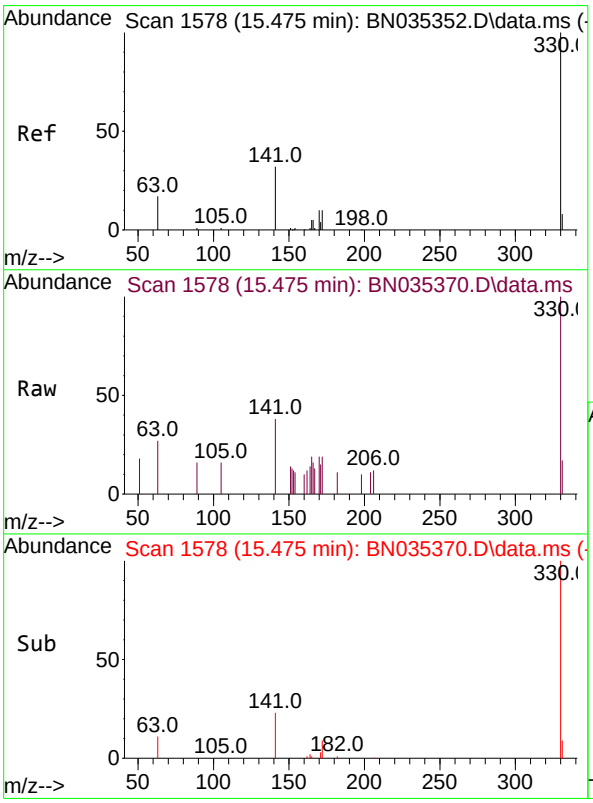
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:164 Resp: 3686

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	50.8	40.1	60.1

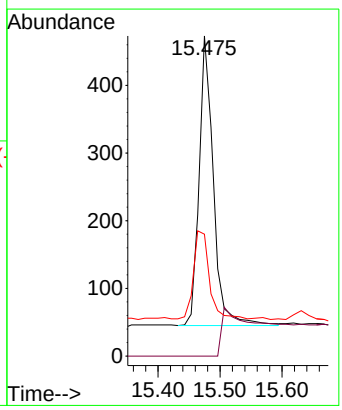


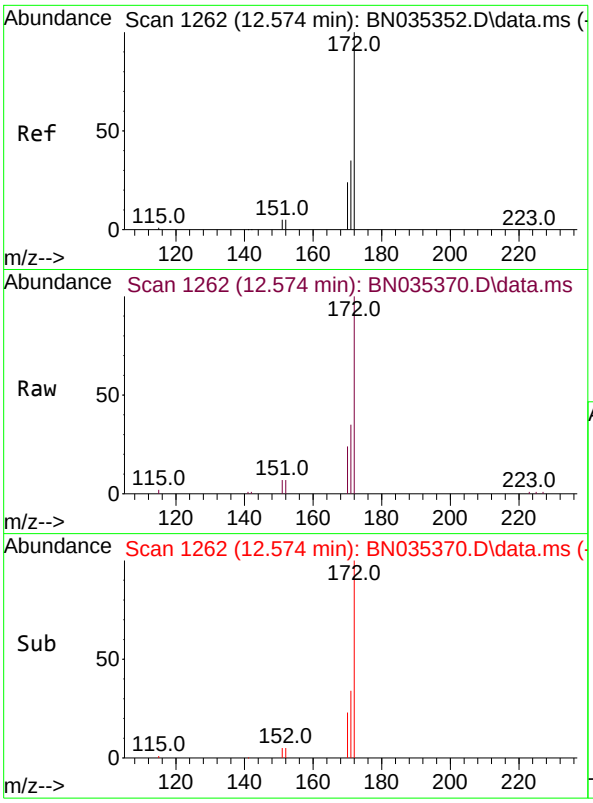


#14
2,4,6-Tribromophenol
Concen: 0.281 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:330 Resp: 735

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.6	26.6	40.0



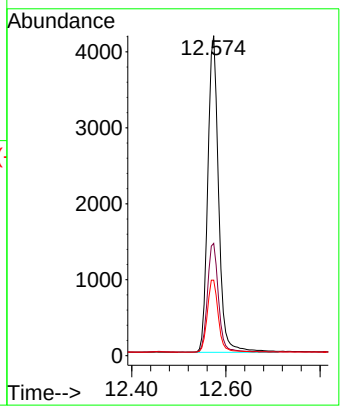


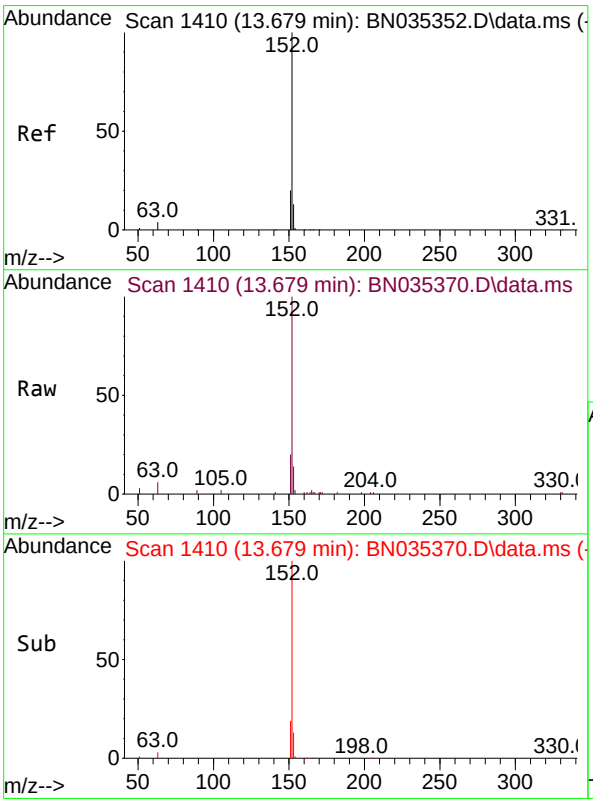
#15
2-Fluorobiphenyl
Concen: 0.475 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:172 Resp: 6624

Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.0	43.4
170	23.6	19.8	29.8

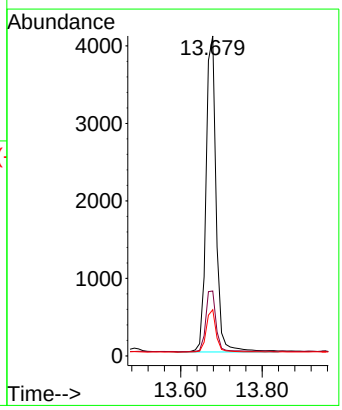


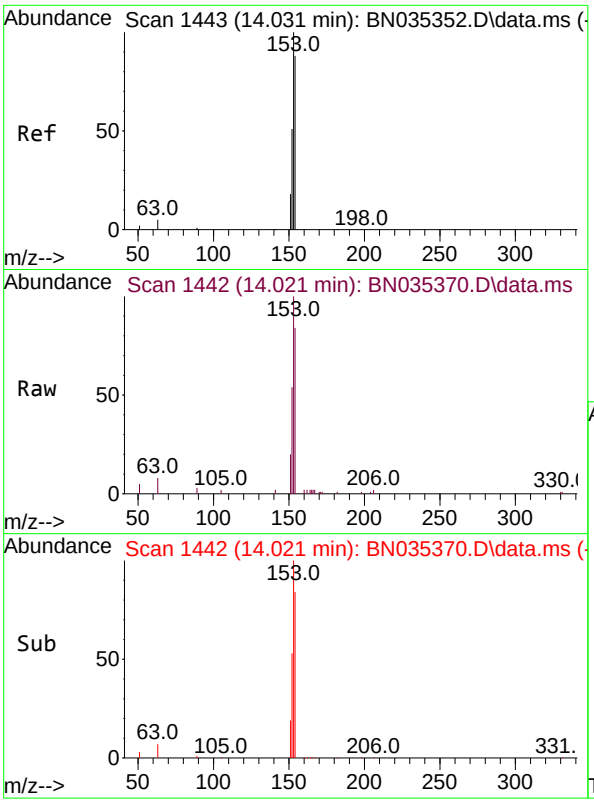


#16
Acenaphthylene
Concen: 0.455 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:152 Resp: 7040

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	13.2	10.4	15.6



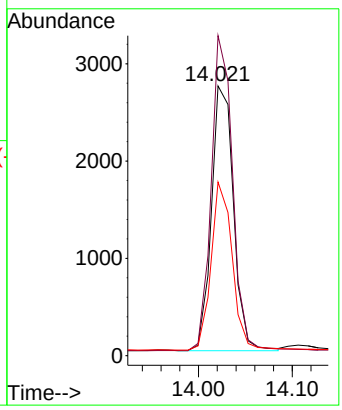


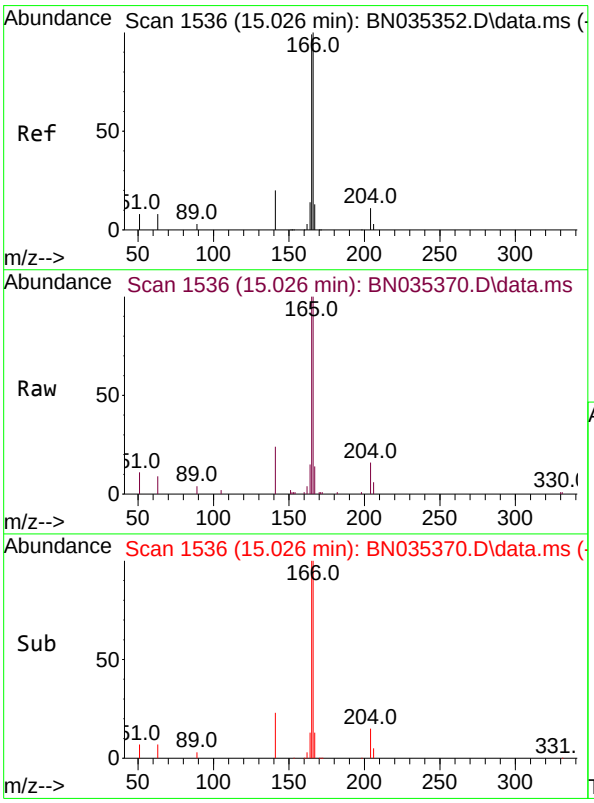
#17
Acenaphthene
Concen: 0.434 ng
RT: 14.021 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:154 Resp: 4456

Ion	Ratio	Lower	Upper
154	100		
153	115.6	92.6	139.0
152	61.5	49.0	73.6

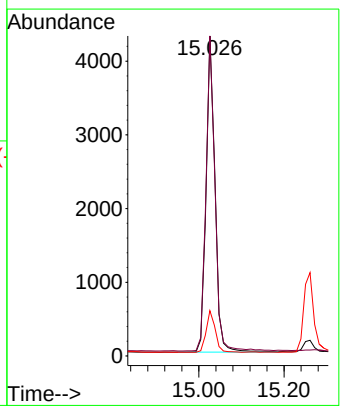


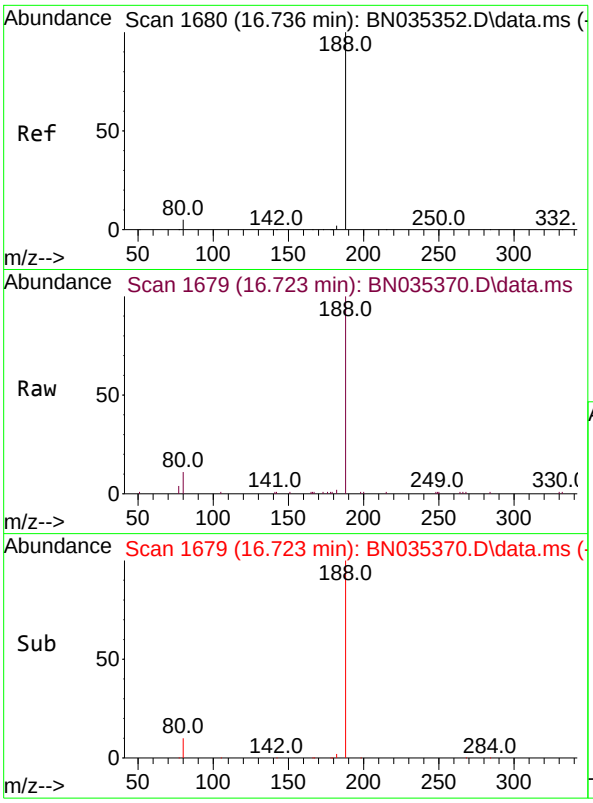


#18
Fluorene
Concen: 0.423 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:166 Resp: 6228

Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.7	119.5
167	13.3	10.8	16.2



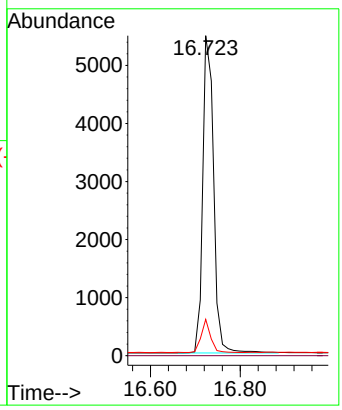


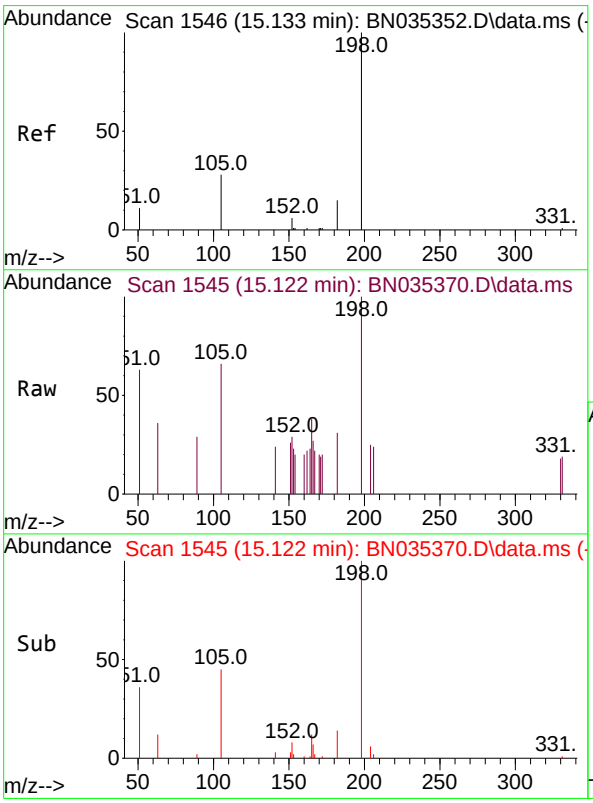
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:188 Resp: 9203

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	4.6	6.8#

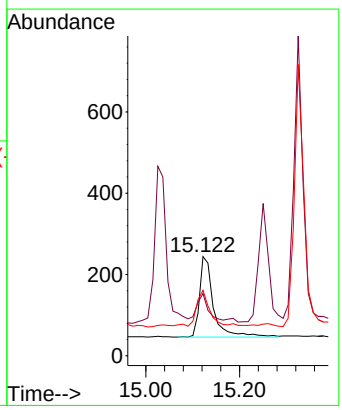


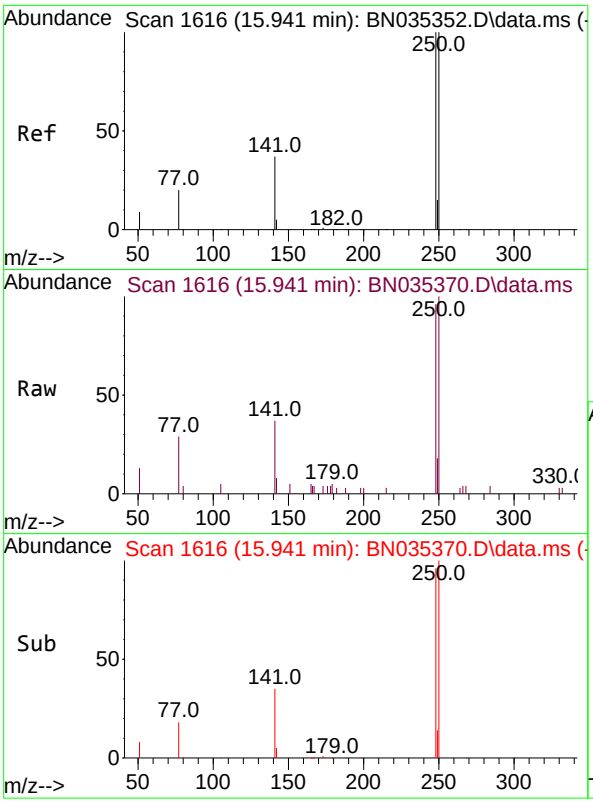


#20
4,6-Dinitro-2-methylphenol
Concen: 0.454 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:198 Resp: 411

Ion	Ratio	Lower	Upper
198	100		
51	62.7	46.5	69.7
105	66.0	45.3	67.9



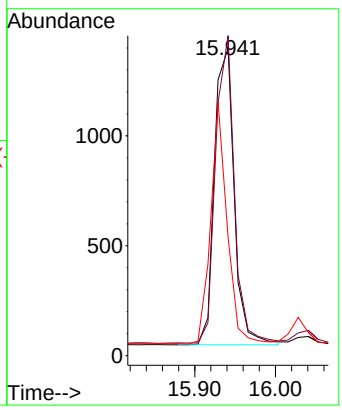


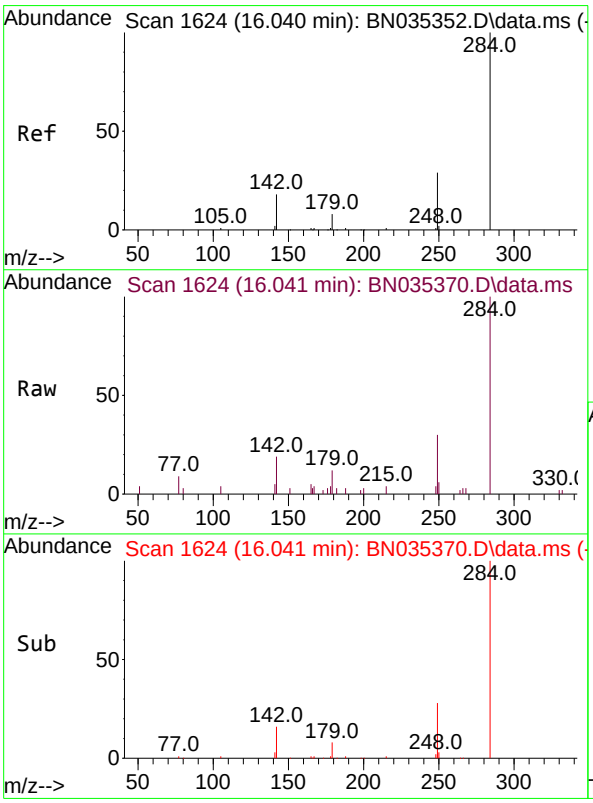
#21
4-Bromophenyl-phenylether
Concen: 0.428 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:248 Resp: 2303

Ion	Ratio	Lower	Upper
248	100		
250	104.1	80.6	120.8
141	38.3	31.5	47.3

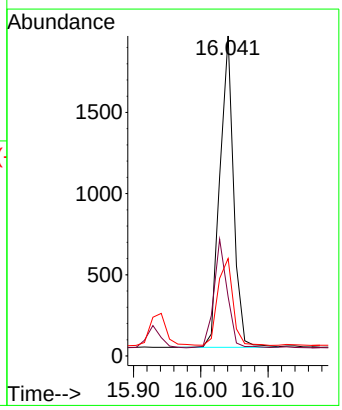


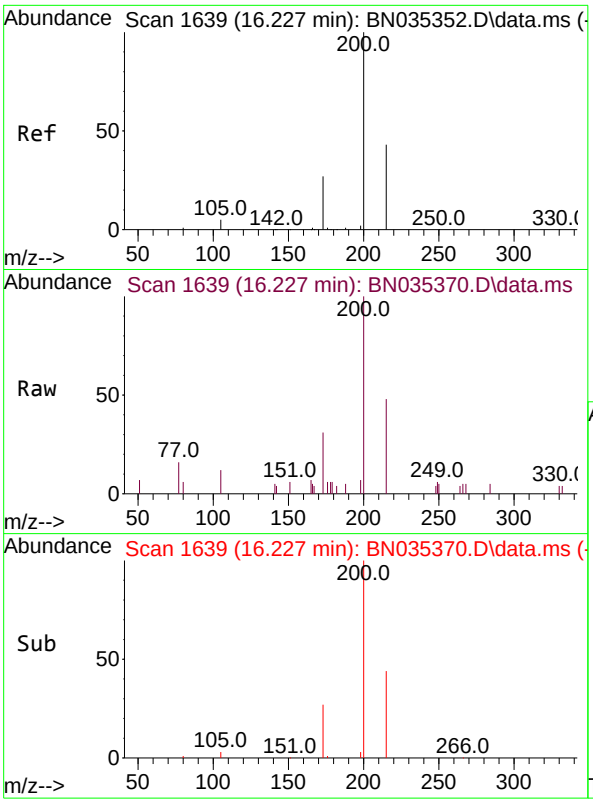


#22
Hexachlorobenzene
Concen: 0.429 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:284 Resp: 2710

Ion	Ratio	Lower	Upper
284	100		
142	34.3	26.7	40.1
249	30.8	24.6	36.8



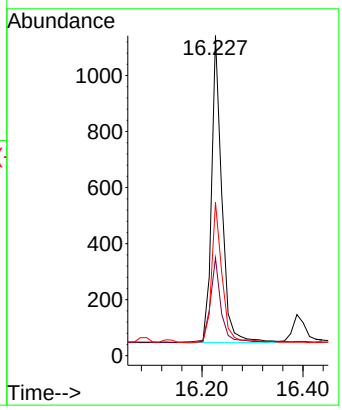


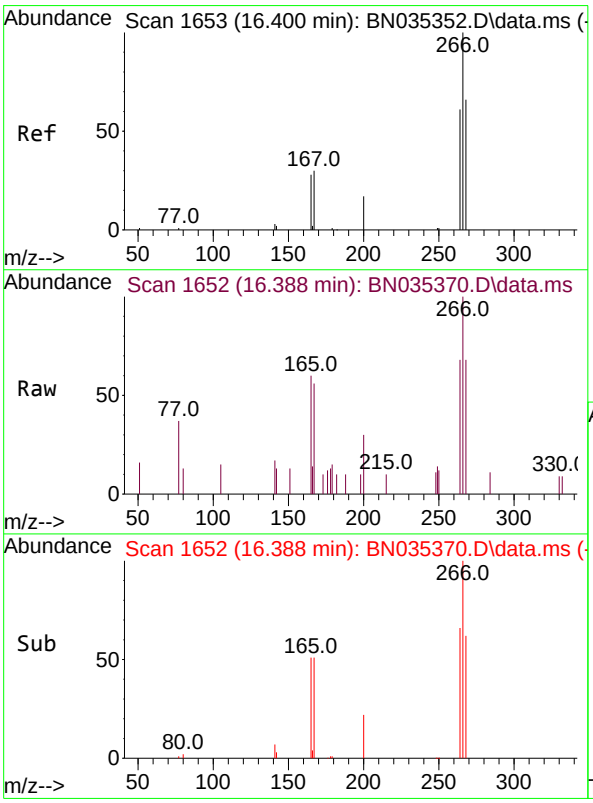
#23
Atrazine
Concen: 0.404 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:200 Resp: 1548

Ion	Ratio	Lower	Upper
200	100		
173	30.6	24.1	36.1
215	47.9	36.9	55.3

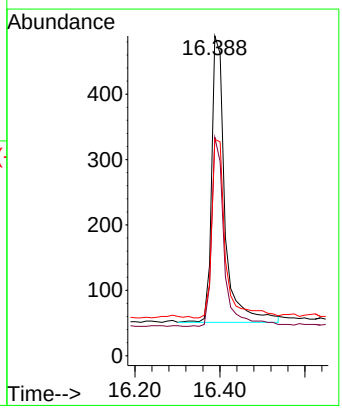


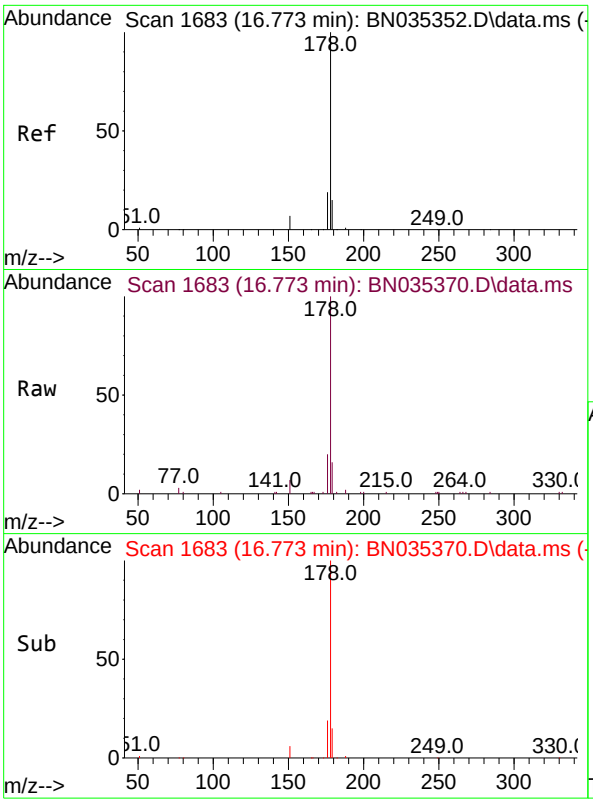


#24
Pentachlorophenol
Concen: 0.345 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:266 Resp: 950

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	63.8	43.3	64.9



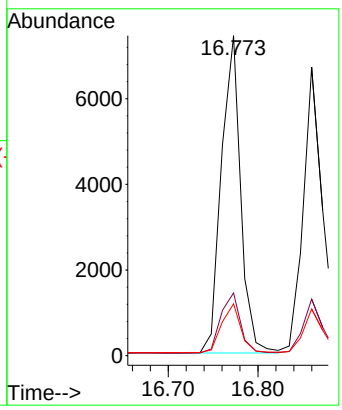


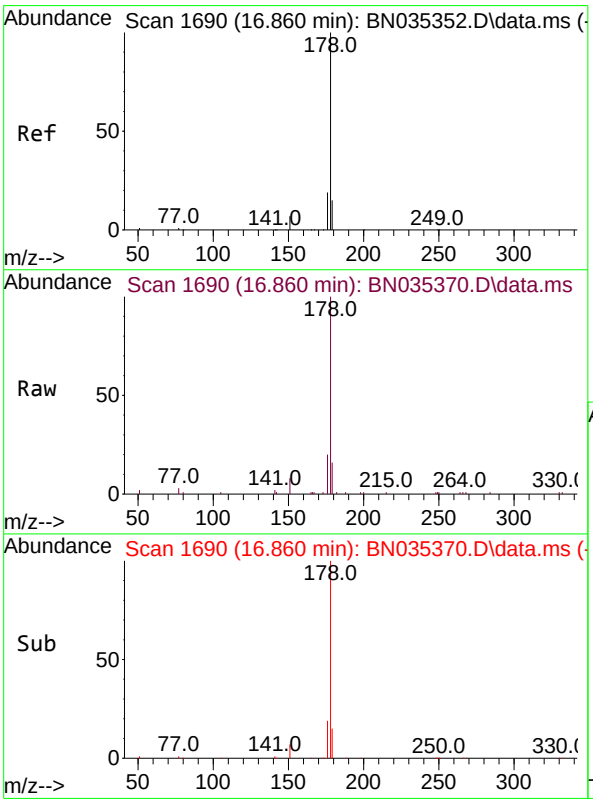
#25
Phenanthrene
Concen: 0.438 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:178 Resp: 11082

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.5	12.3	18.5

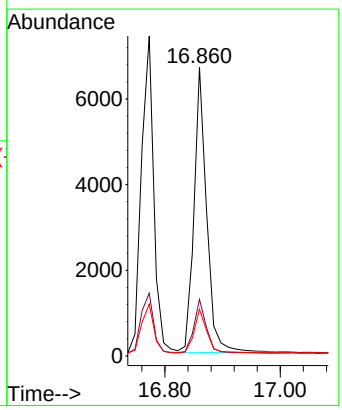


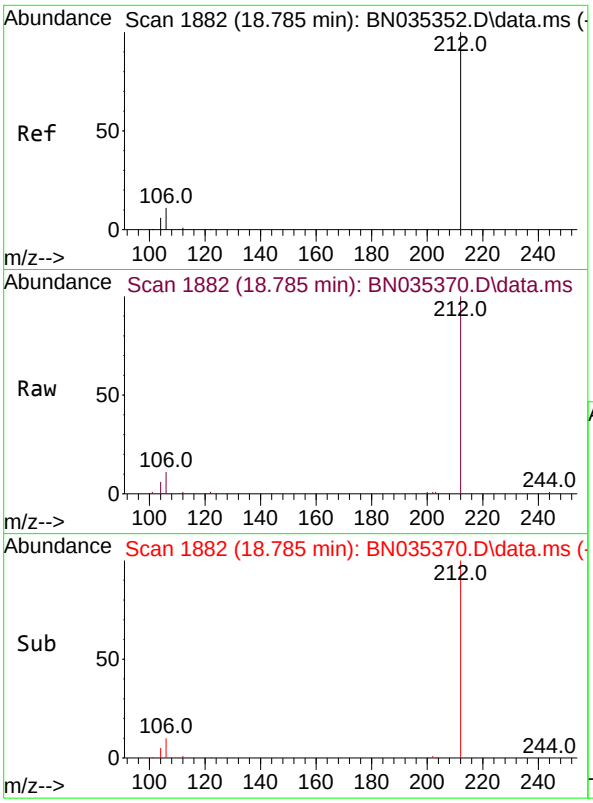


#26
Anthracene
Concen: 0.444 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:178 Resp: 10144

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8



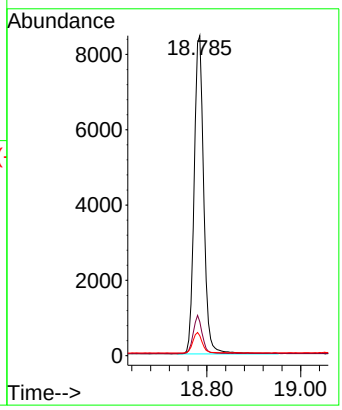


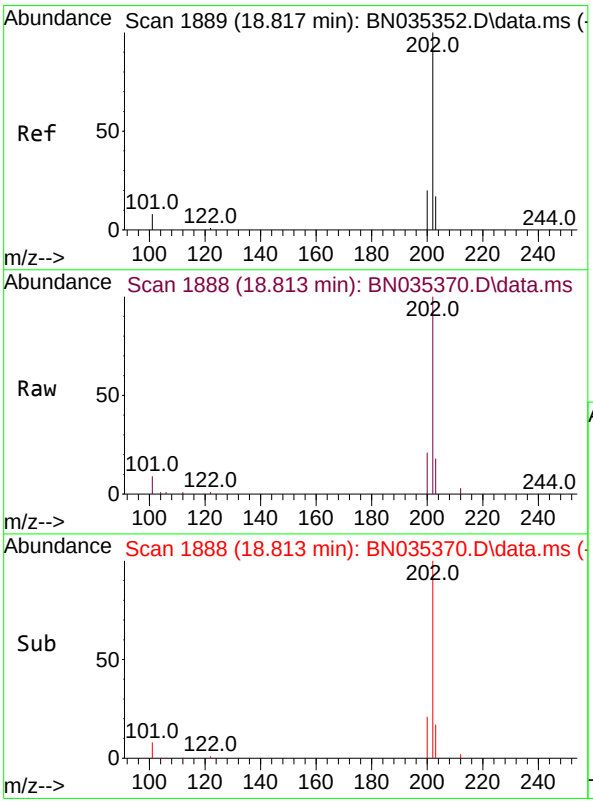
#27
Fluoranthene-d10
Concen: 0.459 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:212 Resp: 11970

Ion	Ratio	Lower	Upper
212	100		
106	11.2	9.2	13.8
104	6.3	5.3	7.9

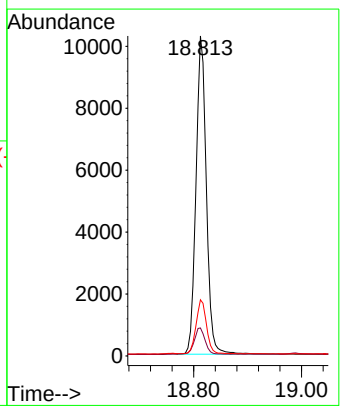


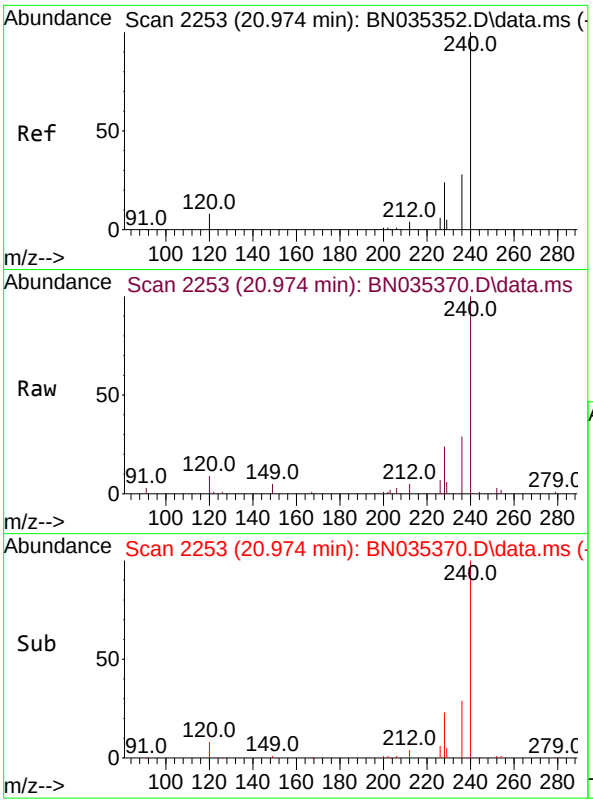


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:202 Resp: 13705

Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.4	11.0
203	17.0	13.7	20.5



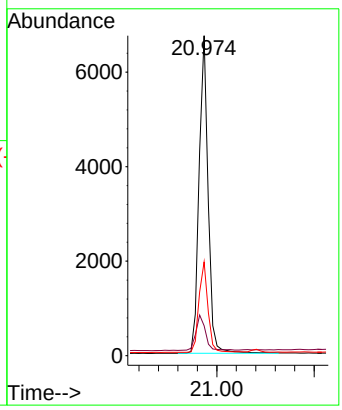


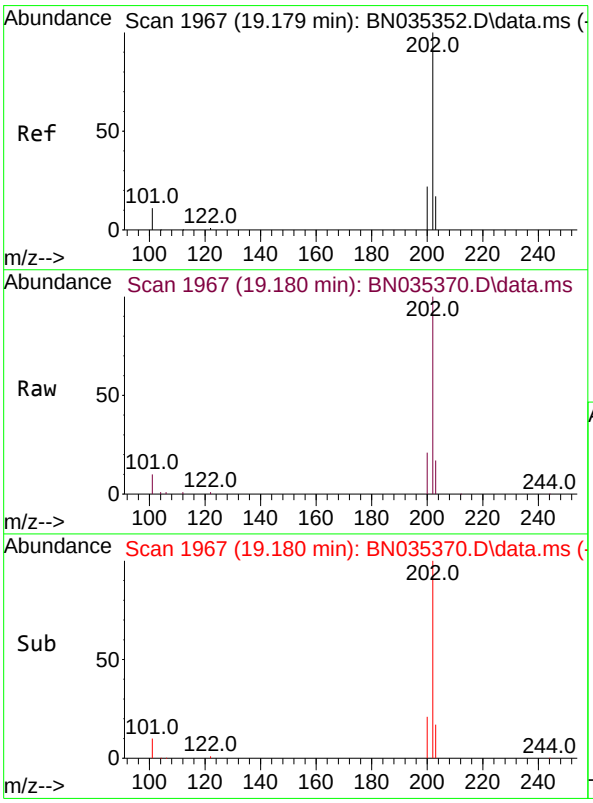
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:240 Resp: 8666

