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

SEMI-VOLATILE ORGANICS

PROJECT NAME : NJ WASTE WATER PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q1502

ATTENTION : Mohammad Ahmed

Laboratory Certification ID # 20012

Table Of Contents for Q1502

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Cover Page

Order ID : Q1502

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number	Client Sample Number
Q1502-01	PT-VOA-WP
Q1502-02	PT-VOA-WP
Q1502-03	PT-BN-WP
Q1502-04	PT-BN-WP
Q1502-05	PT-BN-WP
Q1502-06	PT-ACIDS-WP
Q1502-07	PT-ACIDS-WP
Q1502-08	PT-ACIDS-WP
Q1502-09	PT-PEST-WP
Q1502-10	PT-PEST-WP
Q1502-11	PT-CHLR-WP
Q1502-12	PT-CHLR-WP
Q1502-13	PT-TXP-WP
Q1502-14	PT-TXP-WP
Q1502-15	PT-PCBW-WP
Q1502-16	PT-PCBW-WP
Q1502-17	PT-HERB-WP
Q1502-18	RR-GAS-WP
Q1502-19	RR-DIES-WP
Q1502-20	RR-8011-WP
Q1502-21	RR-PAH-WP
Q1502-22	RR-TRIAZINE-WP

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

Signature : _____

Date: 3/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Alliance Technical Group, LLC - Newark
Project Name: NJ Waste Water PT
Project # N/A
Chemtech Project # Q1502
Test Name: SVOCMS Group4

A. Number of Samples and Date of Receipt:
21 Water samples were received on 03/05/2025.
1 Water sample was received on 03/11/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide group1, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, SVOCMS Group6, VOCGC Group 1 and VOCMS Group1. This data package contains results for SVOCMS Group4.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group4 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 PT-ACIDS-WP [2,4,6-Tribromophenol - 156%, 2-Fluorophenol - 121%, Phenol-d6 - 132%], PT-ACIDS-WPDL [2-Fluorophenol - 103% and Phenol-d6 - 109%],These samples were extracted for full scan analysis and above mention surrogates were not part of full scan extraction therefore no corrective action is required.

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

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The % RSD is greater than 20% in the Initial Calibration (8270 SIM-BN031025.M) for 4,6-Dinitro-2-methylphenol and this compound is passing on Quadratic regression.

The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

Sample PT-ACIDS-WP was diluted due to high concentration.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <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_____

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

CHEMTECH PROJECT NUMBER: Q1502 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 (8270 SIM-BN031025.M) for 4,6-Dinitro-2-methylphenol and this compound is passing on Quadratic regression.			
	The Continuous Calibration met the requirements .			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for PT-ACIDS-WP [2,4,6-Tribromophenol - 156%, 2-Fluorophenol - 121%, Phenol-d6 - 132%], PT-ACIDS-WPDL [2-Fluorophenol - 103% and Phenol-d6 - 109%],These samples were extracted for full scan analysis and above mention surrogates were not part of full scan extraction therefore no corrective action is required.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples .			
	The Blank Spike Duplicate met requirements for all samples .			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			

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

		NA	NO	YES
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
	The Holding Times were met for all analysis.			

ADDITIONAL COMMENTS:

Sample PT-ACIDS-WP was diluted due to high concentration.

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <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.

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1502

	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: MOHAMMAD AHMED **Date:** 03/26/2025

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LAB CHRONICLE

OrderID:	Q1502	**OrderDate:**	3/6/2025 10:04:07 AM
Client:	Alliance Technical Group, LLC - Newark	**Project:**	NJ Waste Water PT
Contact:	Mohammad Ahmed	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1502-05	**PT-BN-WP**	**Water**			**03/03/25**			**03/05/25**
			SVOCMS Group3	8270-Modified		03/13/25	03/14/25	
Q1502-05DL	**PT-BN-WPDL**	**Water**			**03/03/25**			**03/05/25**
			SVOCMS Group3	8270-Modified		03/13/25	03/14/25	
Q1502-08	**PT-ACIDS-WP**	**Water**			**03/03/25**			**03/05/25**
			SVOCMS Group4	8270-Modified		03/13/25	03/14/25	
Q1502-08DL	**PT-ACIDS-WPDL**	**Water**			**03/03/25**			**03/05/25**
			SVOCMS Group4	8270-Modified		03/13/25	03/14/25	
Q1502-21	**RR-PAH-WP**	**Water**			**03/03/25**			**03/05/25**
			SVOCMS Group5	8270-Modified		03/13/25	03/14/25	
Q1502-21DL	**RR-PAH-WPDL**	**Water**			**03/03/25**			**03/05/25**
			SVOCMS Group5	8270-Modified		03/13/25	03/14/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : PT-ACIDS-WP								
Q1502-08	PT-ACIDS-WP	WATER	4,6-Dinitro-2-methylphenol	65.900	E	0.15	0.2	ug/L
Q1502-08	PT-ACIDS-WP	WATER	Pentachlorophenol	150.000	E	0.11	0.2	ug/L
			Total Svoc :	**215.90**				
			Total Concentration:	**215.90**				
Client ID : PT-ACIDS-WPDL								
Q1502-08DL	PT-ACIDS-WPDL	WATER	4,6-Dinitro-2-methylphenol	88.300	D	3	4	ug/L
Q1502-08DL	PT-ACIDS-WPDL	WATER	Pentachlorophenol	89.300	D	2.2	4	ug/L
			Total Svoc :	**177.60**				
			Total Concentration:	**177.60**				

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167128BL	PB167128BL	2-Fluorophenol	0.4	0.38	94		10	100
		Phenol-d6	0.4	0.30	74		10	100
		2,4,6-Tribromophenol	0.4	0.25	62		10	131
PB167128BS	PB167128BS	2-Fluorophenol	0.4	0.38	94		10	100
		Phenol-d6	0.4	0.35	88		10	100
		2,4,6-Tribromophenol	0.4	0.23	58		10	131
Q1502-08	PT-ACIDS-WP	2-Fluorophenol	150	182	121	*	10	100
		Phenol-d6	150	199	132	*	10	100
		2,4,6-Tribromophenol	150	235	156	*	10	131
Q1502-08DL	PT-ACIDS-WPDL	2-Fluorophenol	150	155	103	*	10	100
		Phenol-d6	150	164	109	*	10	100
		2,4,6-Tribromophenol	150	171	114		10	131
Q1557-04MS	BPOW6-9-20250312MS	2-Fluorophenol	0.4	0.17	43		10	100
		Phenol-d6	0.4	0.094	23		10	100
		2,4,6-Tribromophenol	0.4	0.38	95		10	131
Q1557-05MSD	BPOW6-9-20250312MSD	2-Fluorophenol	0.4	0.18	44		10	100
		Phenol-d6	0.4	0.11	26		10	100
		2,4,6-Tribromophenol	0.4	0.43	106		10	131

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1557-04MS		**Client Sample ID: BPOW6-9-20250312MS**						**DataFile: BN036611.D**			
4,6-Dinitro-2-methylphenol	0.4	0	0.52	ug/L	130				20	150	
Pentachlorophenol	0.81	0	0.83	ug/L	102				10	179	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1557-05MSD		**Client Sample ID: BPOW6-9-20250312MSD**						**DataFile: BN036612.D**			
4,6-Dinitro-2-methylphenol	0.4	0	0.55	ug/L	138		6		20	150	20
Pentachlorophenol	0.81	0	0.87	ug/L	107		5		10	179	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified **DataFile:** BN036630.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167128BS	4,6-Dinitro-2-methylphenol	0.4	0.37	ug/L	93				20	150	
	Pentachlorophenol	0.8	0.45	ug/L	56				10	137	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167128BL

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

Lab File ID: BN036634.D Lab Sample ID: PB167128BL

Instrument ID: BNA_N Date Extracted: 03/13/2025

Matrix: (soil/water) Water Date Analyzed: 03/15/2025

Level: (low/med) LOW Time Analyzed: 09:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167128BS	PB167128BS	BN036630.D	03/15/2025
PT-ACIDS-WP	Q1502-08	BN036607.D	03/14/2025
BPOW6-9-20250312MS	Q1557-04MS	BN036611.D	03/14/2025
BPOW6-9-20250312MSD	Q1557-05MSD	BN036612.D	03/14/2025

COMMENTS:

Alliance TECHNICAL GROUP
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM SAS No.: Q1502 SDG NO.: Q1502

Lab File ID: BN036556.D DFTPP Injection Date: 03/10/2025

Instrument ID: BNA_N DFTPP Injection Time: 11:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.3
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	50.7
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	6.9
275	10.0 - 60.0% of mass 198	24.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	10.9 (19.6) 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	BN036557.D	03/10/2025	11:42
SSTDICC0.2	SSTDICC0.2	BN036558.D	03/10/2025	12:18
SSTDICCC0.4	SSTDICCC0.4	BN036559.D	03/10/2025	12:54
SSTDICC0.8	SSTDICC0.8	BN036560.D	03/10/2025	13:31
SSTDICC1.6	SSTDICC1.6	BN036561.D	03/10/2025	14:07
SSTDICC3.2	SSTDICC3.2	BN036562.D	03/10/2025	14:43
SSTDICC5.0	SSTDICC5.0	BN036563.D	03/10/2025	15:19

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM SAS No.: Q1502 SDG NO.: Q1502

Lab File ID: BN036600.D DFTPP Injection Date: 03/14/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	65.5
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	55.5
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	51.9
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	24.7
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	9.5
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	11 (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
SSTDCCC0.4	SSTDCCC0.4	BN036601.D	03/14/2025	10:09
PT-ACIDS-WP	Q1502-08	BN036607.D	03/14/2025	14:37
PT-ACIDS-WPDL	Q1502-08DL	BN036608.D	03/14/2025	15:33
BPOW6-9-20250312MS	Q1557-04MS	BN036611.D	03/14/2025	17:24
BPOW6-9-20250312MSD	Q1557-05MSD	BN036612.D	03/14/2025	18:00

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM SAS No.: Q1502 SDG NO.: Q1502

Lab File ID: BN036614.D DFTPP Injection Date: 03/14/2025

Instrument ID: BNA_N DFTPP Injection Time: 19:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.5
68	Less than 2.0% of mass 69	0.5 (0.9) 1
69	Mass 69 relative abundance	57.8
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	54.2
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	7.1
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	11 (18.6) 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	BN036615.D	03/14/2025	20:30
PB167128BS	PB167128BS	BN036630.D	03/15/2025	05:28

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM SAS No.: Q1502 SDG NO.: Q1502

Lab File ID: BN036632.D DFTPP Injection Date: 03/15/2025

Instrument ID: BNA_N DFTPP Injection Time: 06:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	64.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	55.9
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	52.7
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	6.9
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	9.6
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	11.3 (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	BN036633.D	03/15/2025	08:35
PB167128BL	PB167128BL	BN036634.D	03/15/2025	09:11

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Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036601.D Time Analyzed: 10:09

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	2400	7.717	5723	10.51	3321	14.36
	UPPER LIMIT	4800	8.217	11446	11.009	6642	14.855
	LOWER LIMIT	1200	7.217	2861.5	10.009	1660.5	13.855
	EPA SAMPLE NO.						
01	PT-ACIDS-WPDL	2324	7.72	6014	10.50	3371	14.37
02	BPOW6-9-20250312MS	2246	7.72	5352	10.51	3243	14.36
03	BPOW6-9-20250312MSD	2513	7.72	5928	10.51	3540	14.36
04	PT-ACIDS-WP	2909	7.72	7981	10.51	4375	14.37

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.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036601.D Time Analyzed: 10:09

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	6547	17.09	4700	21.29	3986	23.546
	UPPER LIMIT	13094	17.59	9400	21.79	7972	24.046
	LOWER LIMIT	3273.5	16.59	2350	20.79	1993	23.046
	EPA SAMPLE NO.						
01	PT-ACIDS-WPDL	7010	17.11	4582	21.30	3725	23.56
02	BPOW6-9-20250312MS	6301	17.10	4672	21.30	3903	23.54
03	BPOW6-9-20250312MSD	7131	17.10	5437	21.30	4602	23.55
04	PT-ACIDS-WP	8959	17.10	5365	21.30	3981	23.55

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.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036615.D Time Analyzed: 20:30

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	2093	7.717	5069	10.51	2917	14.36
	UPPER LIMIT	4186	8.217	10138	11.009	5834	14.855
	LOWER LIMIT	1046.5	7.217	2534.5	10.009	1458.5	13.855
	EPA SAMPLE NO.						
01	PB167128BS	2536	7.72	5899	10.51	2985	14.36

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.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036615.D Time Analyzed: 20:30

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	6068	17.09	4261	21.29	3574	23.548
	UPPER LIMIT	12136	17.59	8522	21.79	7148	24.048
	LOWER LIMIT	3034	16.59	2130.5	20.79	1787	23.048
	EPA SAMPLE NO.						
01	PB167128BS	5084	17.10	2789	21.30	2522	23.55

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.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/15/2025

Lab File ID: BN036633.D Time Analyzed: 08:35

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	2056	7.717	5167	10.51	3028	14.36
	UPPER LIMIT	4112	8.217	10334	11.009	6056	14.856
	LOWER LIMIT	1028	7.217	2583.5	10.009	1514	13.856
	EPA SAMPLE NO.						
01	PB167128BL	2323	7.72	4860	10.52	2639	14.37

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.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/15/2025

Lab File ID: BN036633.D Time Analyzed: 08:35

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	5852	17.09	3964	21.29	3322	23.543
	UPPER LIMIT	11704	17.59	7928	21.79	6644	24.043
	LOWER LIMIT	2926	16.59	1982	20.79	1661	23.043
	EPA SAMPLE NO.						
01	PB167128BL	4474	17.12	2905	21.30	2592	23.56

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-ACIDS-WP	SDG No.:	Q1502
Lab Sample ID:	Q1502-08	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036607.D	1	03/13/25 12:40	03/14/25 14:37	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	65.9	E	0.15	0.20	ug/L
87-86-5	Pentachlorophenol	150	E	0.11	0.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	182	*	10 - 100	121%	SPK: 150
13127-88-3	Phenol-d6	199	*	10 - 100	132%	SPK: 150
118-79-6	2,4,6-Tribromophenol	235	*	10 - 131	156%	SPK: 150
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2910	7.717			
1146-65-2	Naphthalene-d8	7980	10.509			
15067-26-2	Acenaphthene-d10	4380	14.366			
1517-22-2	Phenanthrene-d10	8960	17.099			
1719-03-5	Chrysene-d12	5370	21.304			
1520-96-3	Perylene-d12	3980	23.554			

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\BN031425\
Data File : BN036607.D
Acq On : 14 Mar 2025 14:37
Operator : RC/JU
Sample : Q1502-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Quant Time: Mar 14 15:02:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

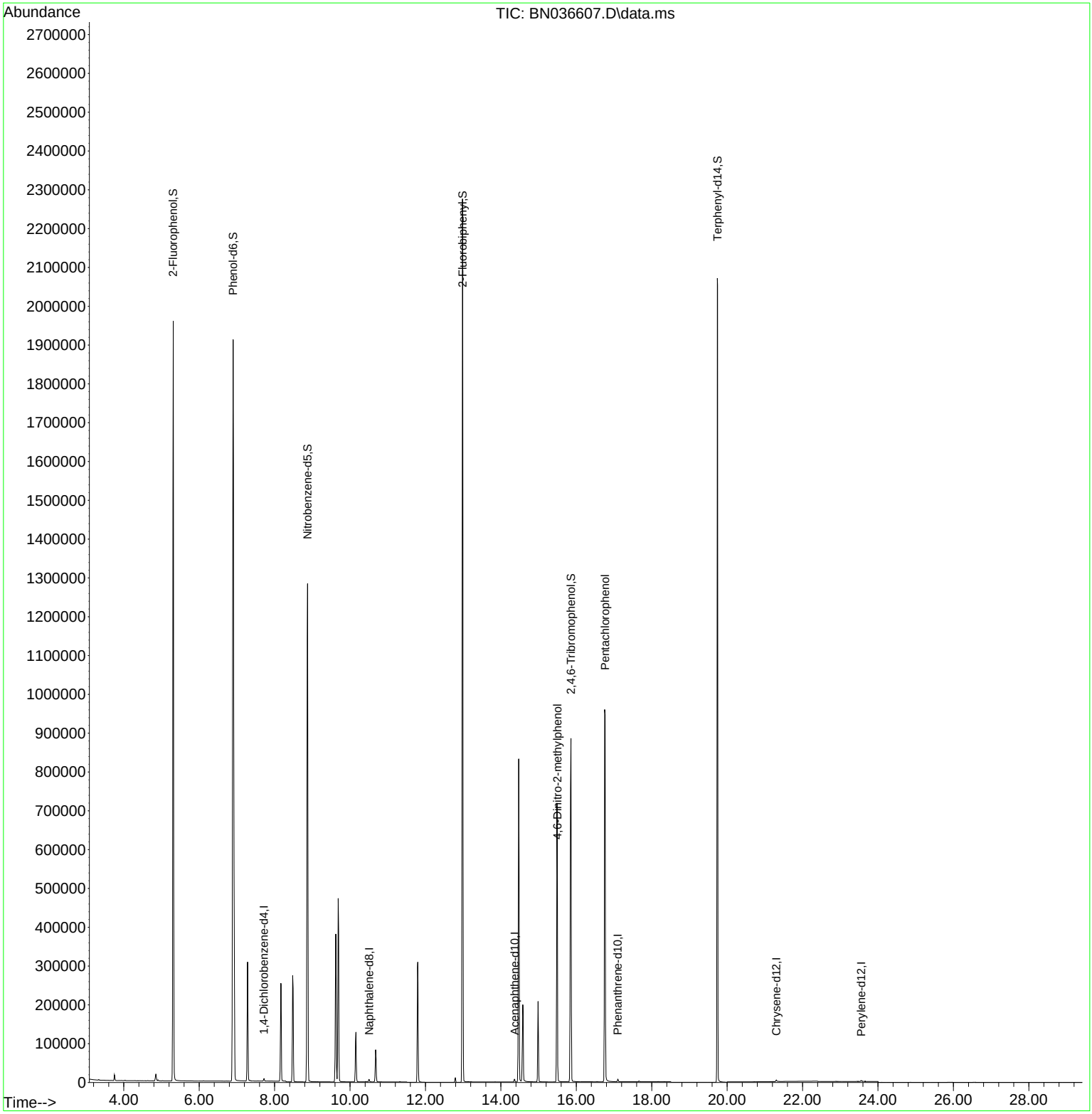
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2909	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	7981	0.400	ng	# 0.00
13) Acenaphthene-d10	14.366	164	4375	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	8959	0.400	ng	#-0.01
29) Chrysene-d12	21.304	240	5365	0.400	ng	0.00
35) Perylene-d12	23.554	264	3981	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1233375	181.930	ng	0.00
5) Phenol-d6	6.901	99	1662926	198.573	ng	0.00
8) Nitrobenzene-d5	8.875	82	953549	109.829	ng	0.00
11) 2-Methylnaphthalene-d10	0.000	152	0d	0.000	ng	
14) 2,4,6-Tribromophenol	15.858	330	465620	234.541	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	2628068	103.260	ng	0.00
27) Fluoranthene-d10	19.141	212	127	0.006	ng	0.00
31) Terphenyl-d14	19.745	244	1940216	150.943	ng	0.00
Target Compounds						Qvalue
20) 4,6-Dinitro-2-methylph...	15.499	198	435659	65.862	ng	# 21
24) Pentachlorophenol	16.764	266	457468	148.019	ng	99

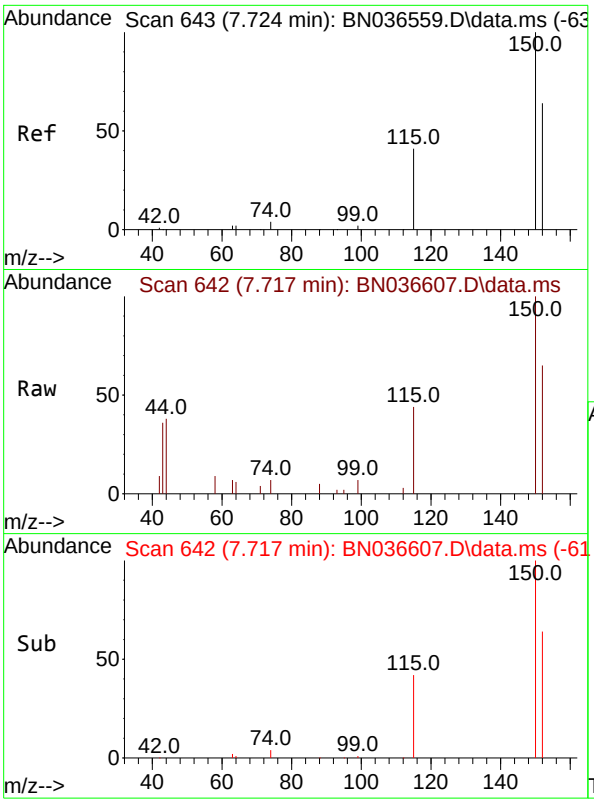
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036607.D
Acq On : 14 Mar 2025 14:37
Operator : RC/JU
Sample : Q1502-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Quant Time: Mar 14 15:02:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



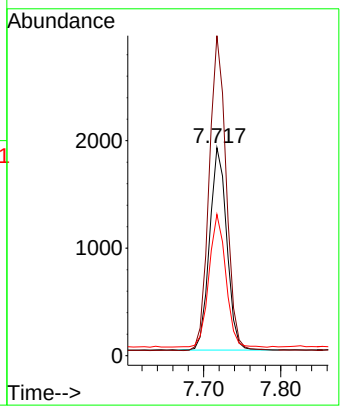


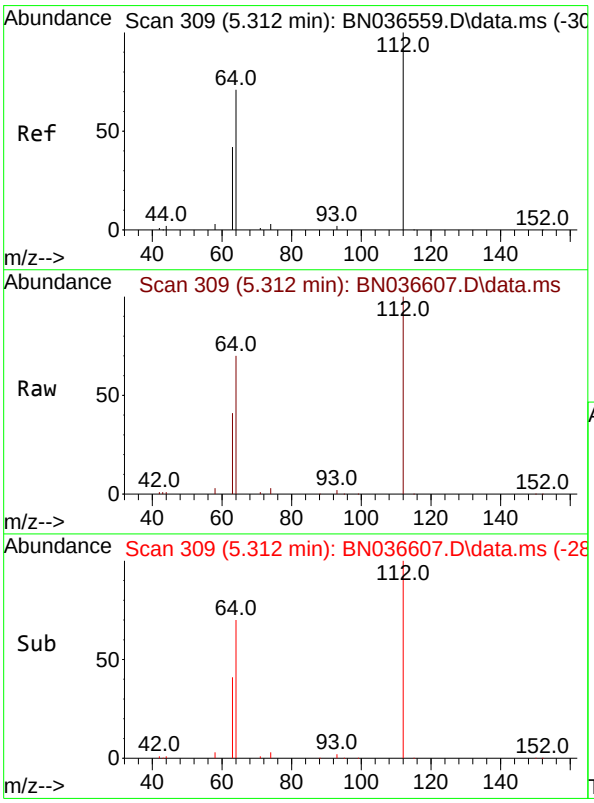
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:152 Resp: 2909