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.9	11.9
236	29.3	22.9	34.3

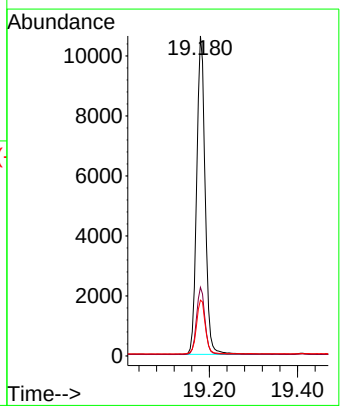


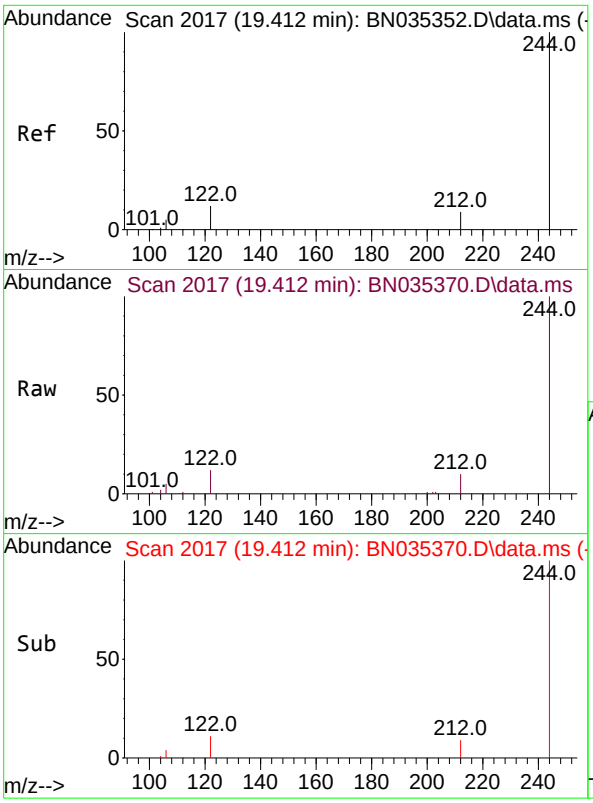


#30
Pyrene
Concen: 0.444 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:202 Resp: 14204

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.5	14.3	21.5



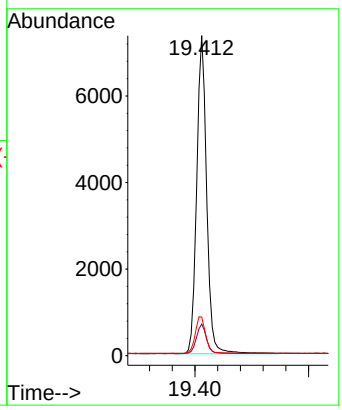


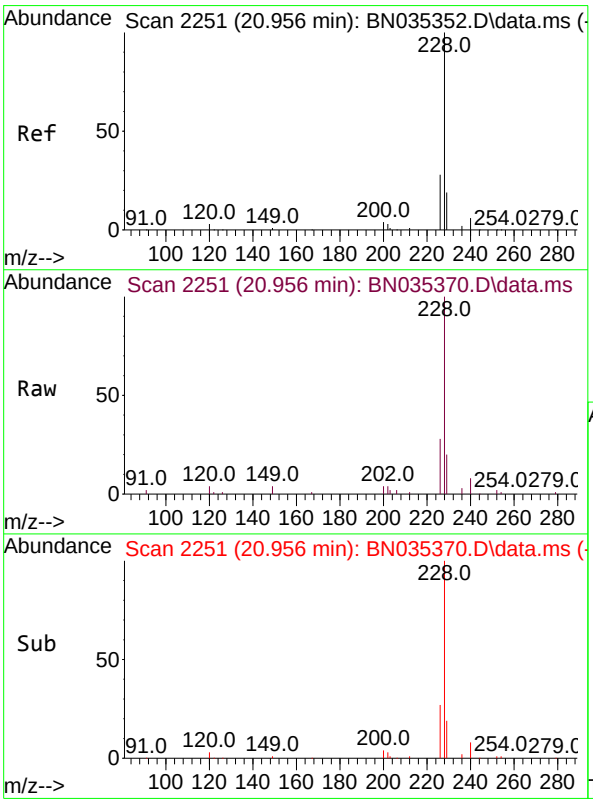
#31
Terphenyl-d14
Concen: 0.521 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:244 Resp: 8912

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.1	10.3	15.5

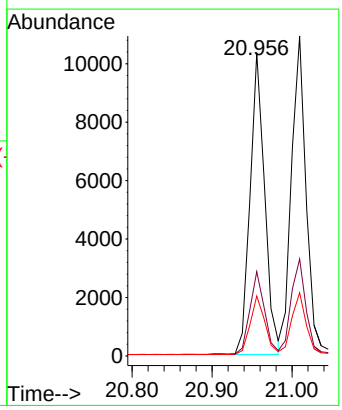


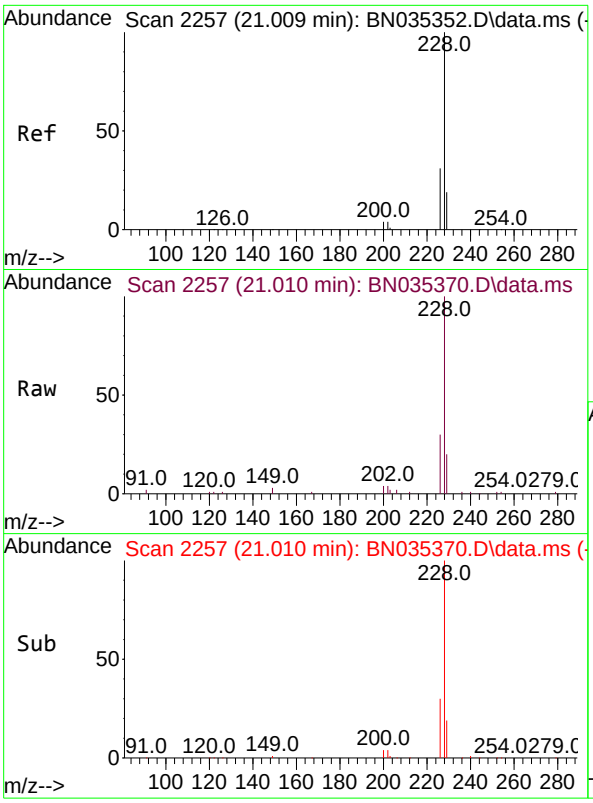


#32
Benzo(a)anthracene
Concen: 0.433 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:228 Resp: 13138

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.5	33.7
229	19.8	15.8	23.8



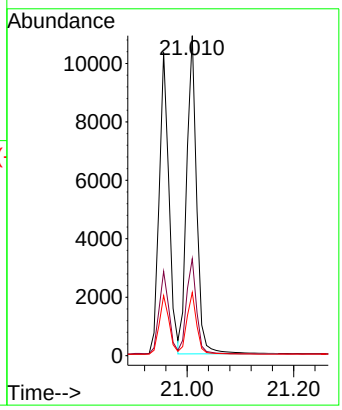


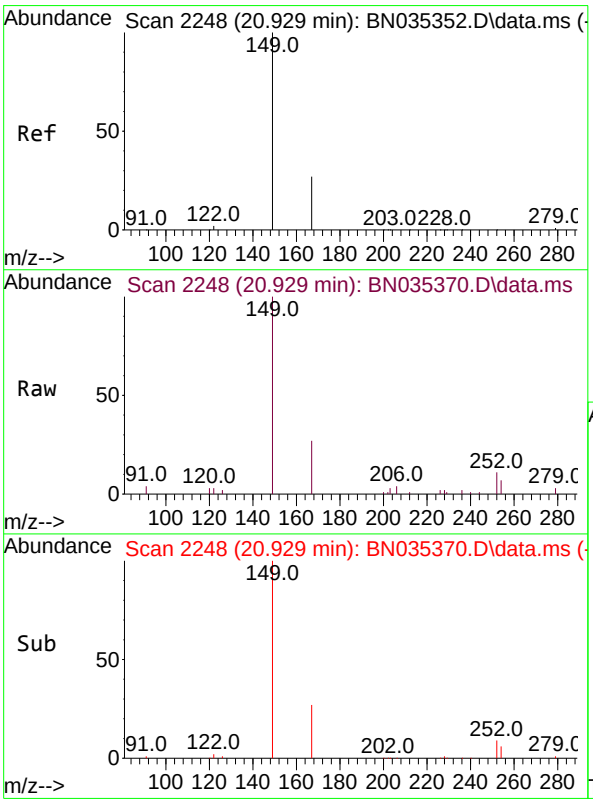
#33
Chrysene
Concen: 0.451 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:228 Resp: 14112

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.8	15.9	23.9

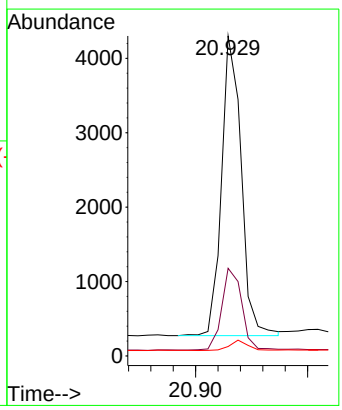


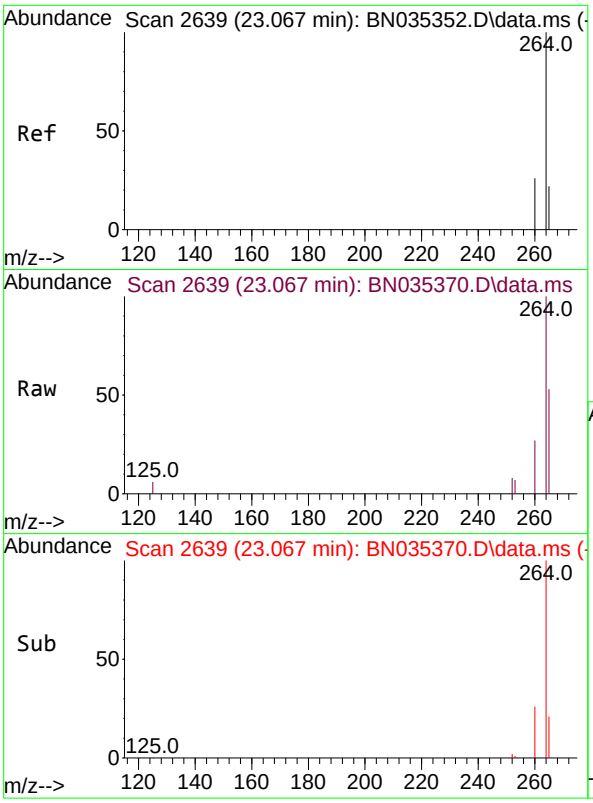


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.410 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:149 Resp: 4912

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.2	2.7	4.1



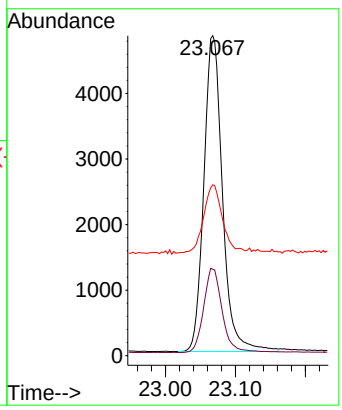


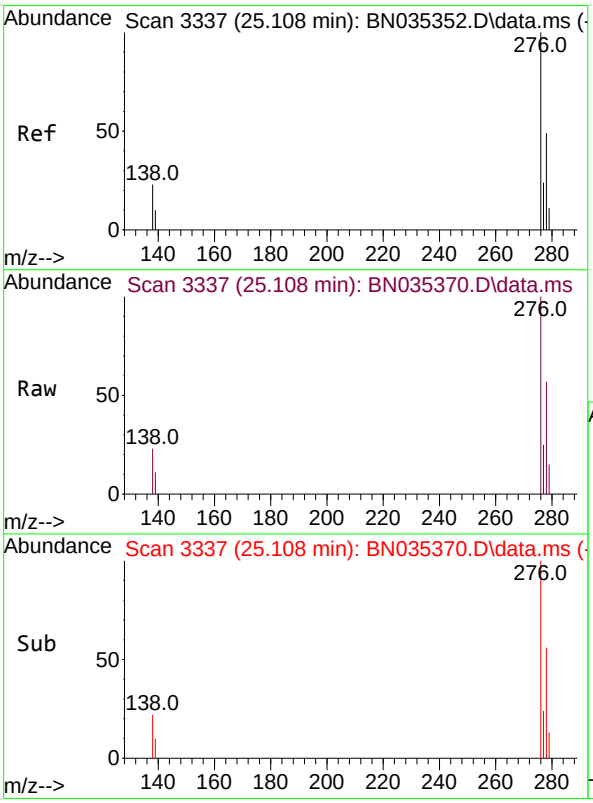
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:264 Resp: 8924

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	53.4	40.2	60.4

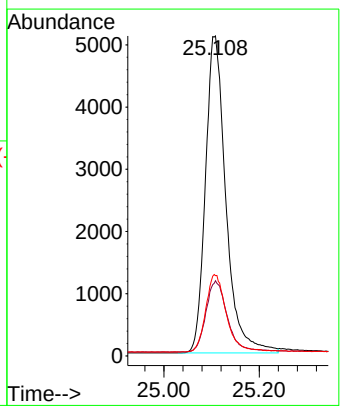


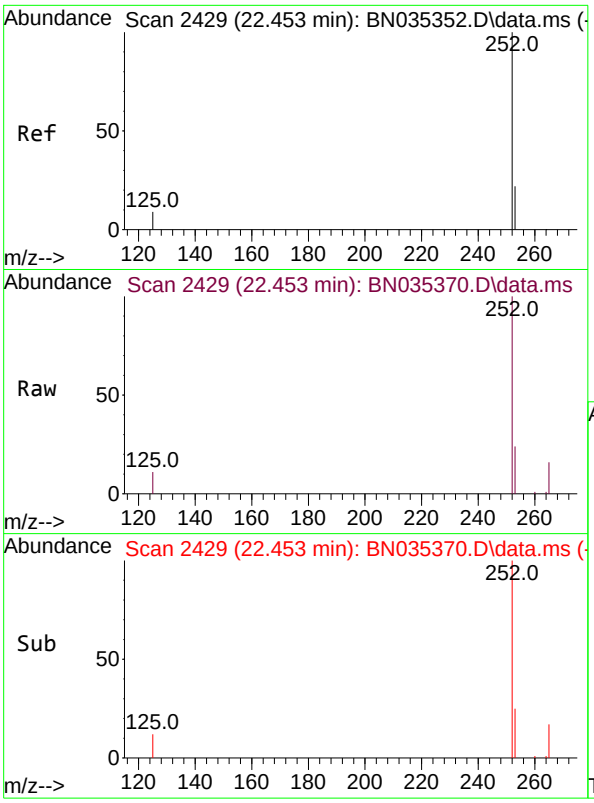


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.436 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:276 Resp: 15213

Ion	Ratio	Lower	Upper
276	100		
138	23.1	19.4	29.0
277	24.6	19.8	29.6



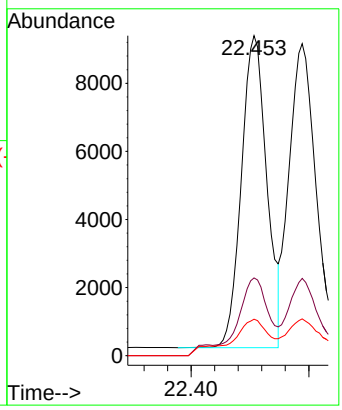


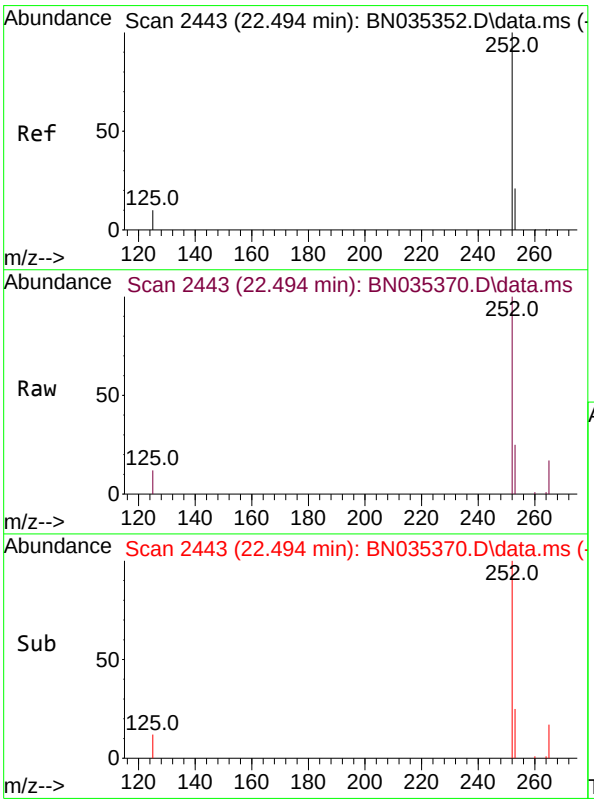
#37
Benzo(b)fluoranthene
Concen: 0.491 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:252 Resp: 16020

Ion	Ratio	Lower	Upper
252	100		
253	24.3	19.6	29.4
125	11.4	9.6	14.4

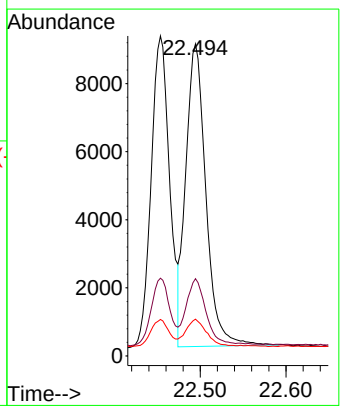


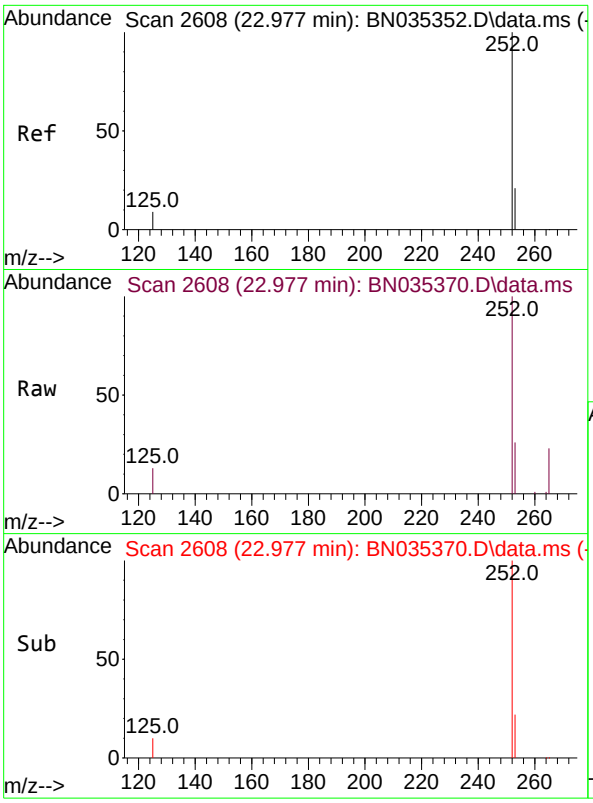


#38
Benzo(k)fluoranthene
Concen: 0.450 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:252 Resp: 14448

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	11.8	10.2	15.4



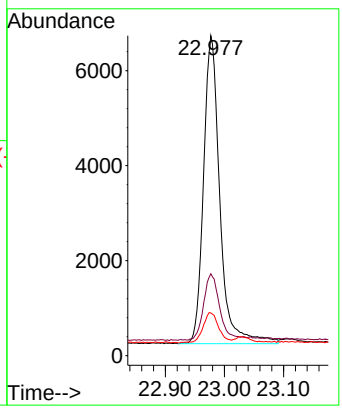


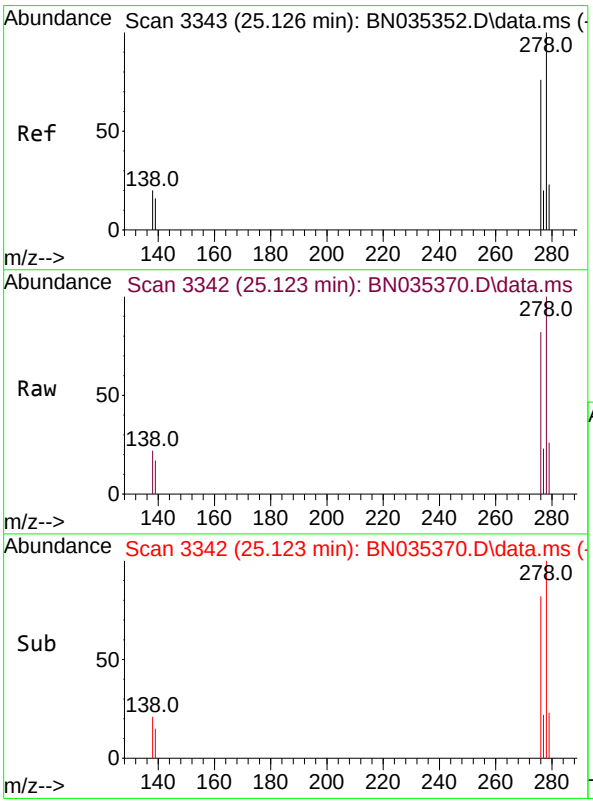
#39
Benzo(a)pyrene
Concen: 0.462 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:252 Resp: 12434

Ion	Ratio	Lower	Upper
252	100		
253	25.6	20.2	30.4
125	13.4	10.9	16.3

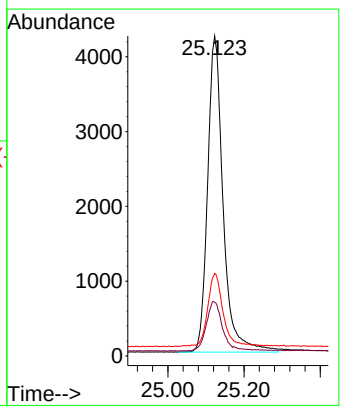


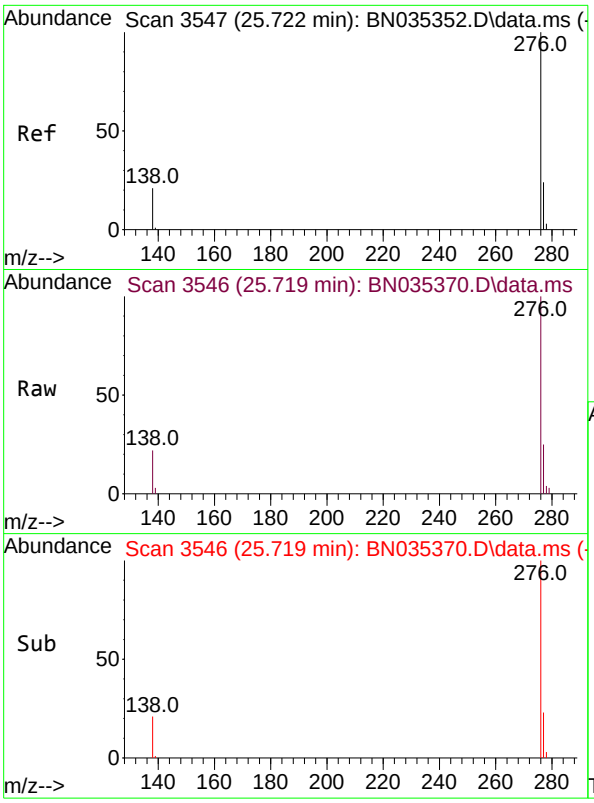


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Tgt Ion:278 Resp: 11913

Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.2	21.4
279	25.8	20.5	30.7



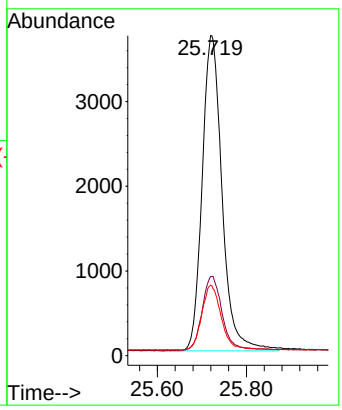


#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 25.719 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035370.D
Acq: 28 Nov 2024 06:03

Instrument :
BNA_N
ClientSampleId :
PB165198BS

Tgt Ion:276 Resp: 11556

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	22.0	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035371.D
Acq On : 28 Nov 2024 06:39
Operator : RC/JU
Sample : PB165198BSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Quant Time: Nov 28 07:04:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2376	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5724	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3806	0.400	ng		0.00
19) Phenanthrene-d10	16.735	188	9566	0.400	ng		0.00
29) Chrysene-d12	20.974	240	8948	0.400	ng		0.00
35) Perylene-d12	23.070	264	9280	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	2117	0.356	ng		0.00
5) Phenol-d6	6.513	99	2409	0.337	ng		0.00
8) Nitrobenzene-d5	8.440	82	1590	0.455	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	4544	0.507	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	658	0.244	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	6011	0.418	ng		0.00
27) Fluoranthene-d10	18.784	212	10713	0.395	ng		0.00
31) Terphenyl-d14	19.412	244	7957	0.451	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	783	0.345	ng	#	72
3) n-Nitrosodimethylamine	3.292	42	727	0.384	ng	#	97
6) bis(2-Chloroethyl)ether	6.759	93	2213	0.368	ng		99
9) Naphthalene	10.105	128	5692	0.377	ng		99
10) Hexachlorobutadiene	10.404	225	1371	0.394	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3934	0.364	ng		99
16) Acenaphthylene	13.678	152	6299	0.394	ng		100
17) Acenaphthene	14.031	154	4018	0.379	ng		99
18) Fluorene	15.026	166	5740	0.378	ng		98
20) 4,6-Dinitro-2-methylph...	15.132	198	344	0.366	ng		96
21) 4-Bromophenyl-phenylether	15.941	248	2102	0.376	ng		97
22) Hexachlorobenzene	16.040	284	2466	0.375	ng		99
23) Atrazine	16.227	200	1420	0.357	ng		97
24) Pentachlorophenol	16.400	266	828	0.290	ng	#	84
25) Phenanthrene	16.773	178	10055	0.383	ng		100
26) Anthracene	16.860	178	9171	0.386	ng		100
28) Fluoranthene	18.812	202	12304	0.347	ng		100
30) Pyrene	19.179	202	12695	0.384	ng		100
32) Benzo(a)anthracene	20.956	228	11626	0.371	ng		100
33) Chrysene	21.009	228	12682	0.393	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4303	0.348	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	14123	0.389	ng		99
37) Benzo(b)fluoranthene	22.456	252	12457	0.367	ng		99
38) Benzo(k)fluoranthene	22.497	252	13182	0.394	ng		99
39) Benzo(a)pyrene	22.980	252	11277	0.403	ng		99
40) Dibenzo(a,h)anthracene	25.128	278	10990	0.384	ng		99
41) Benzo(g,h,i)perylene	25.725	276	10607	0.355	ng		99

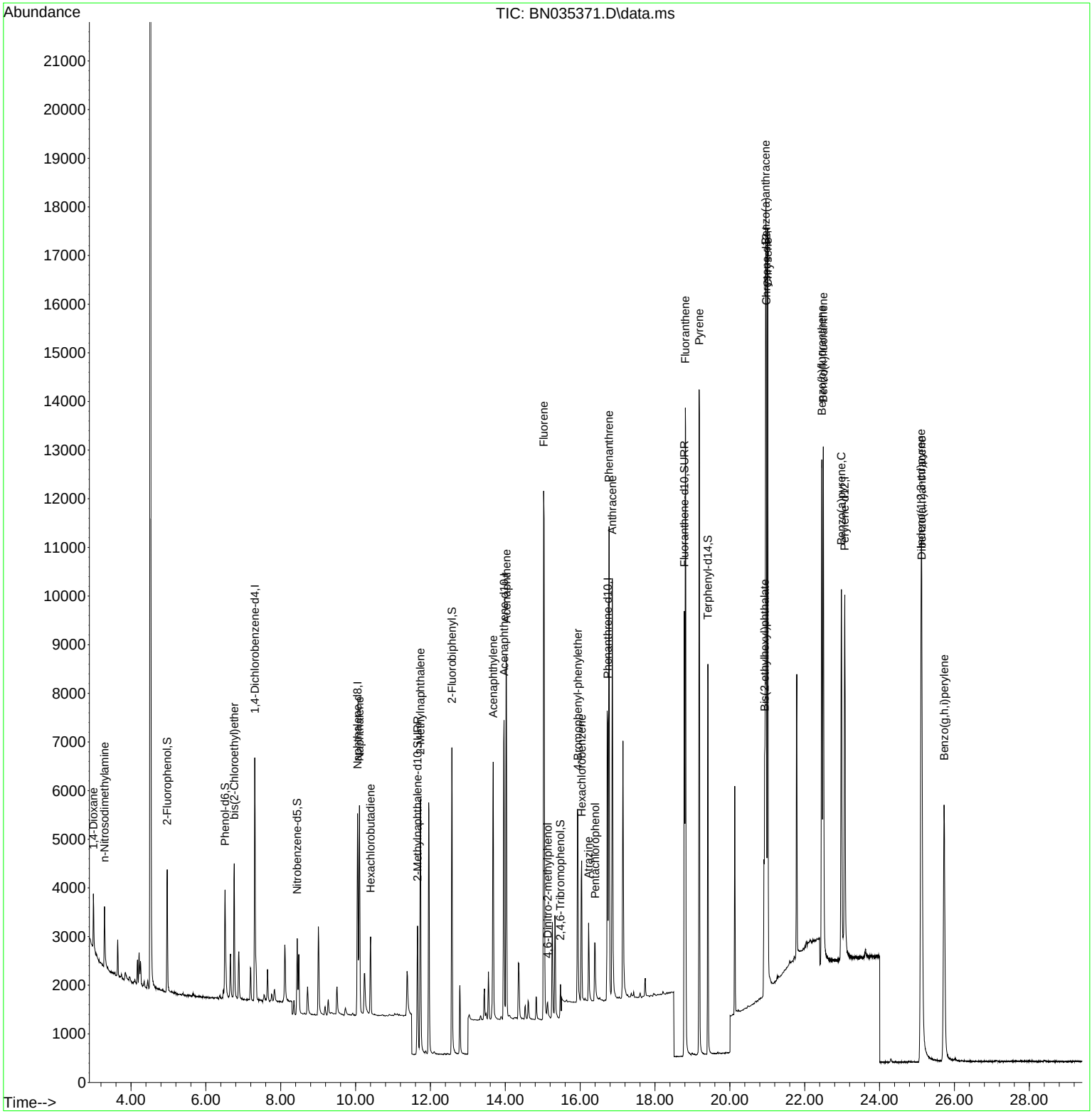
(#) = qualifier out of range (m) = manual integration (+) = signals summed

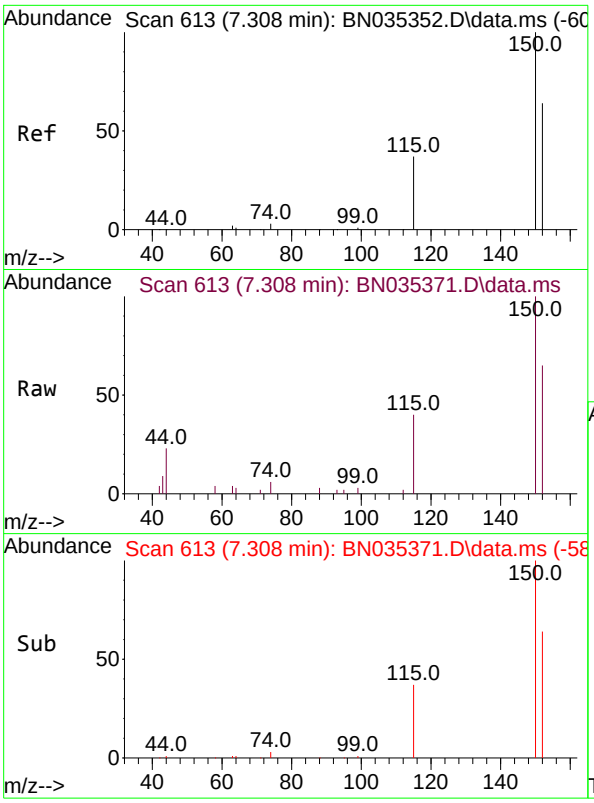
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035371.D
Acq On : 28 Nov 2024 06:39
Operator : RC/JU
Sample : PB165198BSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Quant Time: Nov 28 07:04:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



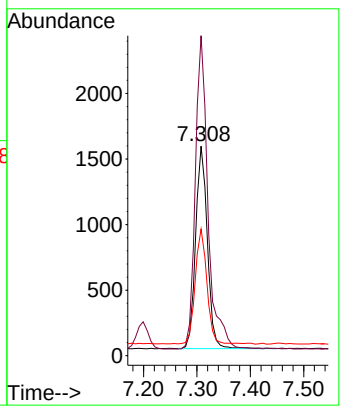


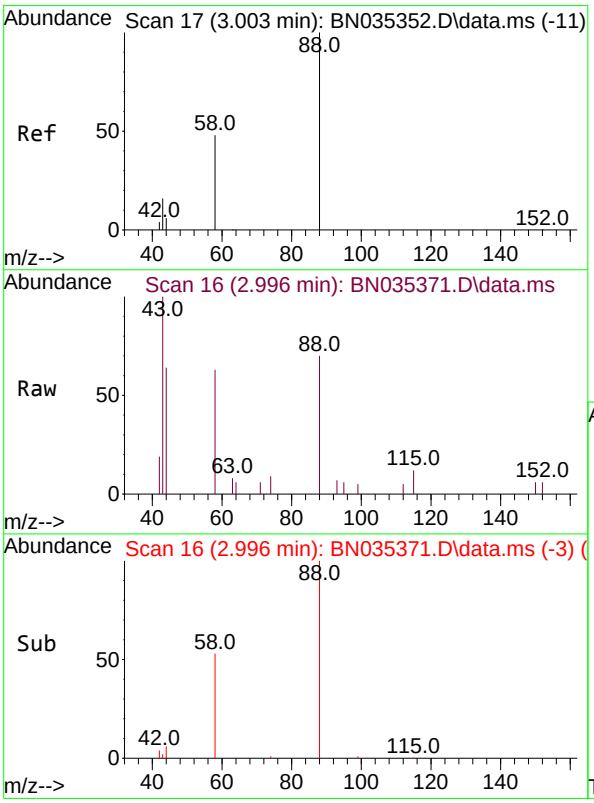
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:152 Resp: 2376

Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.0	186.0
115	60.4	49.6	74.4

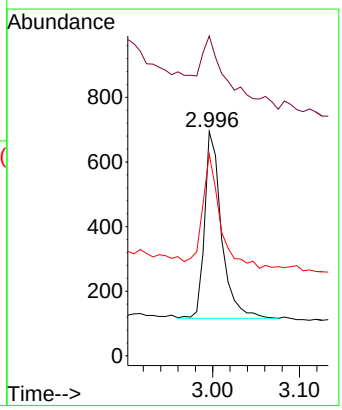


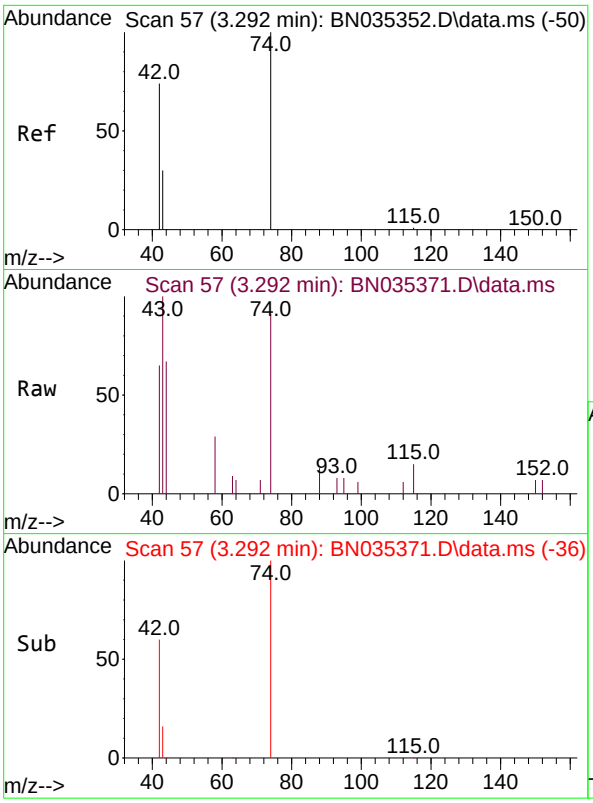


#2
1,4-Dioxane
Concen: 0.345 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion: 88 Resp: 783