Ion	Ratio	Lower	Upper
152	100		
150	153.9	123.7	185.5
115	67.9	54.3	81.5

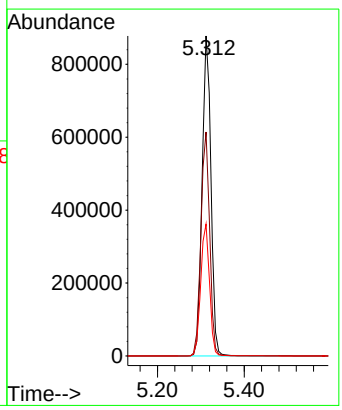


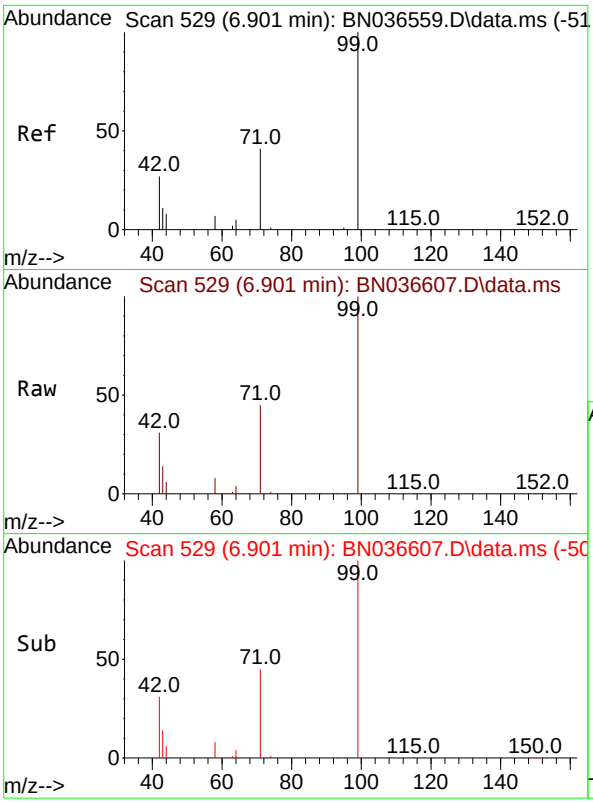


#4
2-Fluorophenol
Concen: 181.930 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Tgt Ion:112 Resp: 1233375

Ion	Ratio	Lower	Upper
112	100		
64	69.8	53.1	79.7
63	41.4	31.8	47.8



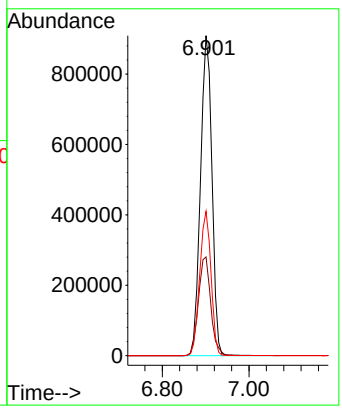


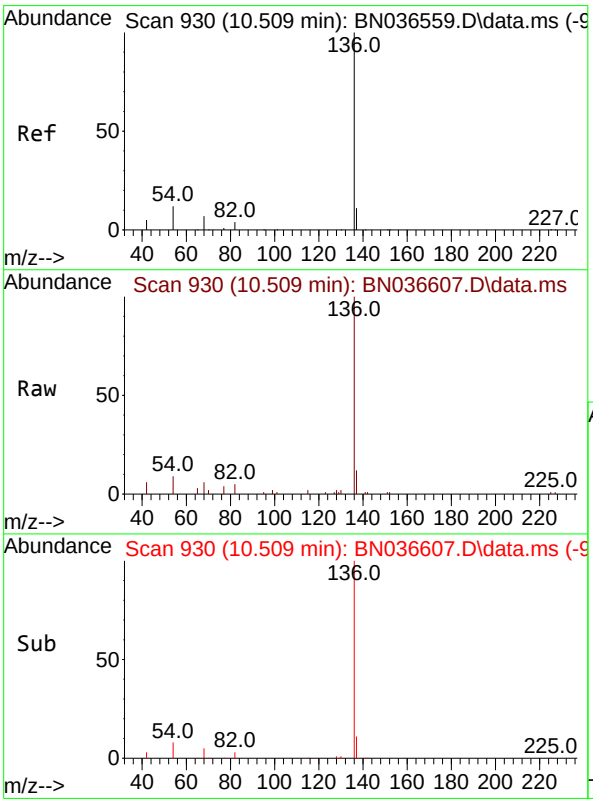
#5
Phenol-d6
Concen: 198.573 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion: 99 Resp: 1662926

Ion	Ratio	Lower	Upper
99	100		
42	33.3	26.5	39.7
71	44.6	34.1	51.1

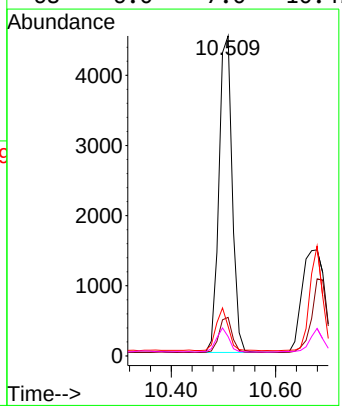


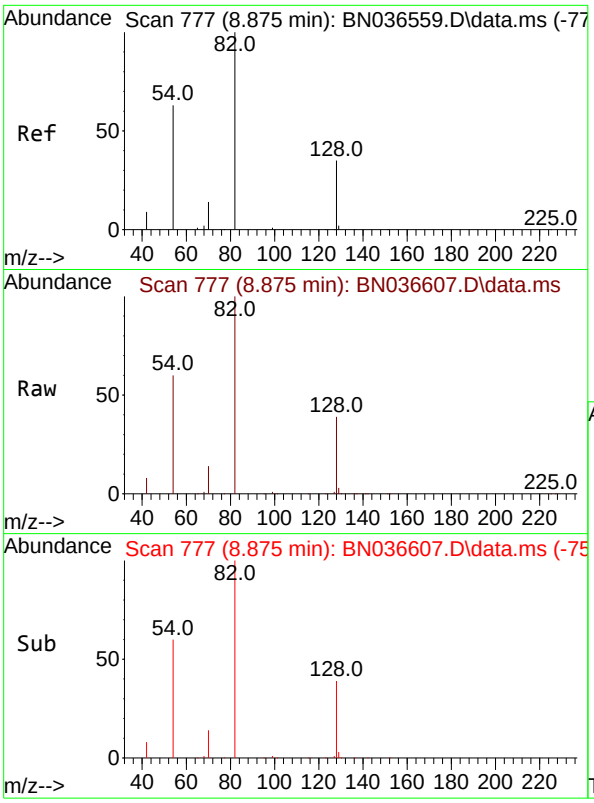


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Tgt Ion:136 Resp: 7981

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.3	15.5
54	9.3	11.5	17.3#
68	6.0	7.0	10.4#



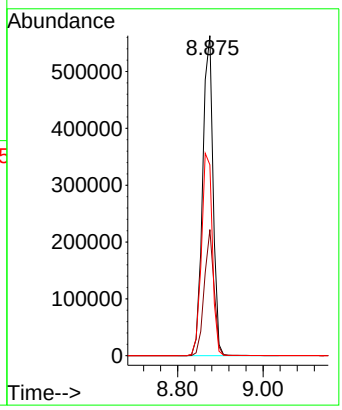


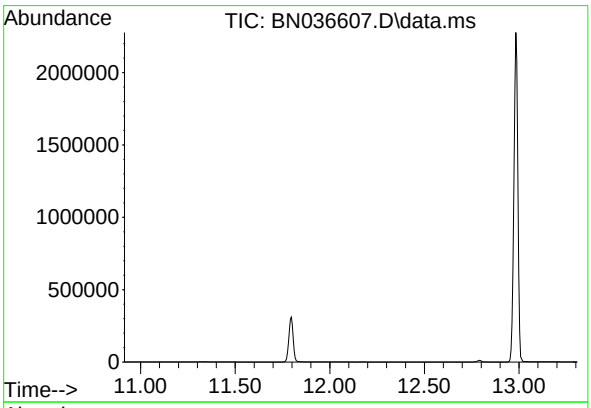
#8
Nitrobenzene-d5
Concen: 109.829 ng
RT: 8.875 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion: 82 Resp: 953549

Ion	Ratio	Lower	Upper
82	100		
128	39.4	30.6	45.8
54	59.7	52.2	78.4



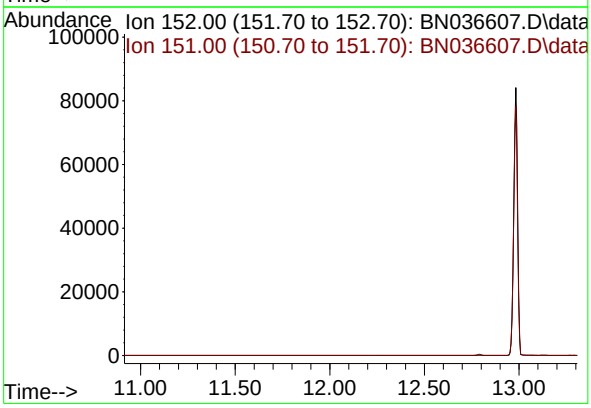


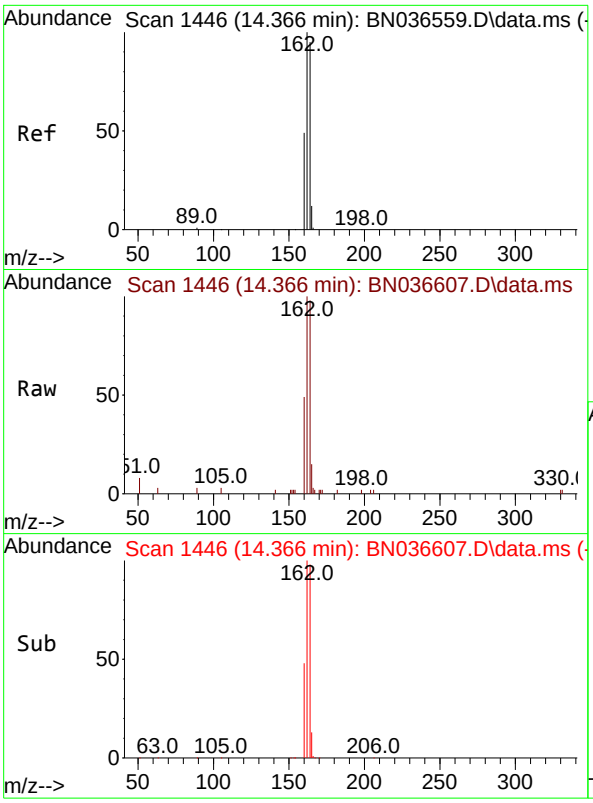
#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
Expected RT: 12.11 min

Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Tgt Ion: 152

Sig	Exp Ratio
152	100
151	21.3



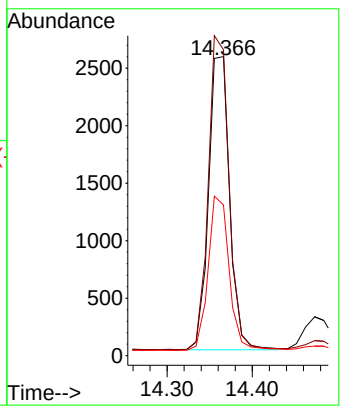


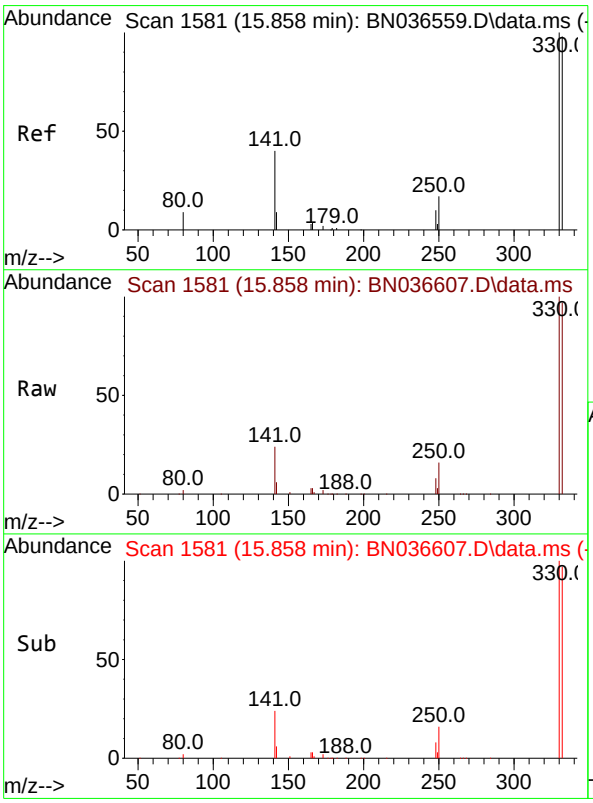
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:164 Resp: 4375

Ion	Ratio	Lower	Upper
164	100		
162	102.3	84.2	126.2
160	50.4	42.2	63.2

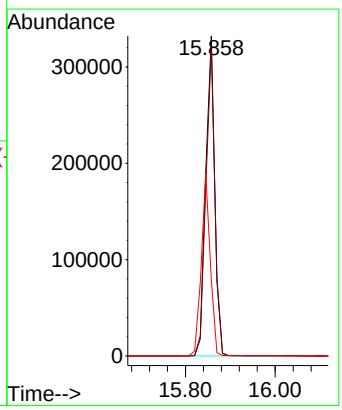


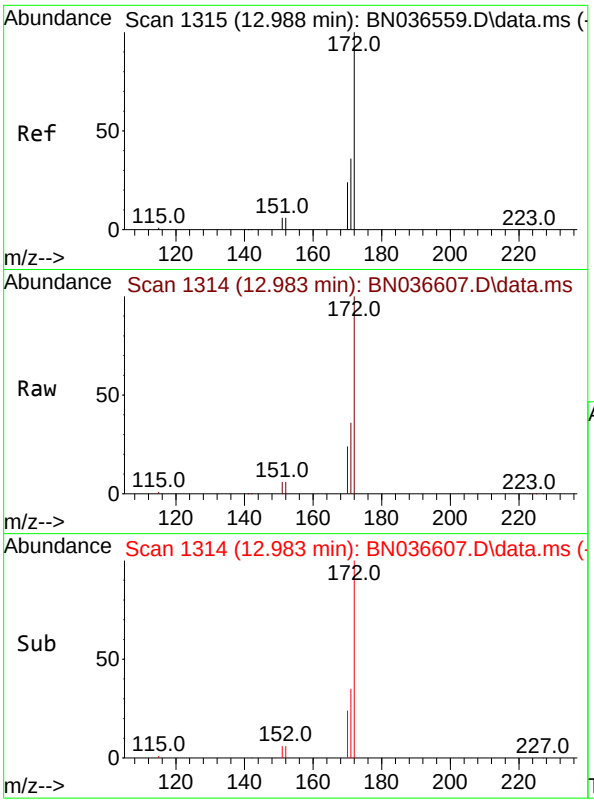


#14
2,4,6-Tribromophenol
Concen: 234.541 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Tgt Ion:330 Resp: 465620

Ion	Ratio	Lower	Upper
330	100		
332	95.7	75.2	112.8
141	56.9	43.4	65.2



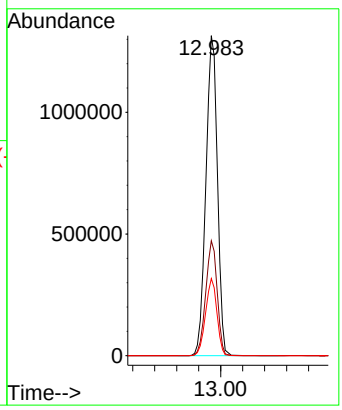


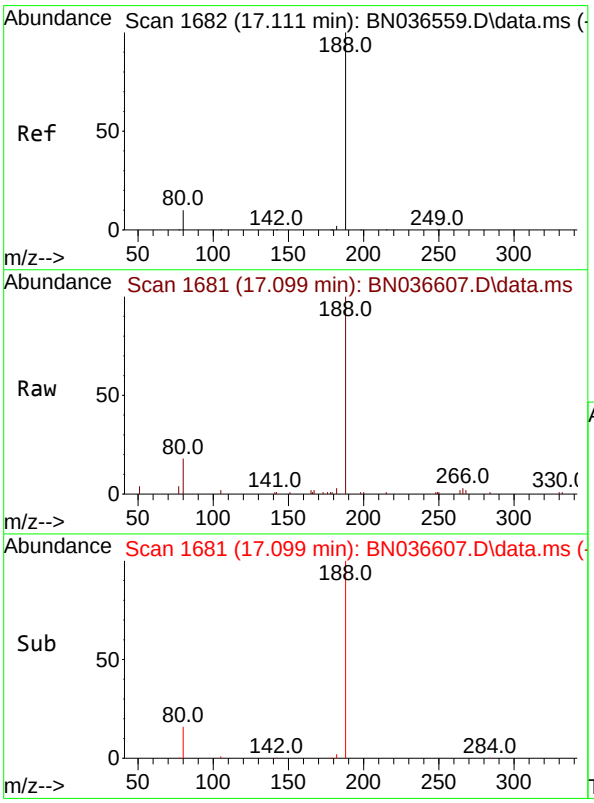
#15
2-Fluorobiphenyl
Concen: 103.260 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:172 Resp: 2628068

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.5	44.3
170	24.1	20.2	30.4

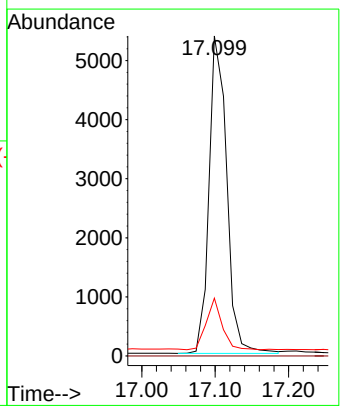


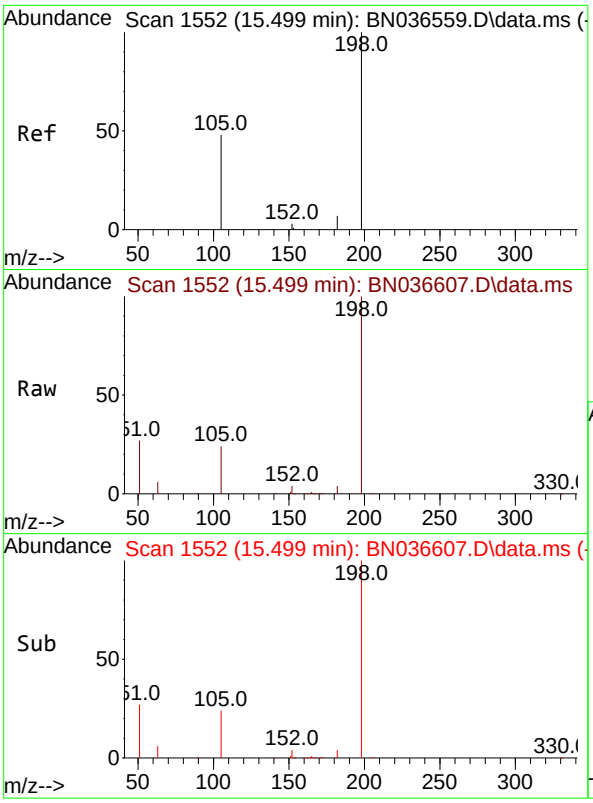


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Tgt Ion:188 Resp: 8959

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	18.1	8.8	13.2#



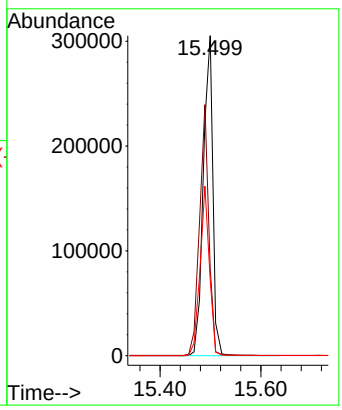


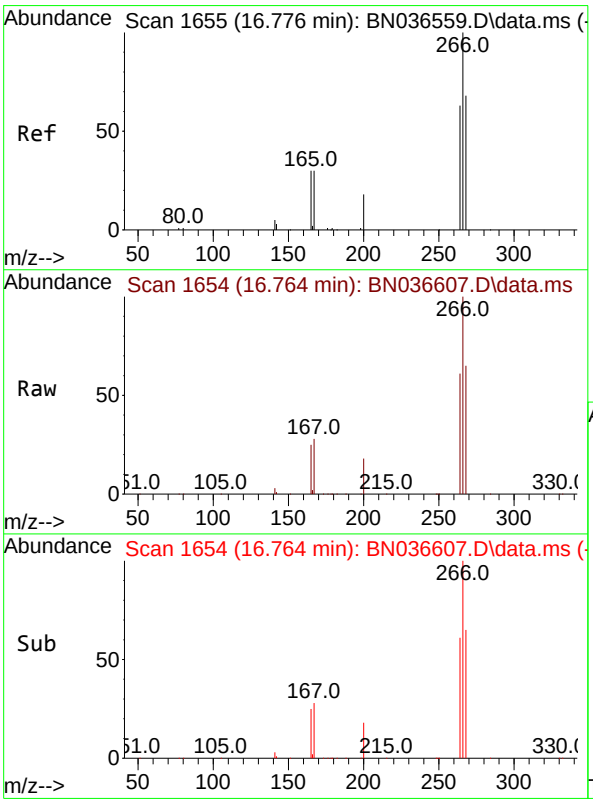
#20
4,6-Dinitro-2-methylphenol
Concen: 65.862 ng
RT: 15.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:198 Resp: 435659

Ion	Ratio	Lower	Upper
198	100		
51	27.4	107.9	161.9#
105	23.7	56.2	84.2#

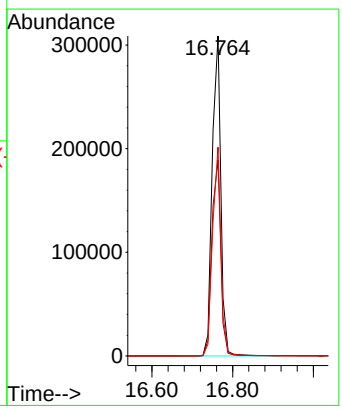


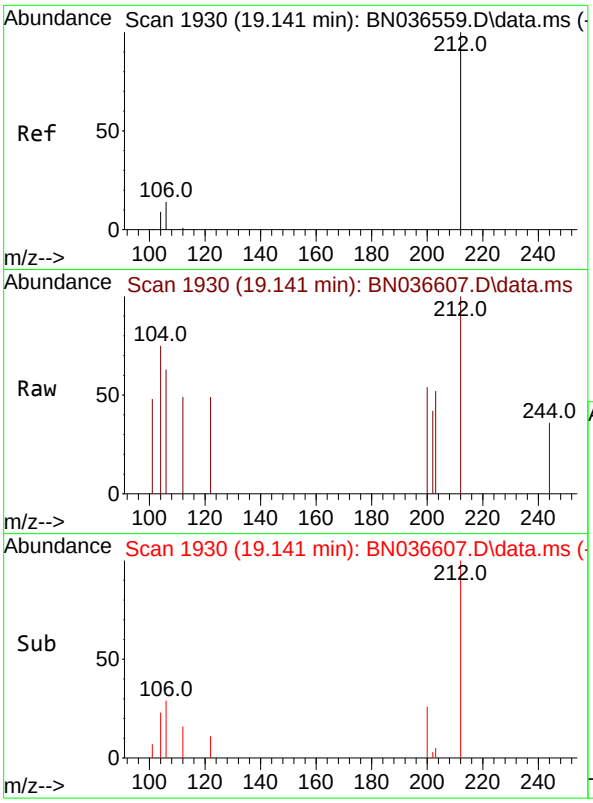


#24
Pentachlorophenol
Concen: 148.019 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Tgt Ion:266 Resp: 457468

Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.5	50.9	76.3



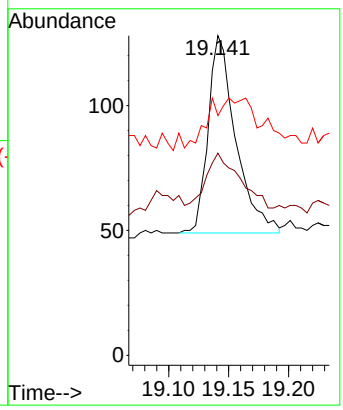


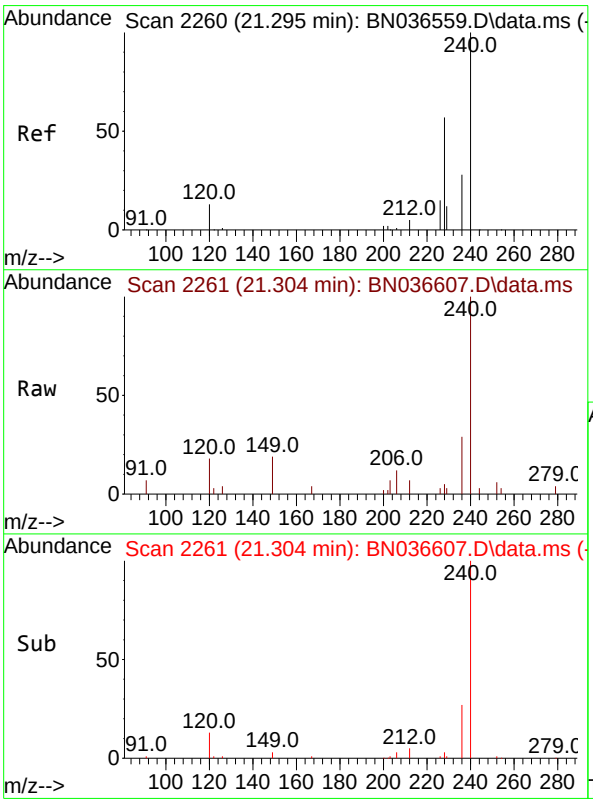
#27
Fluoranthene-d10
Concen: 0.006 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:212 Resp: 127

Ion	Ratio	Lower	Upper
212	100		
106	34.6	11.8	17.6#
104	40.2	7.3	10.9#

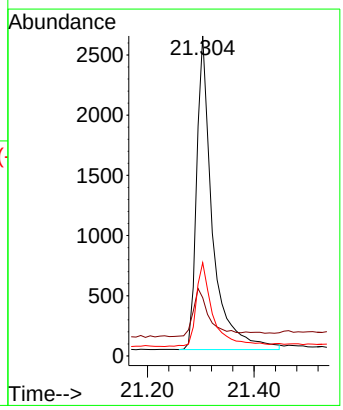


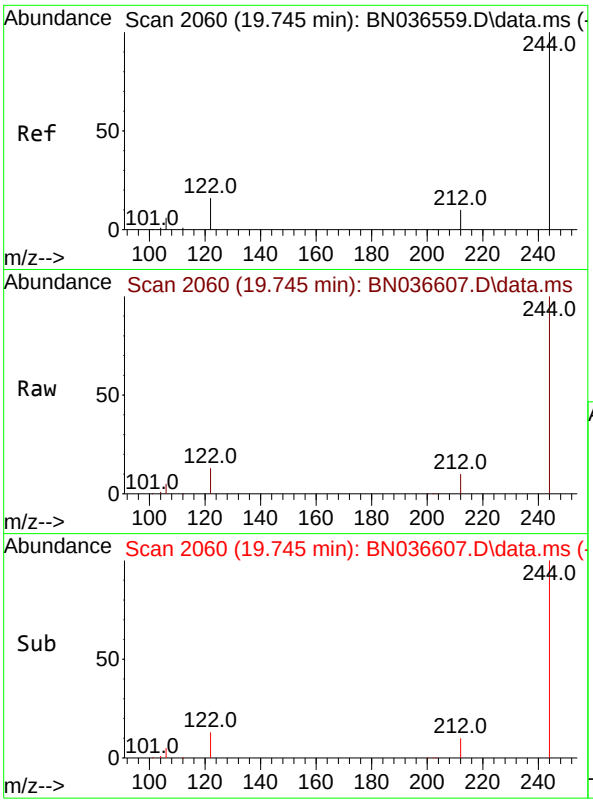


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.009 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Tgt Ion:240 Resp: 5365

Ion	Ratio	Lower	Upper
240	100		
120	18.2	14.6	22.0
236	29.2	24.1	36.1



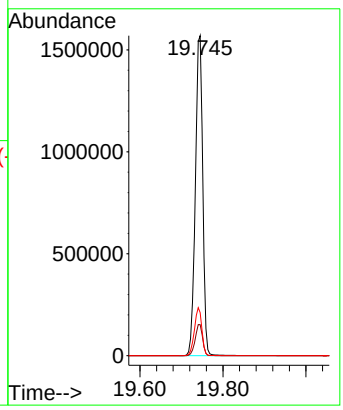


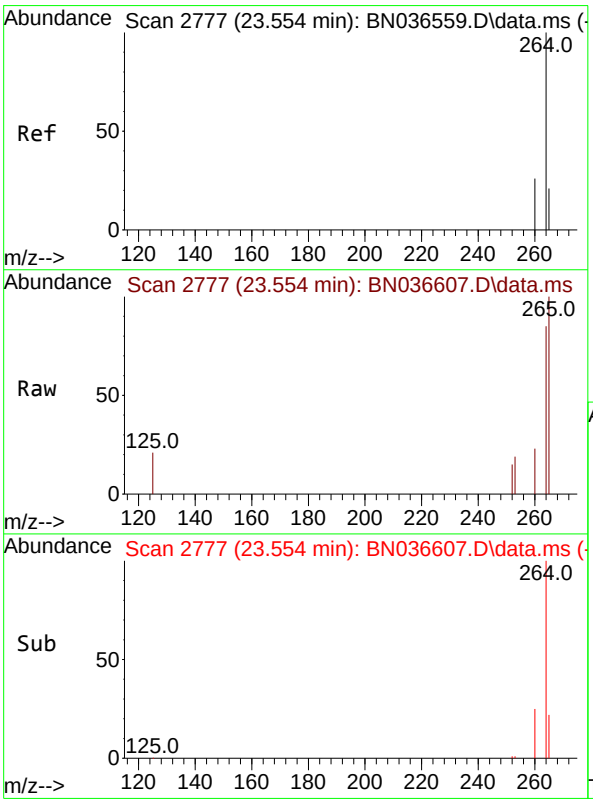
#31
Terphenyl-d14
Concen: 150.943 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:244 Resp: 1940216

Ion	Ratio	Lower	Upper
244	100		
212	9.7	9.6	14.4
122	13.5	13.9	20.9#

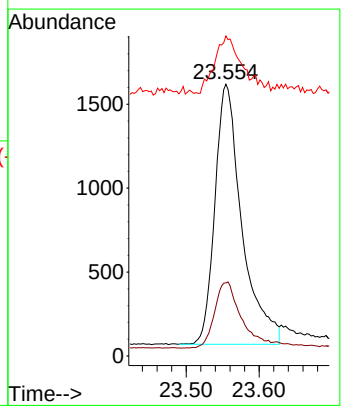




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.000 min
Lab File: BN036607.D
Acq: 14 Mar 2025 14:37

Tgt Ion:264 Resp: 3981

Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.6	33.8
265	117.8	88.1	132.1



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-ACIDS-WPDL	SDG No.:	Q1502
Lab Sample ID:	Q1502-08DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036608.D	20	03/13/25 12:40	03/14/25 15:33	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	88.3	D	3.00	4.00	ug/L
87-86-5	Pentachlorophenol	89.3	D	2.20	4.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	155	*	10 - 100	103%	SPK: 150
13127-88-3	Phenol-d6	164	*	10 - 100	109%	SPK: 150
118-79-6	2,4,6-Tribromophenol	171		10 - 131	114%	SPK: 150
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2320	7.717			
1146-65-2	Naphthalene-d8	6010	10.498			
15067-26-2	Acenaphthene-d10	3370	14.366			
1517-22-2	Phenanthrene-d10	7010	17.111			
1719-03-5	Chrysene-d12	4580	21.304			
1520-96-3	Perylene-d12	3730	23.56			

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\BN031425\
Data File : BN036608.D
Acq On : 14 Mar 2025 15:33
Operator : RC/JU
Sample : Q1502-08DL 20X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Quant Time: Mar 14 16:00:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

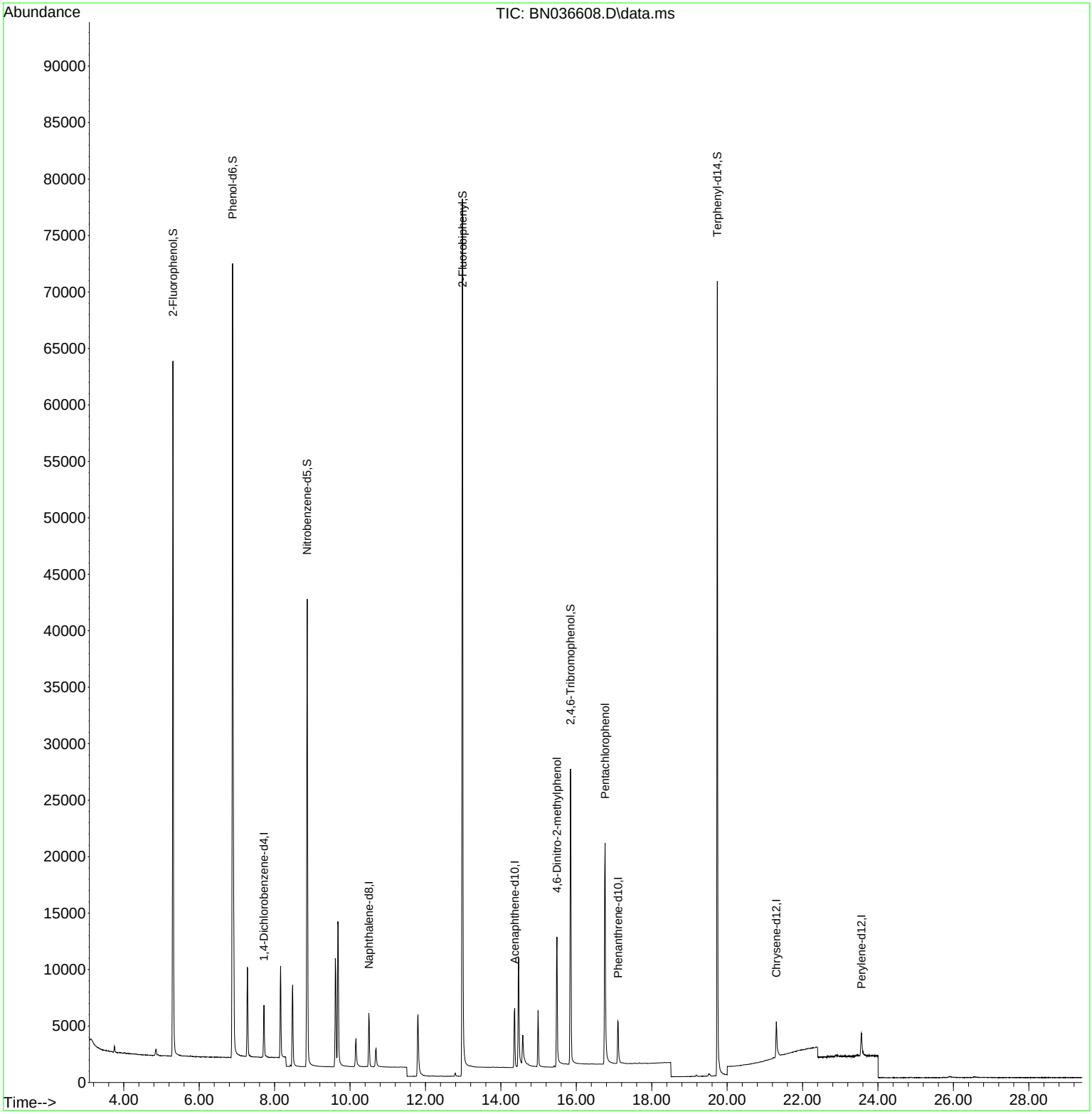
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2324	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	6014	0.400	ng	-0.01
13) Acenaphthene-d10	14.366	164	3371	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7010	0.400	ng	0.00
29) Chrysene-d12	21.304	240	4582	0.400	ng	0.00
35) Perylene-d12	23.560	264	3725	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	41988	7.752	ng	0.00
5) Phenol-d6	6.887	99	54884	8.204	ng	-0.01
8) Nitrobenzene-d5	8.865	82	30840	4.714	ng	-0.01
11) 2-Methylnaphthalene-d10	0.000	152	0d	0.000	ng	
14) 2,4,6-Tribromophenol	15.845	330	13092	8.559	ng	-0.01
15) 2-Fluorobiphenyl	12.983	172	105143	5.362	ng	0.00
27) Fluoranthene-d10	19.127	212	2	0.000	ng	-0.01
31) Terphenyl-d14	19.740	244	68962	6.282	ng	0.00
Target Compounds						Qvalue
20) 4,6-Dinitro-2-methylph...	15.489	198	8530	4.417	ng	# 46
24) Pentachlorophenol	16.764	266	10797	4.465	ng	99

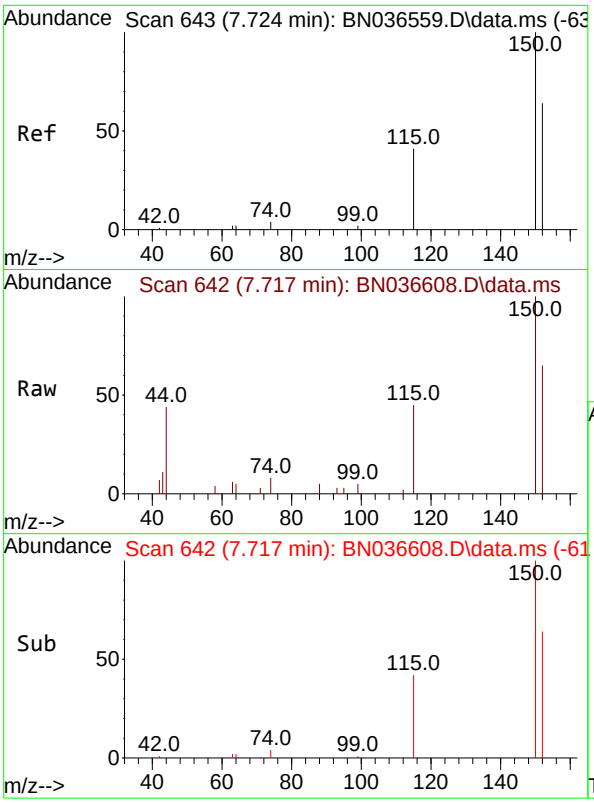
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036608.D
Acq On : 14 Mar 2025 15:33
Operator : RC/JU
Sample : Q1502-08DL 20X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Quant Time: Mar 14 16:00:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



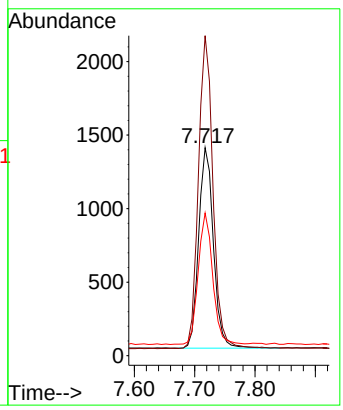


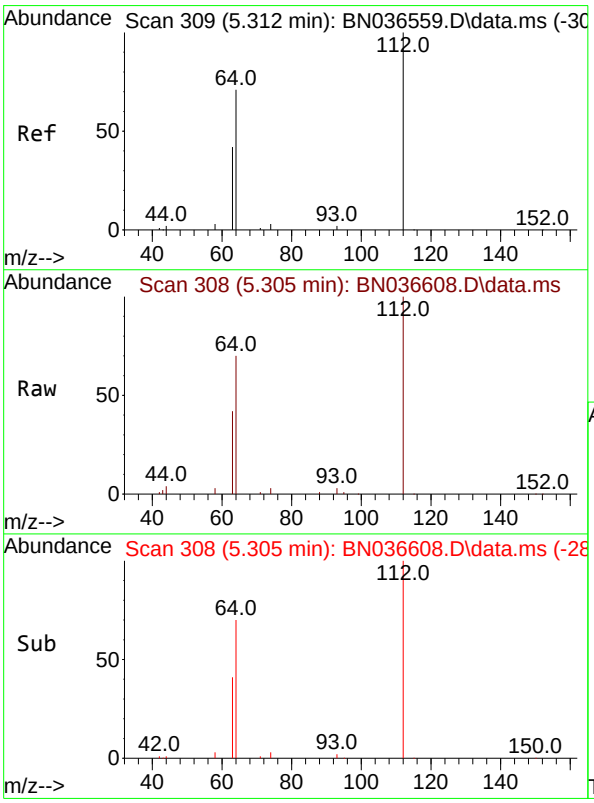
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:152 Resp: 2324

Ion	Ratio	Lower	Upper
152	100		
150	153.9	123.7	185.5
115	68.7	54.3	81.5

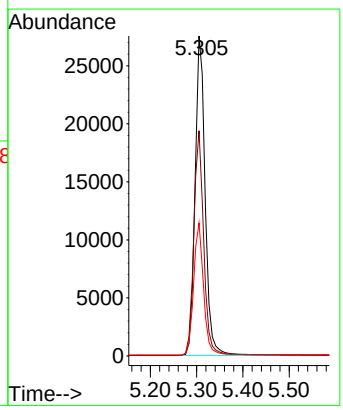


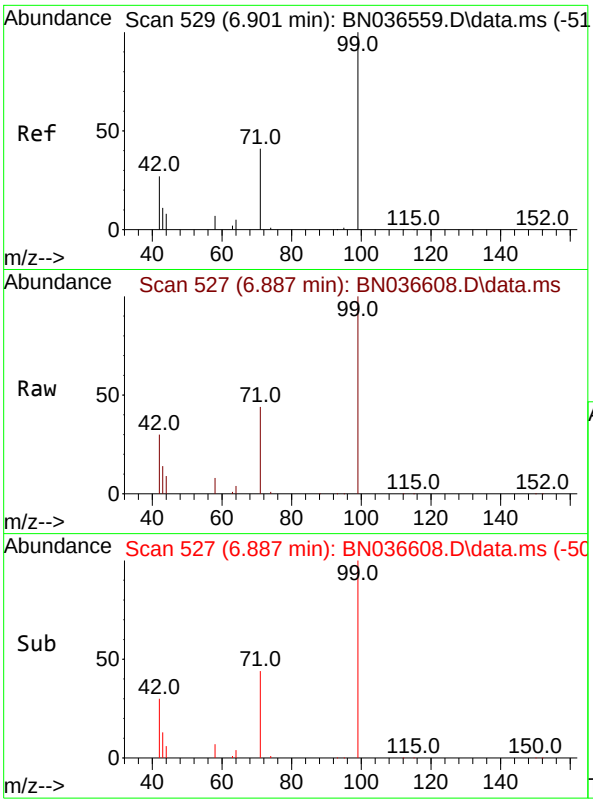


#4
2-Fluorophenol
Concen: 7.752 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Tgt Ion:112 Resp: 41988

Ion	Ratio	Lower	Upper
112	100		
64	69.2	53.1	79.7
63	40.6	31.8	47.8



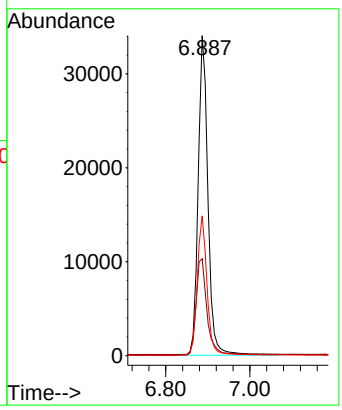


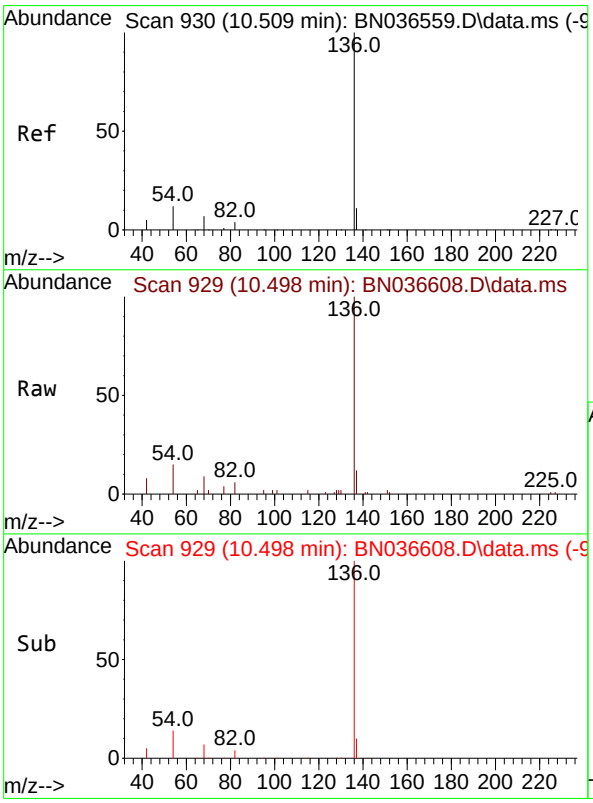
#5
Phenol-d6
Concen: 8.204 ng
RT: 6.887 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion: 99 Resp: 54884