Ion	Ratio	Lower	Upper
88	100		
43	58.7	17.2	25.8#
58	62.1	44.5	66.7



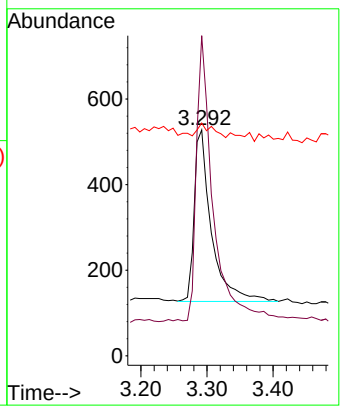


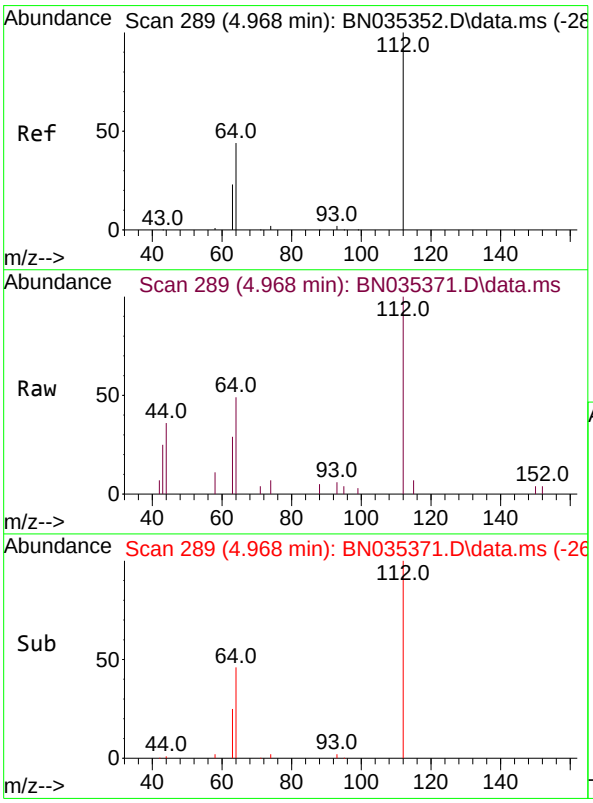
#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.292 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion: 42 Resp: 727

Ion	Ratio	Lower	Upper
42	100		
74	159.8	124.9	187.3
44	7.0	2.2	3.4#

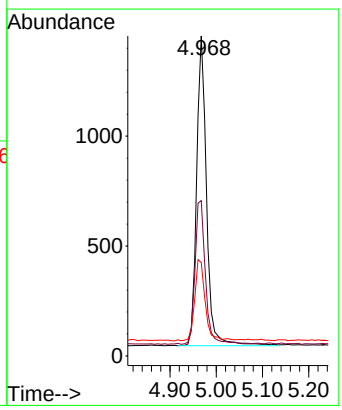


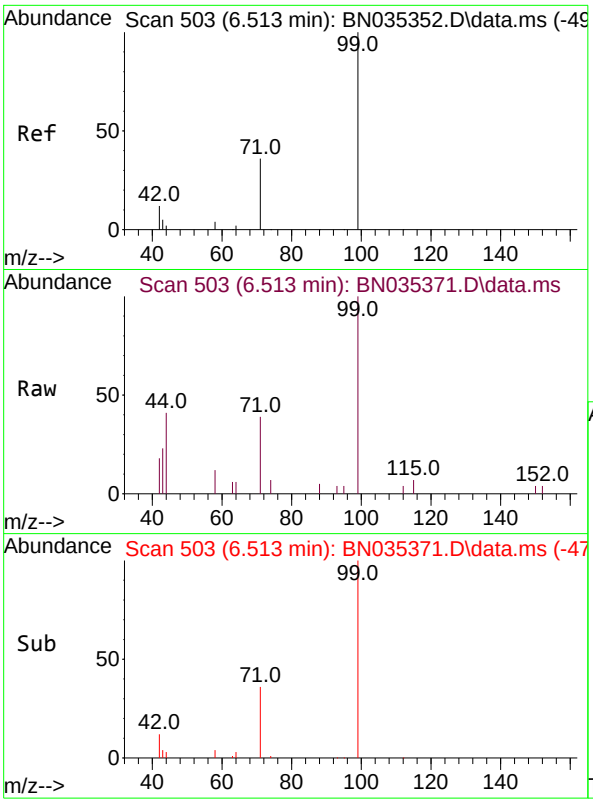


#4
2-Fluorophenol
Concen: 0.356 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:112 Resp: 2117

Ion	Ratio	Lower	Upper
112	100		
64	48.9	39.8	59.8
63	27.9	21.0	31.6



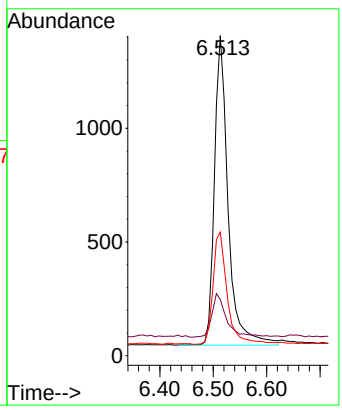


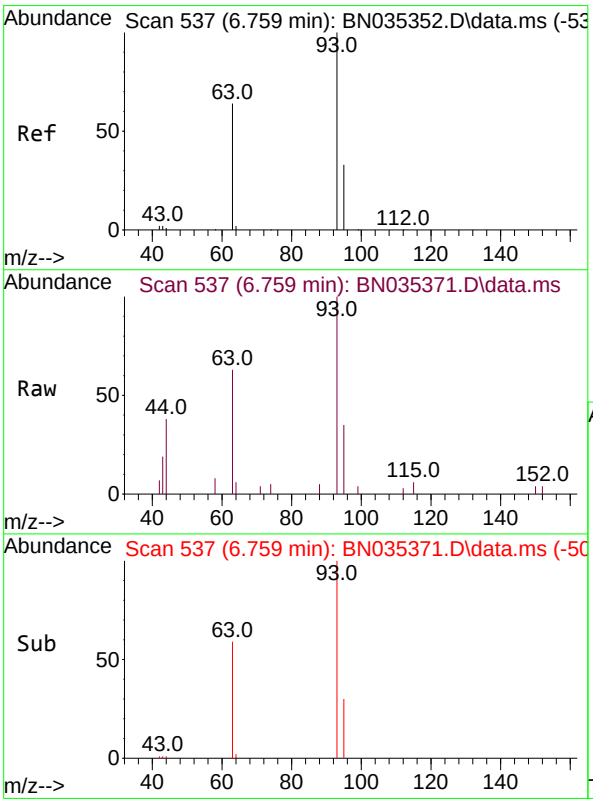
#5
Phenol-d6
Concen: 0.337 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion: 99 Resp: 2409

Ion	Ratio	Lower	Upper
99	100		
42	15.1	11.4	17.2
71	37.7	29.3	43.9

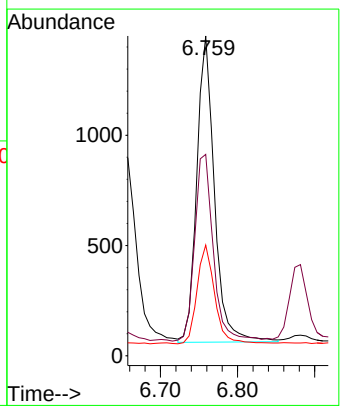


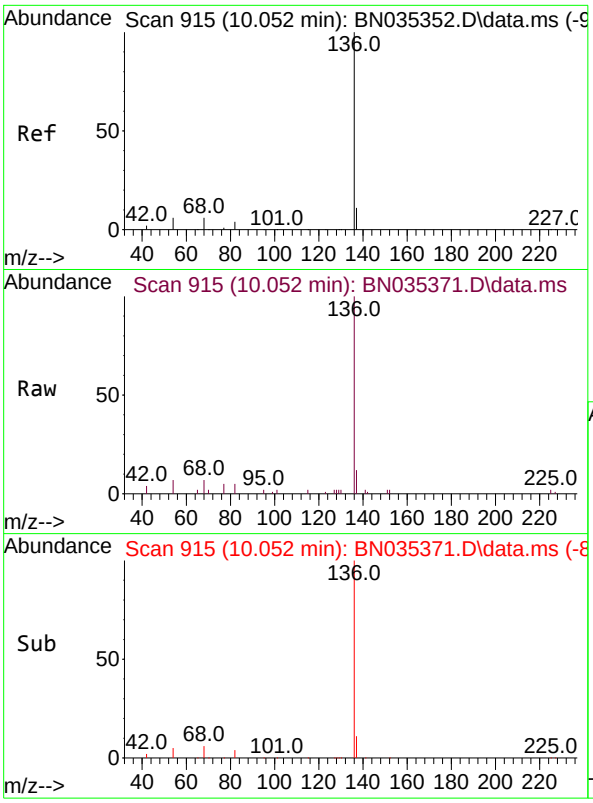


#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion: 93 Resp: 2213

Ion	Ratio	Lower	Upper
93	100		
63	64.2	50.4	75.6
95	32.2	25.7	38.5



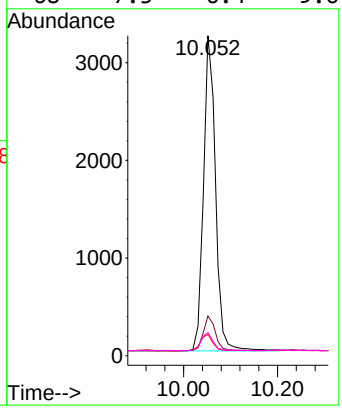


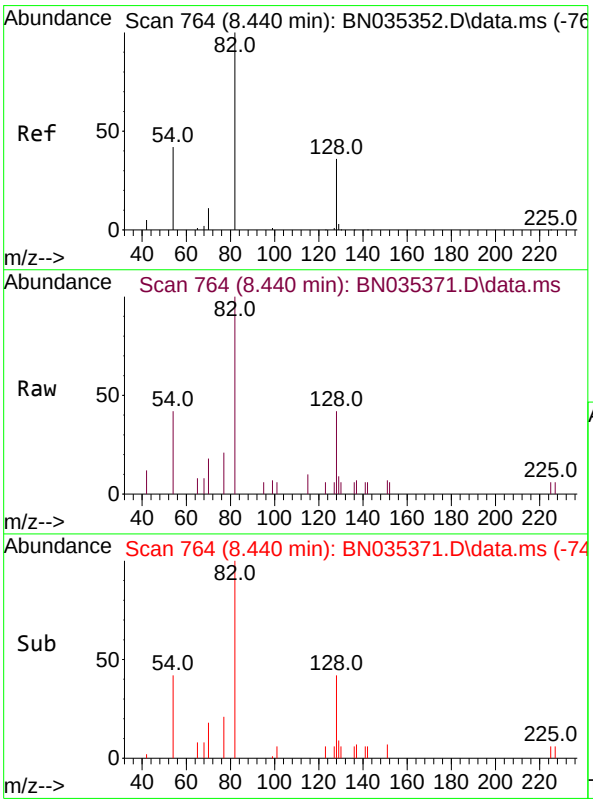
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:136 Resp: 5724

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	6.7	6.1	9.1
68	7.3	6.4	9.6

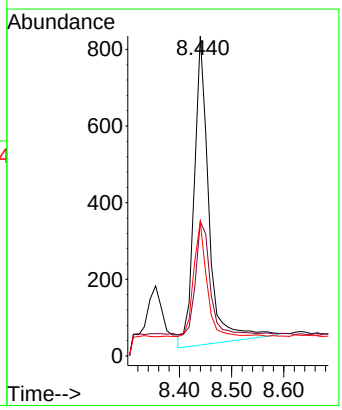


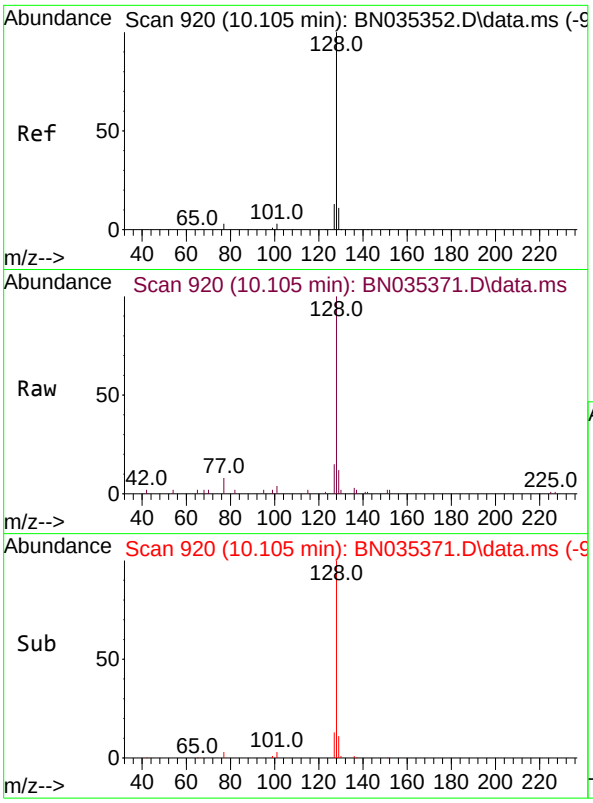


#8
Nitrobenzene-d5
Concen: 0.455 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion: 82 Resp: 1590

Ion	Ratio	Lower	Upper
82	100		
128	42.0	33.4	50.0
54	41.9	36.7	55.1



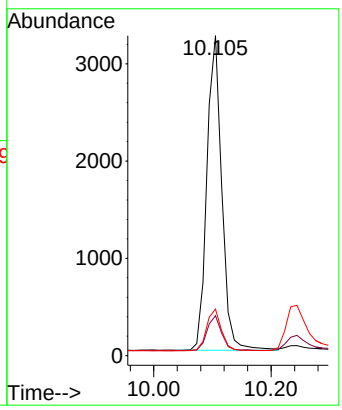


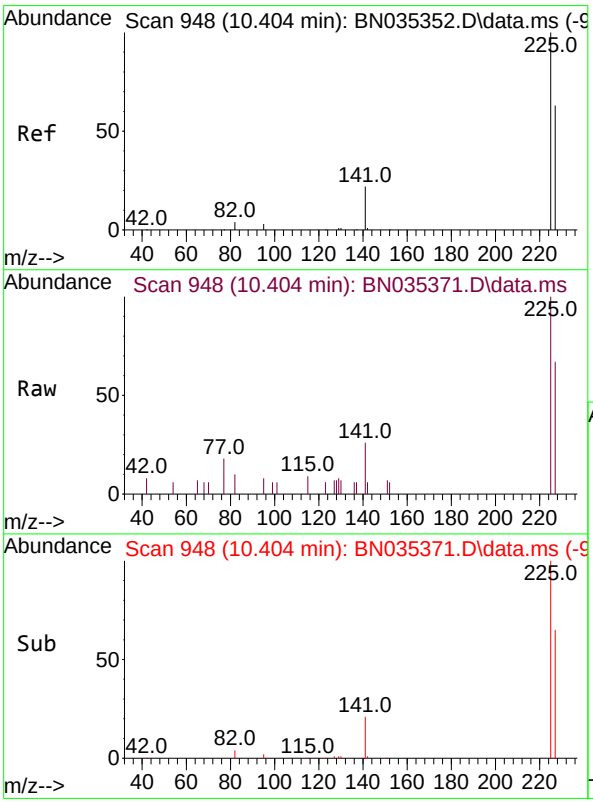
#9
Naphthalene
Concen: 0.377 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:128 Resp: 5692

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.5	11.4	17.2

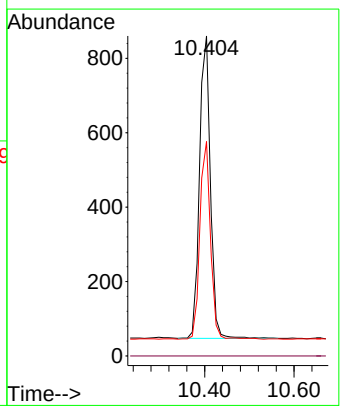


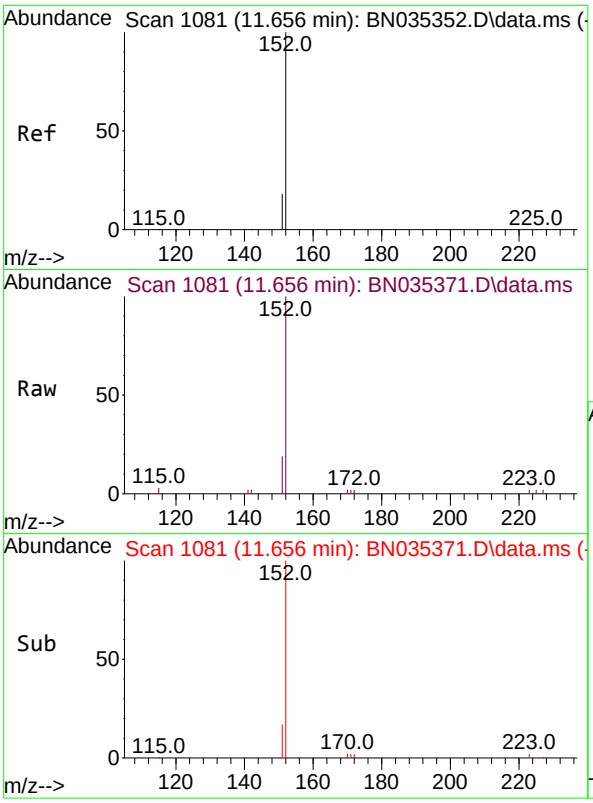


#10
Hexachlorobutadiene
Concen: 0.394 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:225 Resp: 1371

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.3	76.9



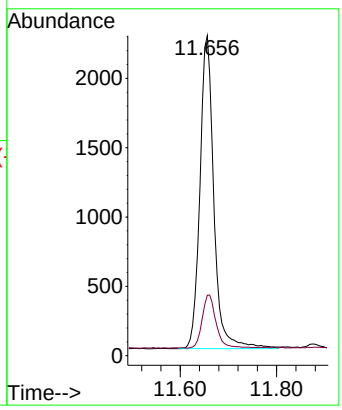


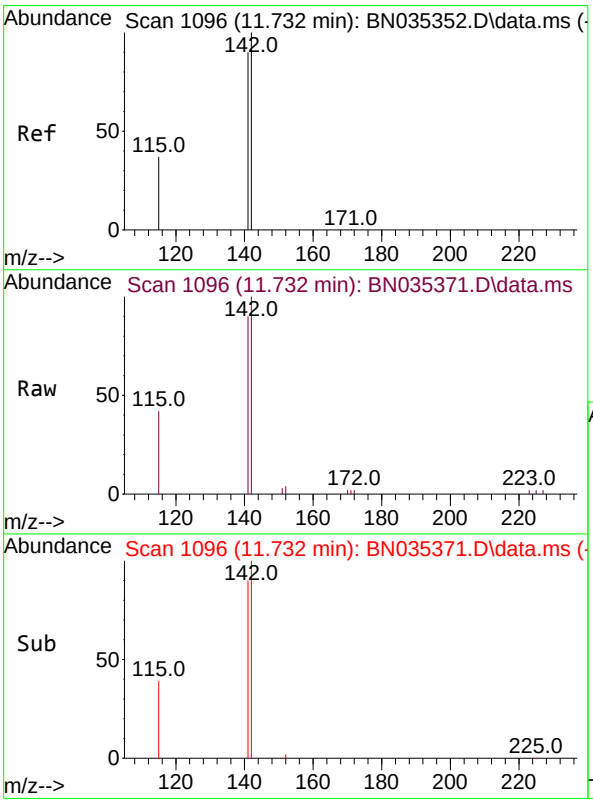
#11
2-Methylnaphthalene-d10
Concen: 0.507 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:152 Resp: 4544

Ion	Ratio	Lower	Upper
152	100		
151	16.9	16.6	25.0

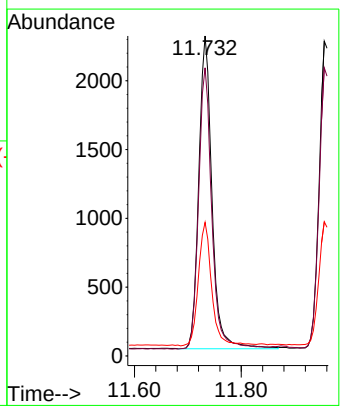


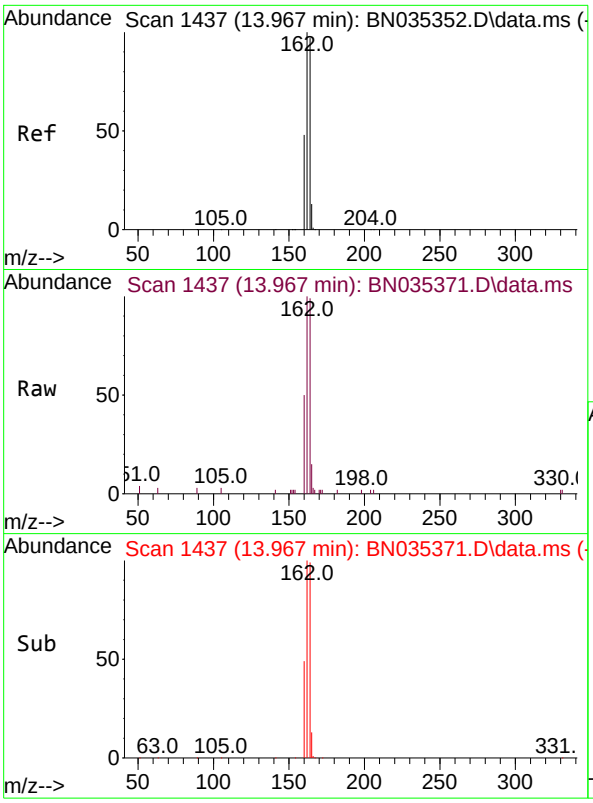


#12
2-Methylnaphthalene
Concen: 0.364 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:142 Resp: 3934

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.4
115	41.8	31.4	47.0



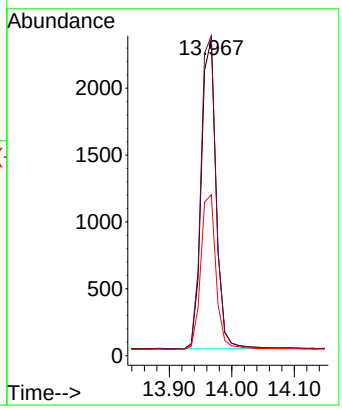


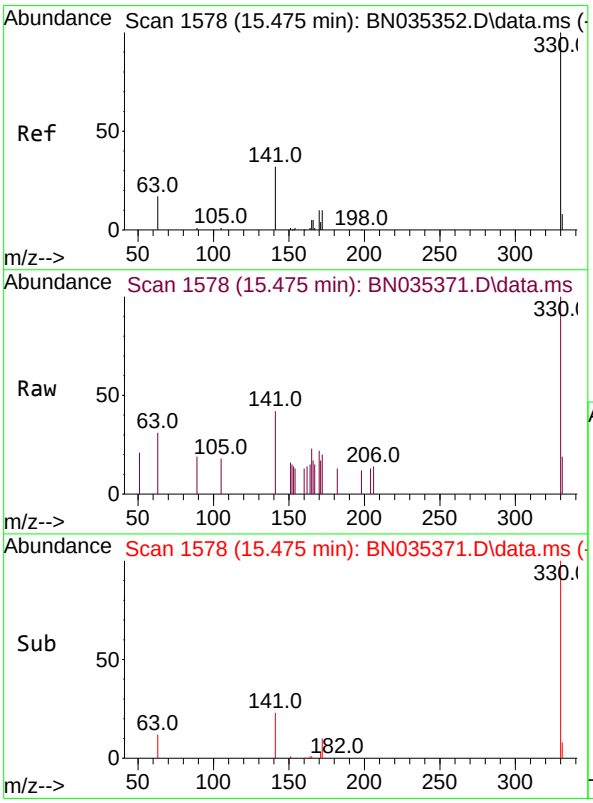
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:164 Resp: 3806

Ion	Ratio	Lower	Upper
164	100		
162	101.0	82.2	123.2
160	50.8	40.1	60.1

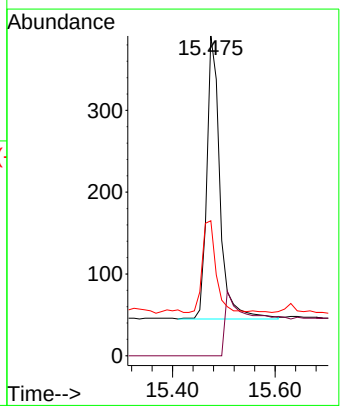


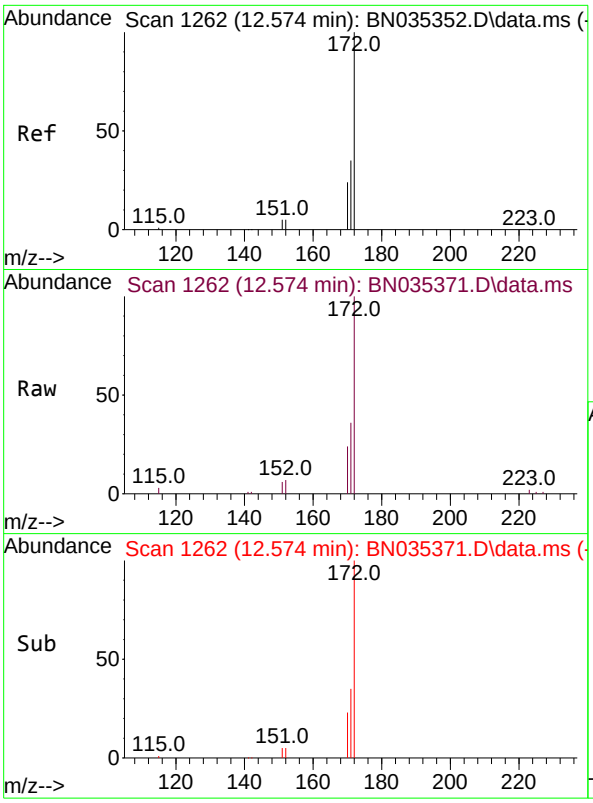


#14
2,4,6-Tribromophenol
Concen: 0.244 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:330 Resp: 658

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.0	26.6	40.0



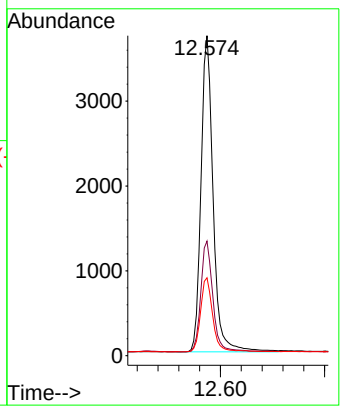


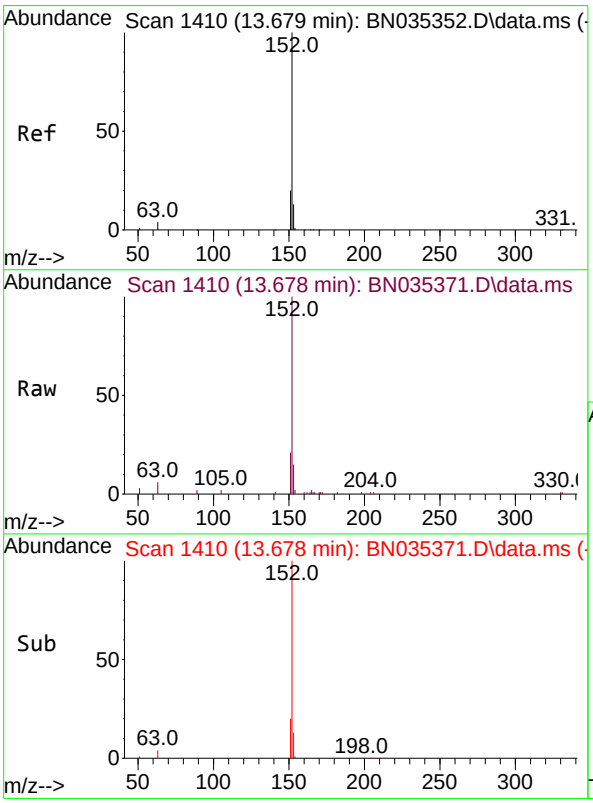
#15
2-Fluorobiphenyl
Concen: 0.418 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:172 Resp: 6011

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	24.3	19.8	29.8

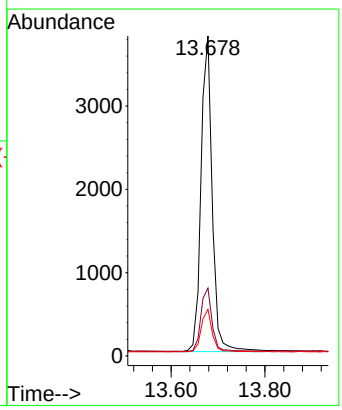


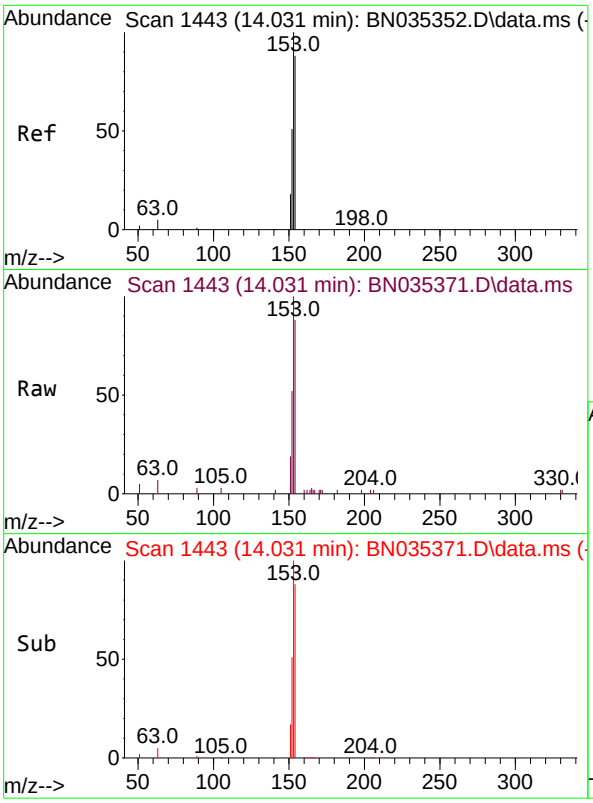


#16
Acenaphthylene
Concen: 0.394 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:152 Resp: 6299

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.1	10.4	15.6



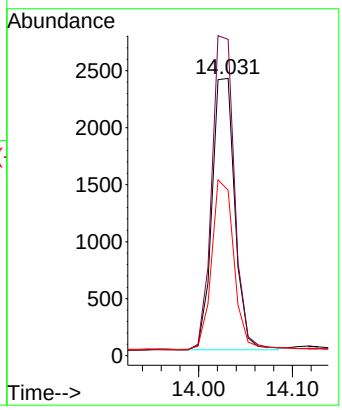


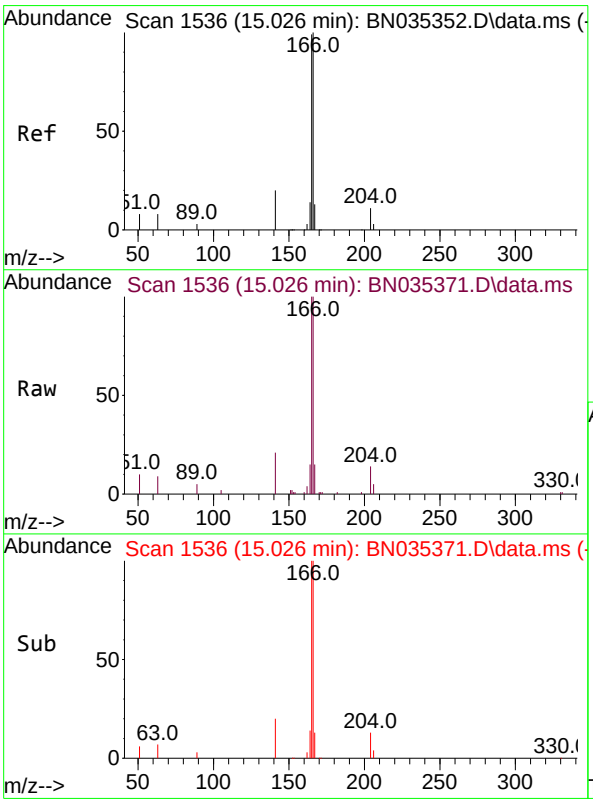
#17
Acenaphthene
Concen: 0.379 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:154 Resp: 4018

Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	62.2	49.0	73.6

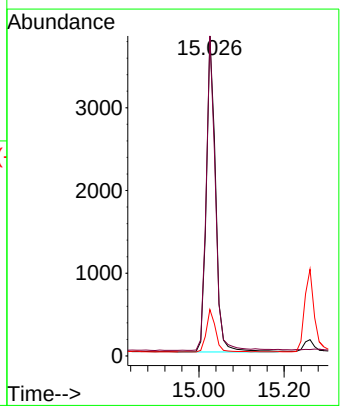


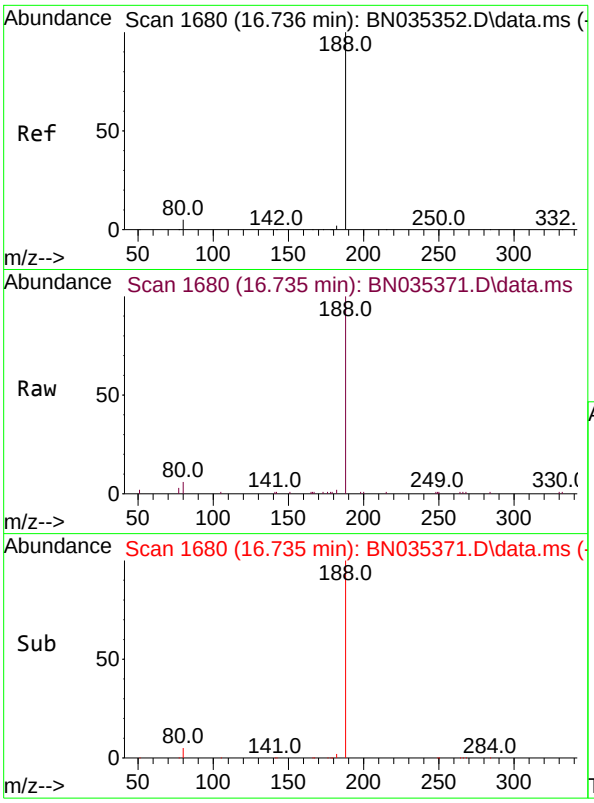


#18
Fluorene
Concen: 0.378 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:166 Resp: 5740

Ion	Ratio	Lower	Upper
166	100		
165	97.3	79.7	119.5
167	13.5	10.8	16.2



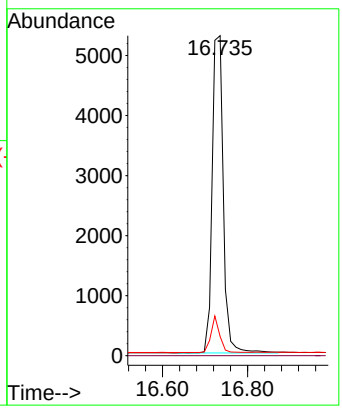


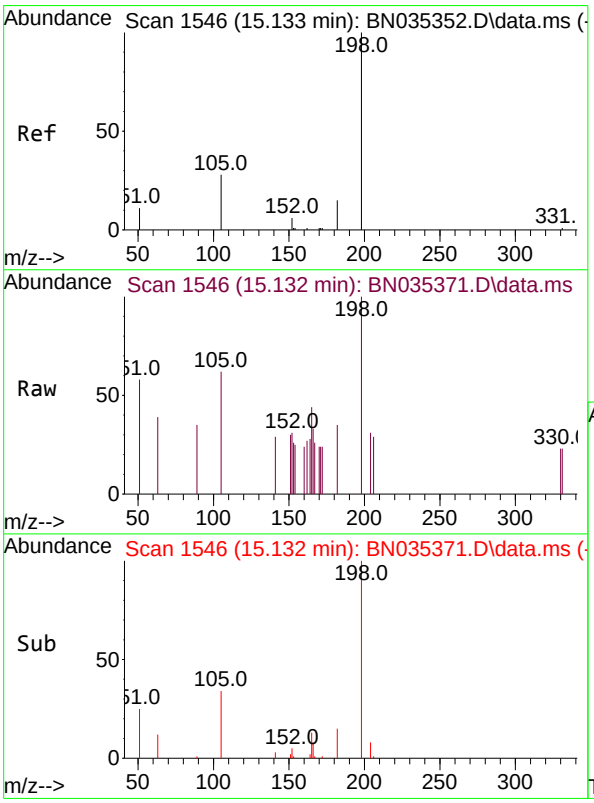
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:188 Resp: 9566