Ion	Ratio	Lower	Upper
99	100		
42	33.3	26.5	39.7
71	43.4	34.1	51.1

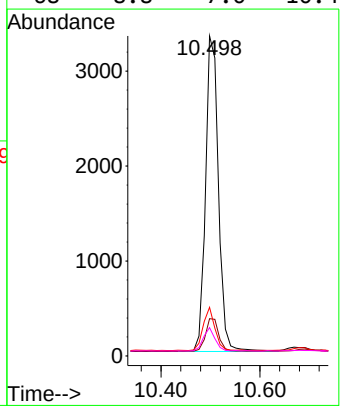


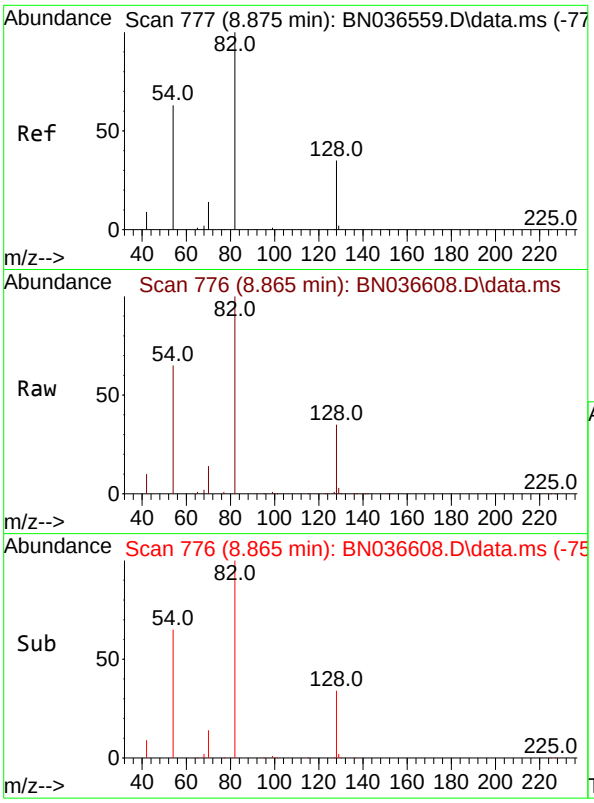


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Tgt Ion:136 Resp: 6014

Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.3	15.5
54	15.2	11.5	17.3
68	8.8	7.0	10.4



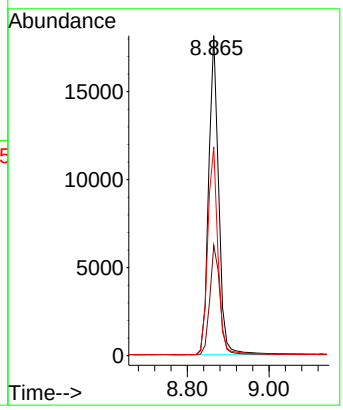


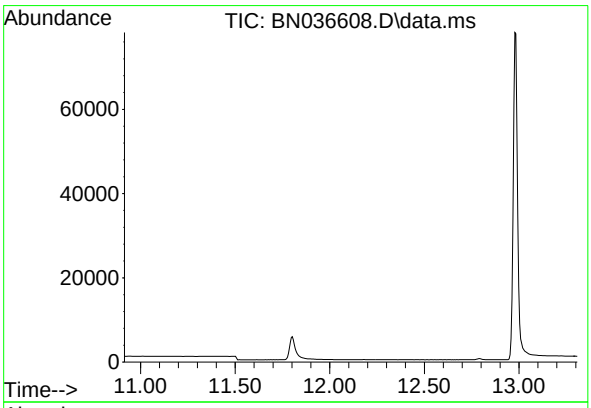
#8
Nitrobenzene-d5
Concen: 4.714 ng
RT: 8.865 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion: 82 Resp: 30840

Ion	Ratio	Lower	Upper
82	100		
128	34.5	30.6	45.8
54	65.2	52.2	78.4



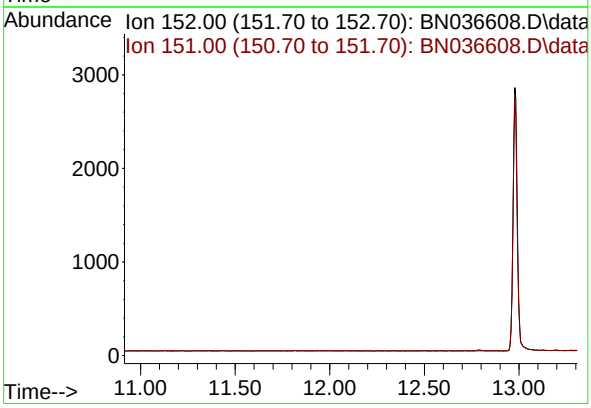


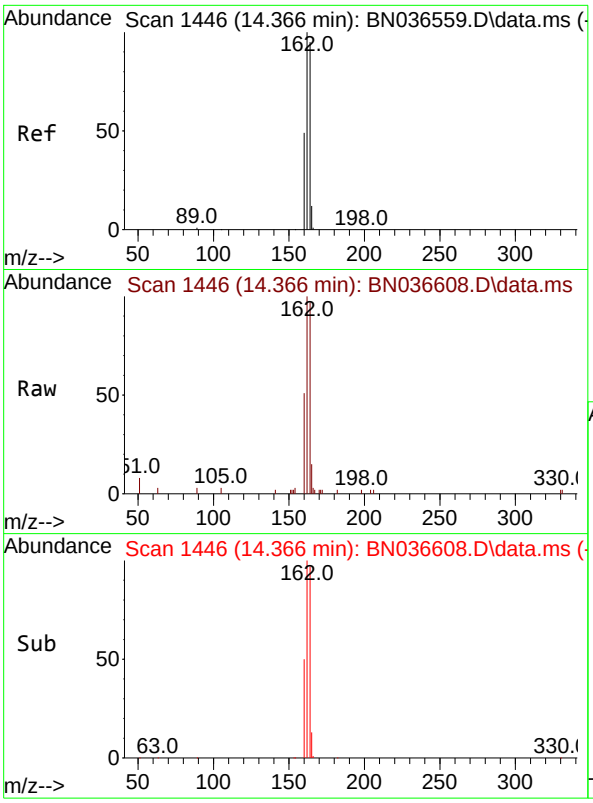
#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
Expected RT: 12.11 min

Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Tgt Ion: 152

Sig	Exp Ratio
152	100
151	21.3



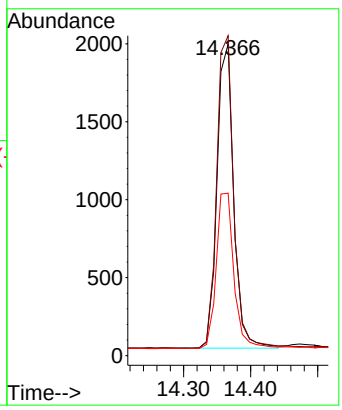


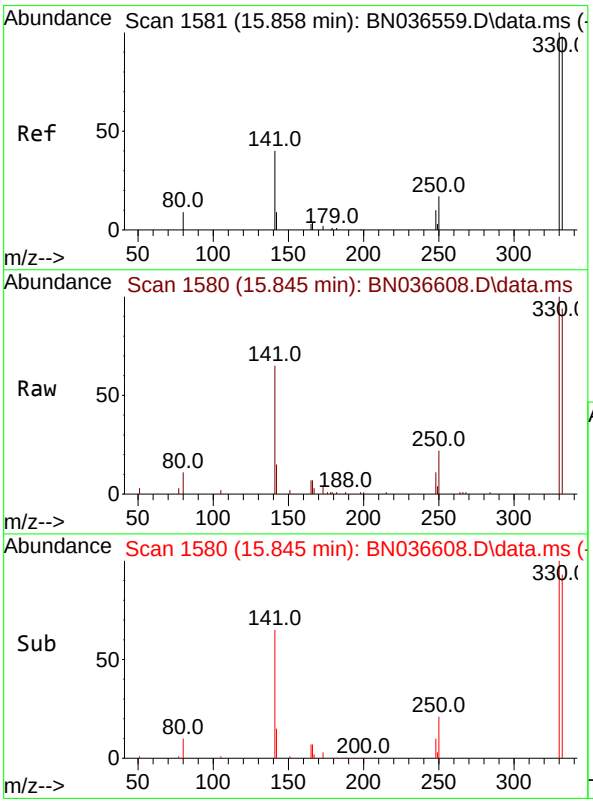
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:164 Resp: 3371

Ion	Ratio	Lower	Upper
164	100		
162	102.7	84.2	126.2
160	52.2	42.2	63.2

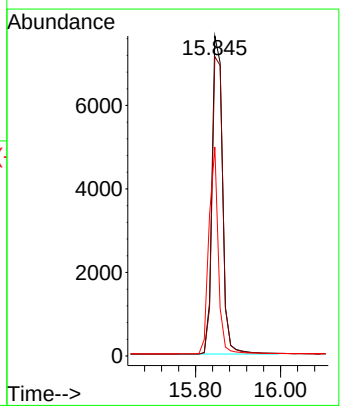


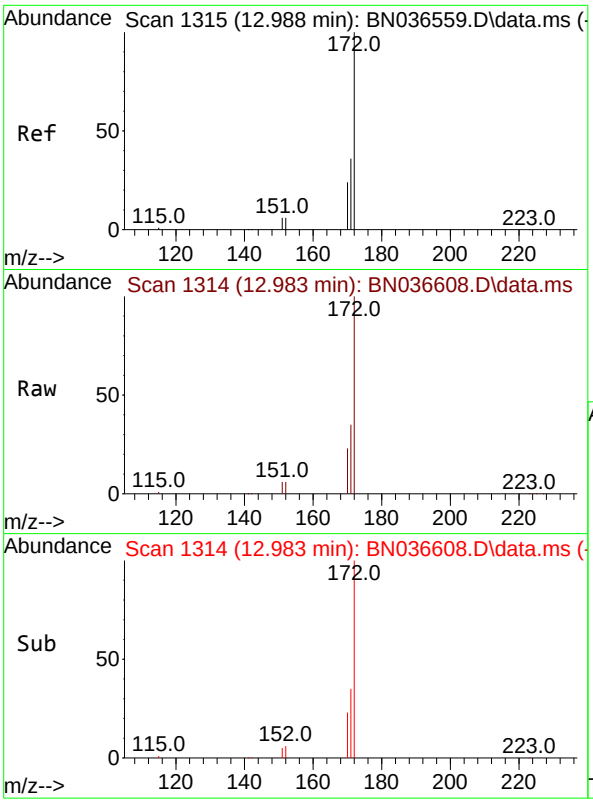


#14
2,4,6-Tribromophenol
Concen: 8.559 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Tgt Ion:330 Resp: 13092

Ion	Ratio	Lower	Upper
330	100		
332	96.0	75.2	112.8
141	57.8	43.4	65.2



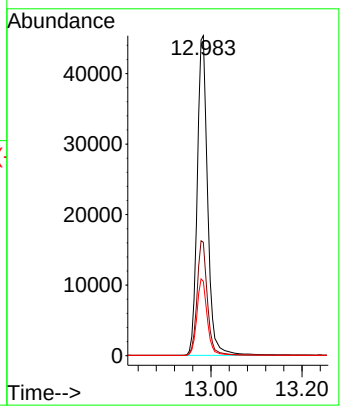


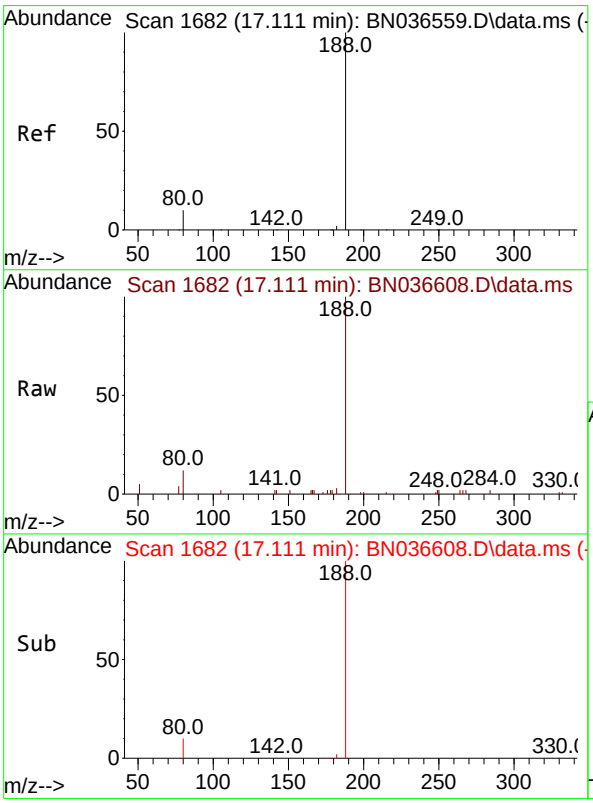
#15
2-Fluorobiphenyl
Concen: 5.362 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:172 Resp: 105143

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.5	44.3
170	23.3	20.2	30.4

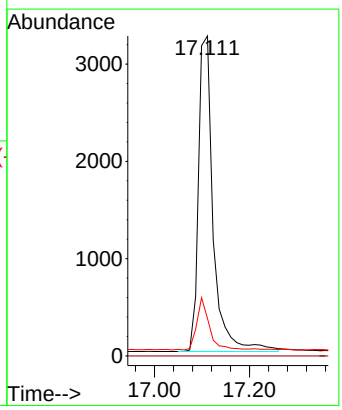


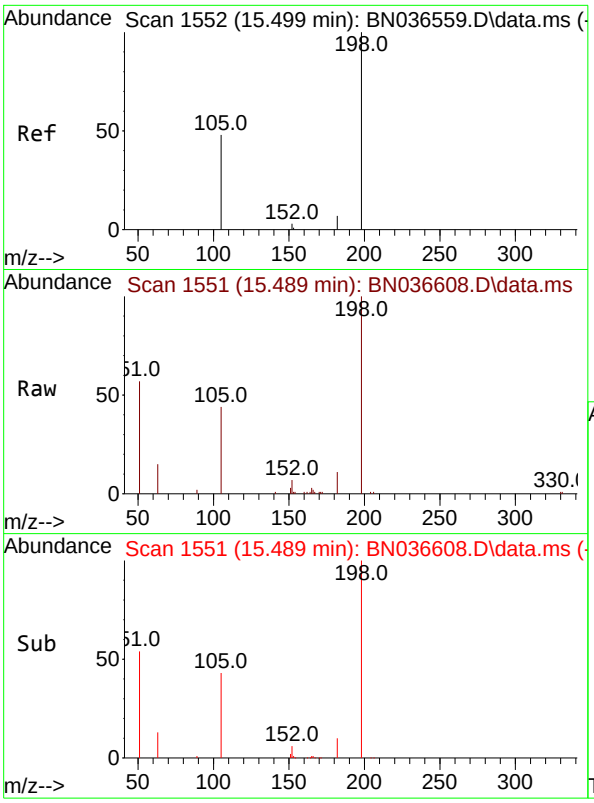


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Tgt Ion:188 Resp: 7010

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.7	8.8	13.2



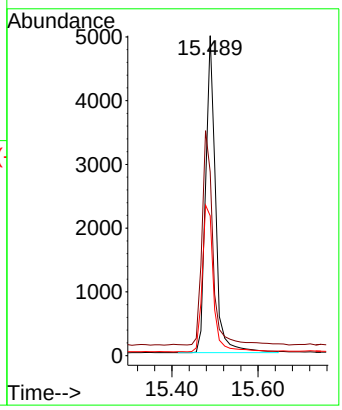


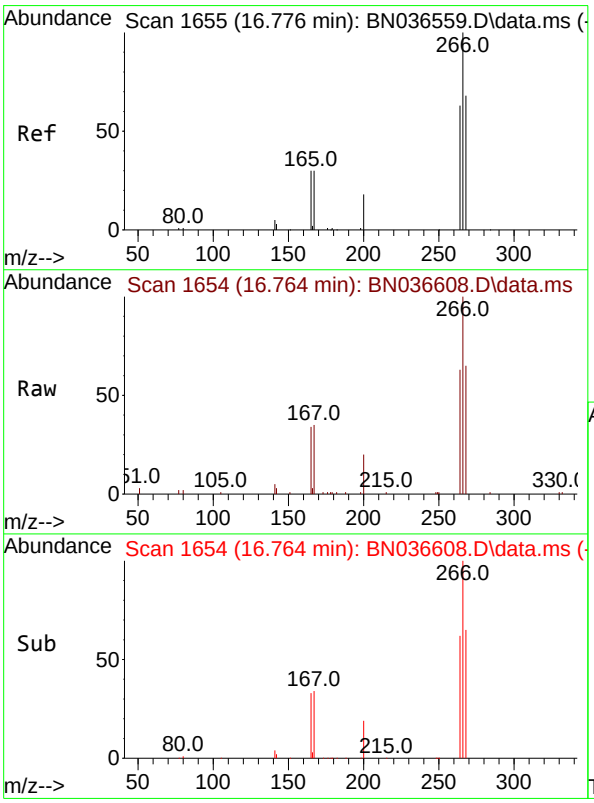
#20
4,6-Dinitro-2-methylphenol
Concen: 4.417 ng
RT: 15.489 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:198 Resp: 8530

Ion	Ratio	Lower	Upper
198	100		
51	57.4	107.9	161.9#
105	43.7	56.2	84.2#

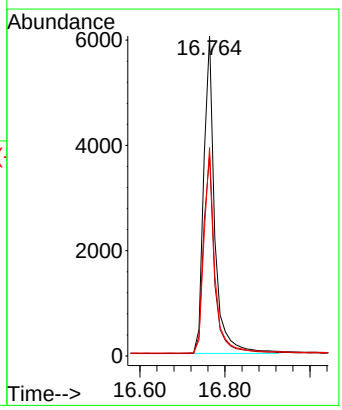


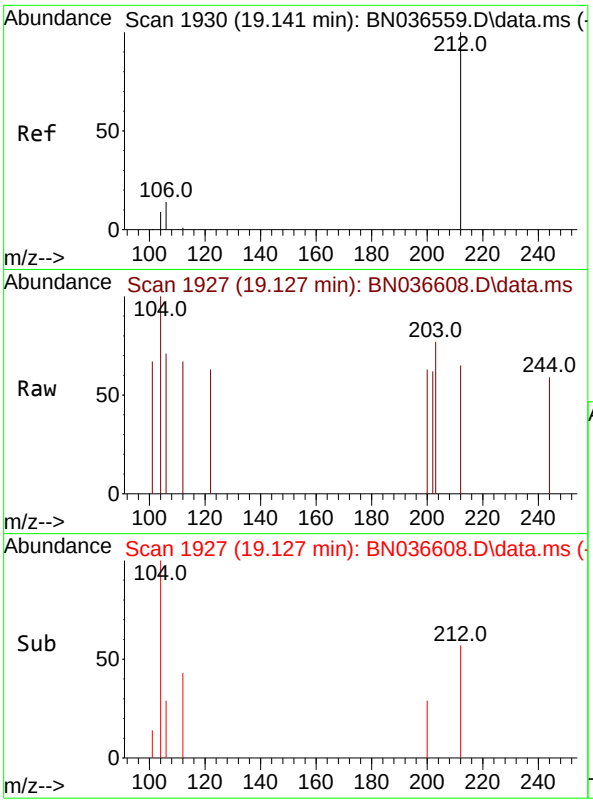


#24
Pentachlorophenol
Concen: 4.465 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Tgt Ion:266 Resp: 10797

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.6	74.4
268	63.5	50.9	76.3



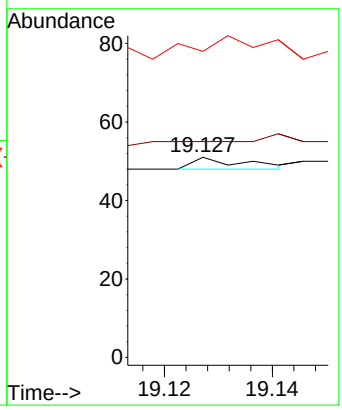


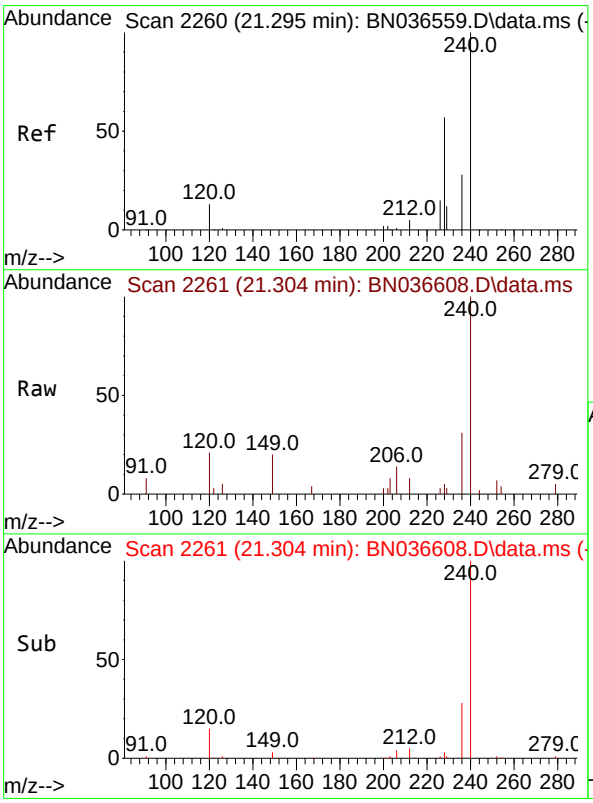
#27
Fluoranthene-d10
Concen: 0.000 ng
RT: 19.127 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:212 Resp: 2

Ion	Ratio	Lower	Upper
212	100		
106	50.0	11.8	17.6#
104	300.0	7.3	10.9#

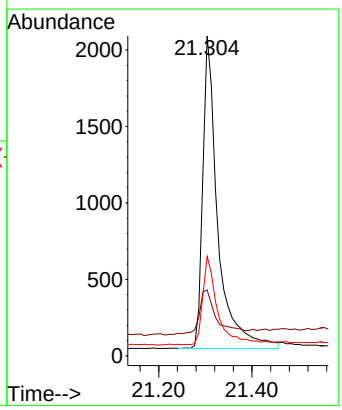


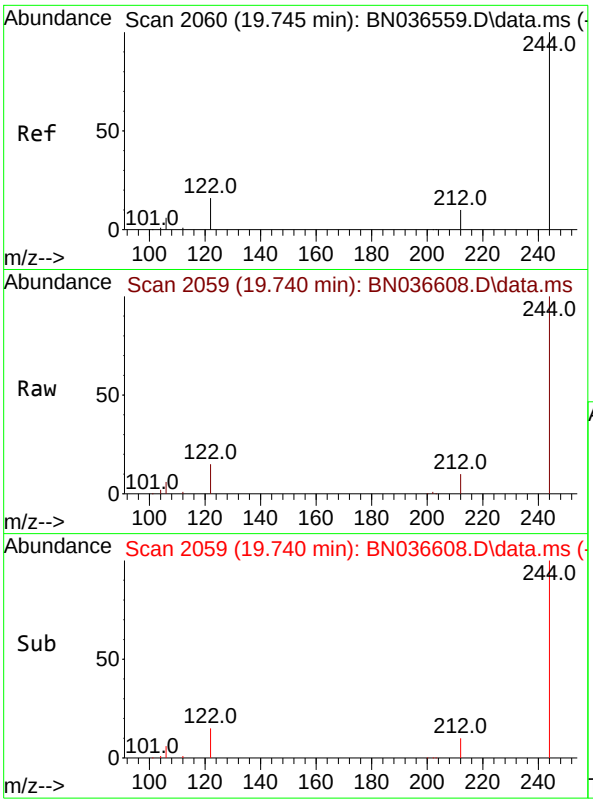


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.009 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Tgt Ion:240 Resp: 4582