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.0	4.6	6.8

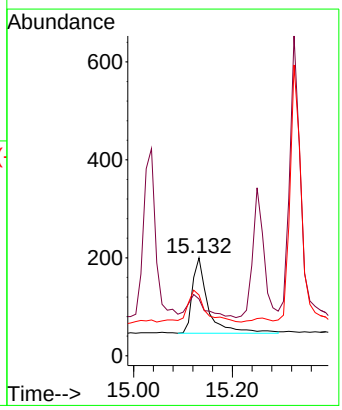


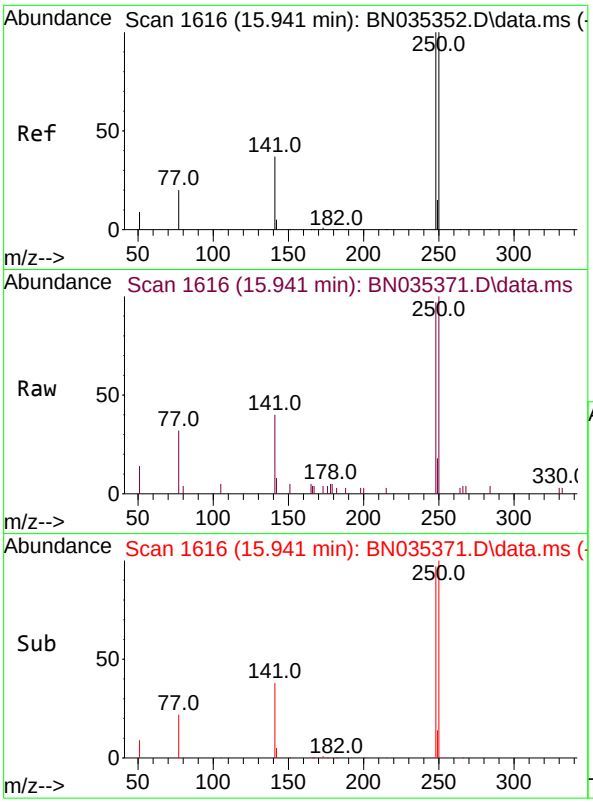


#20
4,6-Dinitro-2-methylphenol
Concen: 0.366 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:198 Resp: 344

Ion	Ratio	Lower	Upper
198	100		
51	58.0	46.5	69.7
105	62.0	45.3	67.9



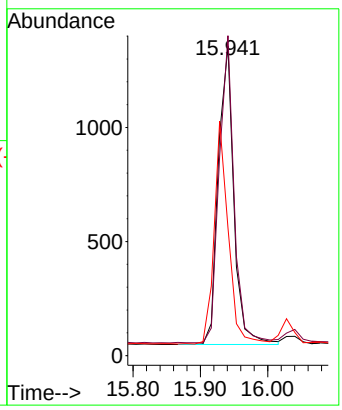


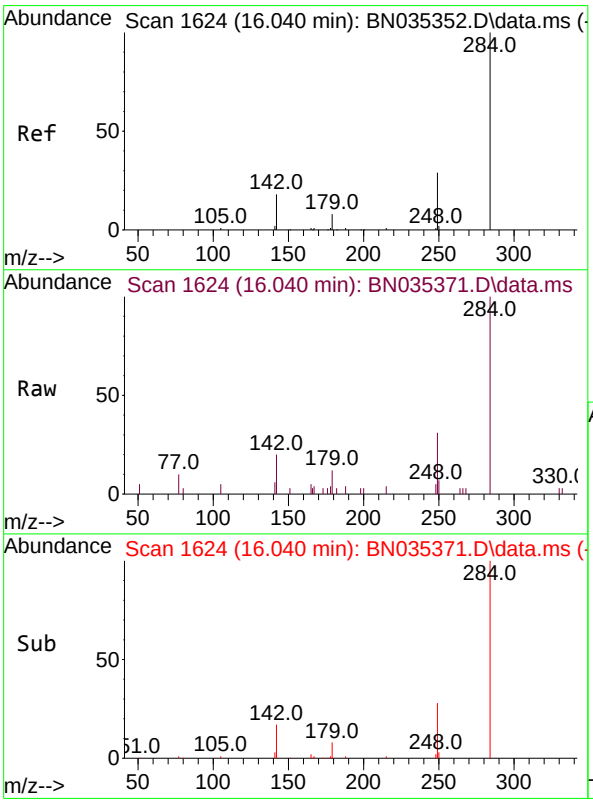
#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:248 Resp: 2102

Ion	Ratio	Lower	Upper
248	100		
250	103.4	80.6	120.8
141	41.4	31.5	47.3

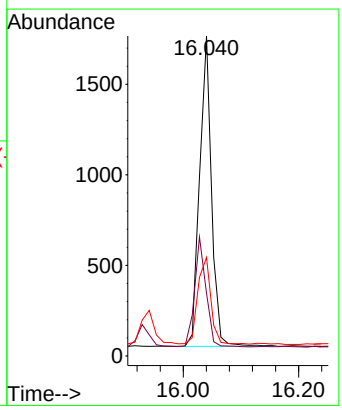


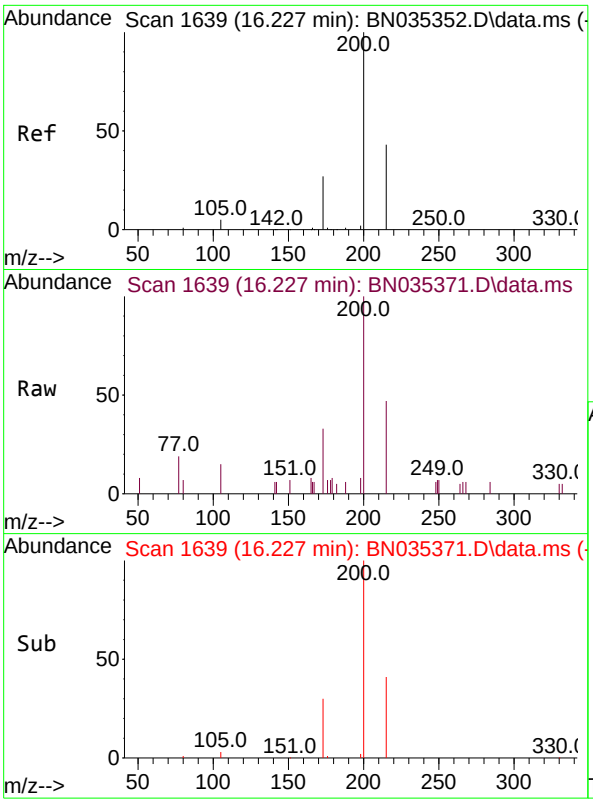


#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:284 Resp: 2466

Ion	Ratio	Lower	Upper
284	100		
142	34.3	26.7	40.1
249	30.7	24.6	36.8



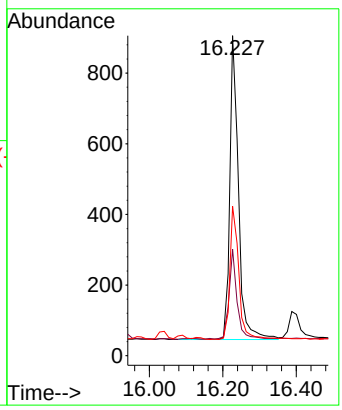


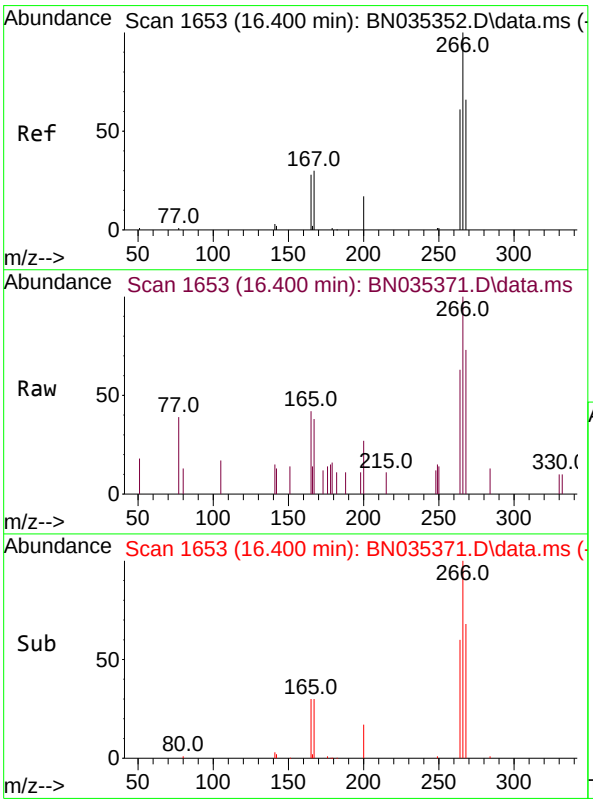
#23
Atrazine
Concen: 0.357 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:200 Resp: 1420

Ion	Ratio	Lower	Upper
200	100		
173	33.3	24.1	36.1
215	46.7	36.9	55.3

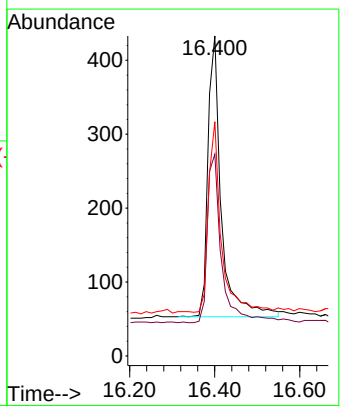


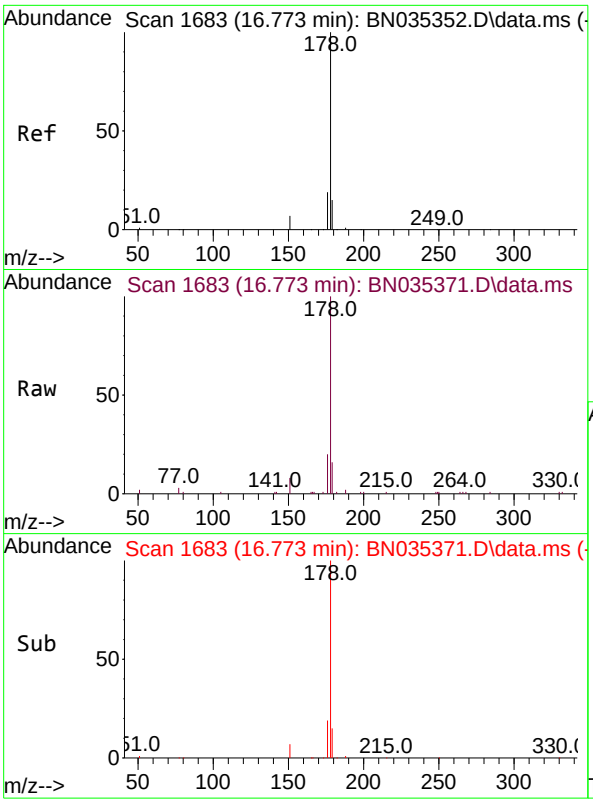


#24
Pentachlorophenol
Concen: 0.290 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:266 Resp: 828

Ion	Ratio	Lower	Upper
266	100		
264	63.5	42.3	63.5#
268	65.7	43.3	64.9#



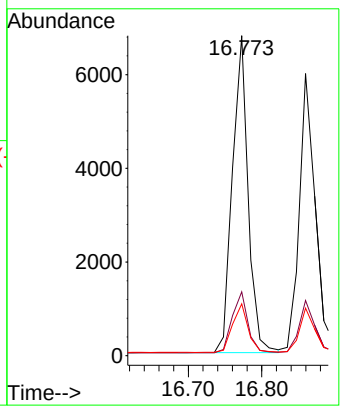


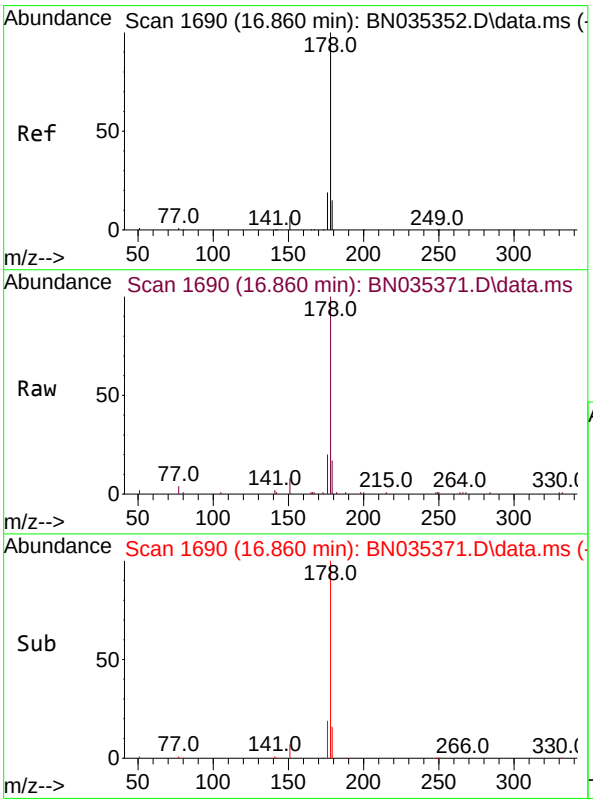
#25
Phenanthrene
Concen: 0.383 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:178 Resp: 10055

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.3	18.5

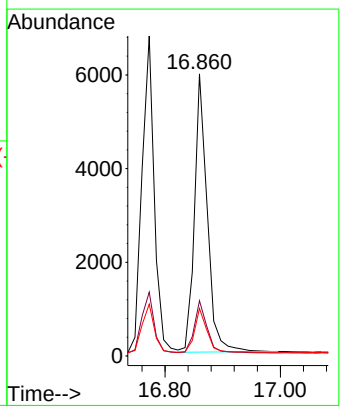


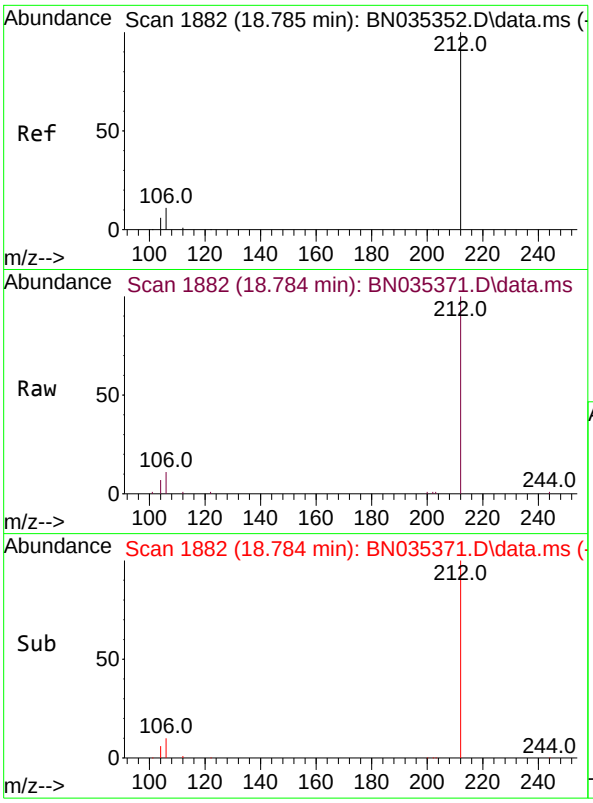


#26
Anthracene
Concen: 0.386 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:178 Resp: 9171

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.4	12.6	18.8



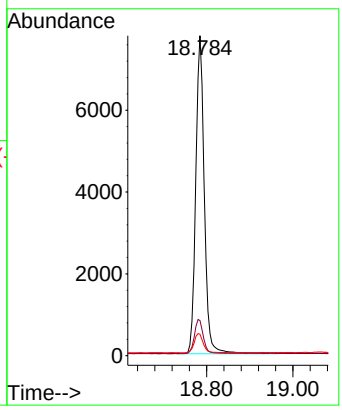


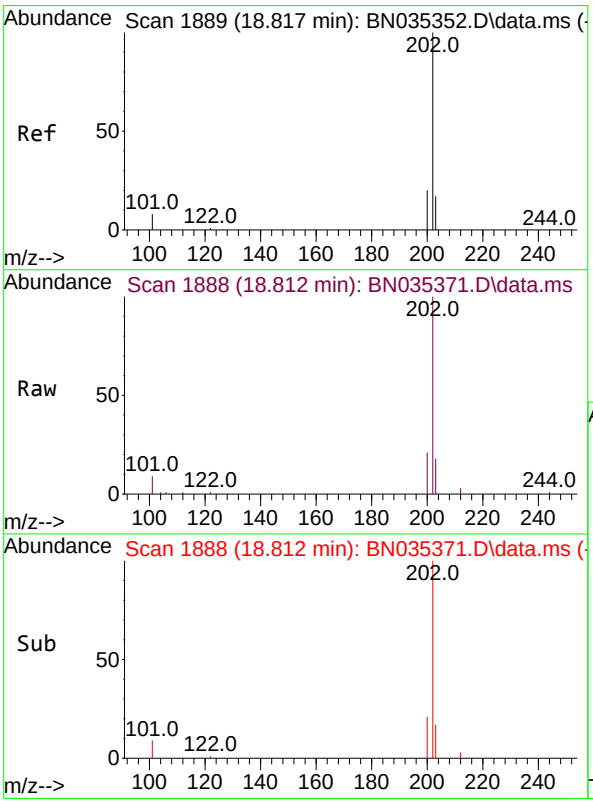
#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:212 Resp: 10713

Ion	Ratio	Lower	Upper
212	100		
106	10.9	9.2	13.8
104	6.3	5.3	7.9

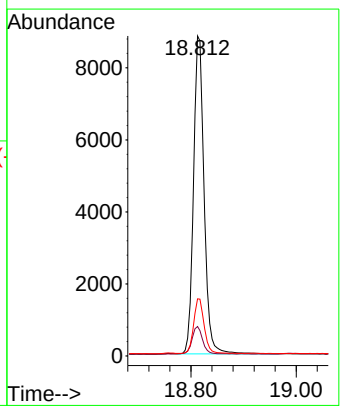


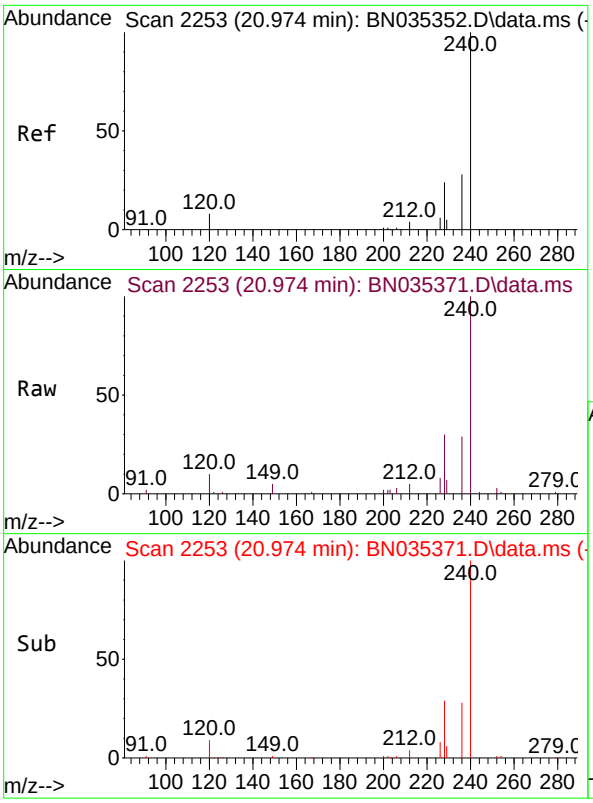


#28
Fluoranthene
Concen: 0.347 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:202 Resp: 12304

Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.4	11.0
203	17.0	13.7	20.5



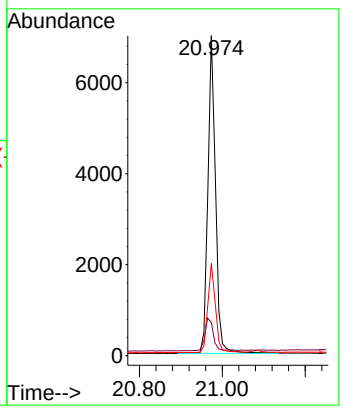


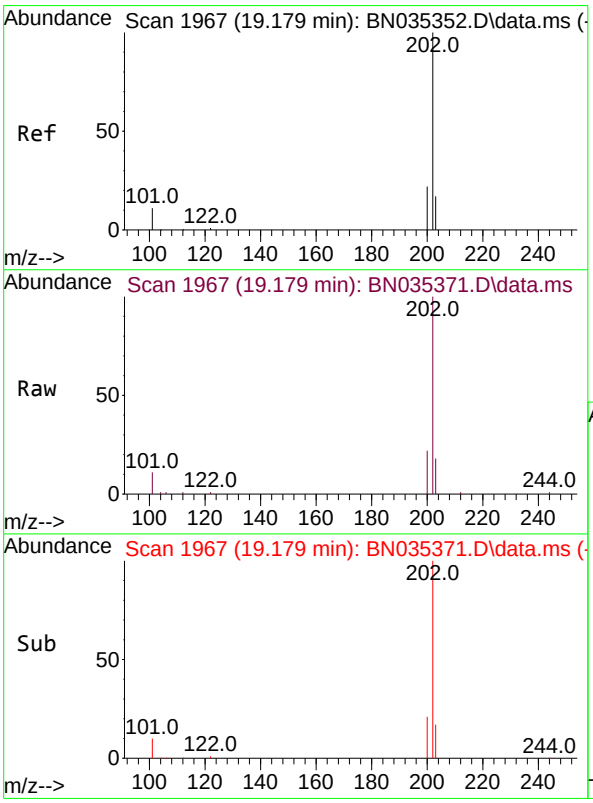
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:240 Resp: 8948

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.9	11.9
236	28.8	22.9	34.3

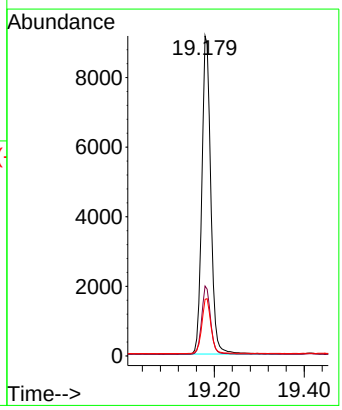


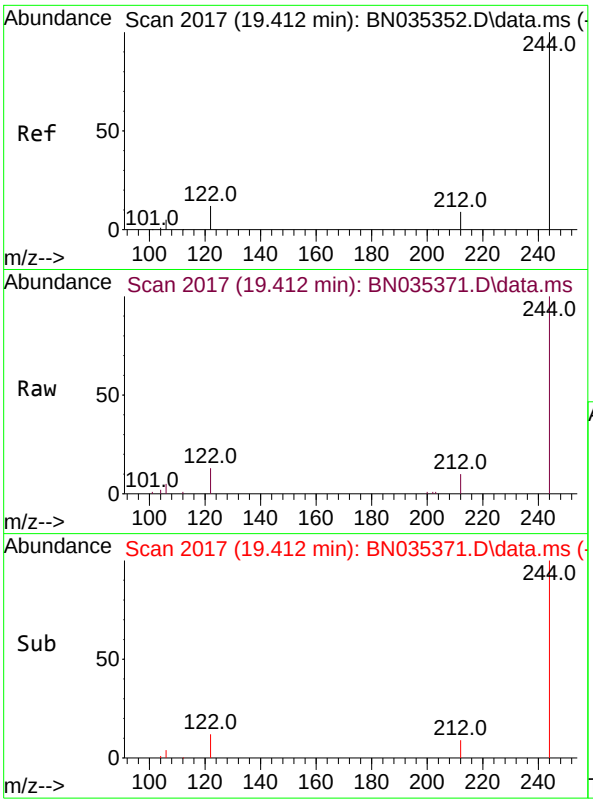


#30
Pyrene
Concen: 0.384 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:202 Resp: 12695

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.6	14.3	21.5



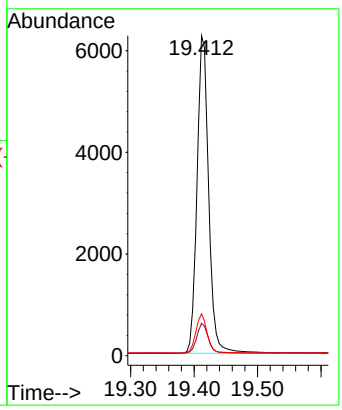


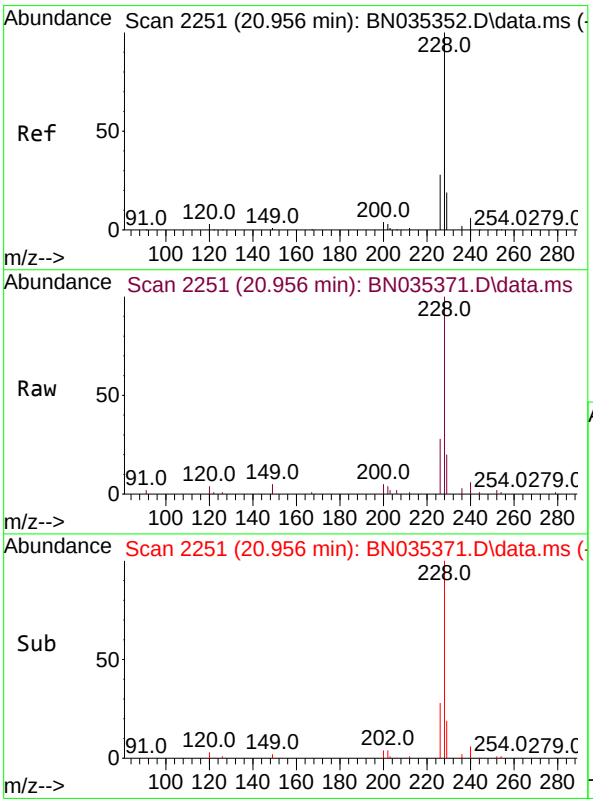
#31
Terphenyl-d14
Concen: 0.451 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:244 Resp: 7957

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	13.1	10.3	15.5

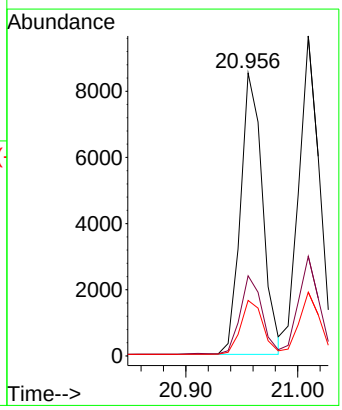


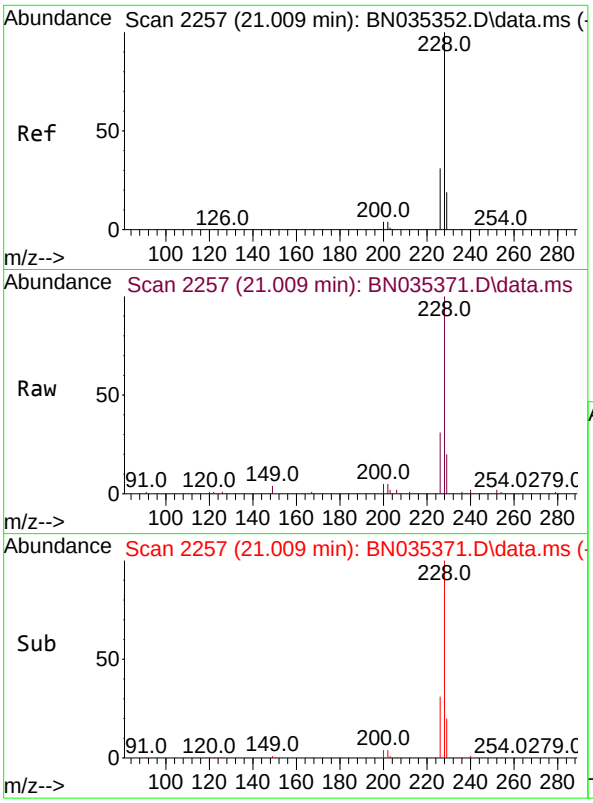


#32
Benzo(a)anthracene
Concen: 0.371 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:228 Resp: 11626

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	19.6	15.8	23.8



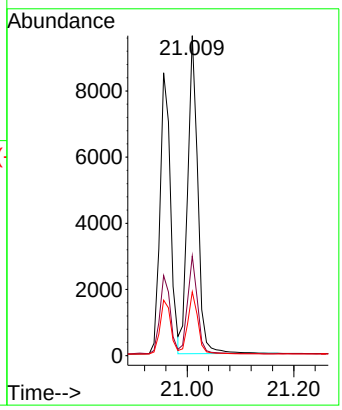


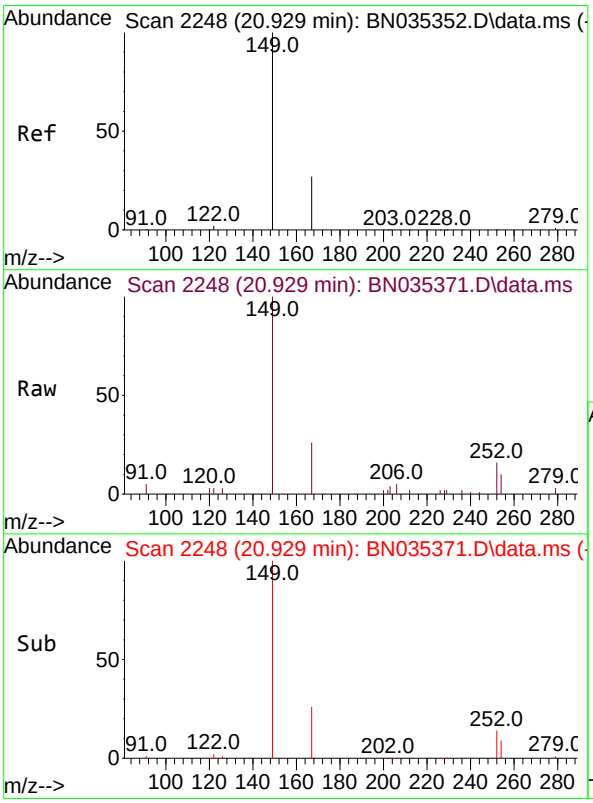
#33
Chrysene
Concen: 0.393 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:228 Resp: 12682

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	20.0	15.9	23.9

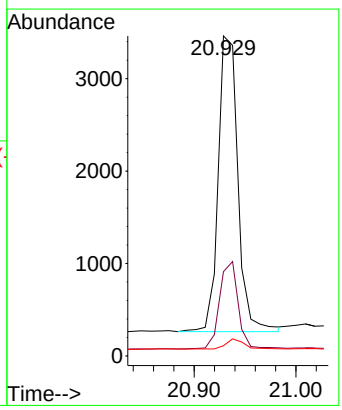


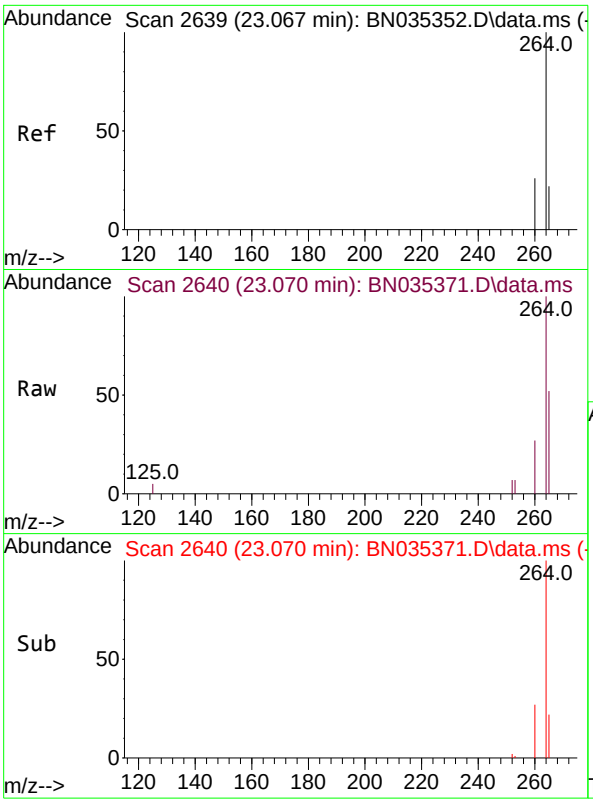


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.348 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:149 Resp: 4303

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	3.3	2.7	4.1



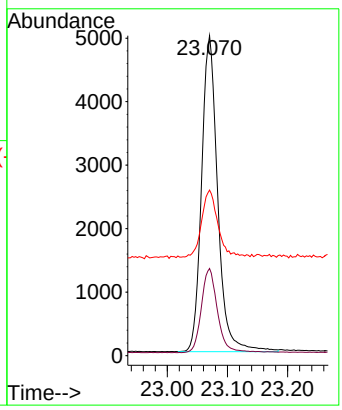


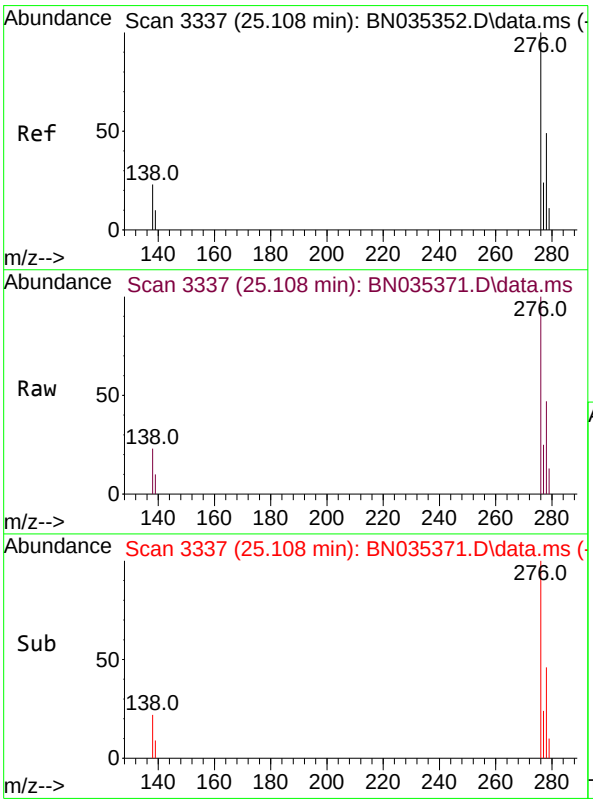
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:264 Resp: 9280