Ion	Ratio	Lower	Upper
240	100		
120	20.6	14.6	22.0
236	31.1	24.1	36.1



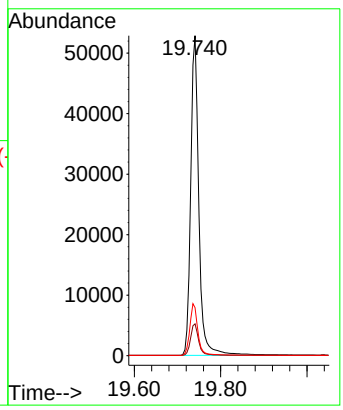


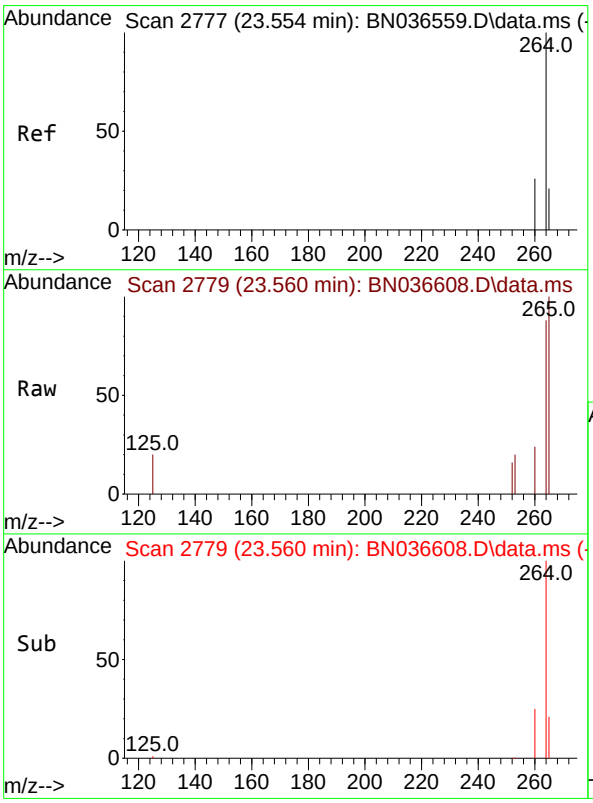
#31
Terphenyl-d14
Concen: 6.282 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:244 Resp: 68962

Ion	Ratio	Lower	Upper
244	100		
212	9.9	9.6	14.4
122	15.0	13.9	20.9

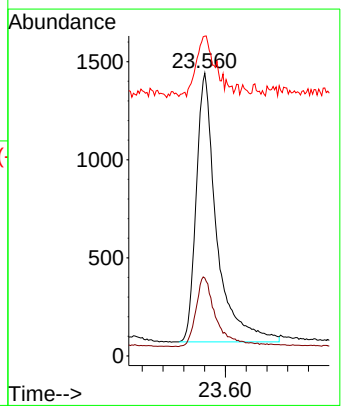




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.560 min Scan# 2779
Delta R.T. 0.006 min
Lab File: BN036608.D
Acq: 14 Mar 2025 15:33

Tgt Ion:264 Resp: 3725

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.6	33.8
265	113.0	88.1	132.1



CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN036557.D 0.2 =BN036558.D 0.4 =BN036559.D 0.8 =BN036560.D 1.6 =BN036561.D 3.2 =BN036562.D 5.0 =BN036563.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	0.434	0.439	0.498	0.451	0.440	0.445	0.399	0.444	6.60
3)		n-Nitrosodimet...	1.112	0.874	0.935	0.841	0.850	0.883	0.789	0.898	11.64
4)	S	2-Fluorophenol	0.931	0.908	0.987	0.878	0.914	0.996	0.911	0.932	4.67
5)	S	Phenol-d6	1.243	1.057	1.128	1.067	1.133	1.254	1.180	1.152	6.79
6)		bis(2-Chloroet...	1.426	1.150	1.183	1.129	1.132	1.210	1.104	1.190	9.22
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.572	0.396	0.415	0.401	0.402	0.450	0.411	0.435	14.47
9)		Naphthalene	1.371	1.125	1.206	1.111	1.108	1.222	1.094	1.177	8.45
10)		Hexachlorobuta...	0.296	0.283	0.294	0.267	0.261	0.286	0.251	0.277	6.24
11)	SURR	2-Methylnaphth...	0.656	0.549	0.606	0.562	0.577	0.633	0.581	0.595	6.55
12)		2-Methylnaphth...	0.810	0.696	0.765	0.703	0.734	0.802	0.731	0.749	6.03
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.181	0.160	0.187	0.169	0.188	0.197	0.188	0.182	7.04
15)	S	2-Fluorobiphenyl	2.208	1.982	2.398	2.350	2.364	2.566	2.419	2.327	7.96
16)		Acenaphthylene	1.882	1.756	1.938	1.794	1.834	2.074	1.935	1.888	5.66
17)		Acenaphthene	1.257	1.159	1.281	1.171	1.199	1.339	1.243	1.236	5.17
18)		Fluorene	1.629	1.600	1.764	1.609	1.670	1.778	1.650	1.672	4.32
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.057	0.077	0.075	0.088	0.110	0.111	0.086	24.66
21)		4-Bromophenyl-...	0.243	0.227	0.274	0.238	0.241	0.278	0.253	0.251	7.53
22)		Hexachlorobenzene	0.306	0.288	0.336	0.295	0.283	0.322	0.289	0.303	6.58
23)		Atrazine	0.193	0.191	0.213	0.192	0.200	0.216	0.200	0.201	5.08
24)		Pentachlorophenol	0.140	0.116	0.137	0.122	0.135	0.161	0.155	0.138	11.76
25)		Phenanthrene	1.190	1.111	1.297	1.141	1.165	1.300	1.195	1.200	6.09
26)		Anthracene	1.026	0.971	1.147	1.033	1.075	1.215	1.112	1.083	7.60
27)	SURR	Fluoranthene-d10	1.037	0.955	1.116	0.956	1.025	1.087	1.000	1.025	5.98
28)		Fluoranthene	1.341	1.243	1.452	1.272	1.364	1.447	1.316	1.348	5.95
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.945	2.005	2.131	1.910	1.870	1.992	1.837	1.956	5.04
31)	S	Terphenyl-d14	0.962	0.965	1.028	0.924	0.915	0.987	0.926	0.958	4.23
32)		Benzo(a)anthra...	1.389	1.315	1.437	1.304	1.347	1.528	1.415	1.391	5.63
33)		Chrysene	1.486	1.509	1.610	1.507	1.462	1.616	1.448	1.520	4.44
34)		Bis(2-ethylhex...	1.196	1.100	1.044	0.865	0.946	0.912	0.870	0.990	12.74
35)	I	Perylene-d12	----------ISTD----------								

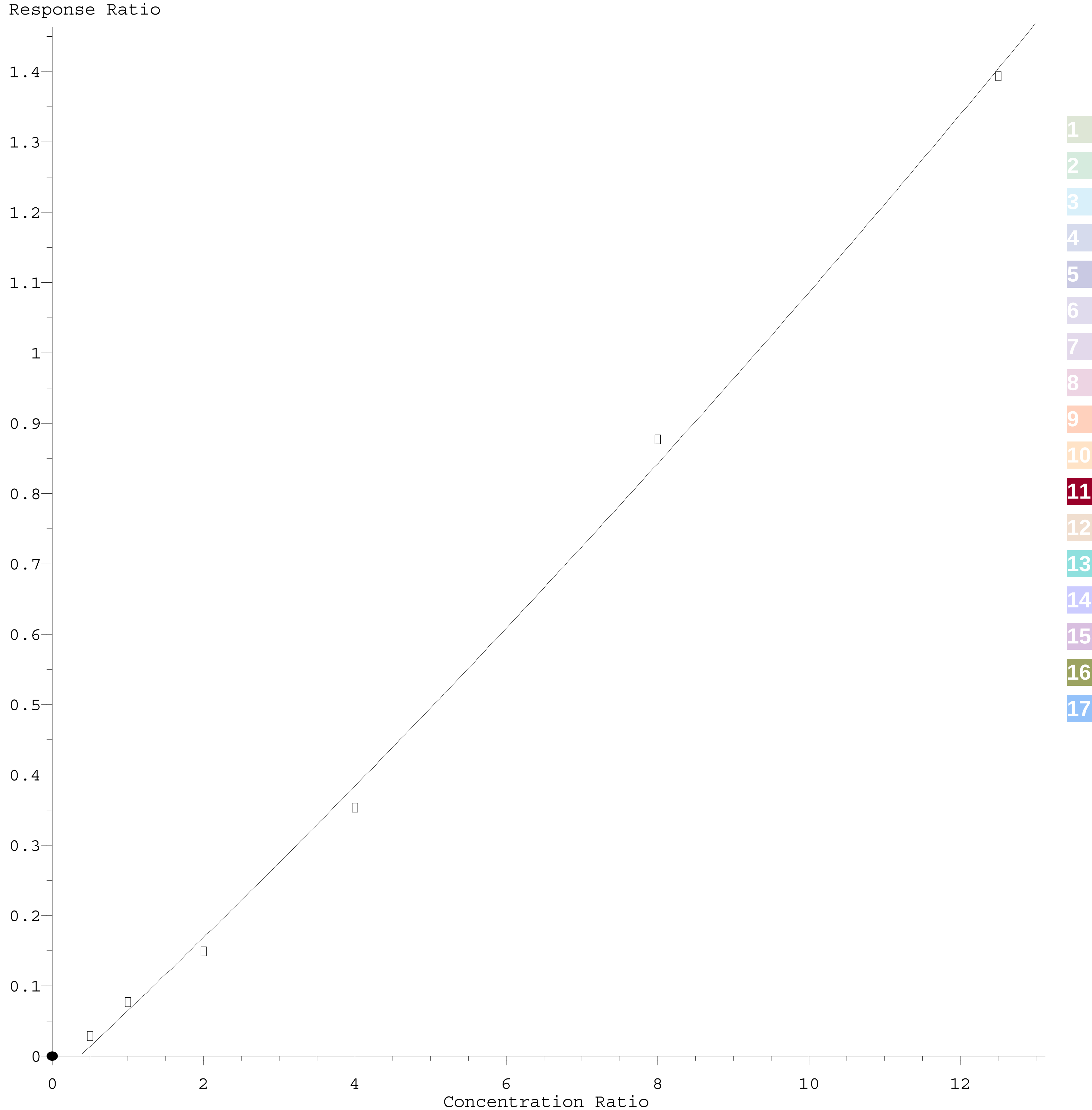
Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN031025.M

36)		Indeno(1,2,3-c...	1.160	1.316	1.546	1.404	1.417	1.693	1.571	1.444	12.27
37)		Benzo(b)fluora...	1.311	1.360	1.547	1.402	1.477	1.595	1.498	1.456	7.04
38)		Benzo(k)fluora...	1.504	1.397	1.620	1.481	1.521	1.635	1.534	1.527	5.34
39)	C	Benzo(a)pyrene	1.090	1.152	1.303	1.195	1.223	1.350	1.268	1.226	7.29
40)		Dibenzo(a,h)an...	0.893	0.981	1.163	1.126	1.102	1.351	1.252	1.124	13.76
41)		Benzo(g,h,i)pe...	1.138	1.213	1.382	1.250	1.233	1.449	1.334	1.286	8.36

(#) = Out of Range

4,6-Dinitro-2-methylphenol



R = 1.185e-003 A*A + 1.005e-001 A - 3.674e-002
Coef of Det (r^2) = 0.997987   Curve Fit: Quadratic
Method Name: Z:\enreasrv\HPCHEM1\BNA N\Methods\8270-SIM-BN031025.M
Calibration Table Last Updated: Mon Mar 10 16:06:28 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2755	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6575	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3958	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	8269	0.400	ng		0.00
29) Chrysene-d12	21.295	240	5886	0.400	ng		0.00
35) Perylene-d12	23.554	264	5207	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	641	0.100	ng		0.00
5) Phenol-d6	6.901	99	856	0.108	ng		0.00
8) Nitrobenzene-d5	8.875	82	940	0.131	ng		0.00
11) 2-Methylnaphthalene-d10	12.111	152	1079	0.110	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	179	0.100	ng		0.00
15) 2-Fluorobiphenyl	12.993	172	2185	0.095	ng		0.00
27) Fluoranthene-d10	19.141	212	2144	0.101	ng		0.00
31) Terphenyl-d14	19.745	244	1416	0.100	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	299m	0.098	ng		
3) n-Nitrosodimethylamine	3.557	42	766	0.124	ng	#	95
6) bis(2-Chloroethyl)ether	7.154	93	982	0.120	ng		98
9) Naphthalene	10.562	128	2254	0.117	ng	#	94
10) Hexachlorobutadiene	10.850	225	486	0.107	ng	#	100
12) 2-Methylnaphthalene	12.187	142	1331	0.108	ng		96
16) Acenaphthylene	14.078	152	1862	0.100	ng		99
17) Acenaphthene	14.430	154	1244	0.102	ng		99
18) Fluorene	15.414	166	1612	0.097	ng		99
21) 4-Bromophenyl-phenylether	16.304	248	502	0.097	ng		95
22) Hexachlorobenzene	16.416	284	632	0.101	ng		98
23) Atrazine	16.578	200	400	0.096	ng	#	90
24) Pentachlorophenol	16.776	266	290	0.102	ng		98
25) Phenanthrene	17.148	178	2459	0.099	ng		99
26) Anthracene	17.248	178	2121	0.095	ng		100
28) Fluoranthene	19.174	202	2772	0.099	ng		97
30) Pyrene	19.536	202	2862	0.099	ng		100
32) Benzo(a)anthracene	21.286	228	2044	0.100	ng		94
33) Chrysene	21.331	228	2187	0.098	ng		93
34) Bis(2-ethylhexyl)phtha...	21.214	149	1760	0.121	ng		96
36) Indeno(1,2,3-cd)pyrene	25.841	276	1510	0.080	ng		98
37) Benzo(b)fluoranthene	22.876	252	1707	0.090	ng	#	62
38) Benzo(k)fluoranthene	22.923	252	1958	0.098	ng	#	62
39) Benzo(a)pyrene	23.458	252	1419	0.089	ng	#	51
40) Dibenzo(a,h)anthracene	25.861	278	1163	0.079	ng	#	59
41) Benzo(g,h,i)perylene	26.539	276	1482	0.089	ng	#	84

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

ICAL Form

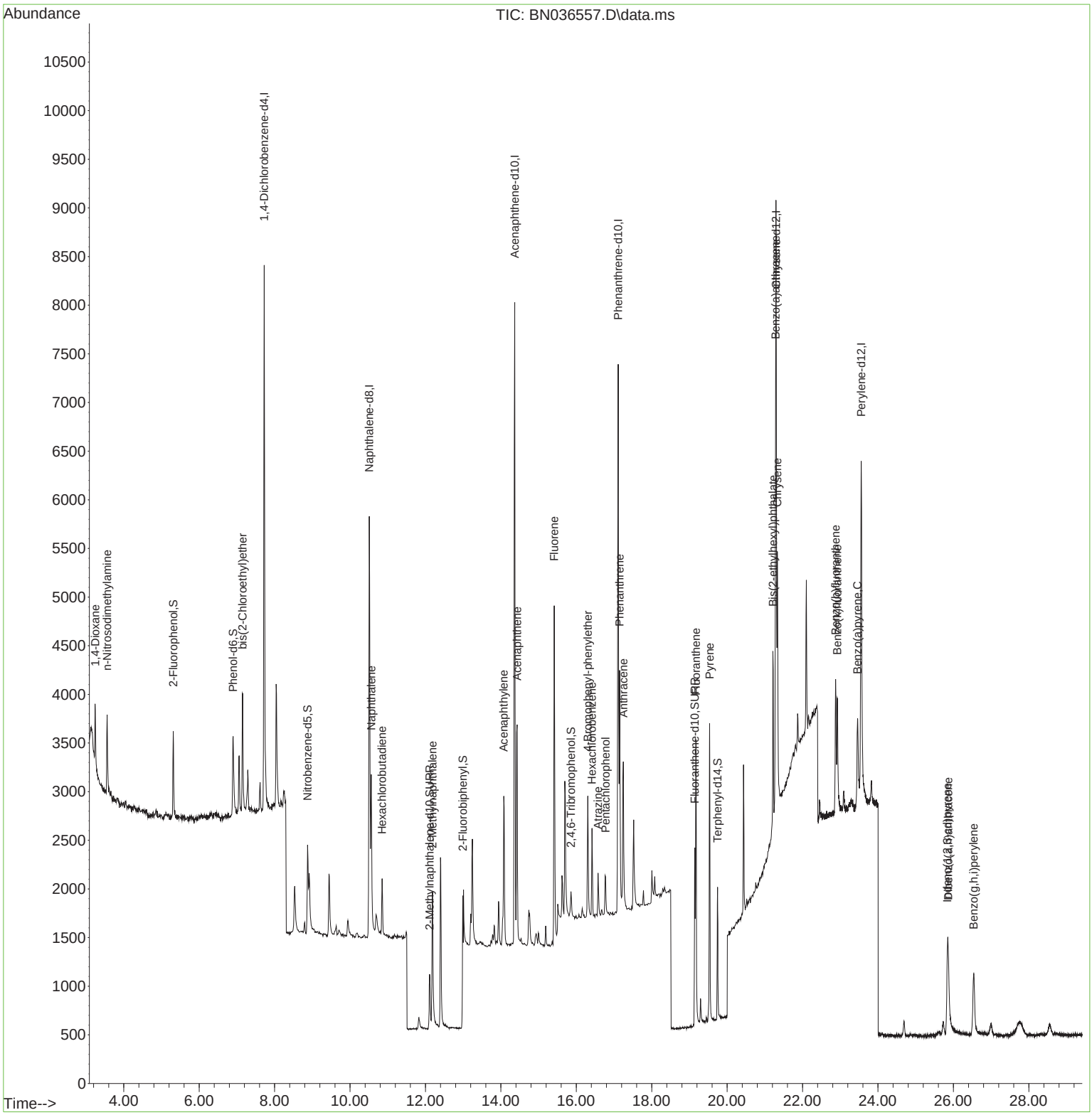
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

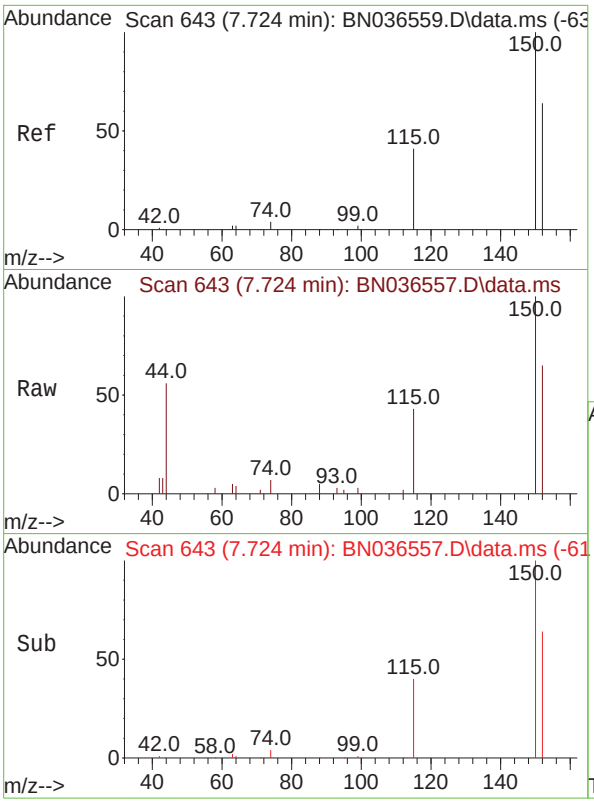
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

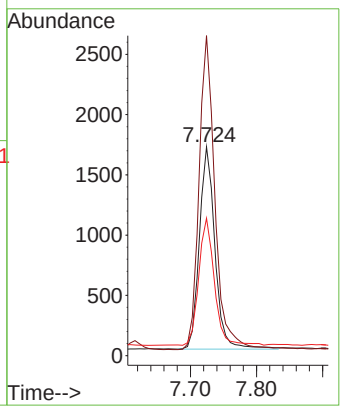




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 275

Ion	Ratio	Lower	Upper
152	100		
150	153.3	123.7	185.5
115	65.8	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
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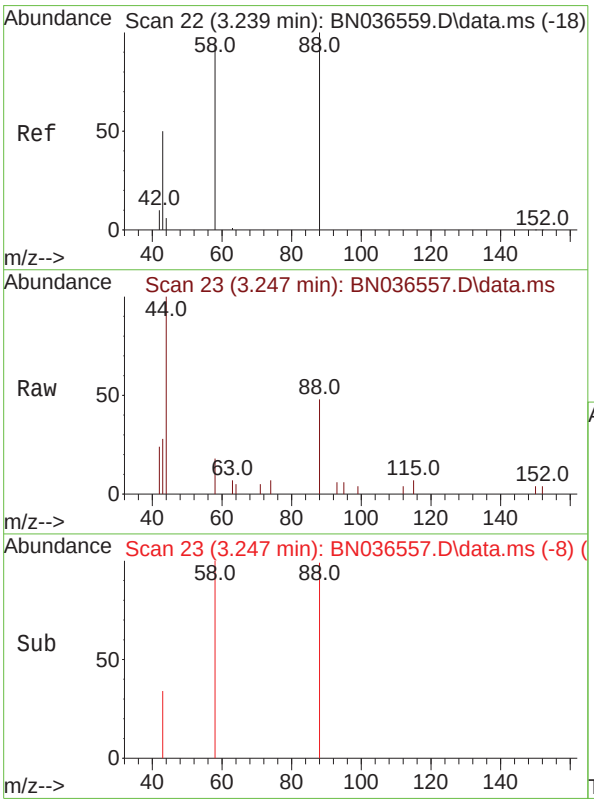
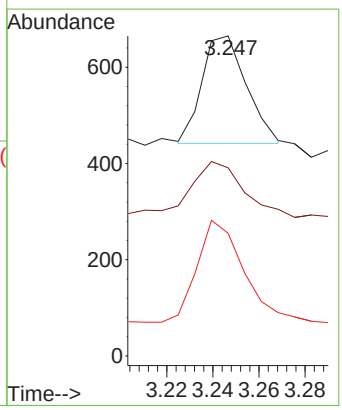
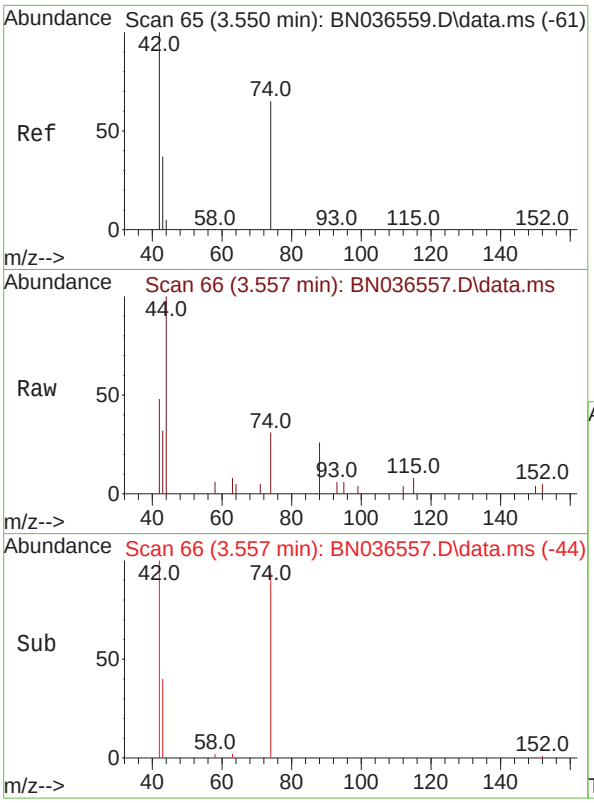


#2
1,4-Dioxane
Concen: 0.098 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 88 Resp: 299

Ion	Ratio	Lower	Upper
88	100		
43	94.6	37.8	56.8#
58	102.3	67.4	101.2#

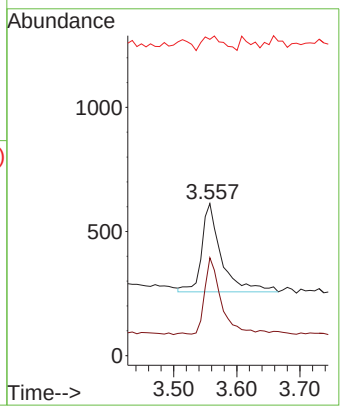




#3
n-Nitrosodimethylamine
Concen: 0.124 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 42 Resp: 76

Ion	Ratio	Lower	Upper
42	100		
74	73.0	60.6	90.8
44	16.6	6.3	9.5



Instrument :
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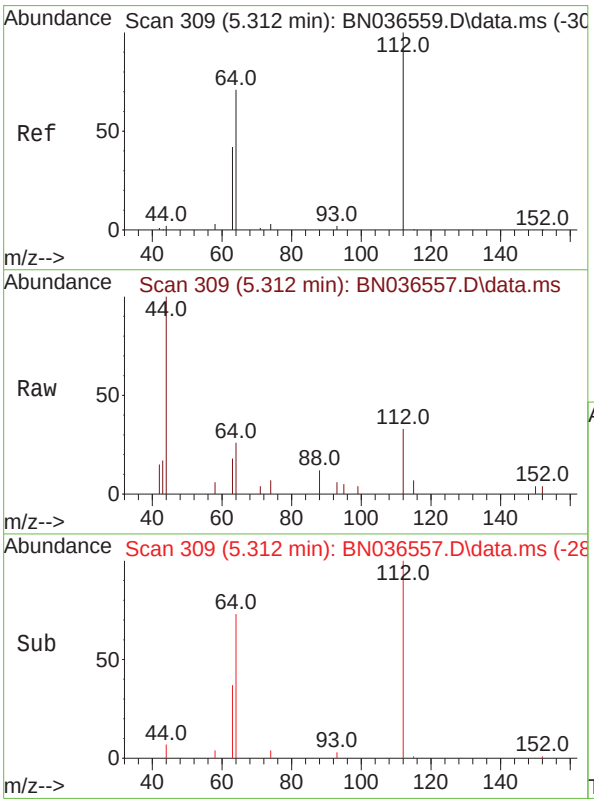
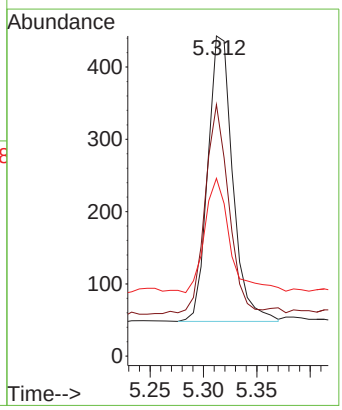
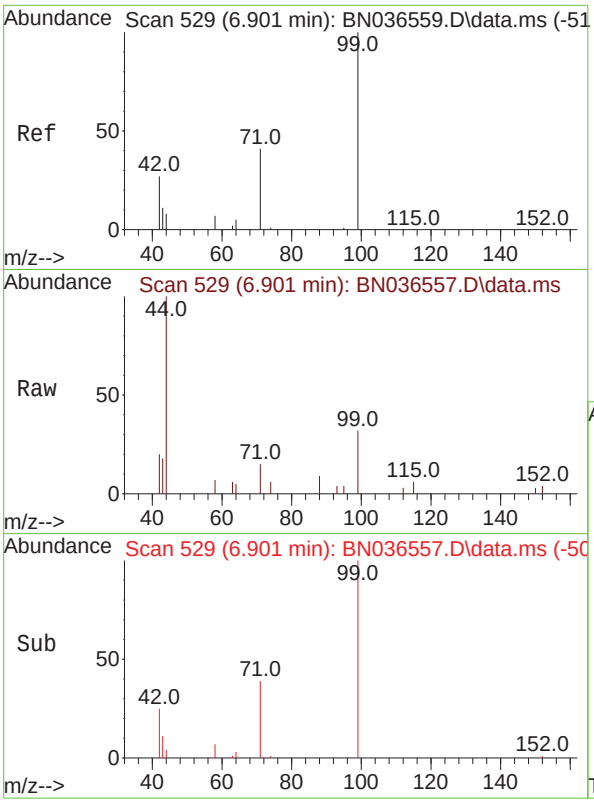


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:112 Resp: 641

Ion	Ratio	Lower	Upper
112	100		
64	70.4	53.1	79.7
63	40.9	31.8	47.8

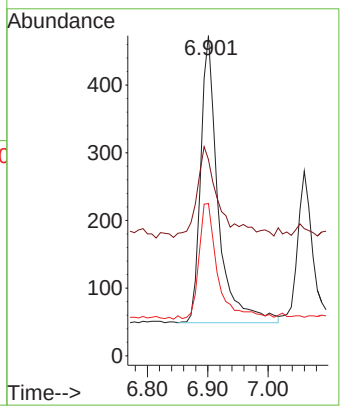




#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 99 Resp: 85

Ion	Ratio	Lower	Upper
99	100		
42	39.8	26.5	39.7#
71	42.8	34.1	51.1



Instrument :
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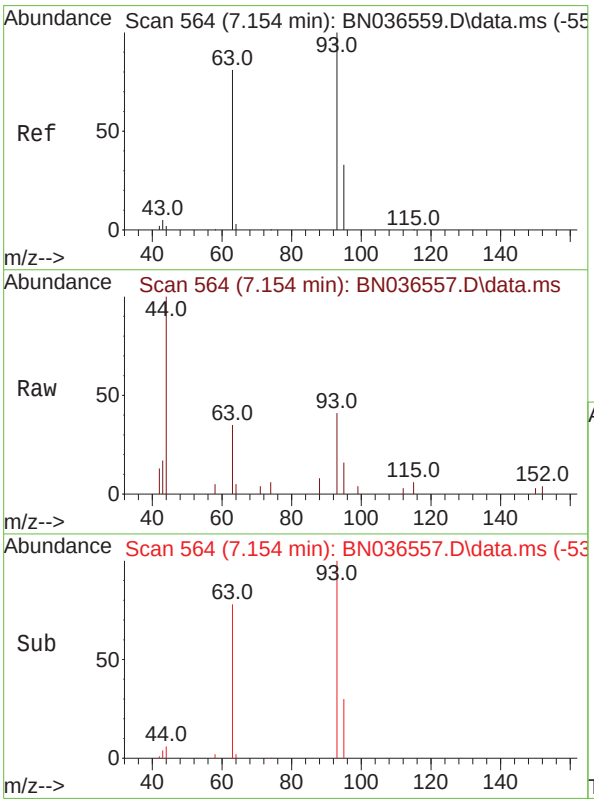
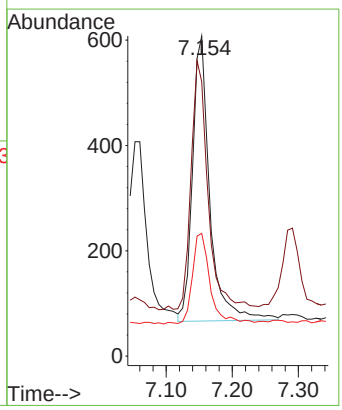
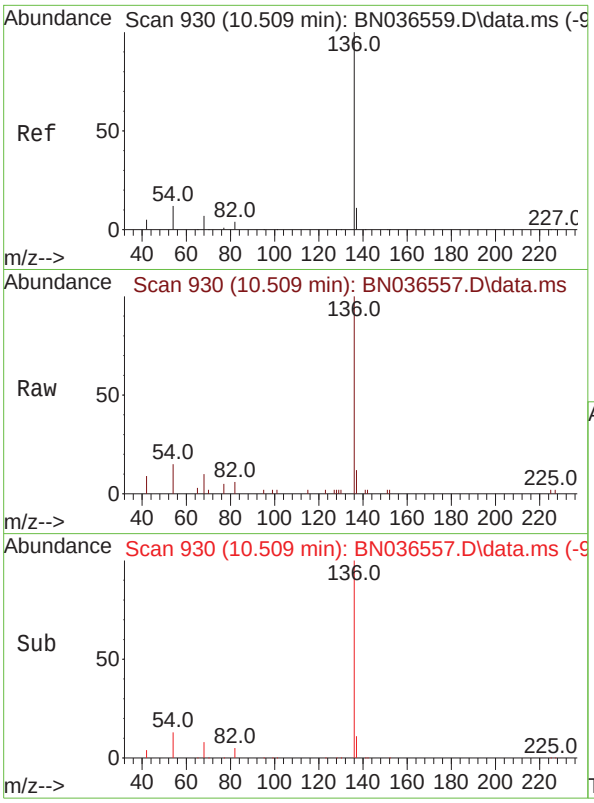


#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 93 Resp: 982

Ion	Ratio	Lower	Upper
93	100		
63	86.7	67.7	101.5
95	33.0	25.6	38.4

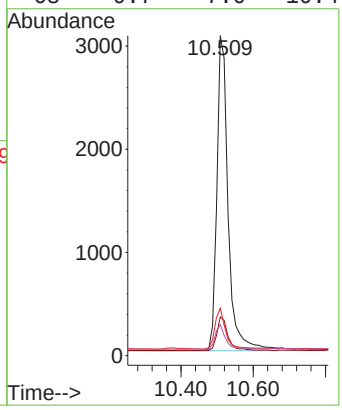




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:136 Resp: 657

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	14.8	11.5	17.3
68	9.7	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
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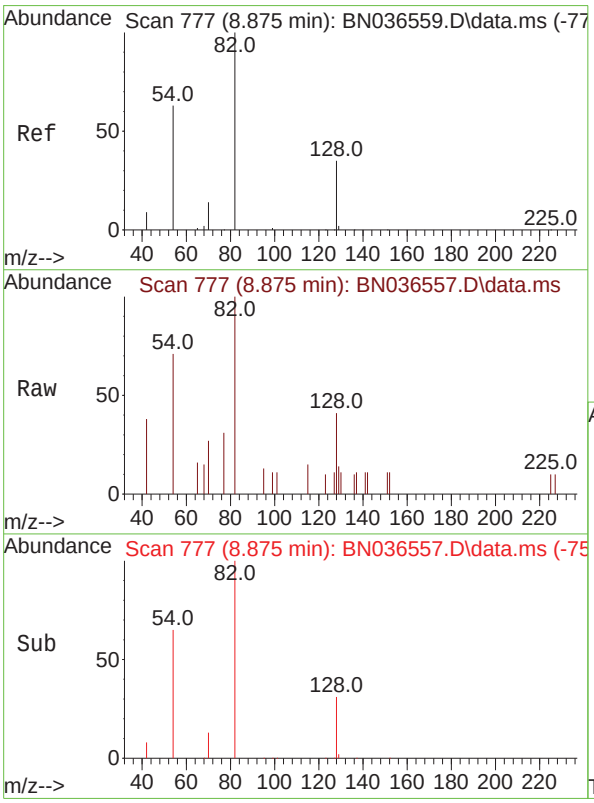
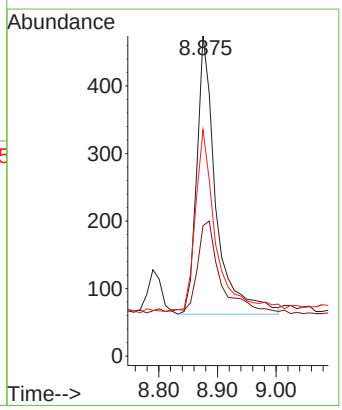
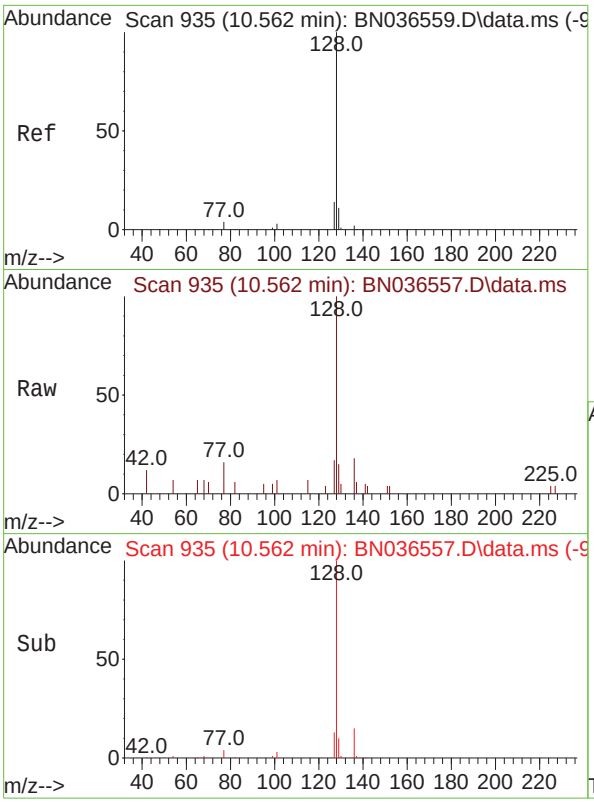


#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 82 Resp: 940

Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	70.7	52.2	78.4

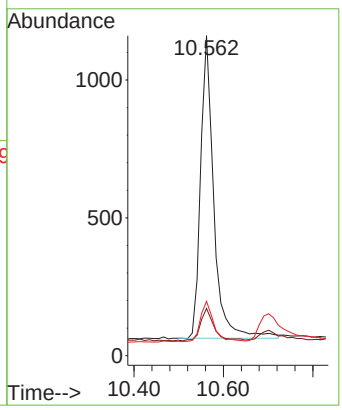




#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:128 Resp: 225

Ion	Ratio	Lower	Upper
128	100		
129	14.7	9.8	14.6#
127	17.0	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
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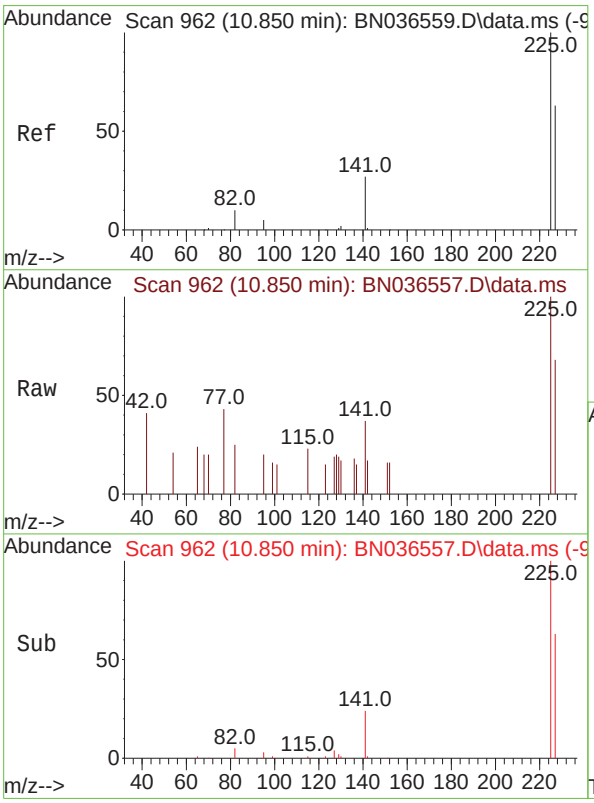
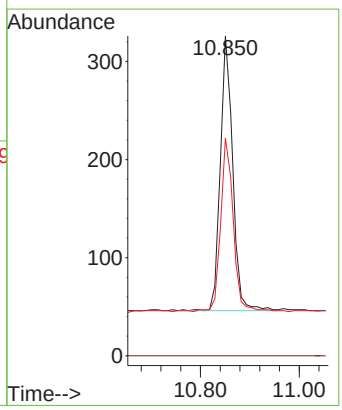
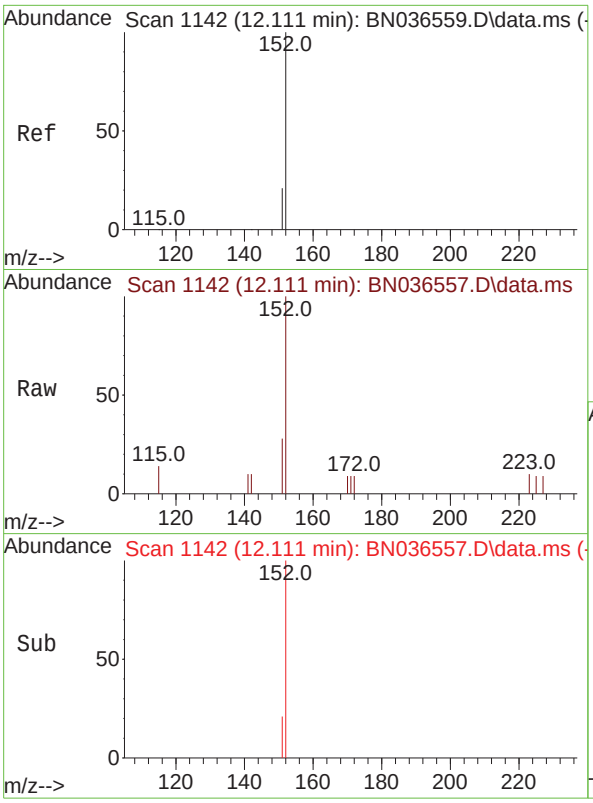


#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:225 Resp: 486

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.8	51.8	77.8

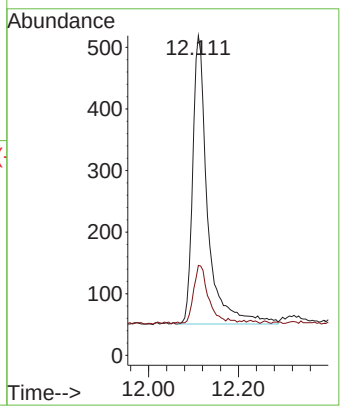




#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 107

Ion	Ratio	Lower	Upper
152	100		
151	19.5	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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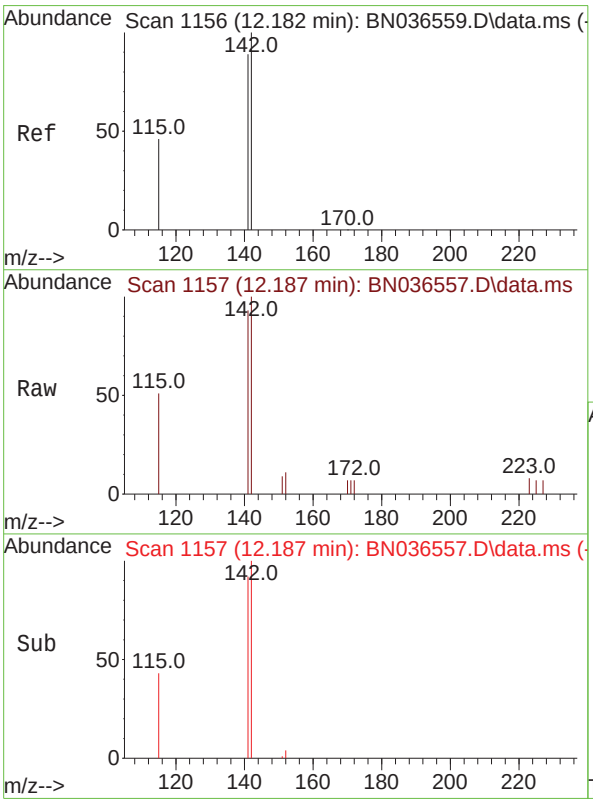
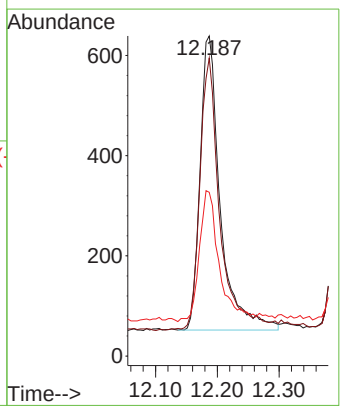
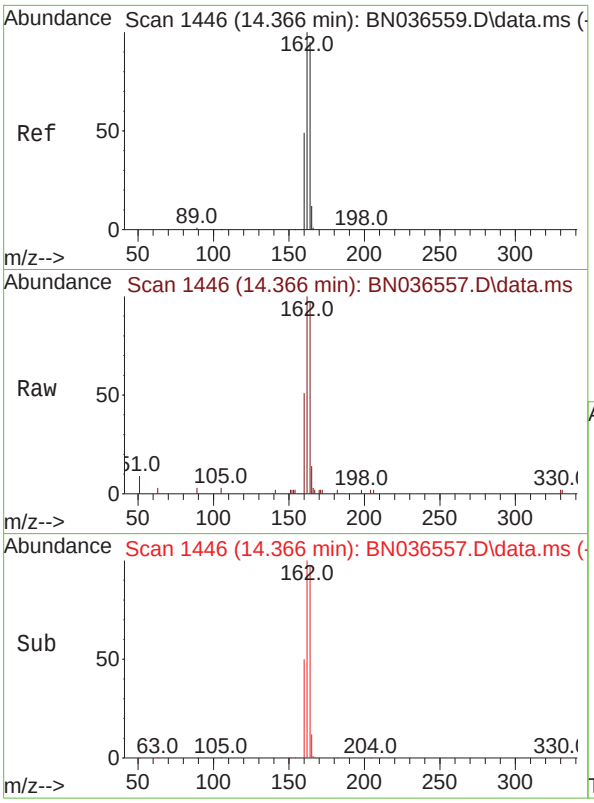


#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:142 Resp: 1331

Ion	Ratio	Lower	Upper
142	100		
141	93.1	71.7	107.5
115	51.2	38.3	57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:164 Resp: 395