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	51.7	40.2	60.4

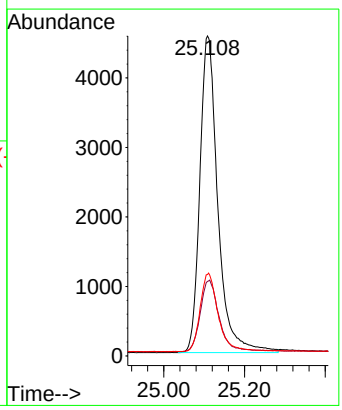


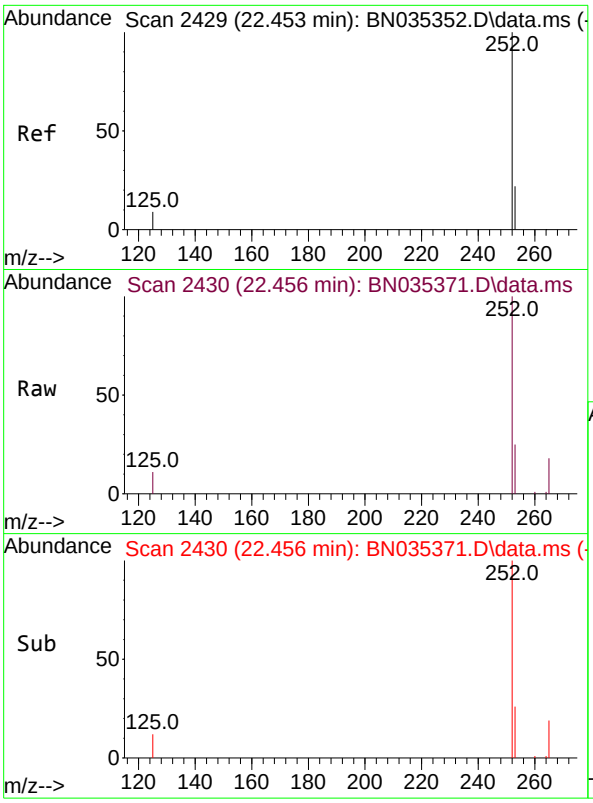


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:276 Resp: 14123

Ion	Ratio	Lower	Upper
276	100		
138	23.3	19.4	29.0
277	24.7	19.8	29.6



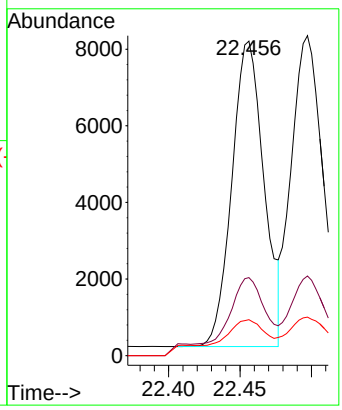


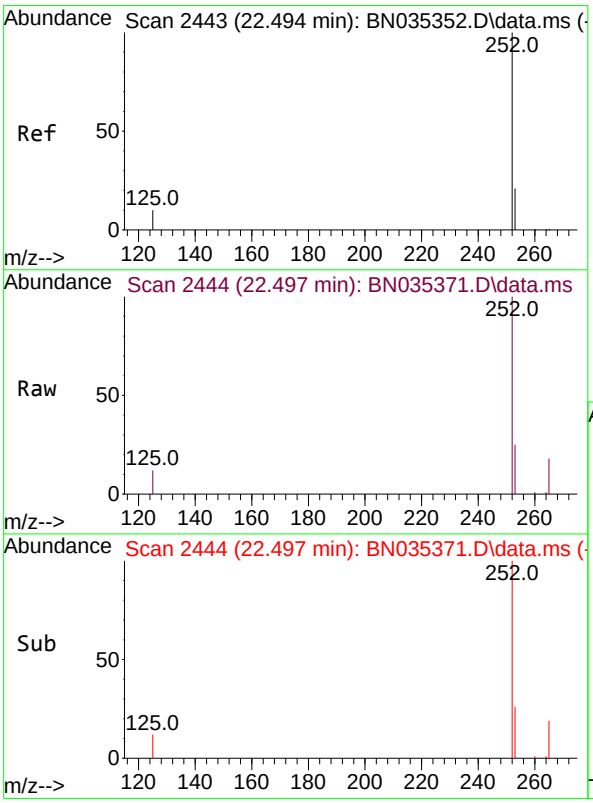
#37
Benzo(b)fluoranthene
Concen: 0.367 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:252 Resp: 12457

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.6	29.4
125	11.4	9.6	14.4

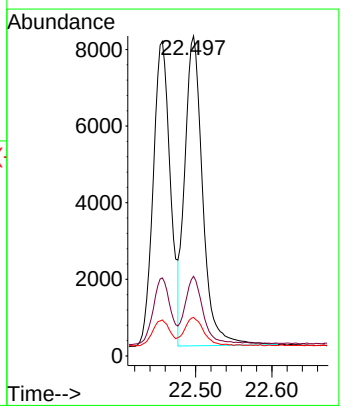


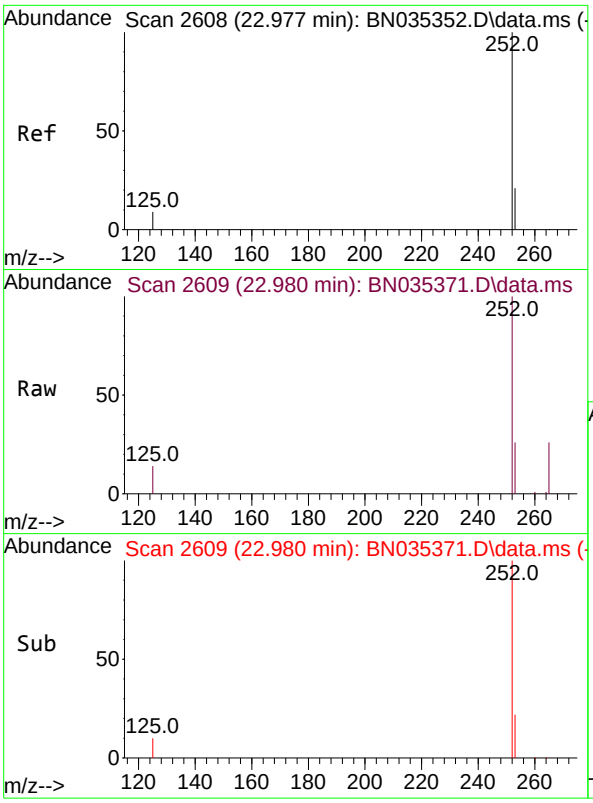


#38
Benzo(k)fluoranthene
Concen: 0.394 ng
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:252 Resp: 13182

Ion	Ratio	Lower	Upper
252	100		
253	24.9	19.5	29.3
125	12.1	10.2	15.4



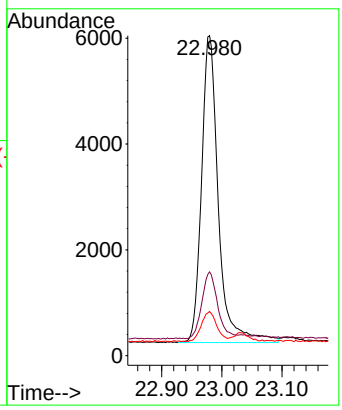


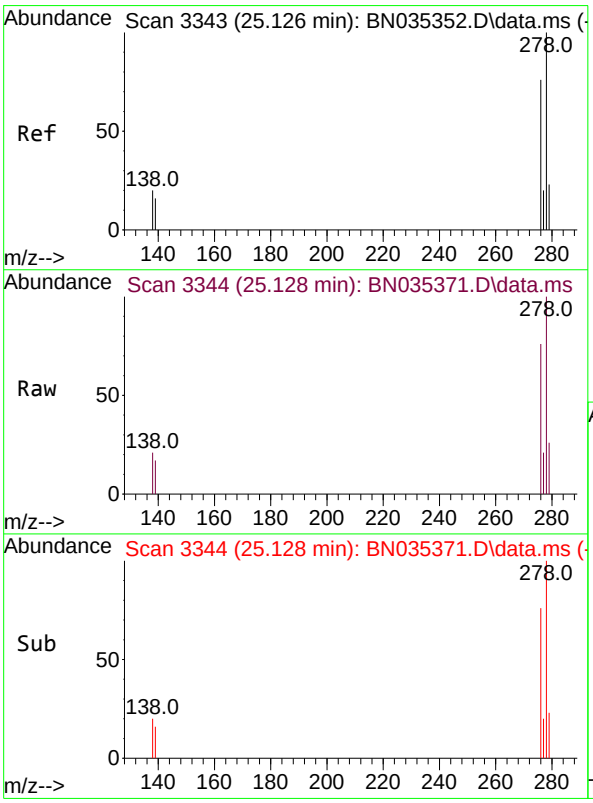
#39
Benzo(a)pyrene
Concen: 0.403 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:252 Resp: 11277

Ion	Ratio	Lower	Upper
252	100		
253	26.2	20.2	30.4
125	13.8	10.9	16.3

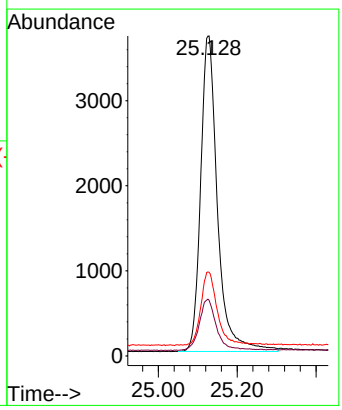


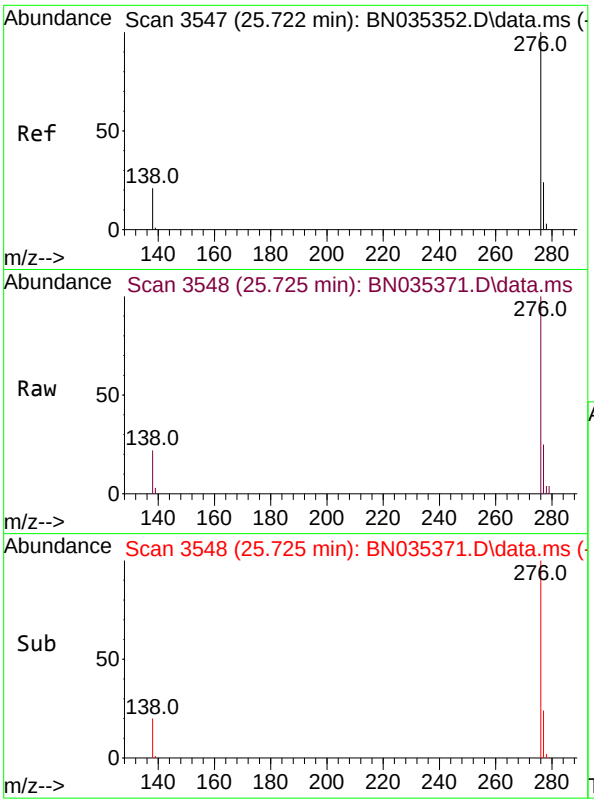


#40
Dibenzo(a,h)anthracene
Concen: 0.384 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Tgt Ion:278 Resp: 10990

Ion	Ratio	Lower	Upper
278	100		
139	17.4	14.2	21.4
279	26.1	20.5	30.7



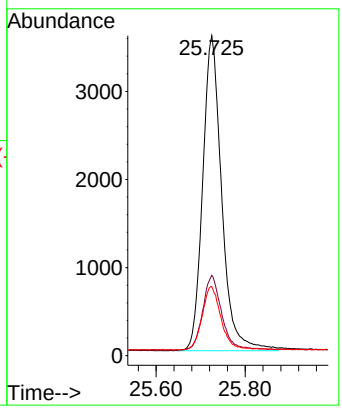


#41
Benzo(g,h,i)perylene
Concen: 0.355 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035371.D
Acq: 28 Nov 2024 06:39

Instrument :
BNA_N
ClientSampleId :
PB165198BSD

Tgt Ion:276 Resp: 10607

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	21.6	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035374.D
Acq On : 28 Nov 2024 08:26
Operator : RC/JU
Sample : P4959-01 5X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Quant Time: Dec 02 08:42:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

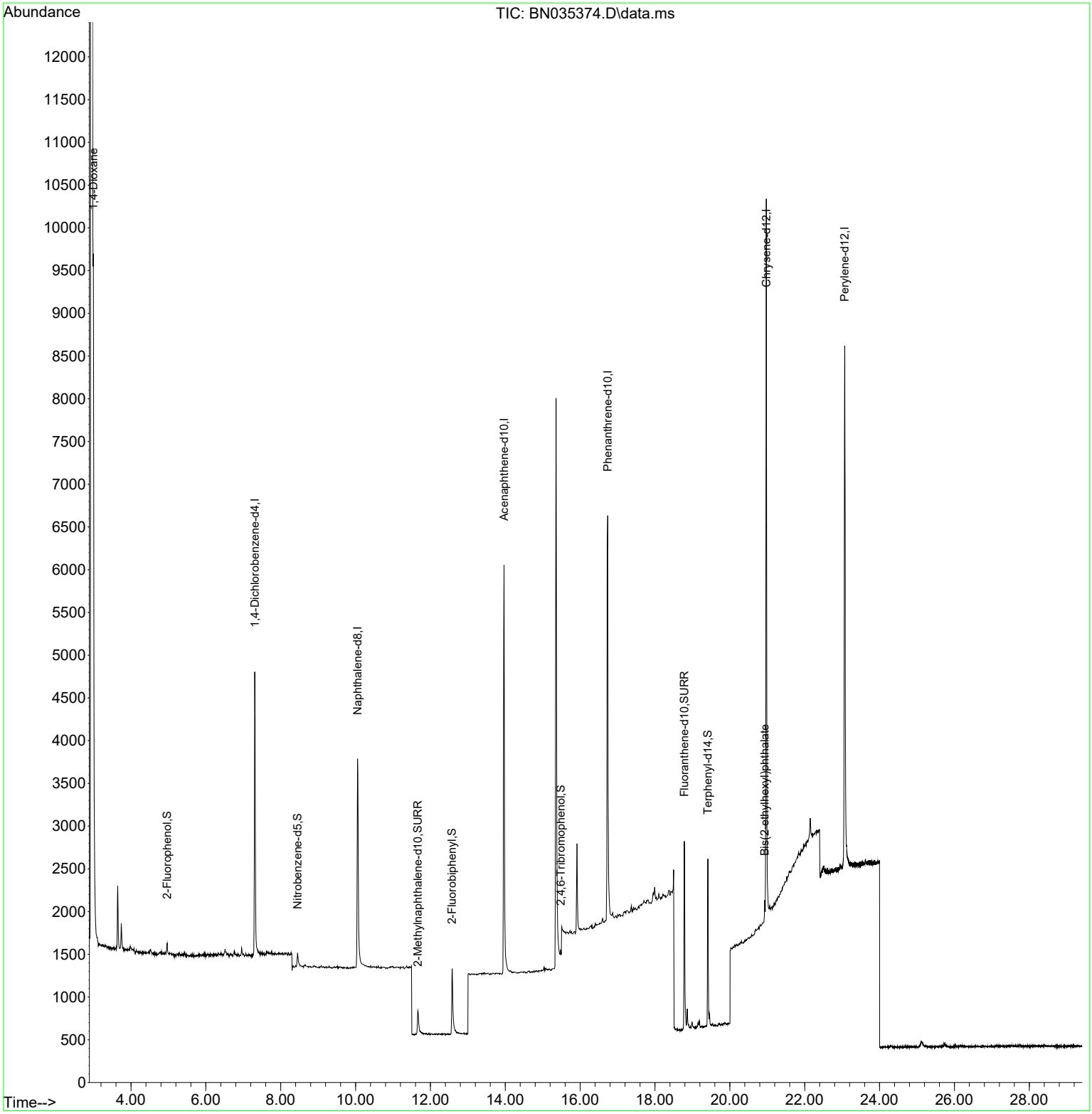
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1752	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4244	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3218	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	8380	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	7890	0.400	ng	0.00
35) Perylene-d12	23.067	264	7953	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	133	0.030	ng	0.00
5) Phenol-d6	6.513	99	78	0.015	ng	0.00
8) Nitrobenzene-d5	8.450	82	389	0.150	ng	0.01
11) 2-Methylnaphthalene-d10	11.666	152	652	0.098	ng	0.01
14) 2,4,6-Tribromophenol	15.485	330	129	0.056	ng	0.01
15) 2-Fluorobiphenyl	12.579	172	1075	0.088	ng	0.00
27) Fluoranthene-d10	18.785	212	2744	0.116	ng	0.00
31) Terphenyl-d14	19.412	244	2060	0.132	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	3433	2.050	ng	96
34) Bis(2-ethylhexyl)phtha...	20.929	149	312	0.029	ng	# 93

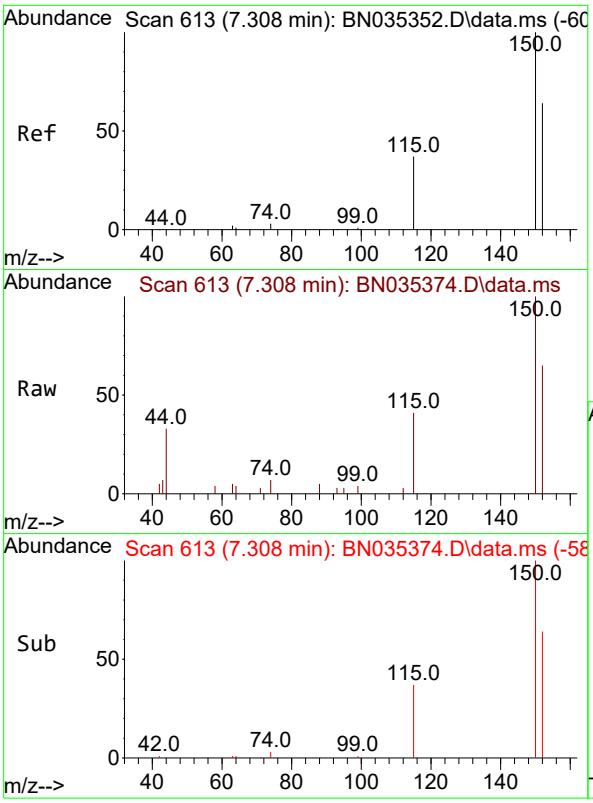
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035374.D
Acq On : 28 Nov 2024 08:26
Operator : RC/JU
Sample : P4959-01 5X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Quant Time: Dec 02 08:42:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



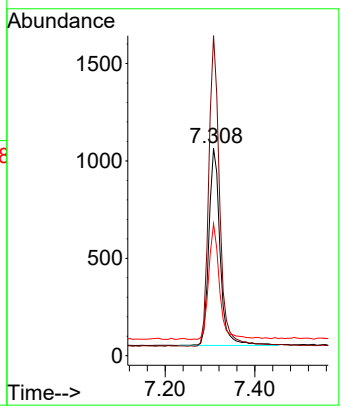


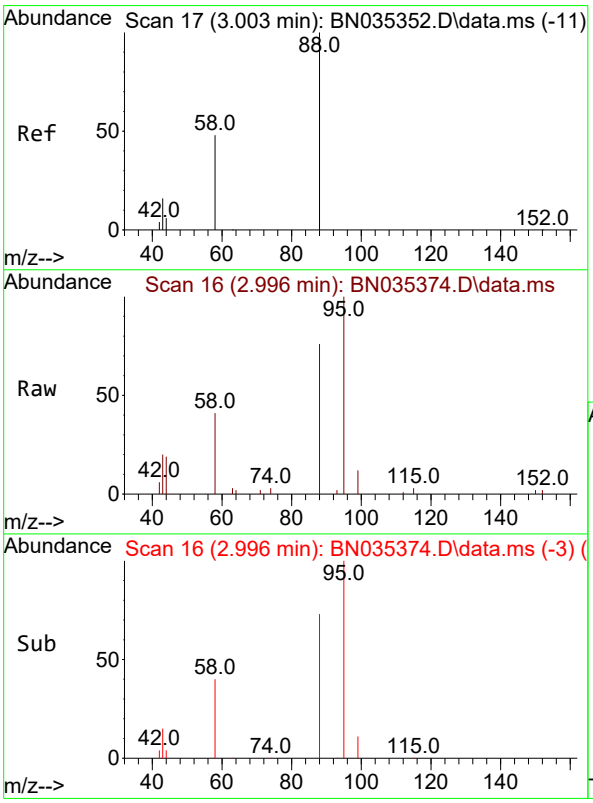
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:152 Resp: 1752

Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.0	186.0
115	63.6	49.6	74.4

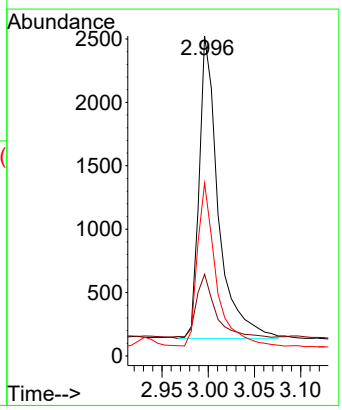


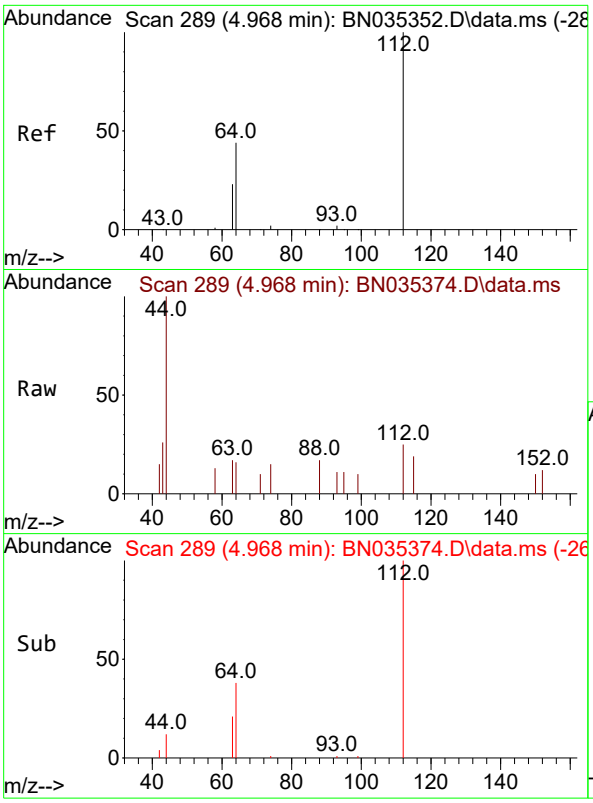


#2
1,4-Dioxane
Concen: 2.050 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion: 88 Resp: 3433

Ion	Ratio	Lower	Upper
88	100		
43	20.4	17.2	25.8
58	52.1	44.5	66.7



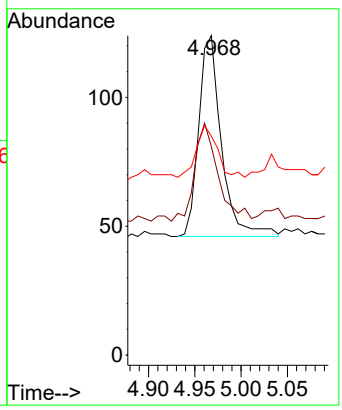


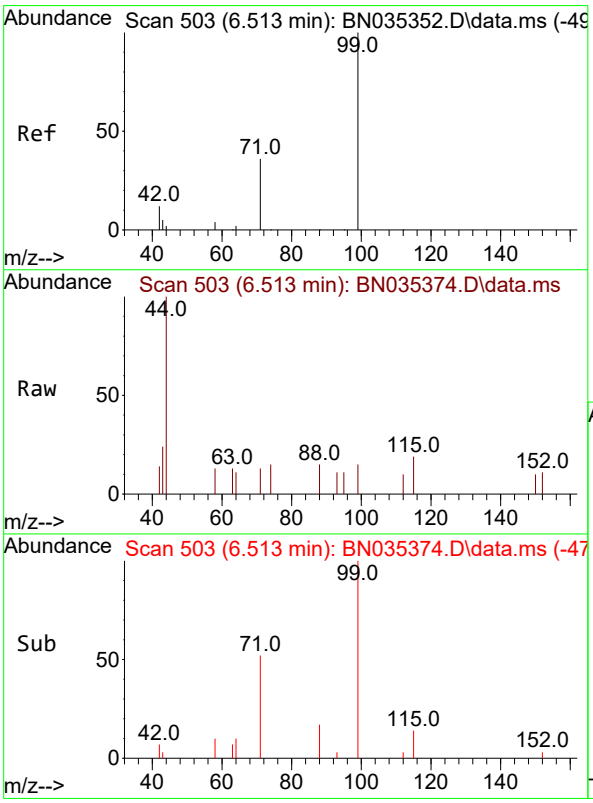
#4
2-Fluorophenol
Concen: 0.030 ng
RT: 4.968 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:112 Resp: 133

Ion	Ratio	Lower	Upper
112	100		
64	50.4	39.8	59.8
63	27.8	21.0	31.6

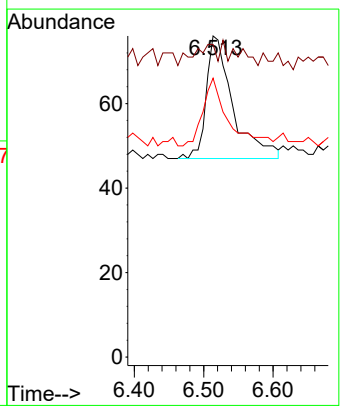


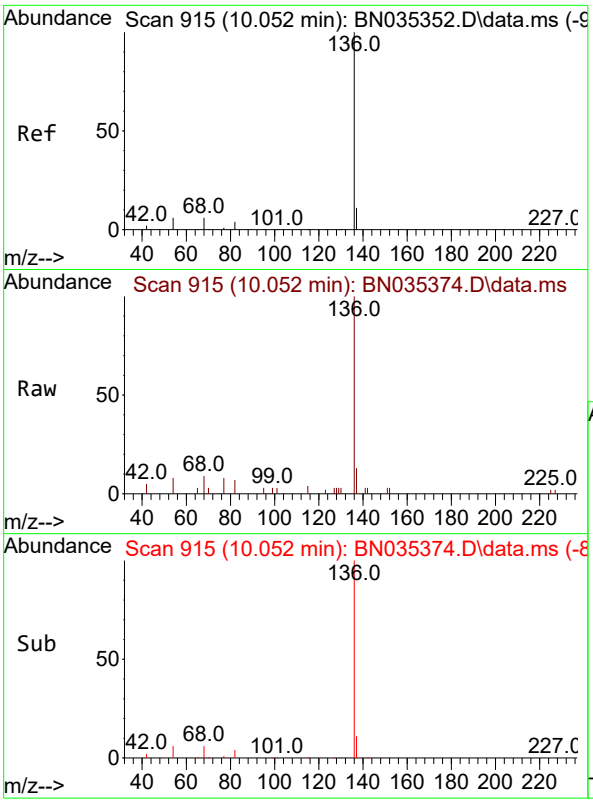


#5
Phenol-d6
Concen: 0.015 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion: 99 Resp: 78

Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	56.4	29.3	43.9#



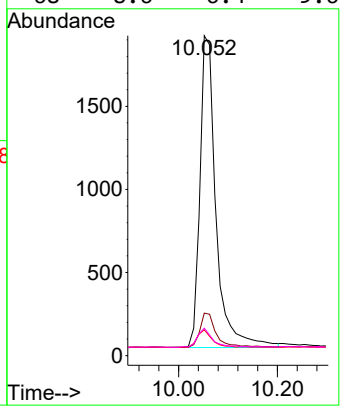


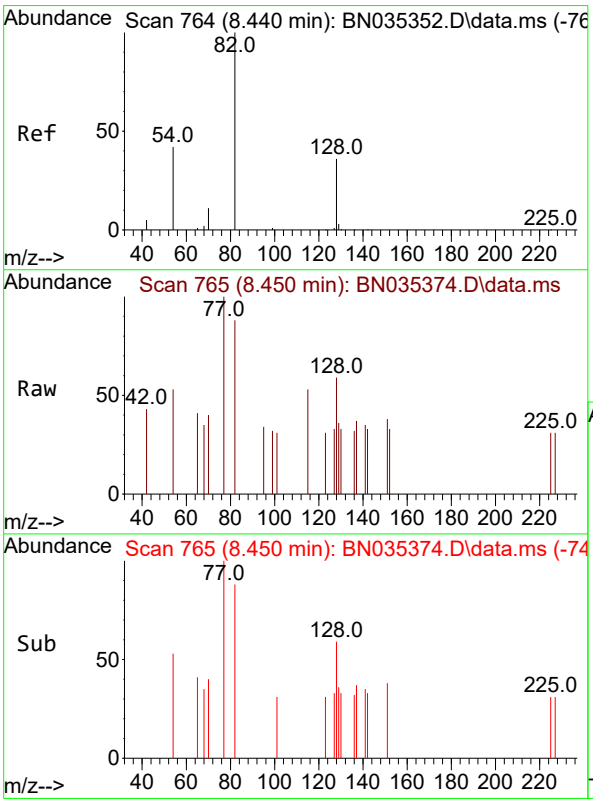
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:136 Resp: 4244

Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.2	15.2
54	8.1	6.1	9.1
68	8.6	6.4	9.6

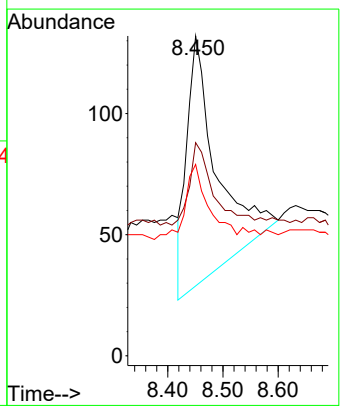


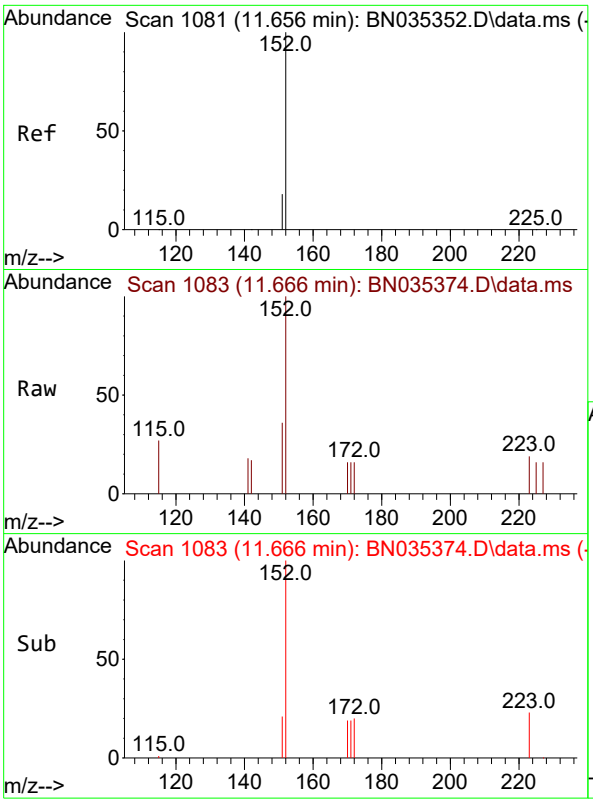


#8
Nitrobenzene-d5
Concen: 0.150 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion: 82 Resp: 389

Ion	Ratio	Lower	Upper
82	100		
128	66.7	33.4	50.0#
54	59.8	36.7	55.1#



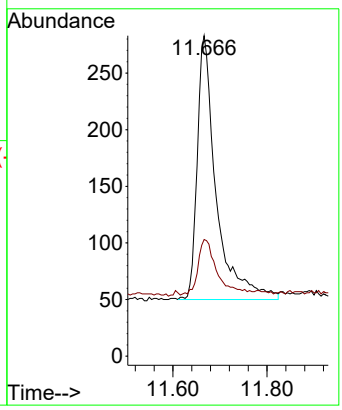


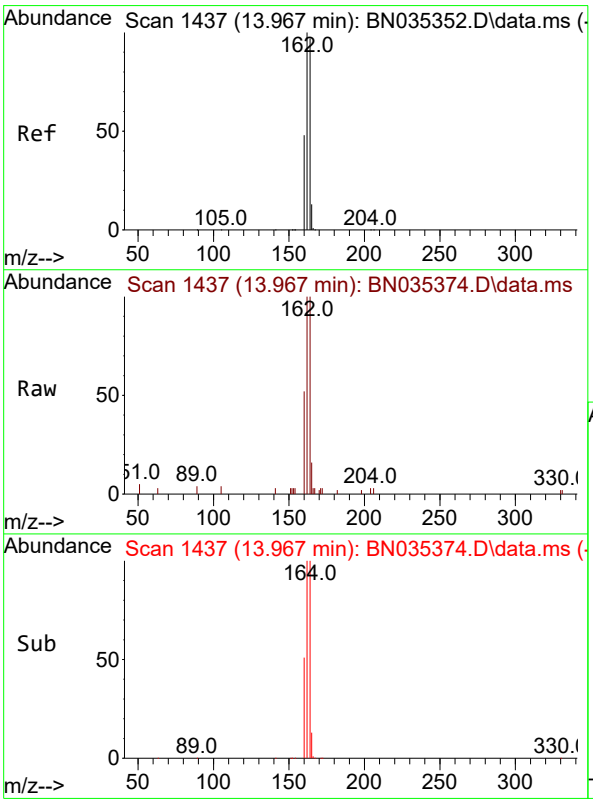
#11
2-Methylnaphthalene-d10
Concen: 0.098 ng
RT: 11.666 min Scan# 1
Delta R.T. 0.010 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:152 Resp: 652

Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.6	25.0

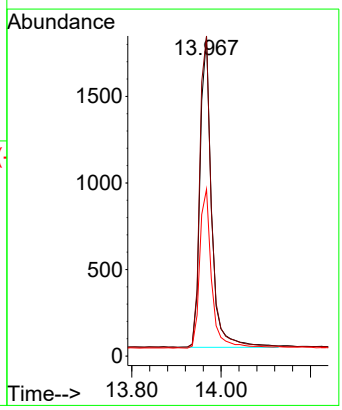


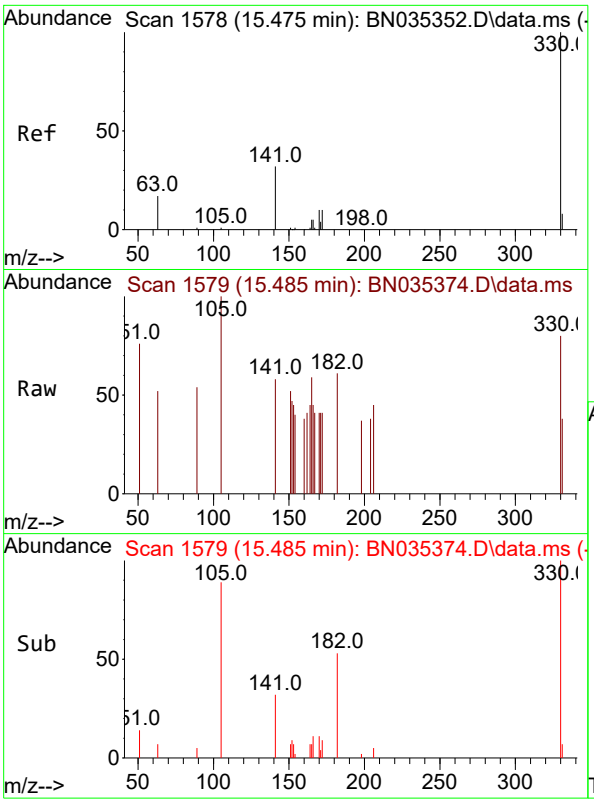


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion:164 Resp: 3218

Ion	Ratio	Lower	Upper
164	100		
162	100.1	82.2	123.2
160	52.2	40.1	60.1



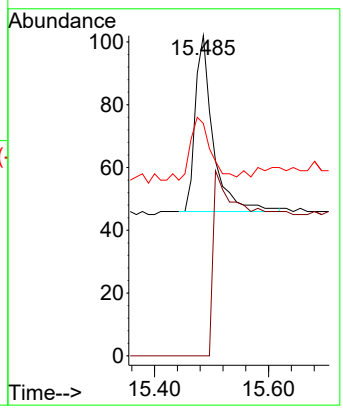


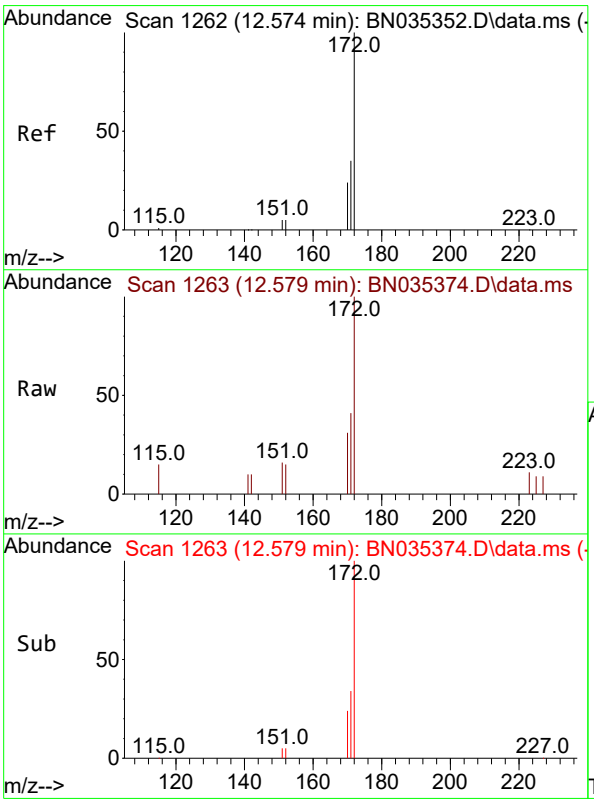
#14
2,4,6-Tribromophenol
Concen: 0.056 ng
RT: 15.485 min Scan# 1
Delta R.T. 0.011 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:330 Resp: 129