Ion	Ratio	Lower	Upper
164	100		
162	103.3	84.2	126.2
160	53.0	42.2	63.2

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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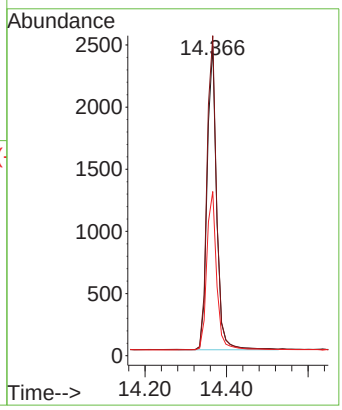
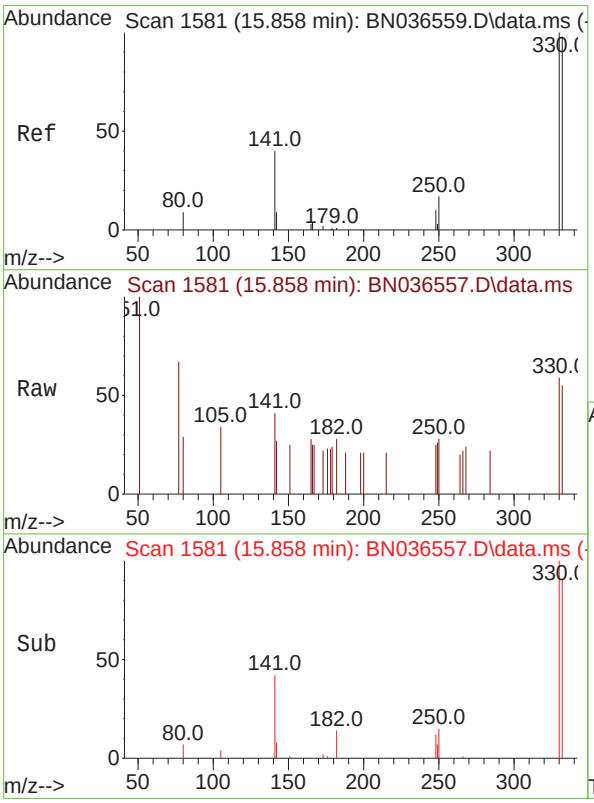
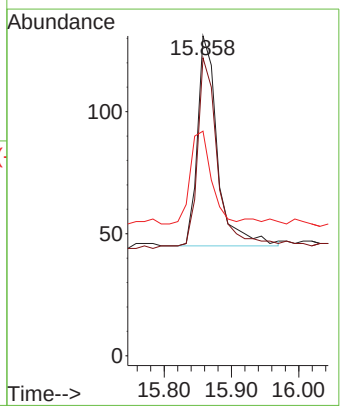


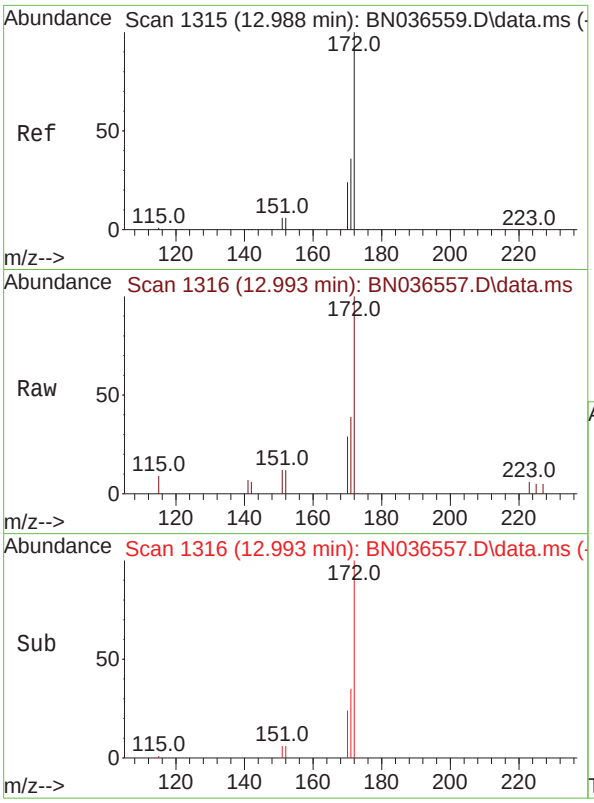


#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:330 Resp: 179

Ion	Ratio	Lower	Upper
330	100		
332	96.1	75.2	112.8
141	46.4	43.4	65.2

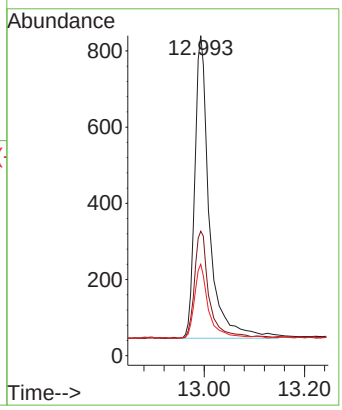




#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:172 Resp: 218

Ion	Ratio	Lower	Upper
172	100		
171	38.9	29.5	44.3
170	28.6	20.2	30.4



Instrument :
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ClientSampleId :
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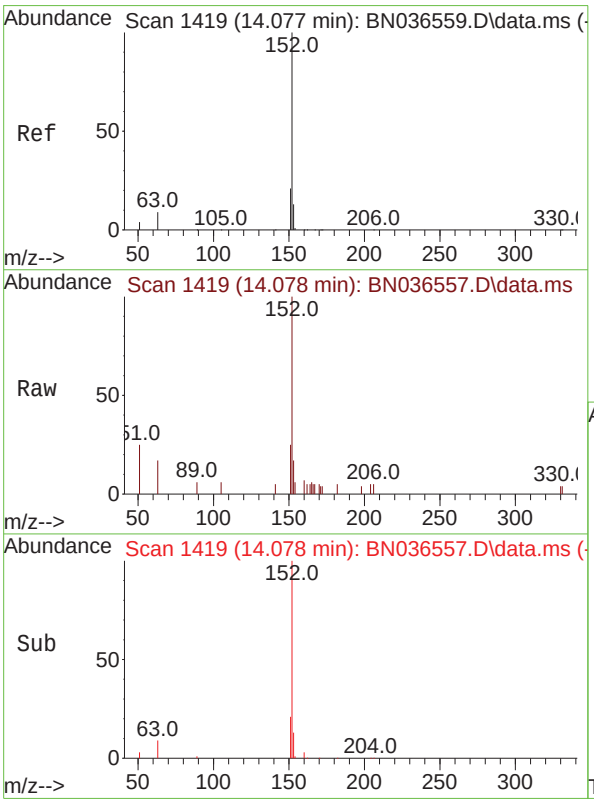
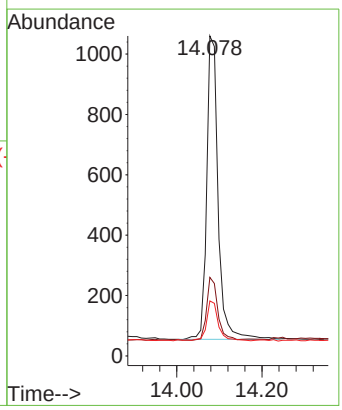
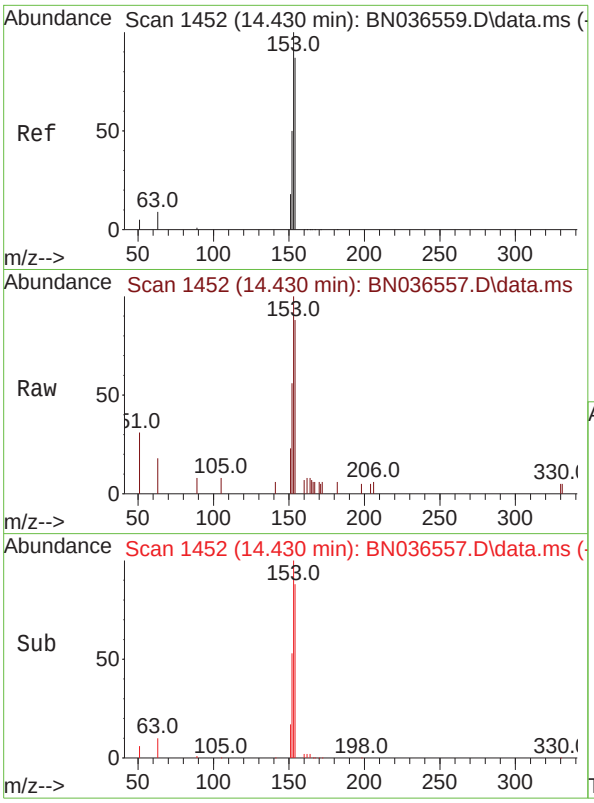


#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 1862

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	14.1	10.6	15.8

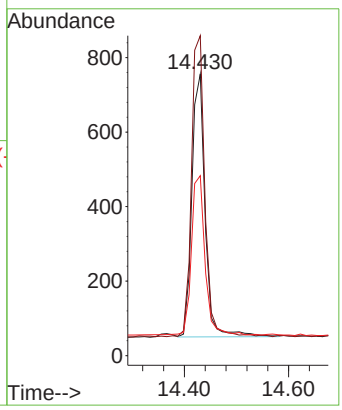




#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:154 Resp: 124

Ion	Ratio	Lower	Upper
154	100		
153	115.9	94.1	141.1
152	62.5	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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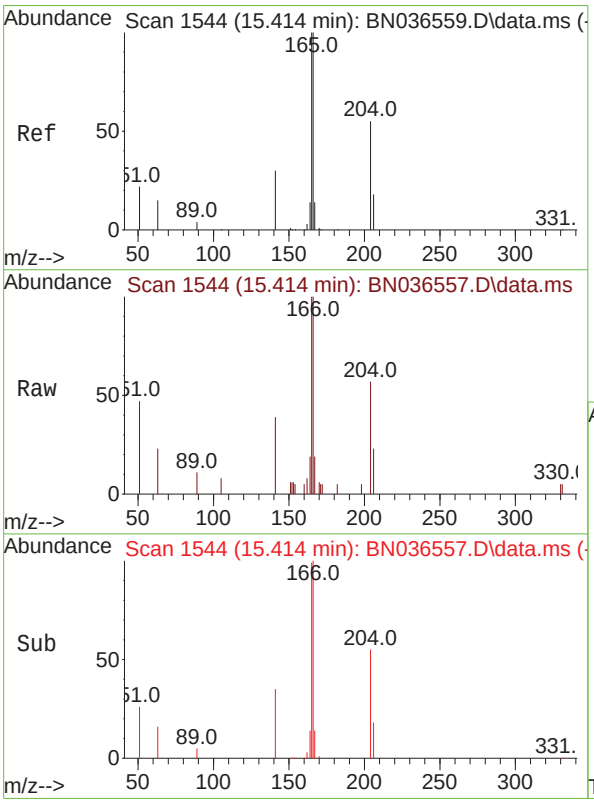
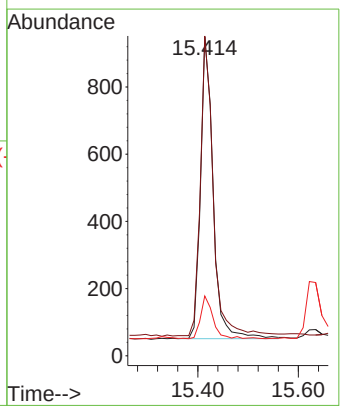
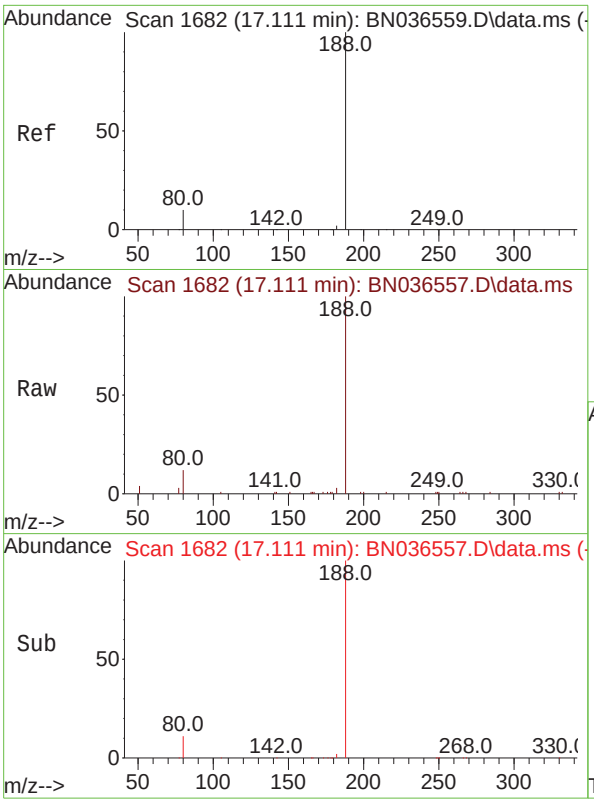


#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:166 Resp: 1612

Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.9	10.6	15.8

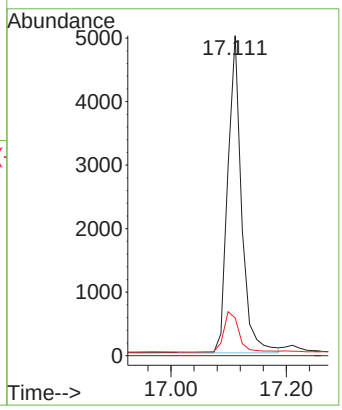




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:188 Resp: 826

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
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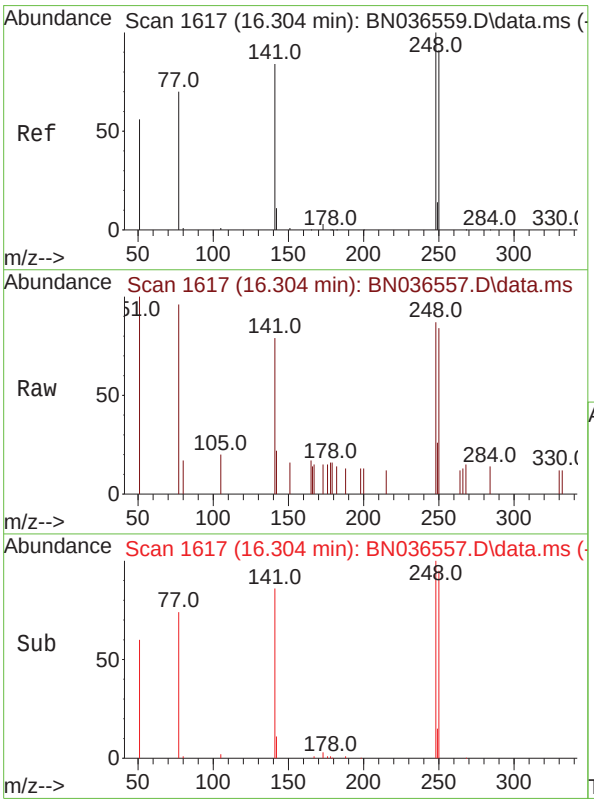
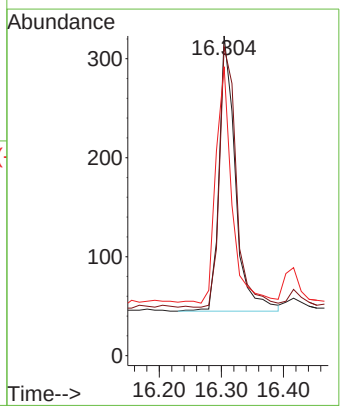
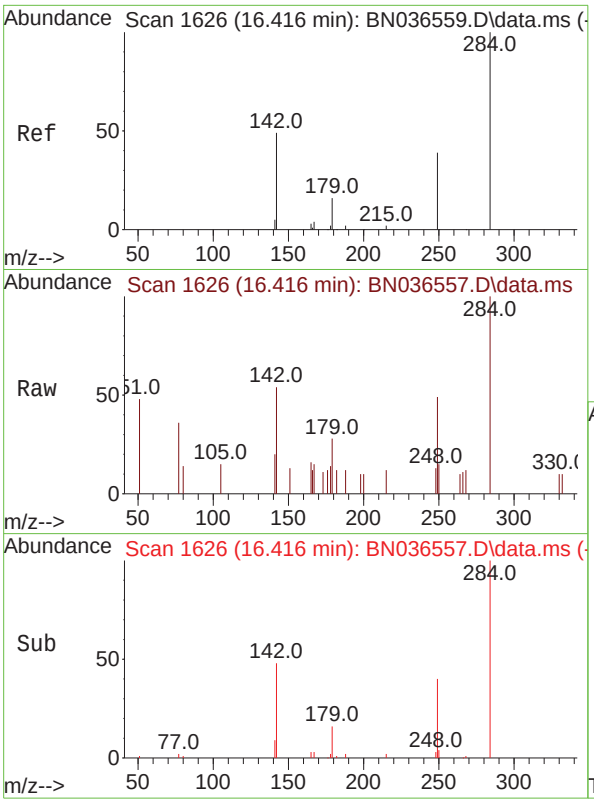


#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:248 Resp: 502

Ion	Ratio	Lower	Upper
248	100		
250	96.6	73.0	109.6
141	90.4	68.6	103.0

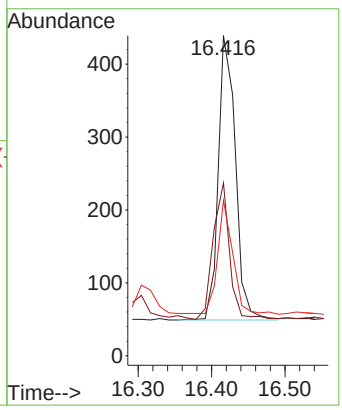




#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:284 Resp: 63

Ion	Ratio	Lower	Upper
284	100		
142	45.7	37.0	55.4
249	37.2	28.1	42.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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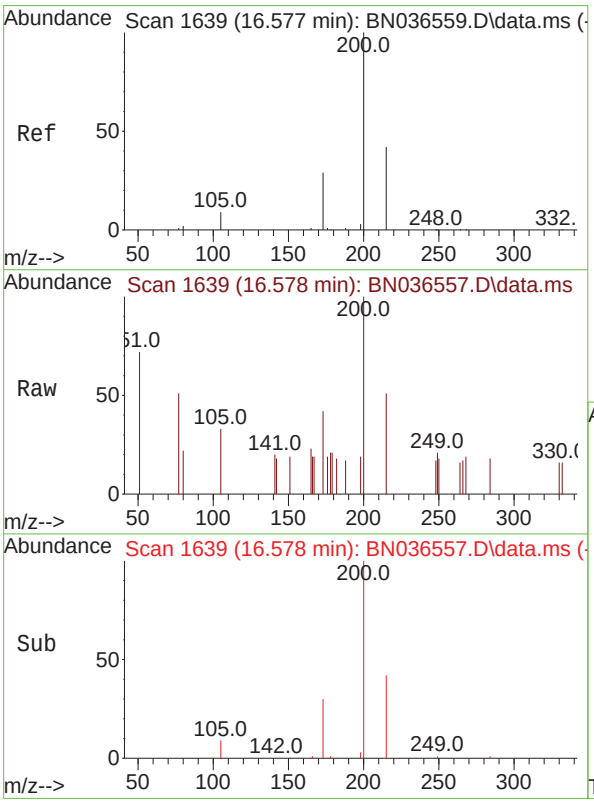
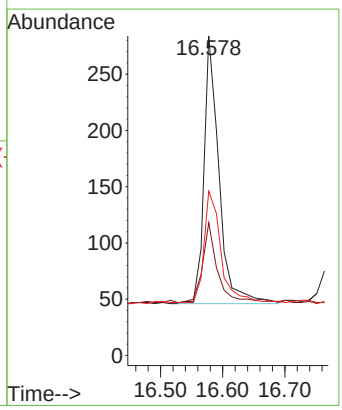
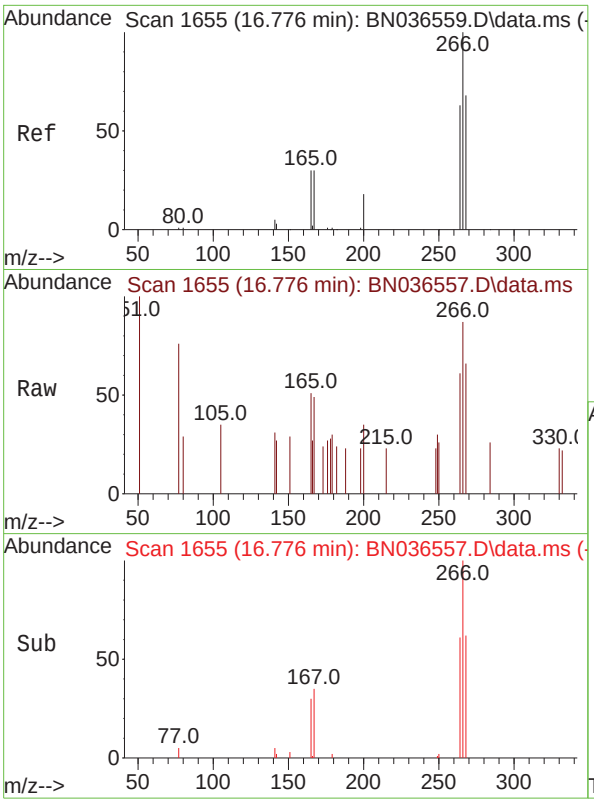


#23
Atrazine
Concen: 0.096 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:200 Resp: 400

Ion	Ratio	Lower	Upper
200	100		
173	41.5	27.3	40.9#
215	51.4	36.8	55.2

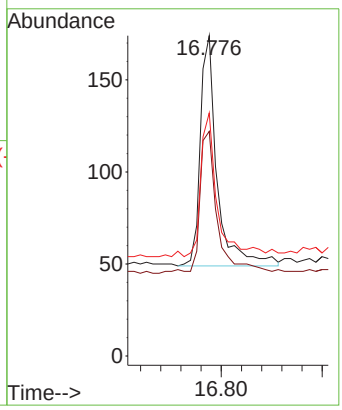




#24
Pentachlorophenol
Concen: 0.102 ng
RT: 16.776 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:266 Resp: 29

Ion	Ratio	Lower	Upper
266	100		
264	64.8	49.6	74.4
268	62.8	50.9	76.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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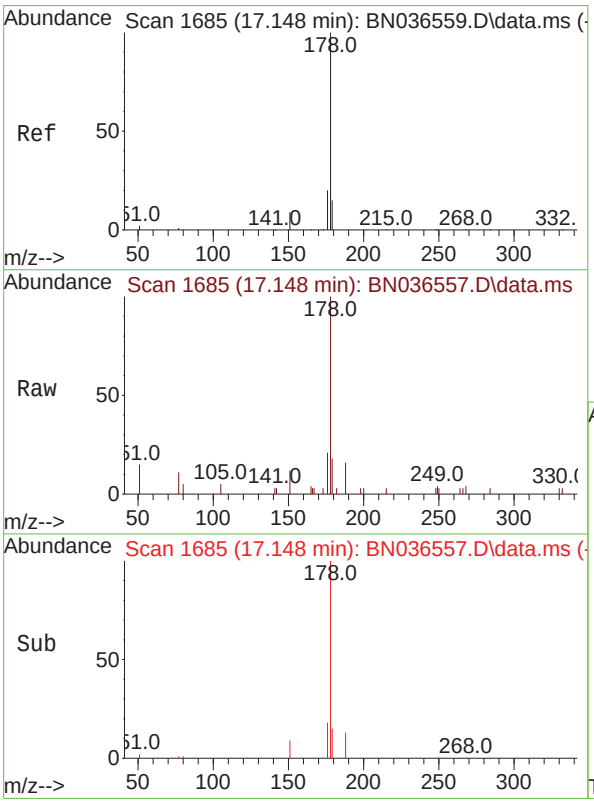
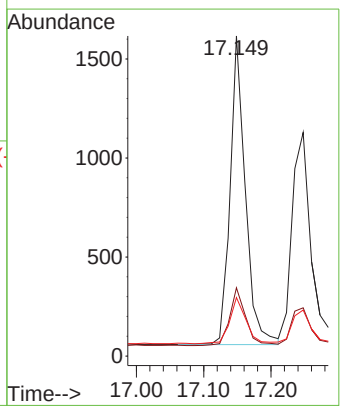
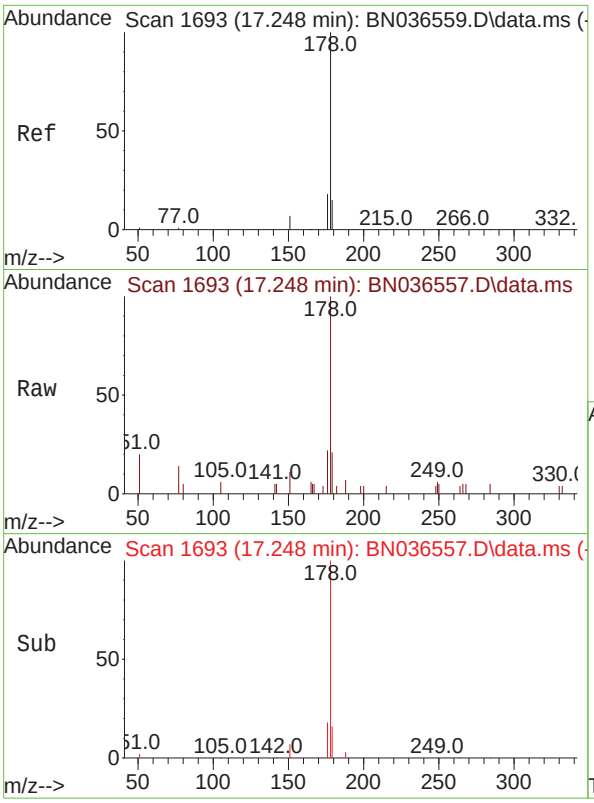