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	39.5	26.6	40.0

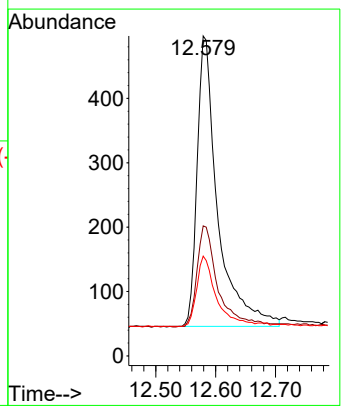


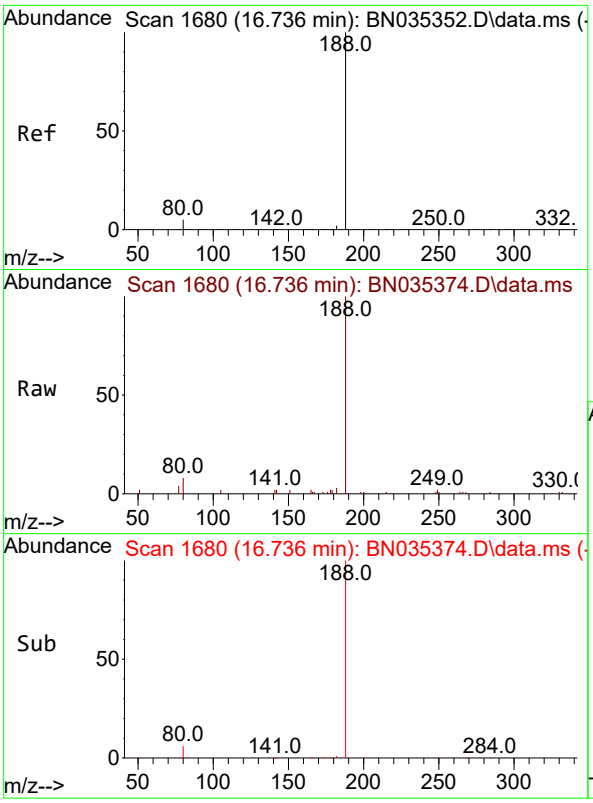


#15
2-Fluorobiphenyl
Concen: 0.088 ng
RT: 12.579 min Scan# 1263
Delta R.T. 0.005 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion:172 Resp: 1075

Ion	Ratio	Lower	Upper
172	100		
171	40.6	29.0	43.4
170	31.2	19.8	29.8#



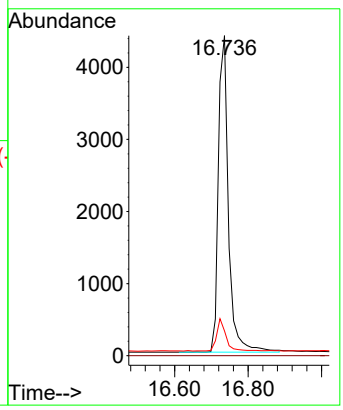


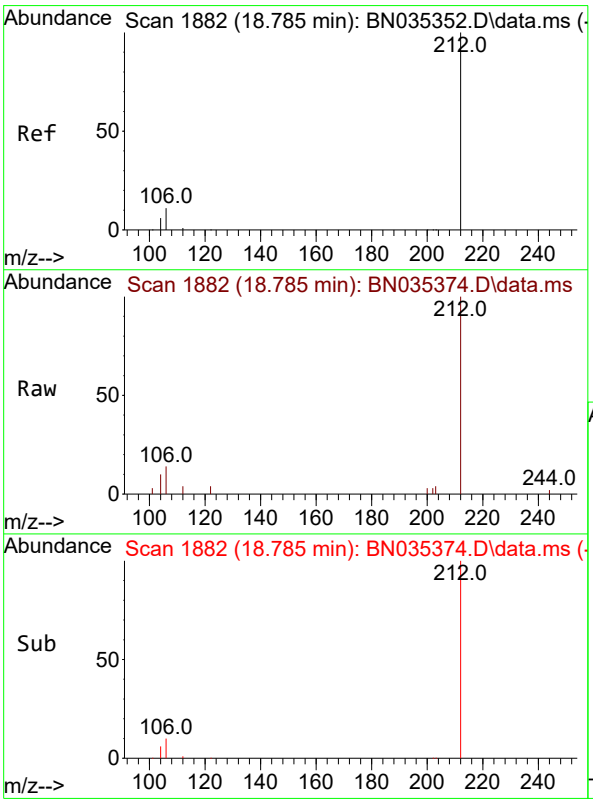
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:188 Resp: 8380

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#

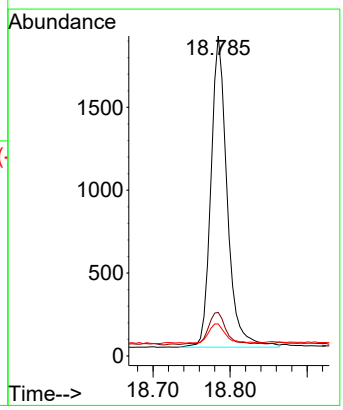


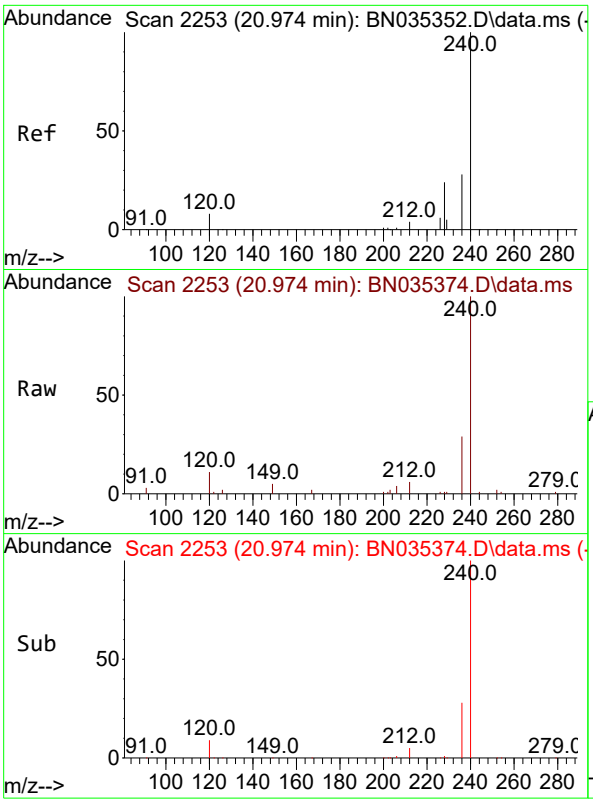


#27
Fluoranthene-d10
Concen: 0.116 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion:212 Resp: 2744

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.7	5.3	7.9



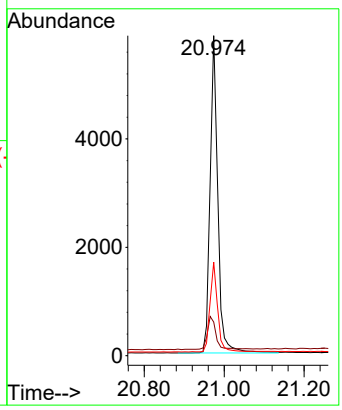


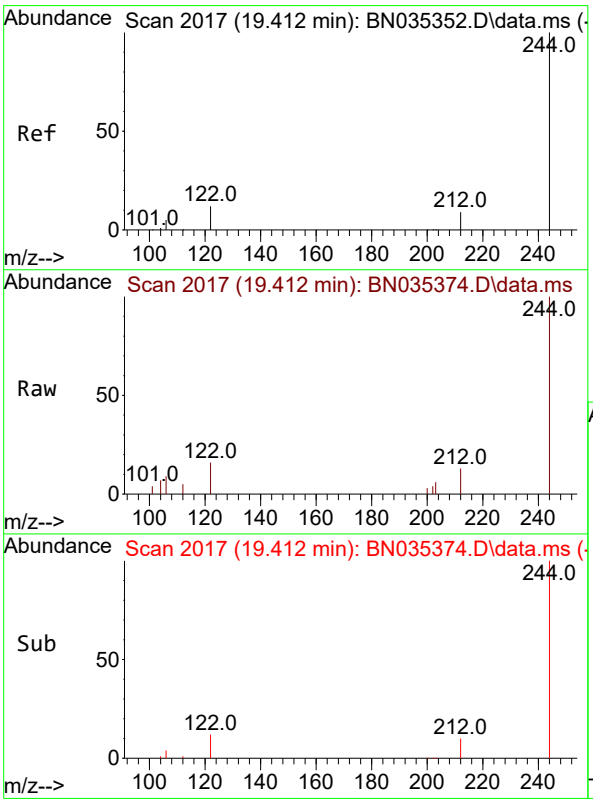
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:240 Resp: 7890

Ion	Ratio	Lower	Upper
240	100		
120	10.5	7.9	11.9
236	29.2	22.9	34.3

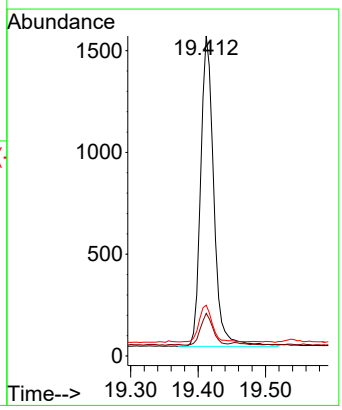


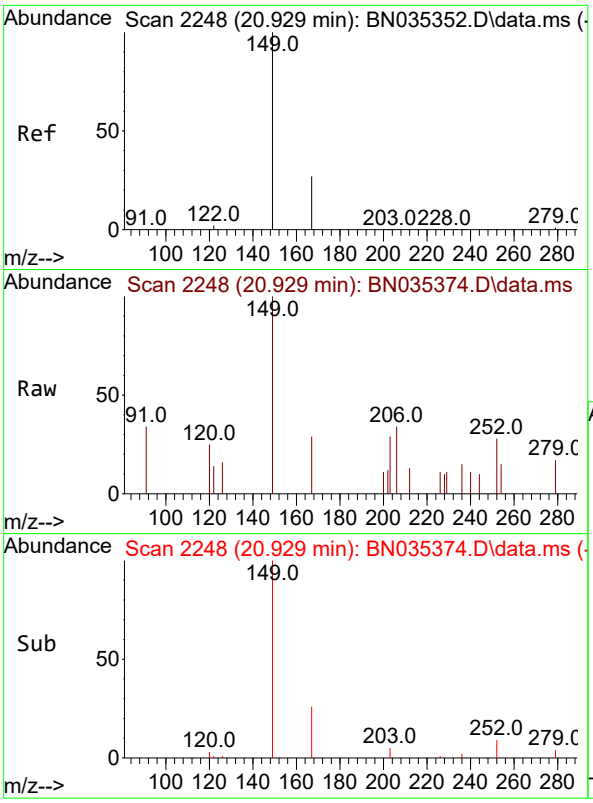


#31
Terphenyl-d14
Concen: 0.132 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion:244 Resp: 2060

Ion	Ratio	Lower	Upper
244	100		
212	13.3	8.1	12.1#
122	15.8	10.3	15.5#



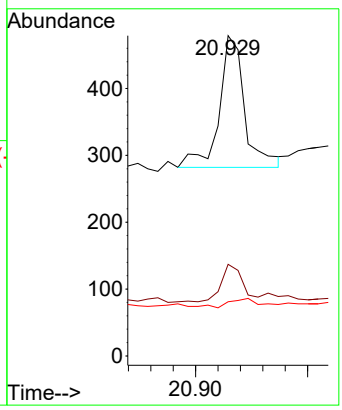


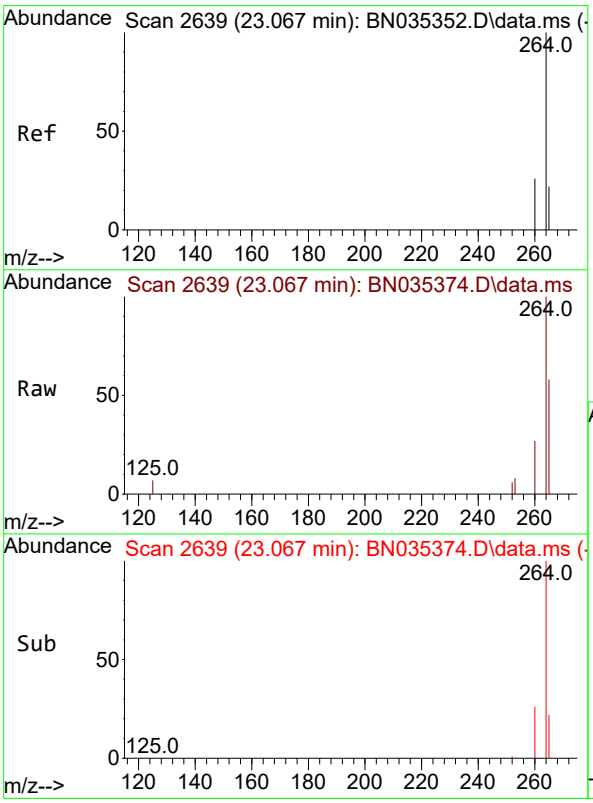
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.029 ng
RT: 20.929 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241121

Tgt Ion:149 Resp: 312

Ion	Ratio	Lower	Upper
149	100		
167	24.0	22.2	33.4
279	6.4	2.7	4.1#

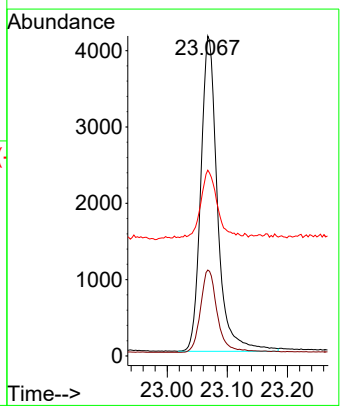




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035374.D
Acq: 28 Nov 2024 08:26

Tgt Ion:264 Resp: 7953

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	58.1	40.2	60.4



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035375.D
Acq On : 28 Nov 2024 09:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Nov 29 00:19:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	1994	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5101	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3798	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	9566	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	9222	0.400	ng		0.00
35) Perylene-d12	23.067	264	10081	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.960	112	2006	0.402	ng		0.00
5) Phenol-d6	6.513	99	2417	0.403	ng		0.00
8) Nitrobenzene-d5	8.440	82	1412	0.453	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	3130	0.392	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	1011	0.375	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	5760	0.401	ng		0.00
27) Fluoranthene-d10	18.785	212	10104	0.373	ng		0.00
31) Terphenyl-d14	19.412	244	7255	0.399	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	754	0.396	ng		98
3) n-Nitrosodimethylamine	3.292	42	628	0.396	ng	#	98
6) bis(2-Chloroethyl)ether	6.759	93	1960	0.389	ng		100
9) Naphthalene	10.105	128	5328	0.396	ng		99
10) Hexachlorobutadiene	10.404	225	1326	0.427	ng	#	98
12) 2-Methylnaphthalene	11.732	142	3793	0.394	ng		97
16) Acenaphthylene	13.679	152	6028	0.378	ng		99
17) Acenaphthene	14.031	154	4106	0.388	ng		99
18) Fluorene	15.026	166	5935	0.392	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	357	0.380	ng		91
21) 4-Bromophenyl-phenylether	15.941	248	2206	0.394	ng		100
22) Hexachlorobenzene	16.040	284	2655	0.404	ng		99
23) Atrazine	16.227	200	1384	0.347	ng		98
24) Pentachlorophenol	16.400	266	973	0.340	ng	#	84
25) Phenanthrene	16.773	178	10204	0.388	ng		100
26) Anthracene	16.860	178	8929	0.376	ng		100
28) Fluoranthene	18.812	202	13216	0.373	ng		99
30) Pyrene	19.179	202	13731	0.403	ng		100
32) Benzo(a)anthracene	20.956	228	11985	0.372	ng		99
33) Chrysene	21.009	228	13365	0.402	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4380	0.344	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	15538	0.394	ng		99
37) Benzo(b)fluoranthene	22.453	252	13327	0.361	ng		99
38) Benzo(k)fluoranthene	22.494	252	14406	0.397	ng		99
39) Benzo(a)pyrene	22.977	252	10891	0.359	ng		99
40) Dibenzo(a,h)anthracene	25.123	278	12092	0.389	ng		99
41) Benzo(g,h,i)perylene	25.722	276	12501	0.385	ng		99

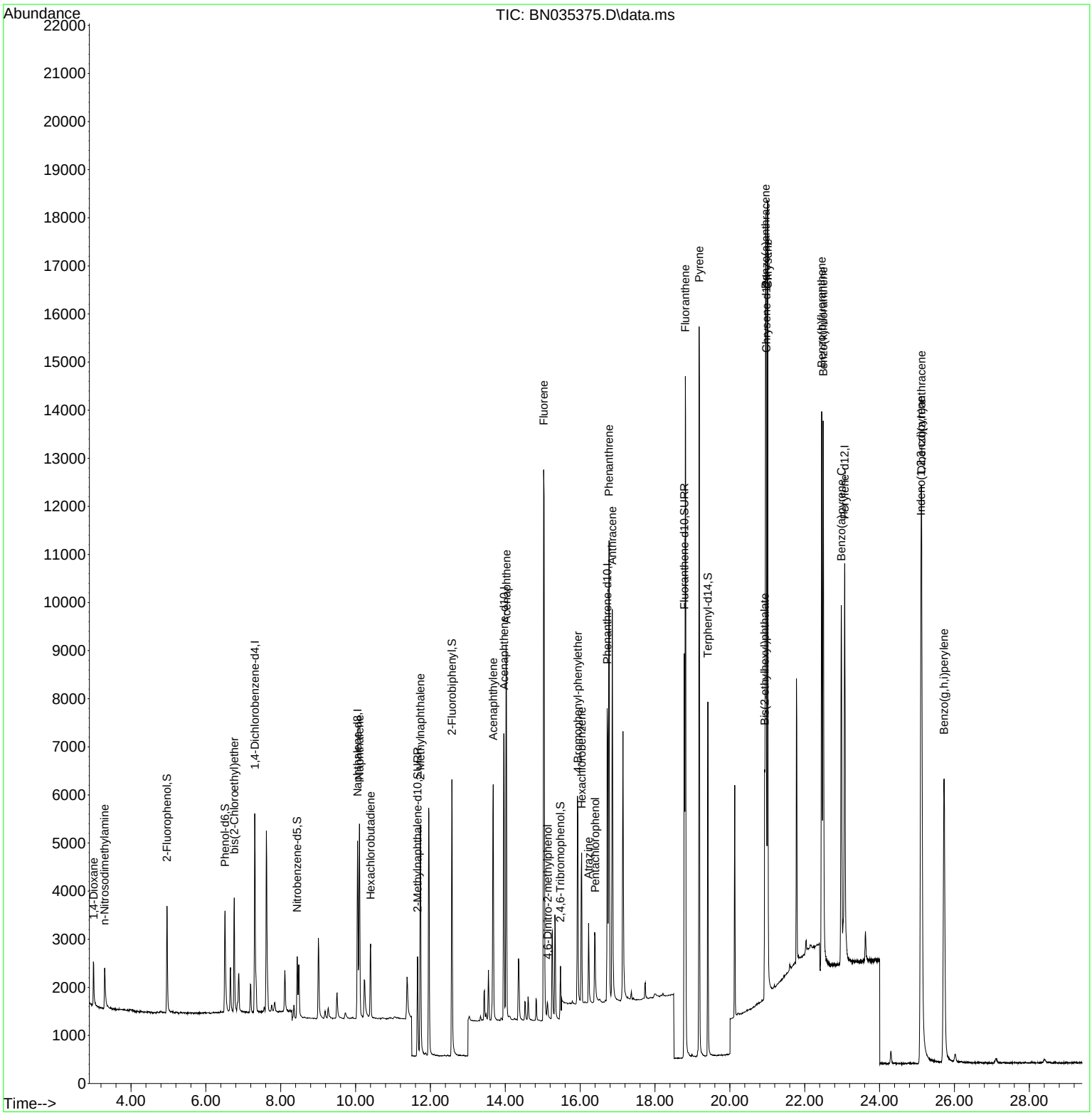
(#) = qualifier out of range (m) = manual integration (+) = signals summed

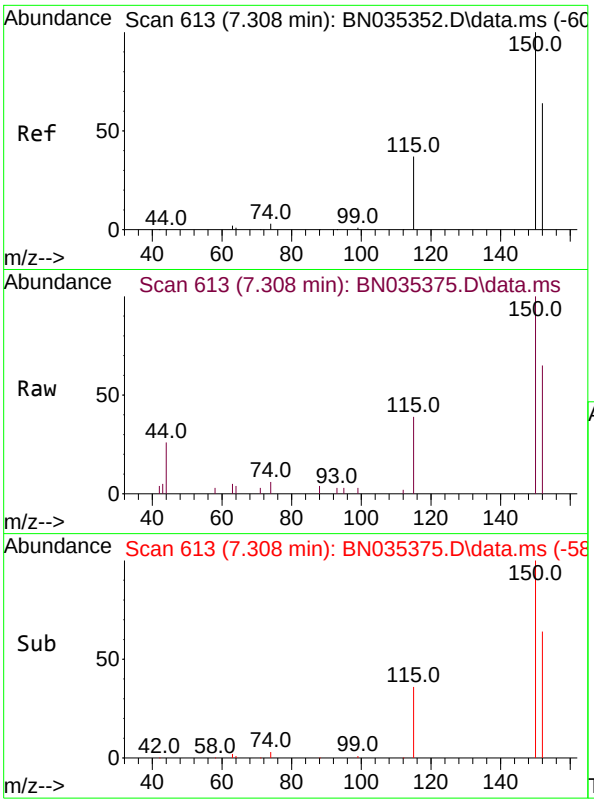
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035375.D
Acq On : 28 Nov 2024 09:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Nov 29 00:19:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



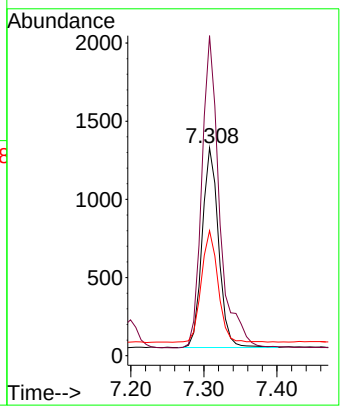


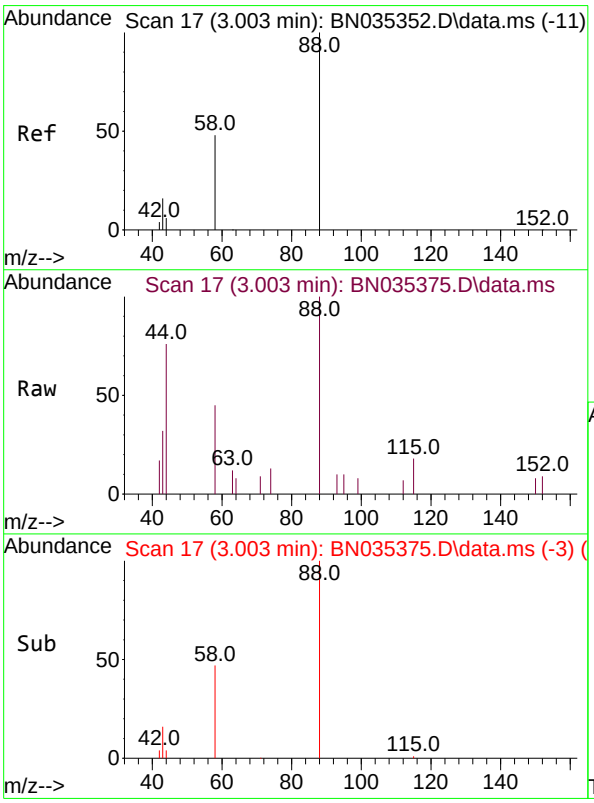
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1994

Ion	Ratio	Lower	Upper
152	100		
150	153.9	124.0	186.0
115	60.2	49.6	74.4

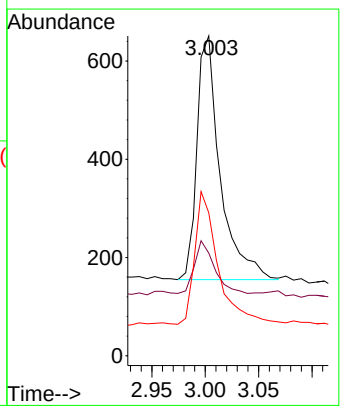


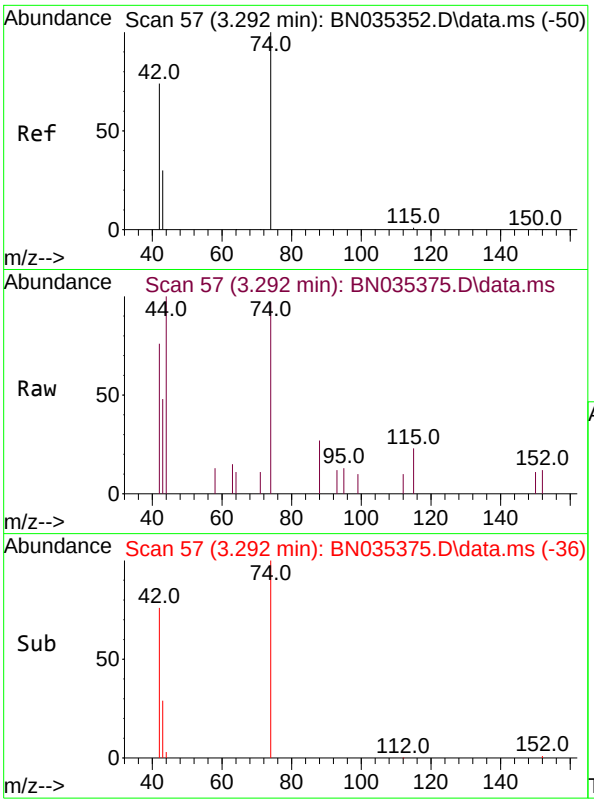


#2
1,4-Dioxane
Concen: 0.396 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion: 88 Resp: 754

Ion	Ratio	Lower	Upper
88	100		
43	20.6	17.2	25.8
58	53.8	44.5	66.7



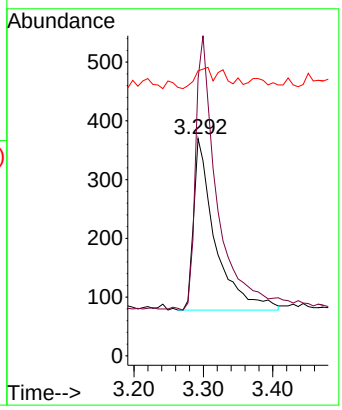


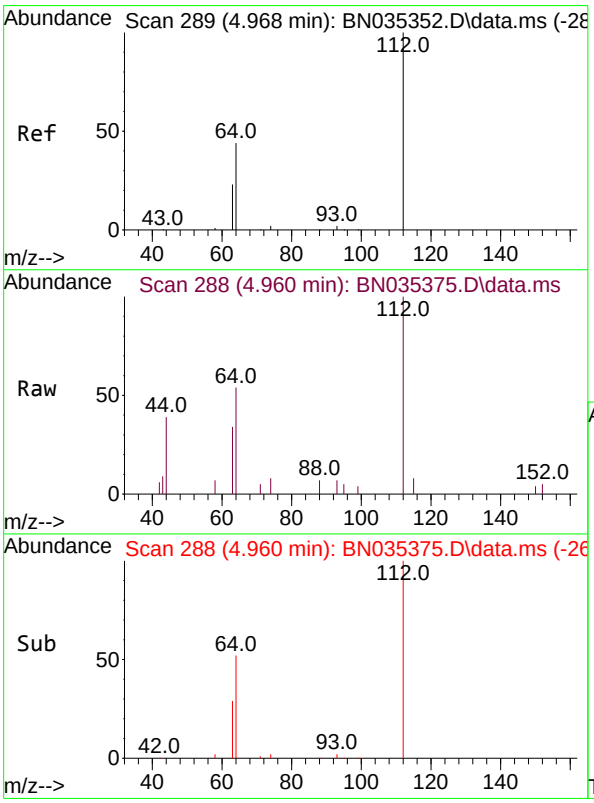
#3
n-Nitrosodimethylamine
Concen: 0.396 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 628

Ion	Ratio	Lower	Upper
42	100		
74	158.8	124.9	187.3
44	8.9	2.2	3.4#

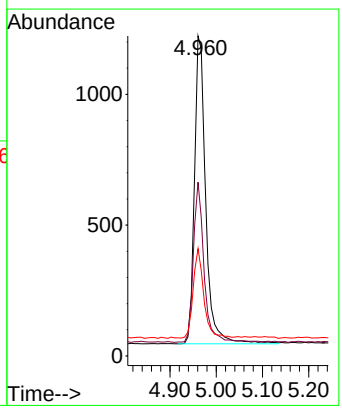


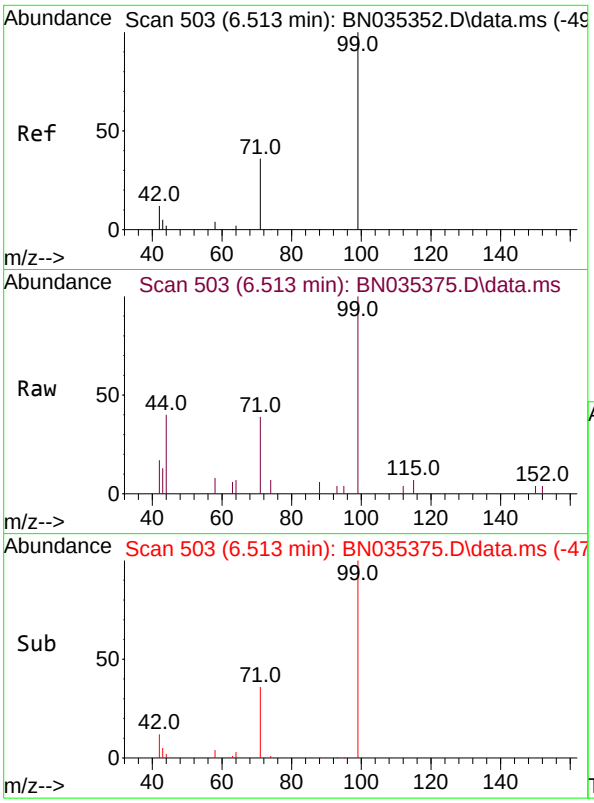


#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.960 min Scan# 288
Delta R.T. -0.007 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:112 Resp: 2006

Ion	Ratio	Lower	Upper
112	100		
64	48.5	39.8	59.8
63	27.4	21.0	31.6



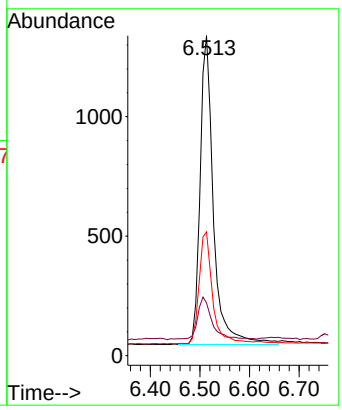


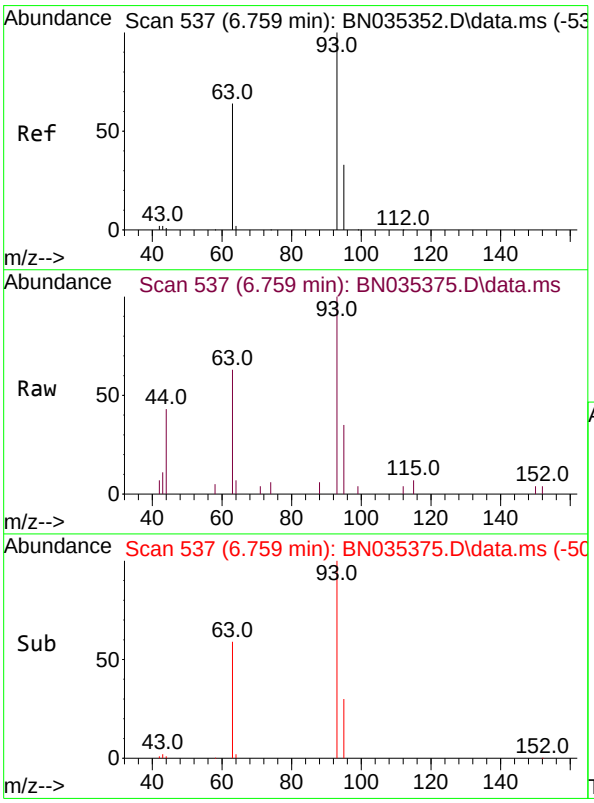
#5
Phenol-d6
Concen: 0.403 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 2417

Ion	Ratio	Lower	Upper
99	100		
42	15.5	11.4	17.2
71	36.5	29.3	43.9

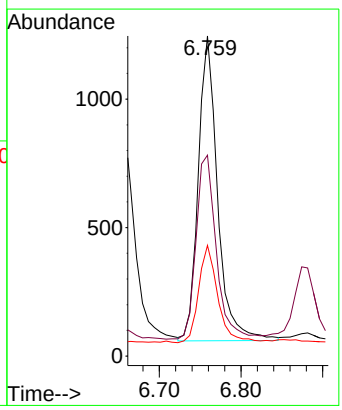


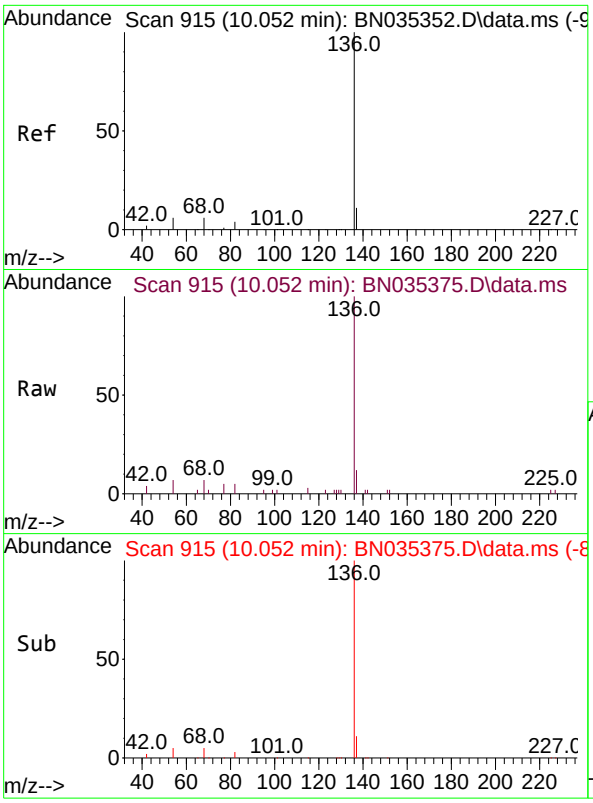


#6
bis(2-Chloroethyl)ether
Concen: 0.389 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion: 93 Resp: 1960

Ion	Ratio	Lower	Upper
93	100		
63	62.9	50.4	75.6
95	31.6	25.7	38.5



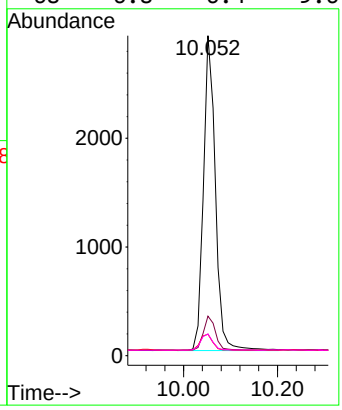


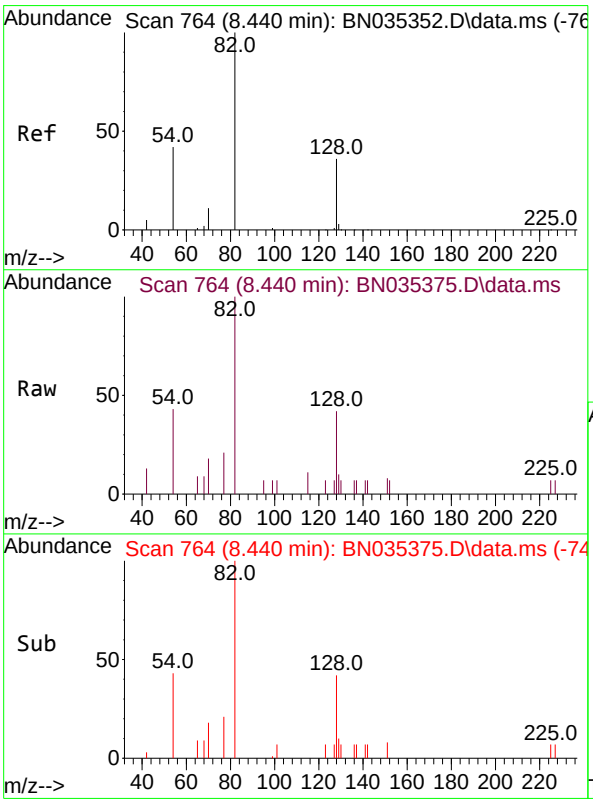
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 5101

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	6.7	6.1	9.1
68	6.8	6.4	9.6

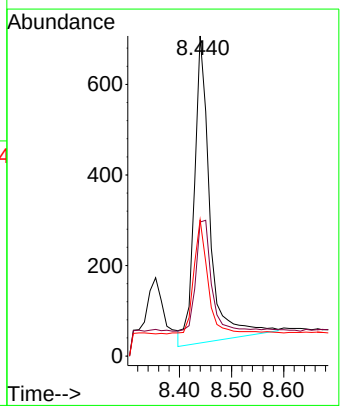


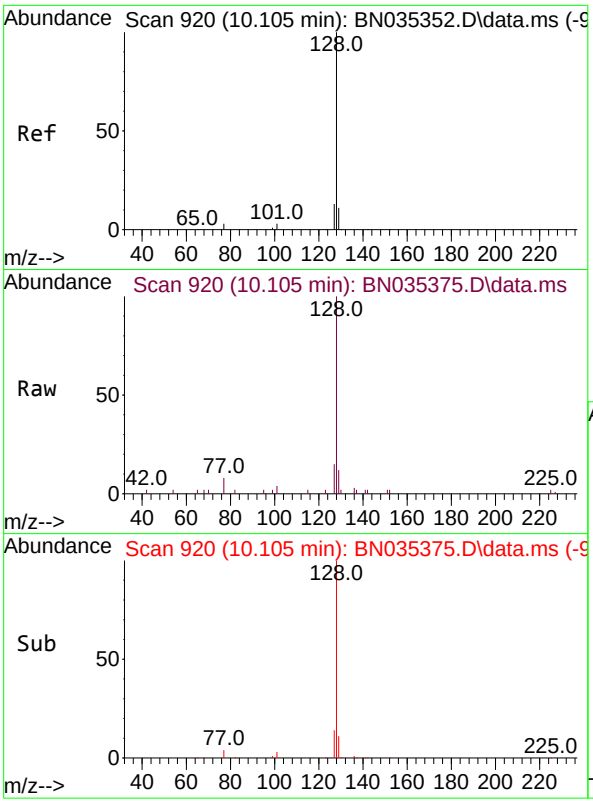


#8
Nitrobenzene-d5
Concen: 0.453 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion: 82 Resp: 1412

Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.4	50.0
54	42.6	36.7	55.1



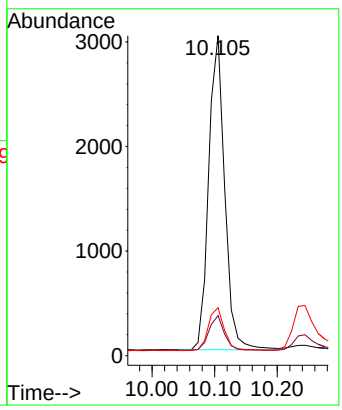


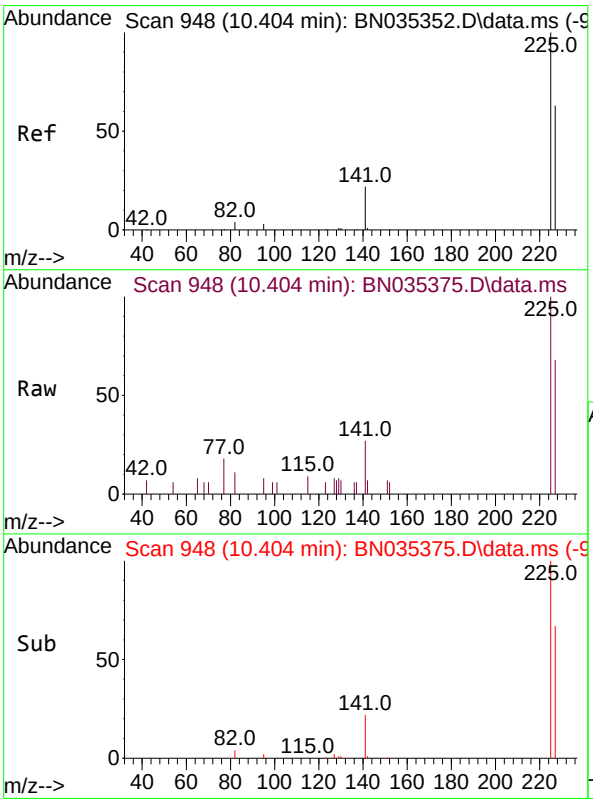
#9
Naphthalene
Concen: 0.396 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 5328

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	15.0	11.4	17.2

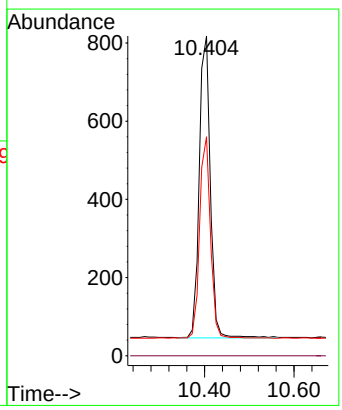


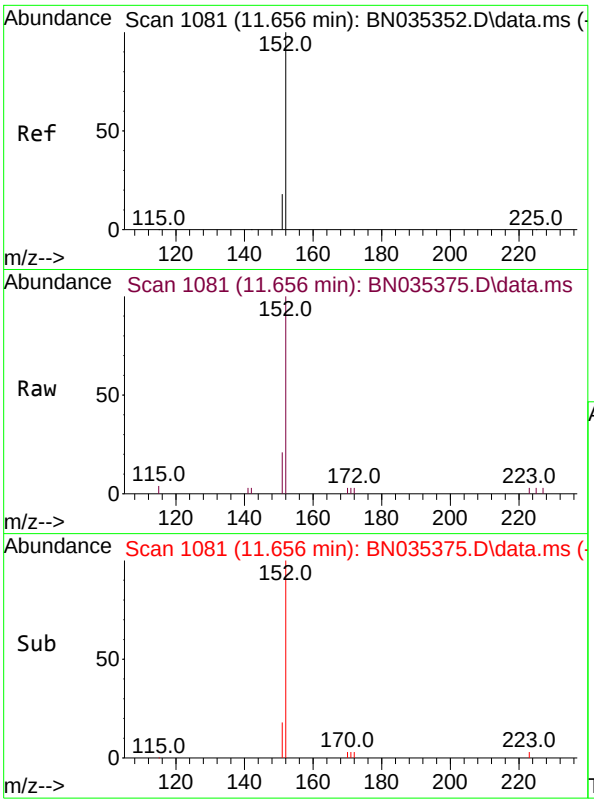


#10
Hexachlorobutadiene
Concen: 0.427 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:225 Resp: 1326

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	51.3	76.9



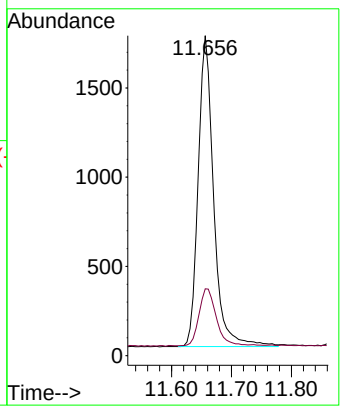


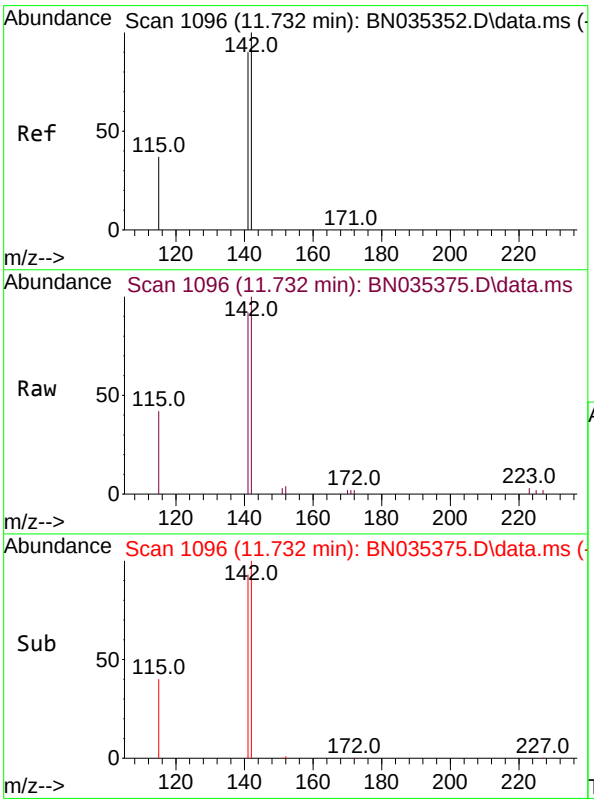
#11
2-Methylnaphthalene-d10
Concen: 0.392 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3130

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0

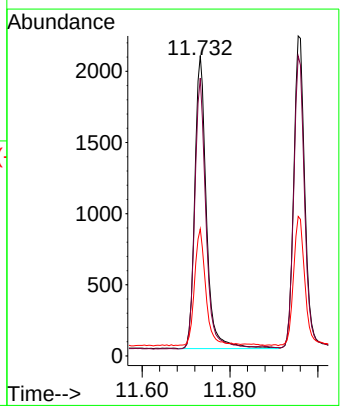


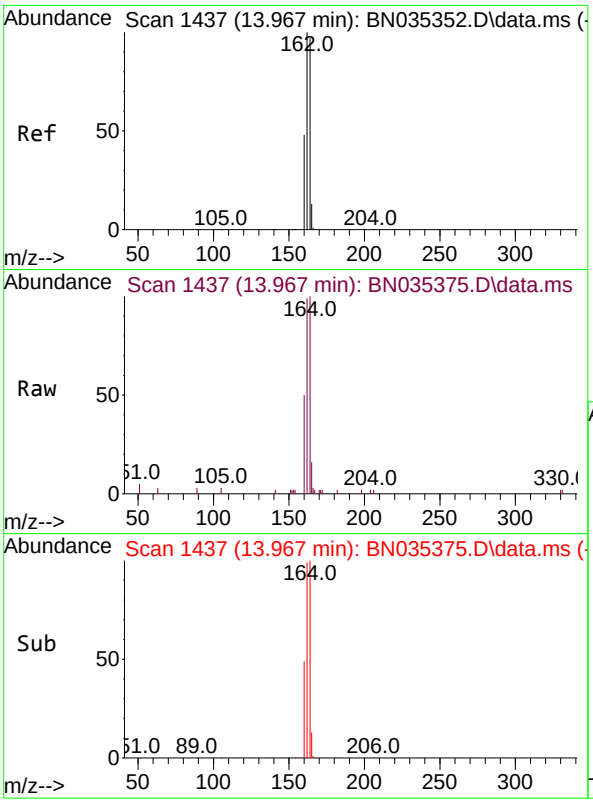


#12
2-Methylnaphthalene
Concen: 0.394 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:142 Resp: 3793

Ion	Ratio	Lower	Upper
142	100		
141	92.5	72.2	108.4
115	42.3	31.4	47.0



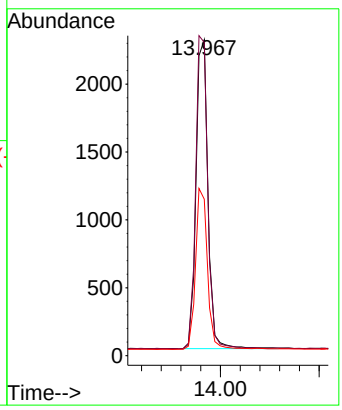


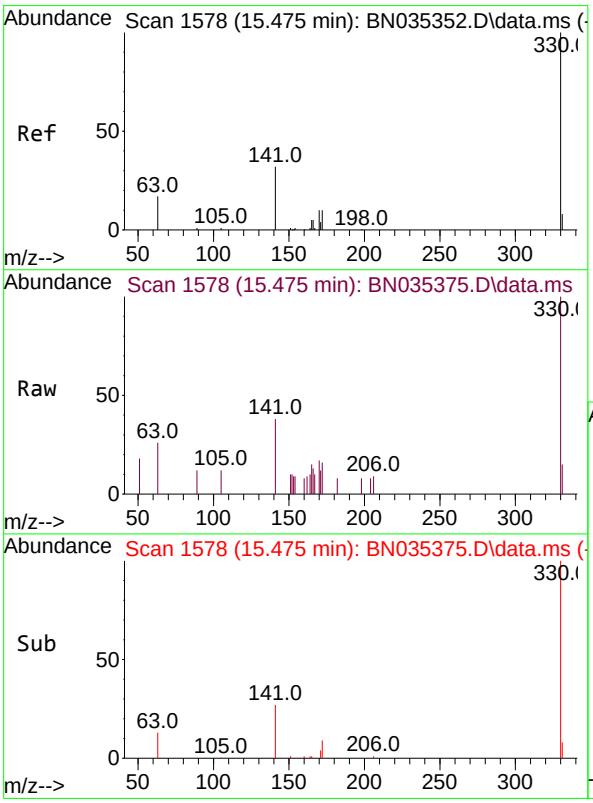
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 3798

Ion	Ratio	Lower	Upper
164	100		
162	99.2	82.2	123.2
160	49.5	40.1	60.1

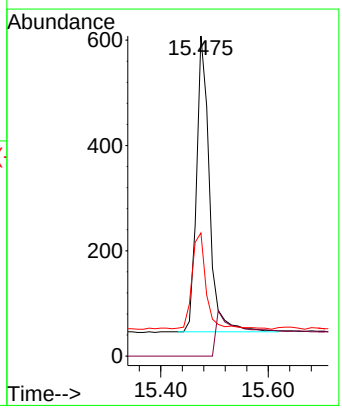


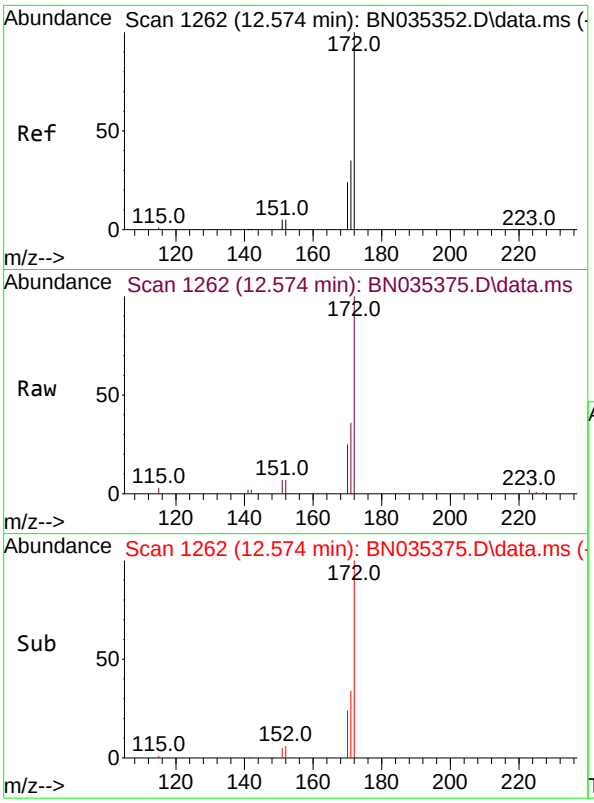


#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:330 Resp: 1011

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.5	26.6	40.0



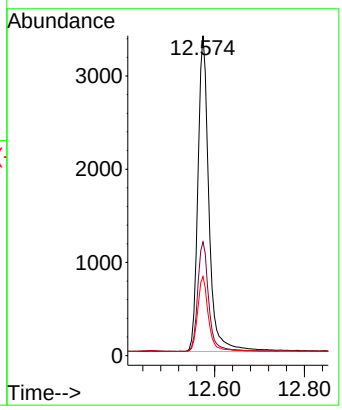


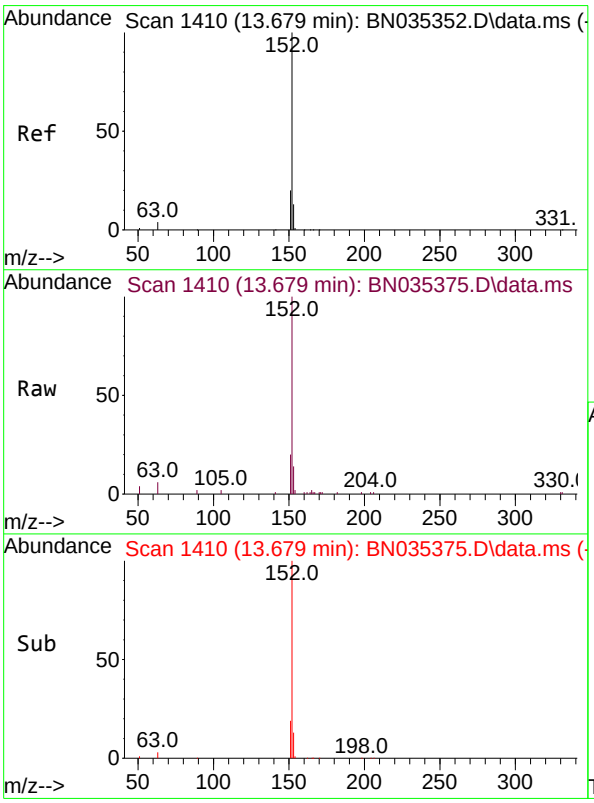
#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5760

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.0	43.4
170	24.7	19.8	29.8

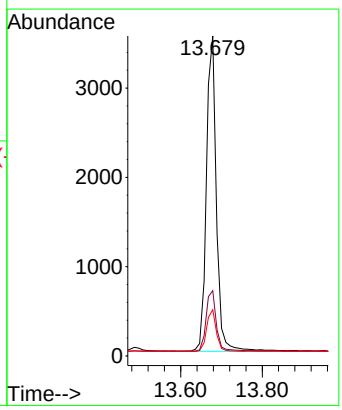


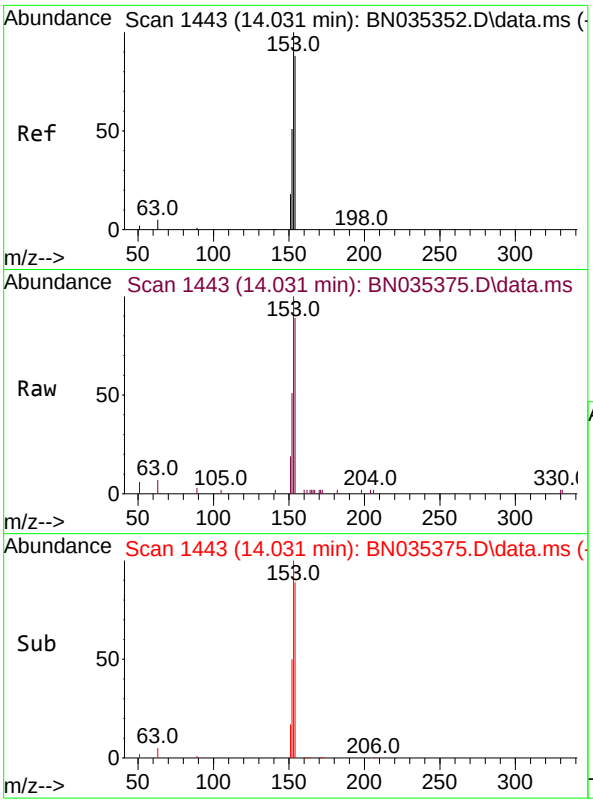


#16
Acenaphthylene
Concen: 0.378 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:152 Resp: 6028

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.2
153	12.9	10.4	15.6



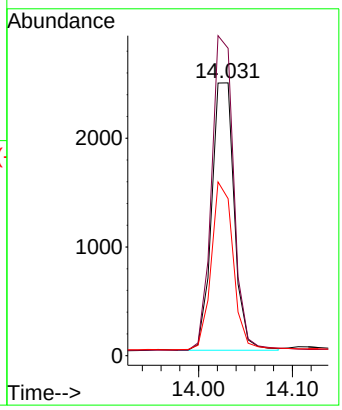


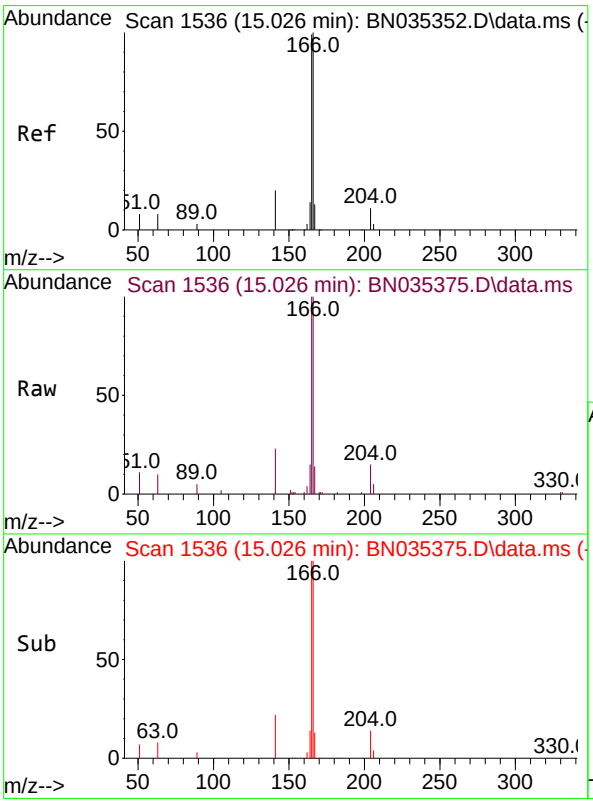
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 4106

Ion	Ratio	Lower	Upper
154	100		
153	117.0	92.6	139.0
152	61.6	49.0	73.6

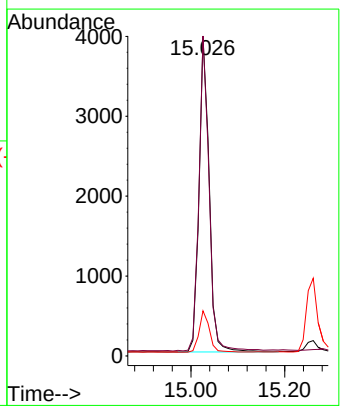


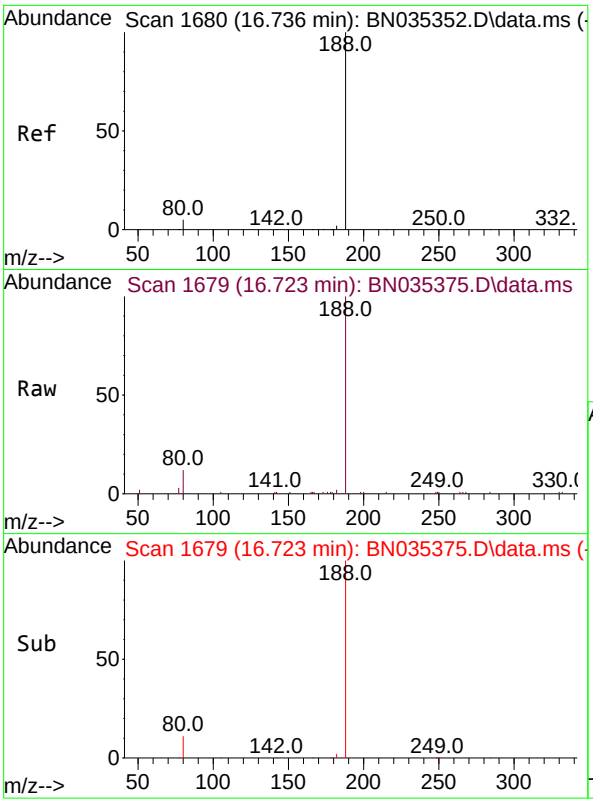


#18
Fluorene
Concen: 0.392 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:166 Resp: 5935

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.7	119.5
167	13.3	10.8	16.2



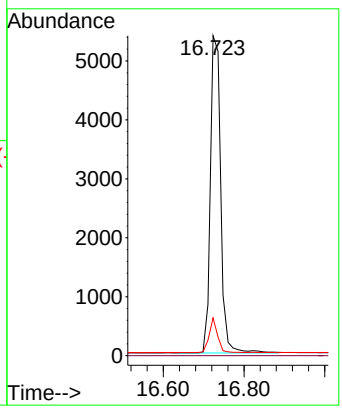


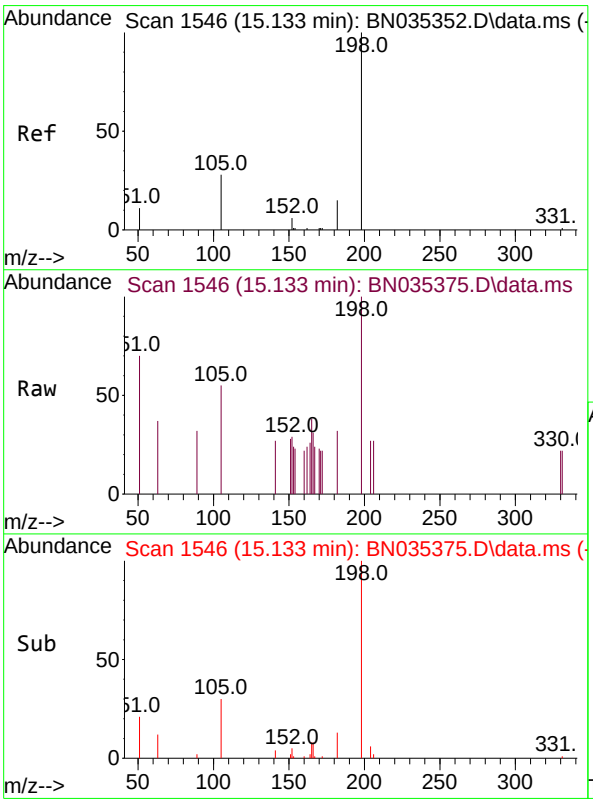
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9566

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	4.6	6.8#

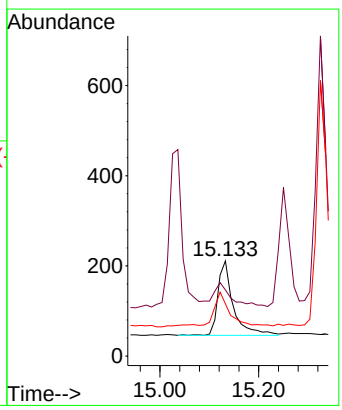


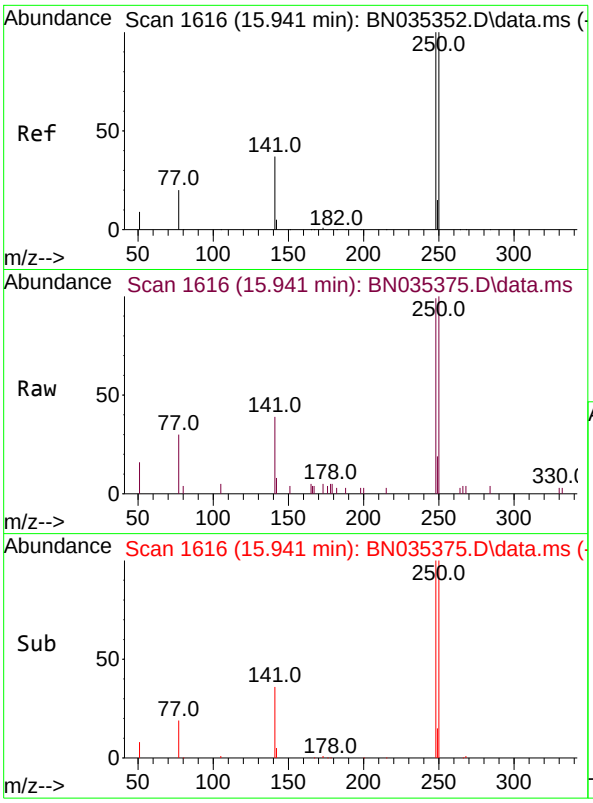


#20
4,6-Dinitro-2-methylphenol
Concen: 0.380 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:198 Resp: 357

Ion	Ratio	Lower	Upper
198	100		
51	69.7	46.5	69.7
105	55.0	45.3	67.9



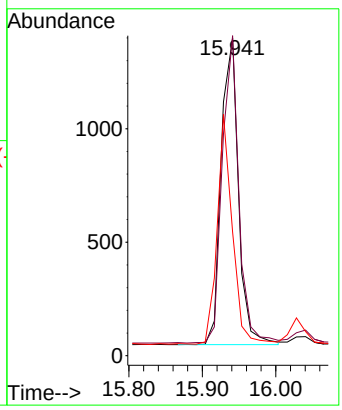


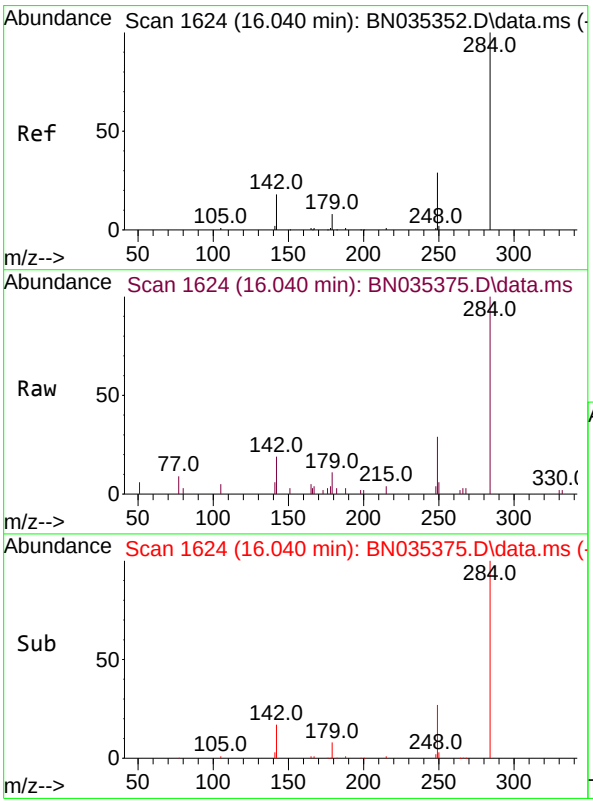
#21
4-Bromophenyl-phenylether
Concen: 0.394 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2206

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	38.9	31.5	47.3

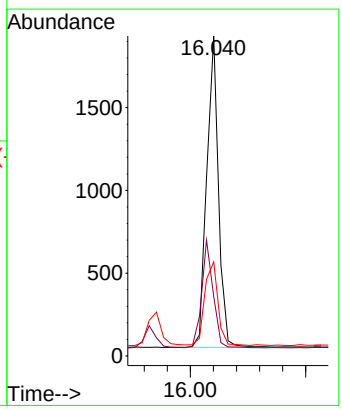


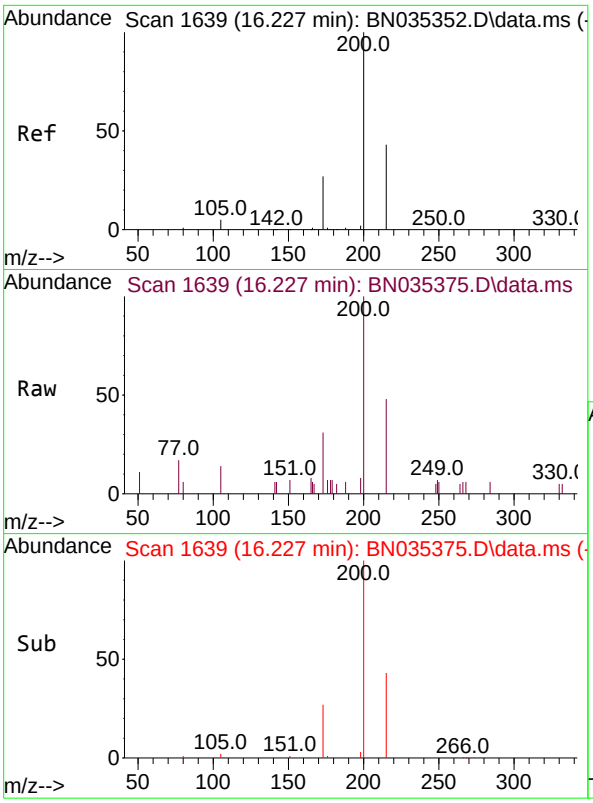


#22
Hexachlorobenzene
Concen: 0.404 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:284 Resp: 2655

Ion	Ratio	Lower	Upper
284	100		
142	33.9	26.7	40.1
249	30.2	24.6	36.8



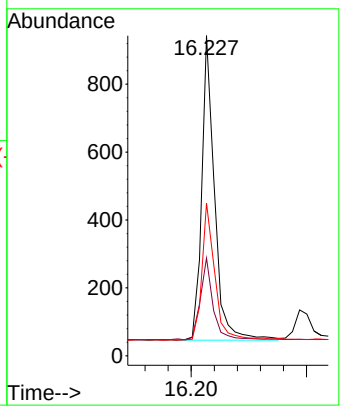


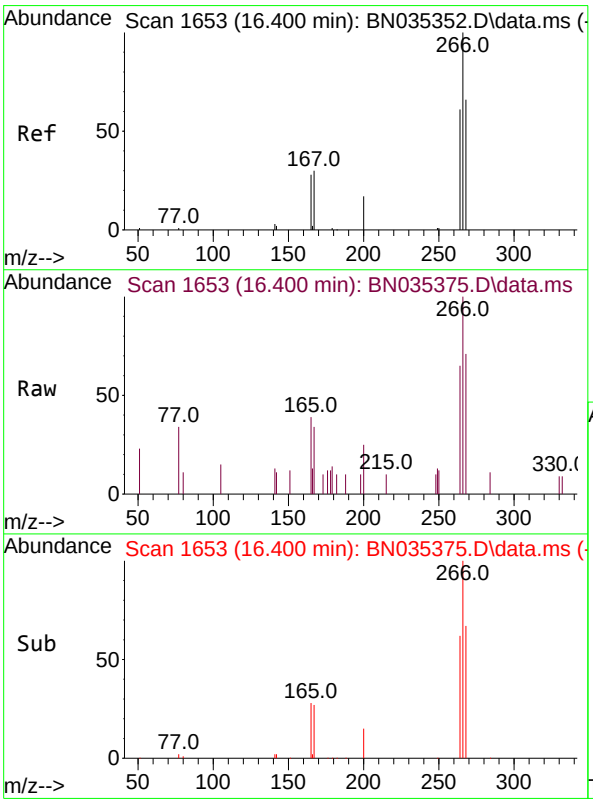
#23
Atrazine
Concen: 0.347 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1384

Ion	Ratio	Lower	Upper
200	100		
173	30.5	24.1	36.1
215	47.7	36.9	55.3

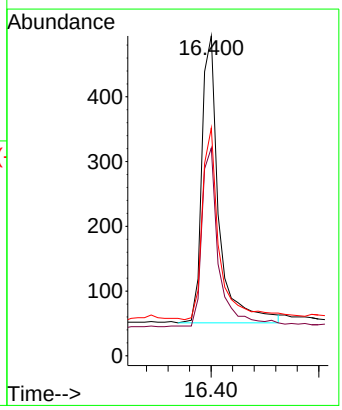


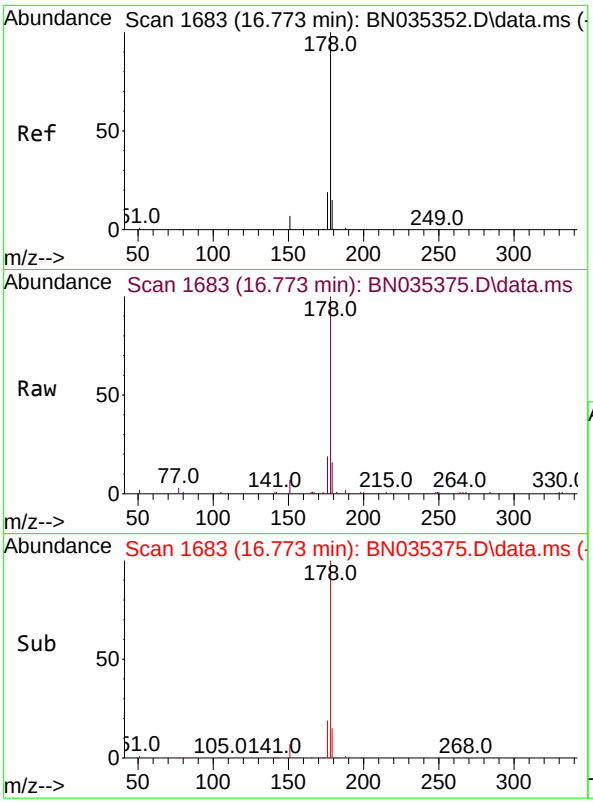


#24
Pentachlorophenol
Concen: 0.340 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:266 Resp: 973

Ion	Ratio	Lower	Upper
266	100		
264	62.7	42.3	63.5
268	67.7	43.3	64.9#



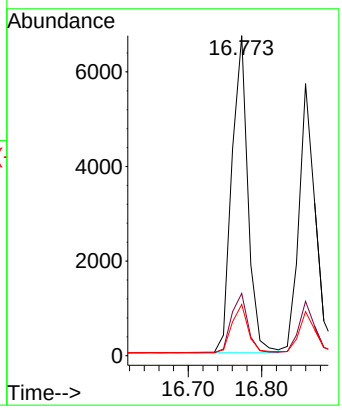


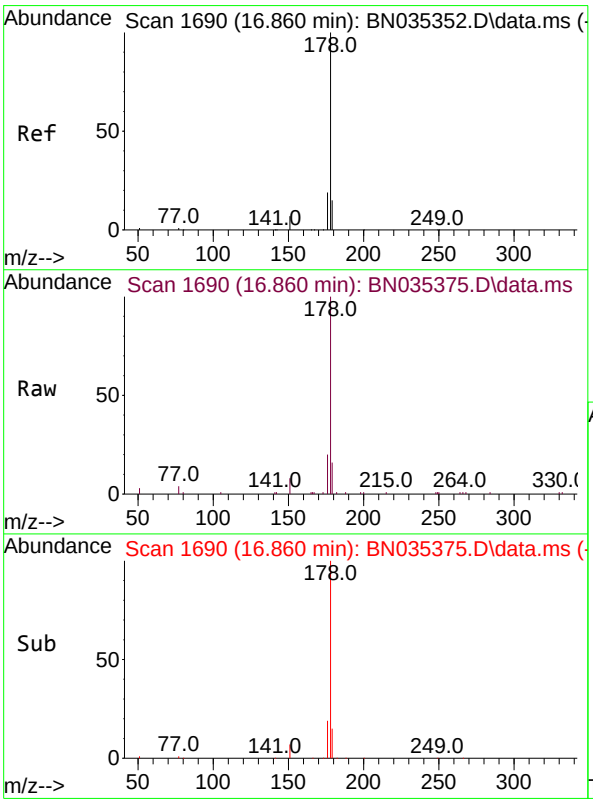
#25
Phenanthrene
Concen: 0.388 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 10204

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.4	12.3	18.5

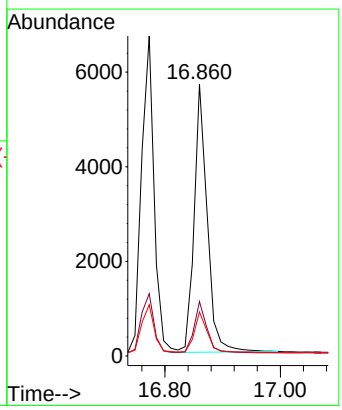


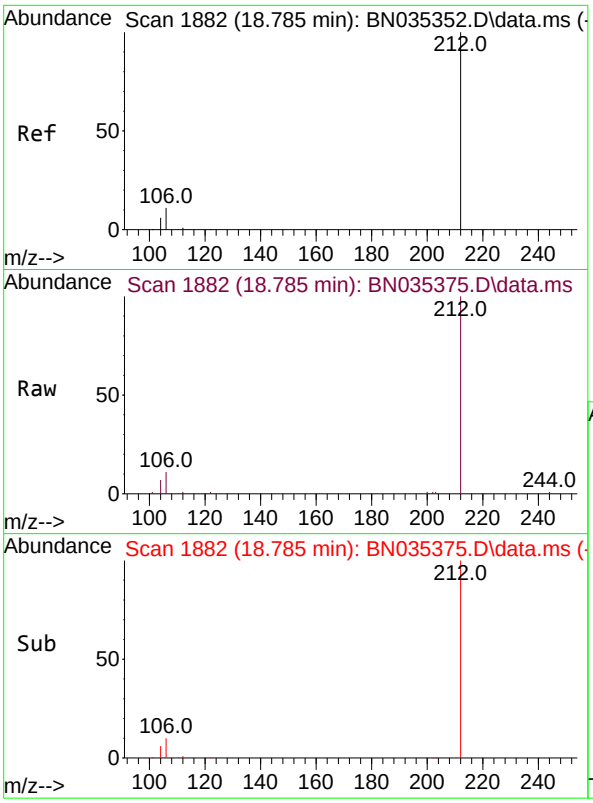


#26
Anthracene
Concen: 0.376 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:178 Resp: 8929

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.5	12.6	18.8



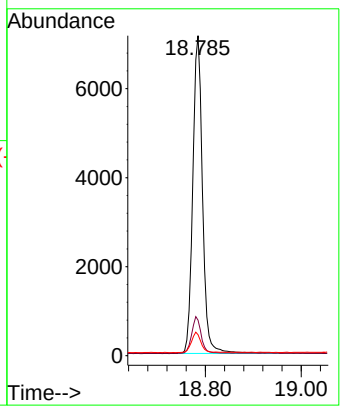


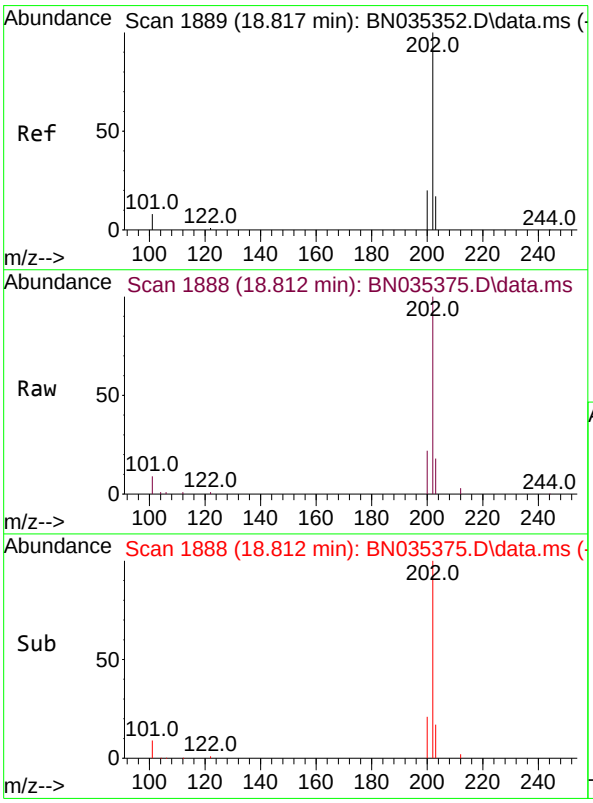
#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 10104

Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.3	5.3	7.9

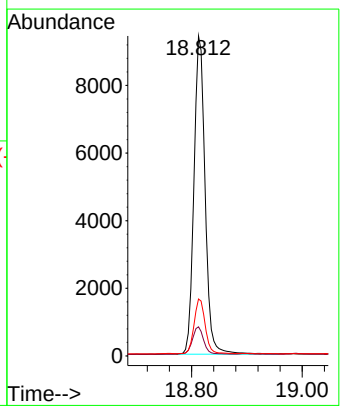


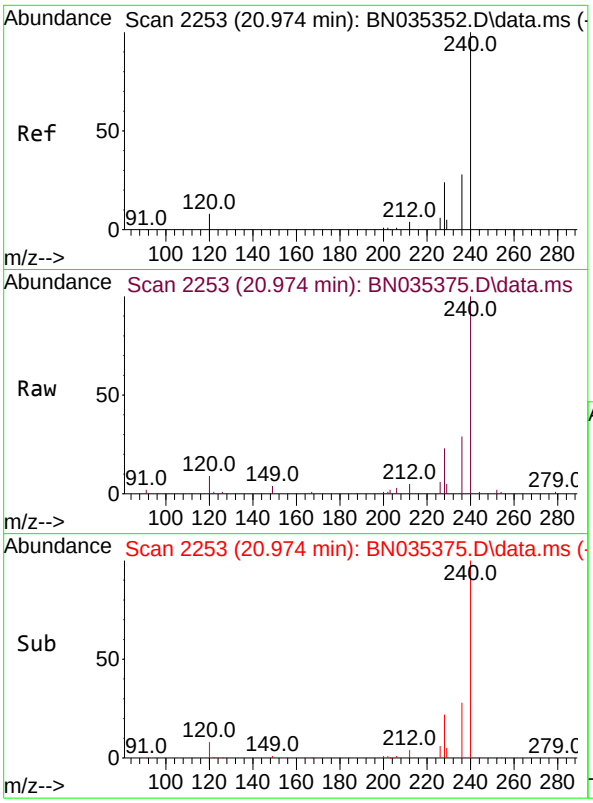


#28
Fluoranthene
Concen: 0.373 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:202 Resp: 13216

Ion	Ratio	Lower	Upper
202	100		
101	8.6	7.4	11.0
203	17.0	13.7	20.5



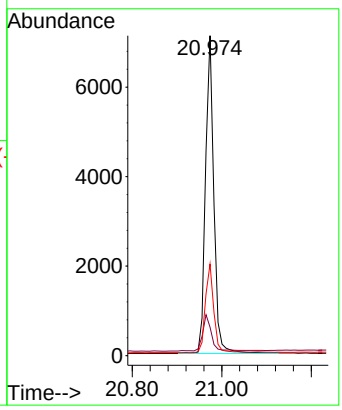


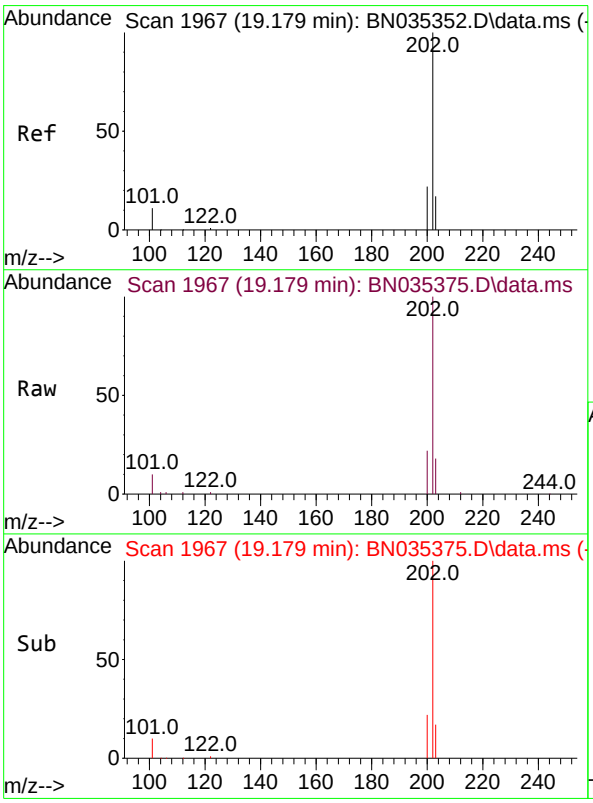
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 9222

Ion	Ratio	Lower	Upper
240	100		
120	8.9	7.9	11.9
236	28.6	22.9	34.3

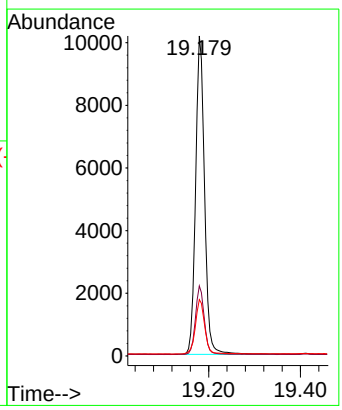


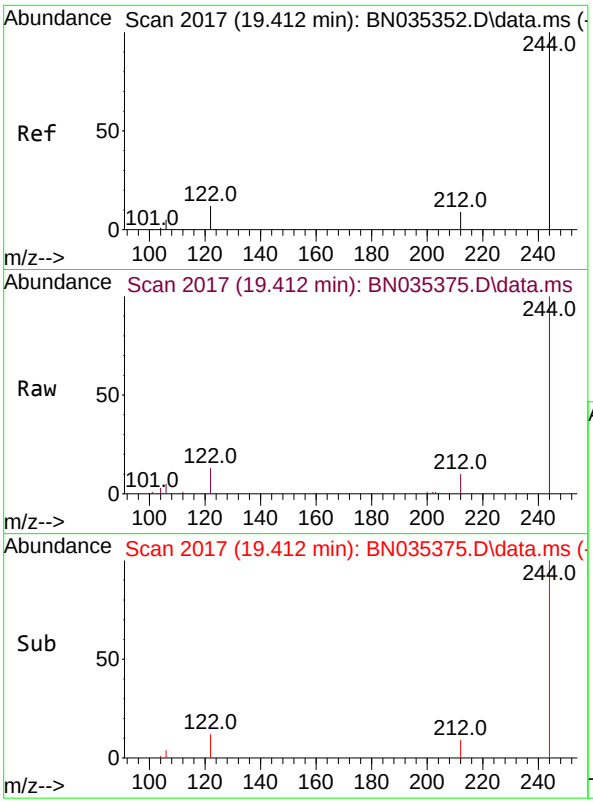


#30
Pyrene
Concen: 0.403 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:202 Resp: 13731

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.8	14.3	21.5



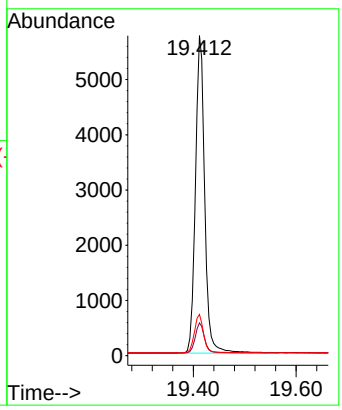


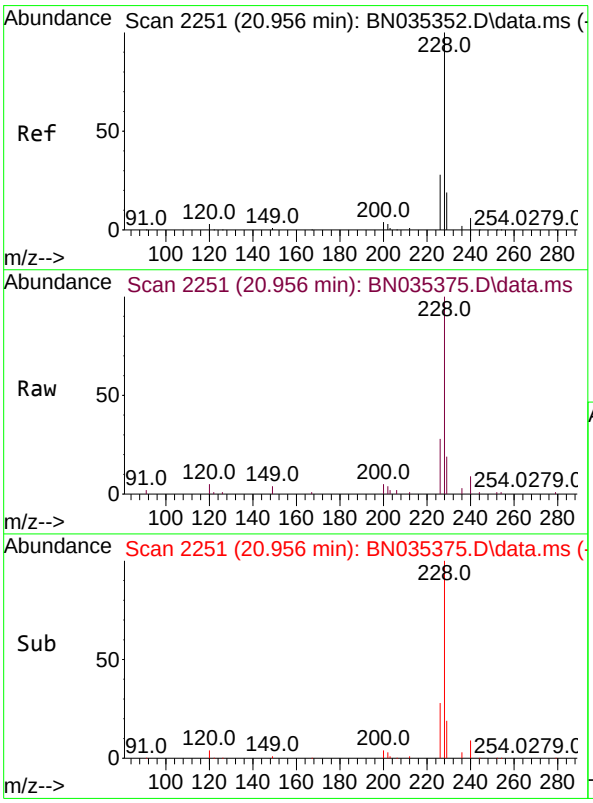
#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 7255

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	12.9	10.3	15.5

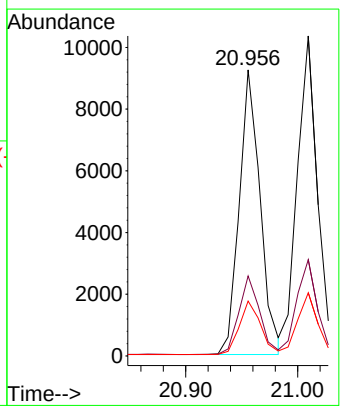


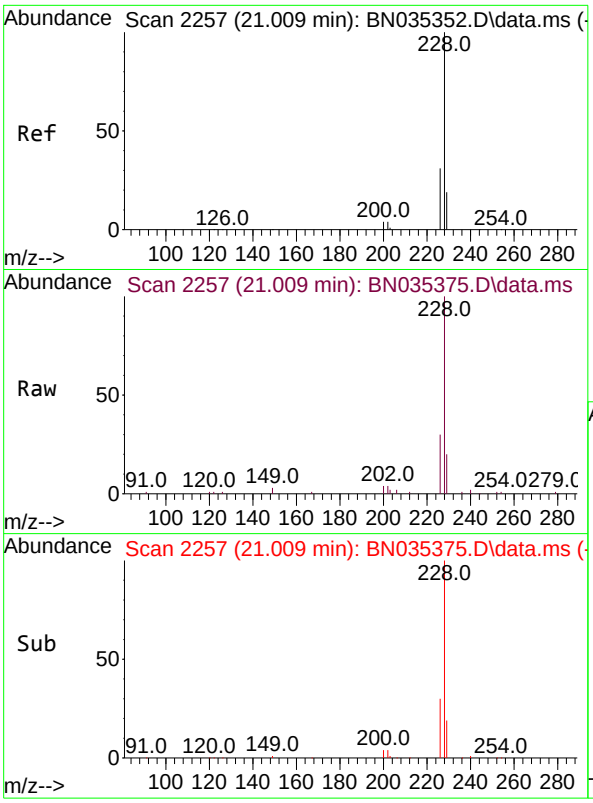


#32
Benzo(a)anthracene
Concen: 0.372 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:228 Resp: 11985

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	19.2	15.8	23.8



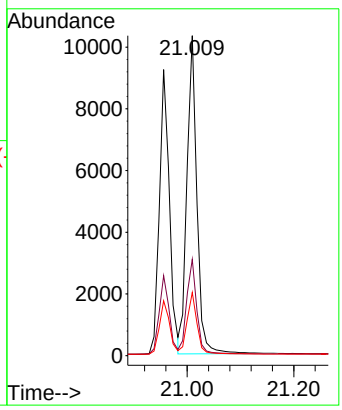


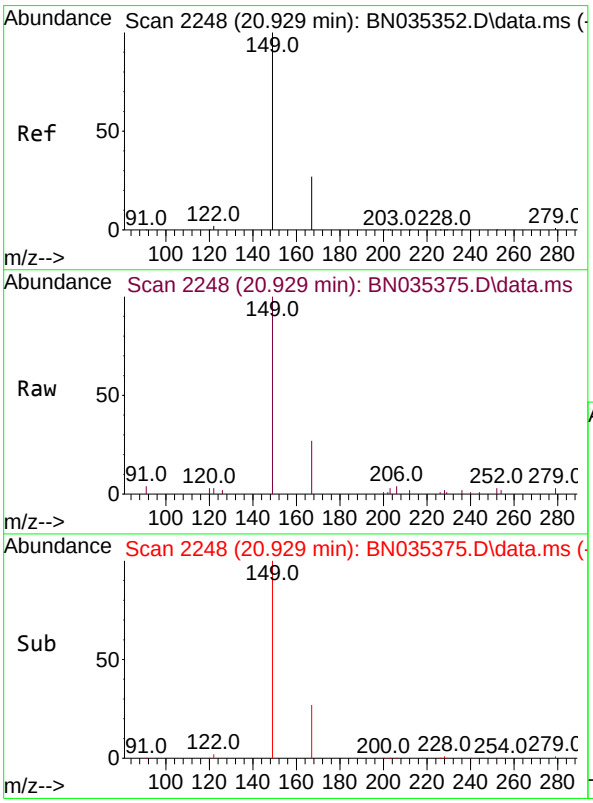
#33
Chrysene
Concen: 0.402 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 13365

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.6	37.0
229	19.8	15.9	23.9

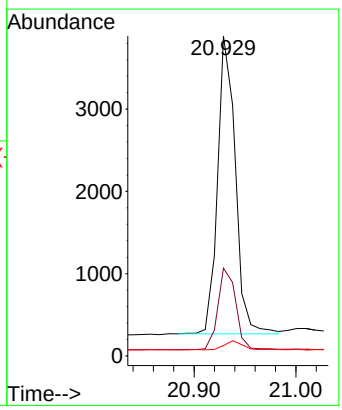


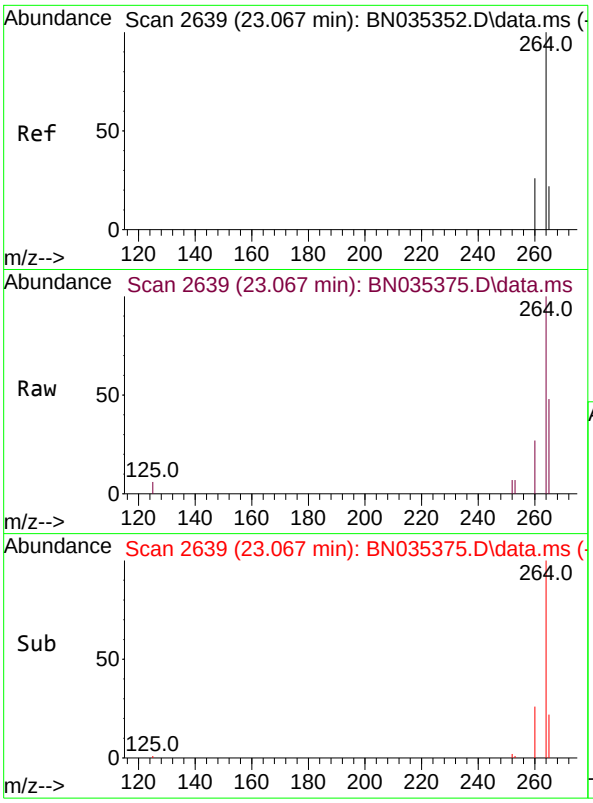


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.344 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:149 Resp: 4380

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.3	2.7	4.1



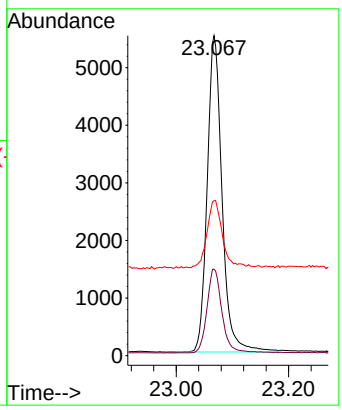


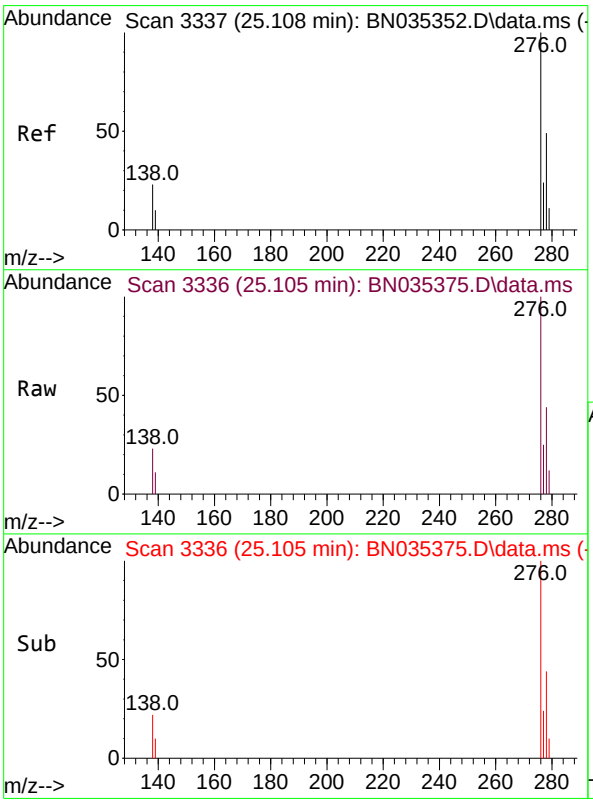
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 10081

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	48.5	40.2	60.4

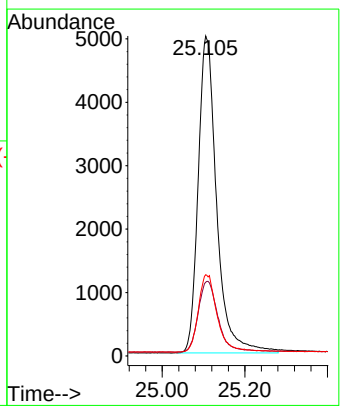


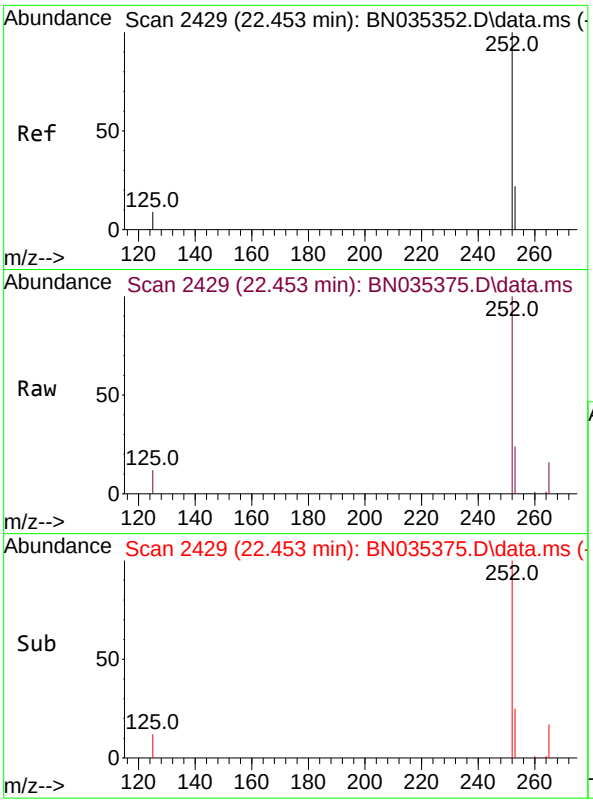


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.394 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:276 Resp: 15538

Ion	Ratio	Lower	Upper
276	100		
138	23.6	19.4	29.0
277	24.8	19.8	29.6



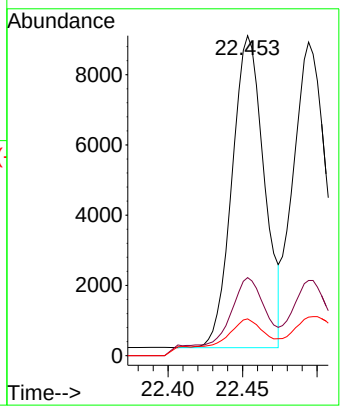


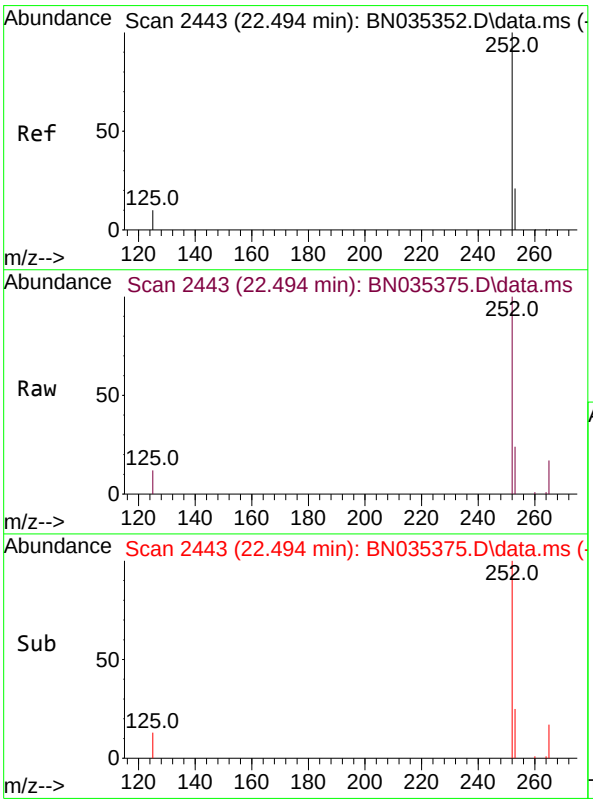
#37
Benzo(b)fluoranthene
Concen: 0.361 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 13327

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.6	29.4
125	11.5	9.6	14.4

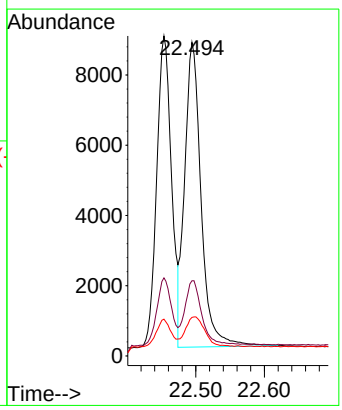


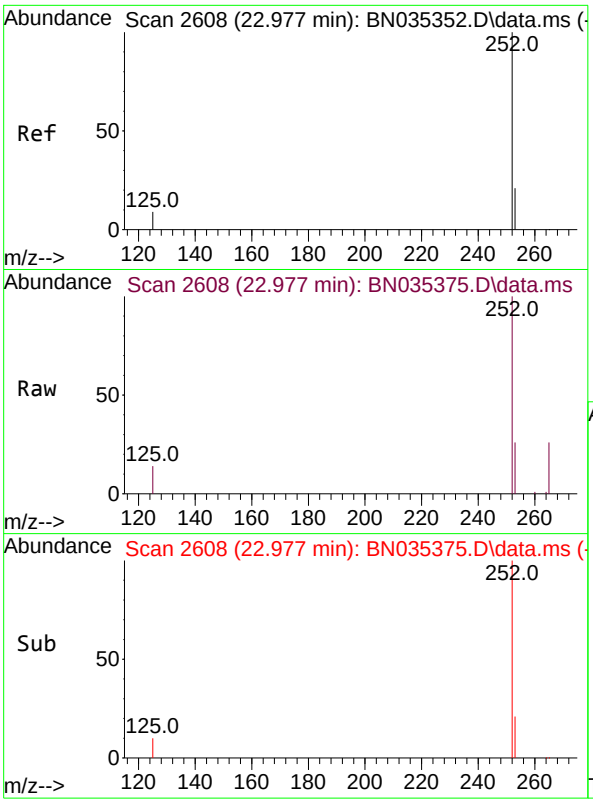


#38
Benzo(k)fluoranthene
Concen: 0.397 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:252 Resp: 14406

Ion	Ratio	Lower	Upper
252	100		
253	24.0	19.5	29.3
125	12.3	10.2	15.4



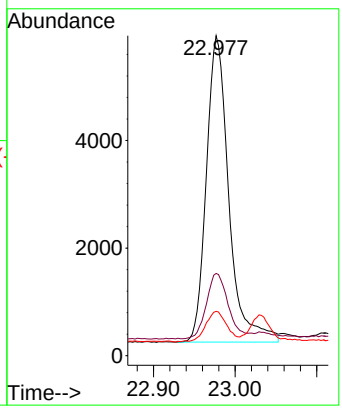


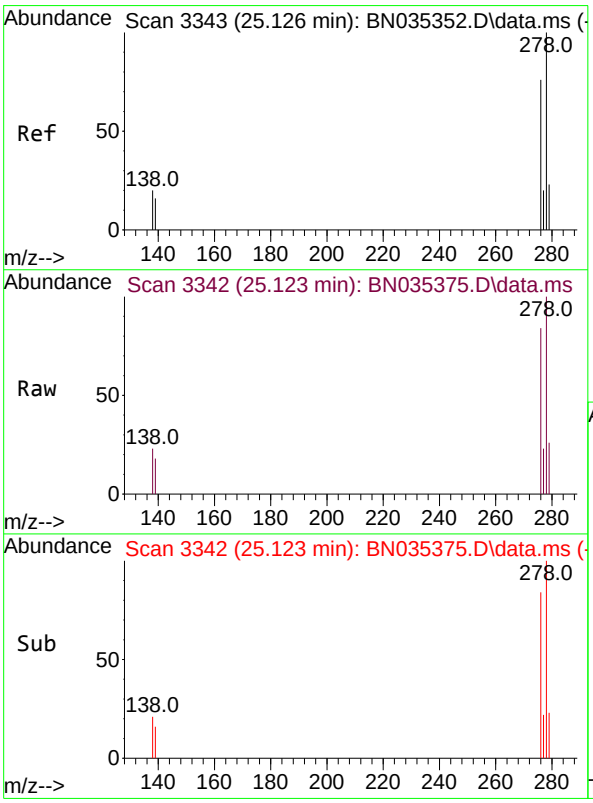
#39
Benzo(a)pyrene
Concen: 0.359 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 10891

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	13.8	10.9	16.3

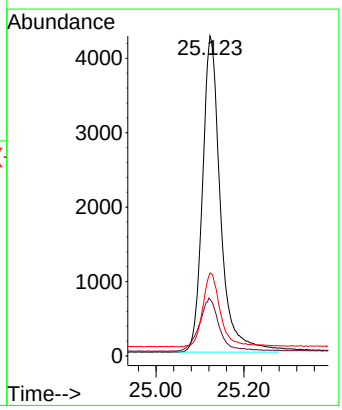


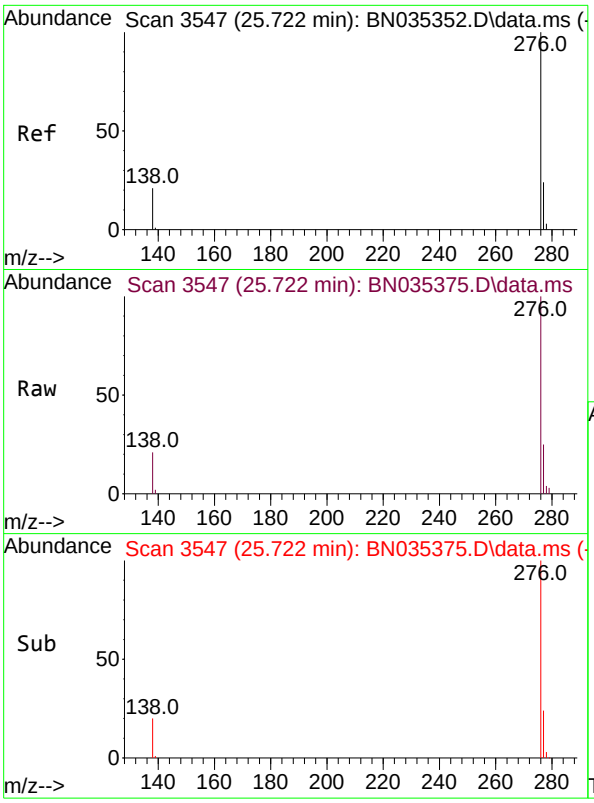


#40
Dibenzo(a,h)anthracene
Concen: 0.389 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Tgt Ion:278 Resp: 12092

Ion	Ratio	Lower	Upper
278	100		
139	17.7	14.2	21.4
279	26.0	20.5	30.7





#41
Benzo(g,h,i)perylene
Concen: 0.385 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035375.D
Acq: 28 Nov 2024 09:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 12501

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	21.3	17.8	26.8