#25
Phenanthrene
Concen: 0.099 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 2459

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	16.1	12.2	18.4

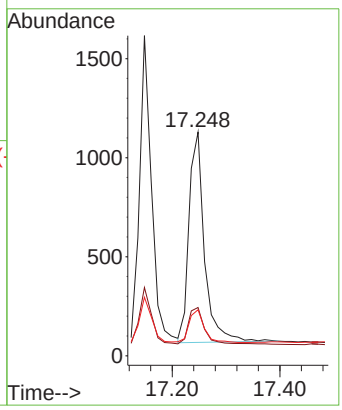




#26
Anthracene
Concen: 0.095 ng
RT: 17.248 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 212

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
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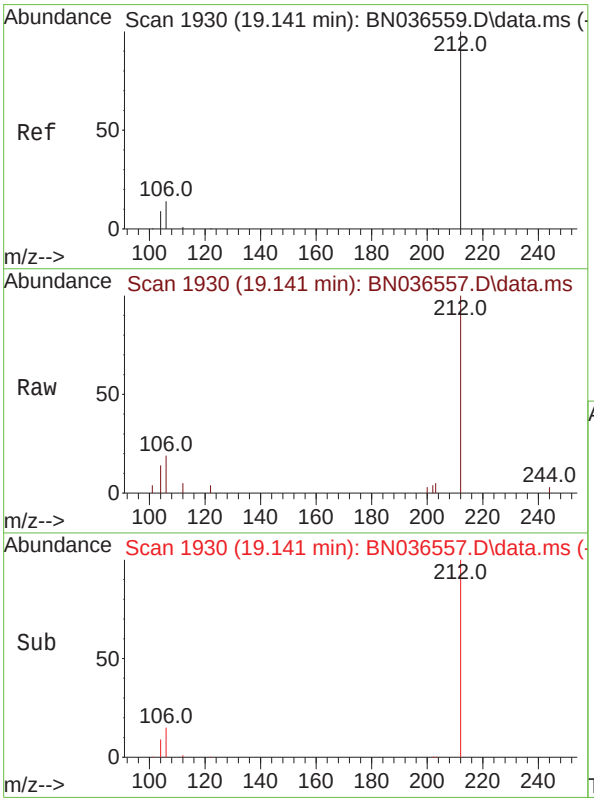
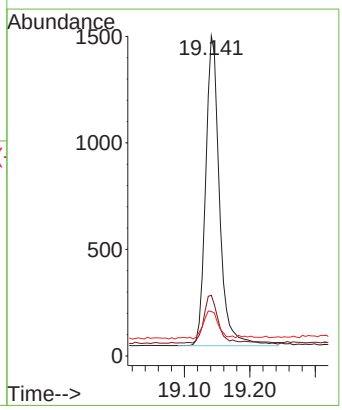
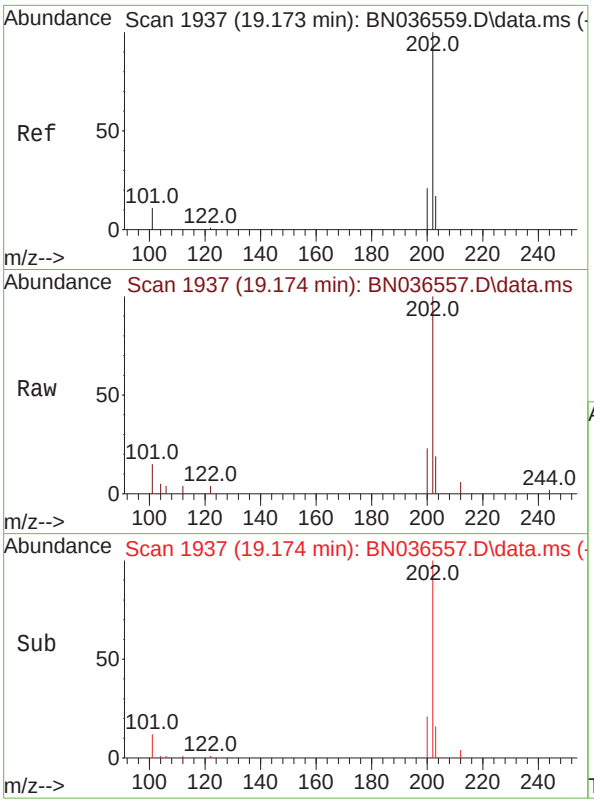


#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:212 Resp: 2144

Ion	Ratio	Lower	Upper
212	100		
106	15.5	11.8	17.6
104	9.7	7.3	10.9

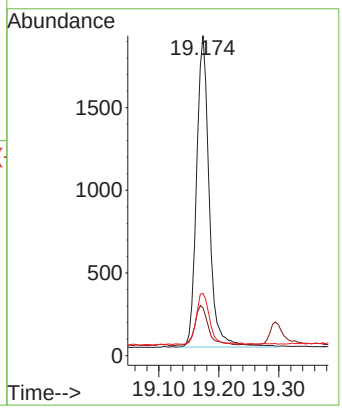




#28
Fluoranthene
Concen: 0.099 ng
RT: 19.174 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 277

Ion	Ratio	Lower	Upper
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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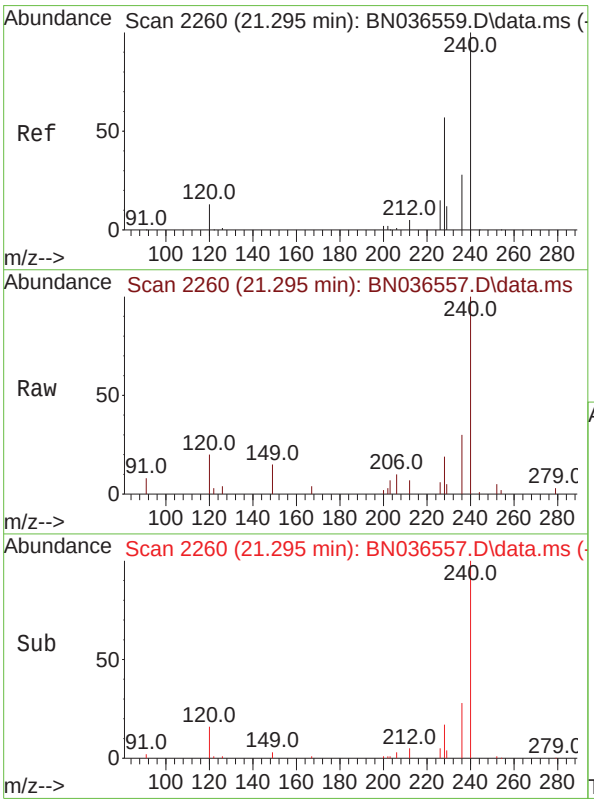
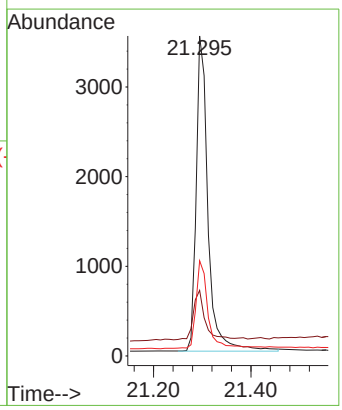
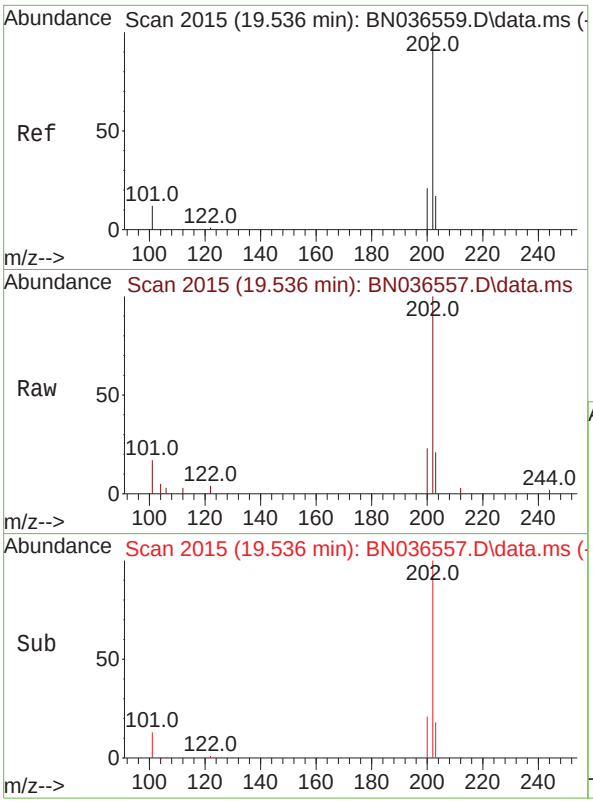


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:240 Resp: 5886

Ion	Ratio	Lower	Upper
240	100		
120	20.5	14.6	22.0
236	29.8	24.1	36.1

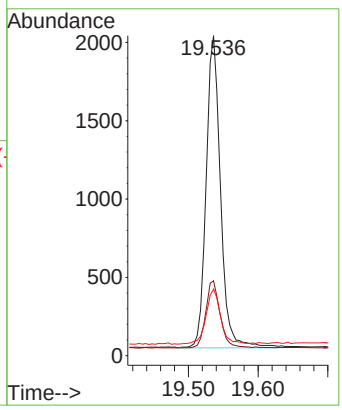




#30
Pyrene
Concen: 0.099 ng
RT: 19.536 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 286

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.9	14.1	21.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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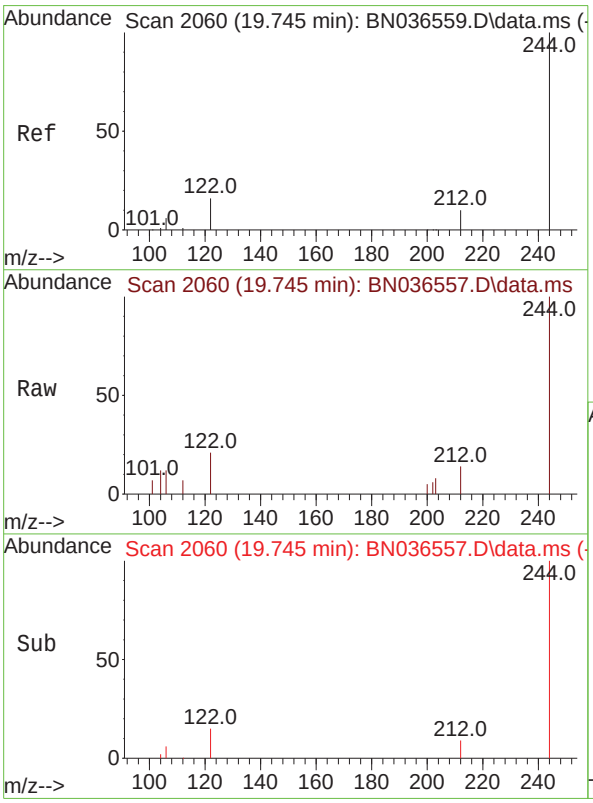
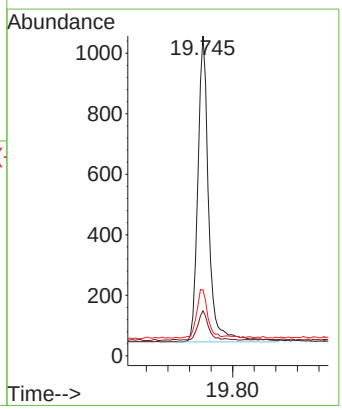
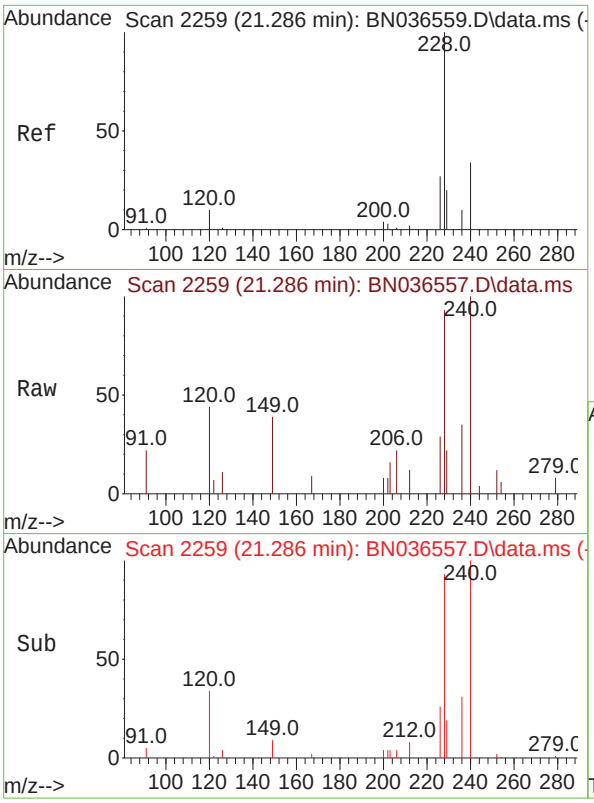


#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:244 Resp: 1416

Ion	Ratio	Lower	Upper
244	100		
212	14.1	9.6	14.4
122	20.6	13.9	20.9

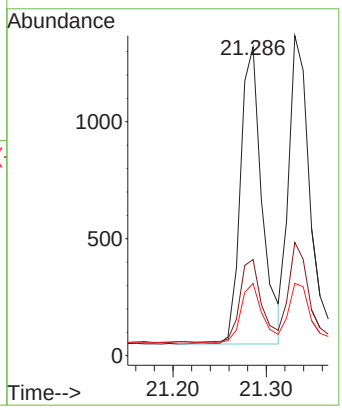




#32
Benzo(a)anthracene
Concen: 0.100 ng
RT: 21.286 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:228 Resp: 204

Ion	Ratio	Lower	Upper
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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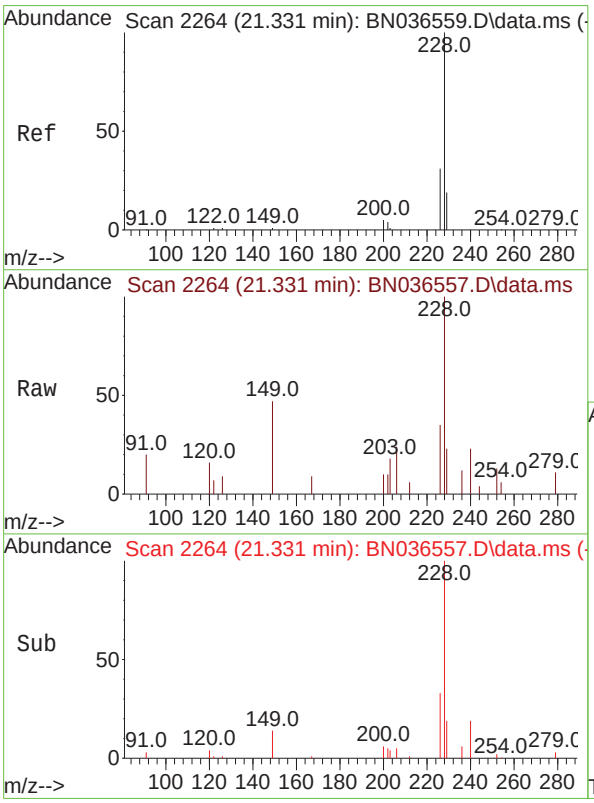
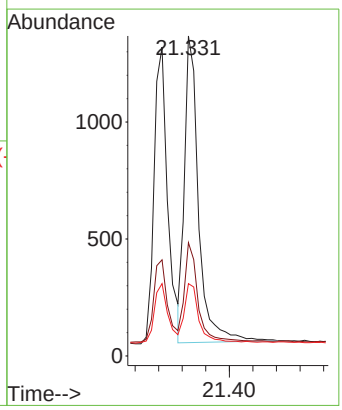
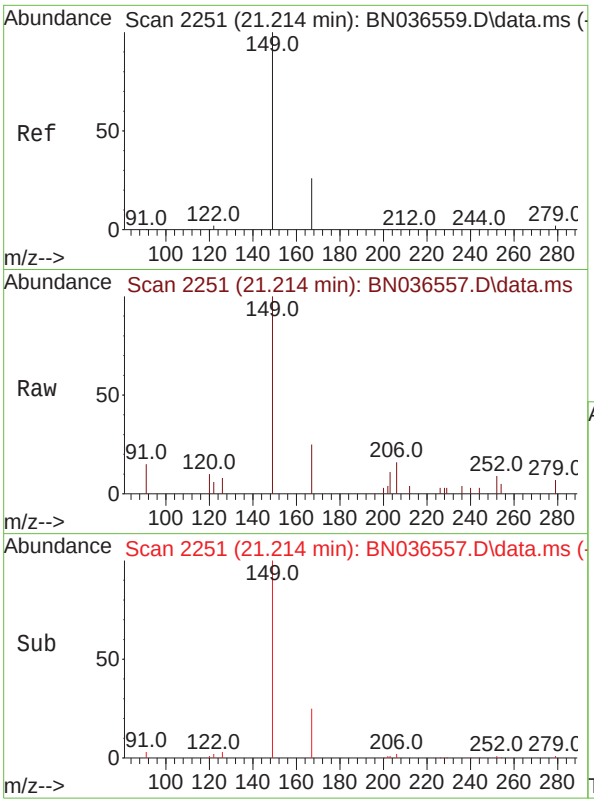


#33
Chrysene
Concen: 0.098 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:228 Resp: 2187

Ion	Ratio	Lower	Upper
228	100		
226	35.4	25.3	37.9
229	22.6	15.8	23.8





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 21.214 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:149 Resp: 176

Ion	Ratio	Lower	Upper
149	100		
167	27.9	20.7	31.1
279	4.9	3.6	5.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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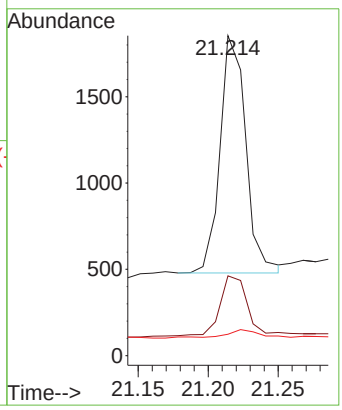
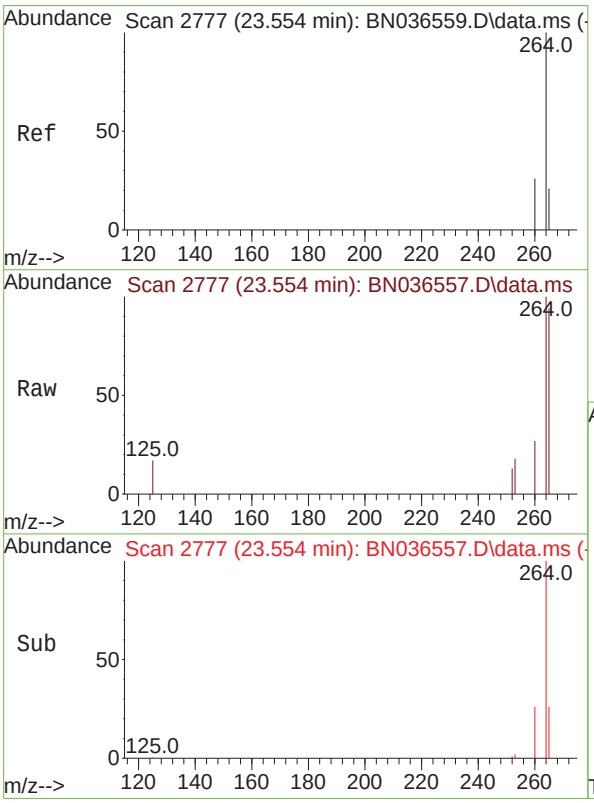
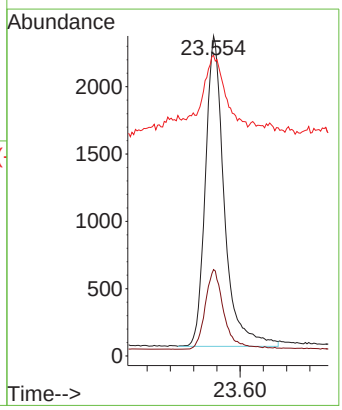


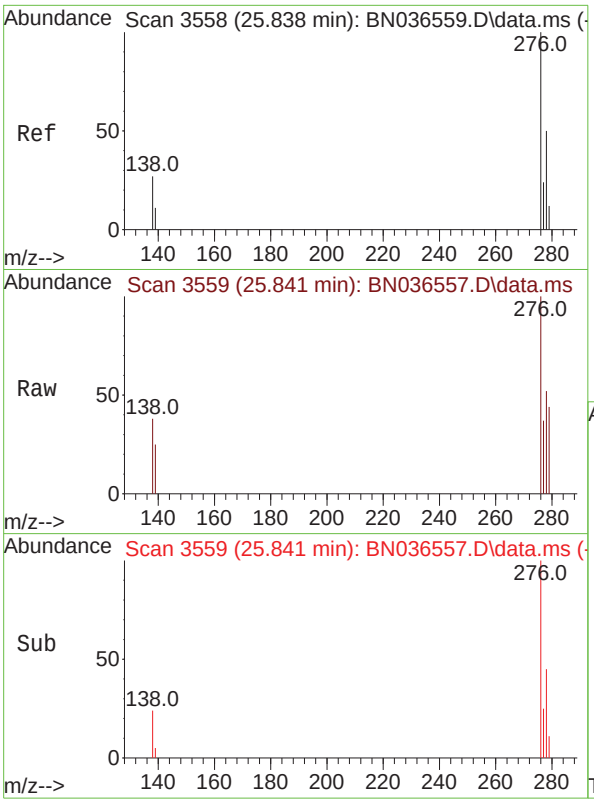


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:264 Resp: 5207

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.6	33.8
265	93.9	88.1	132.1

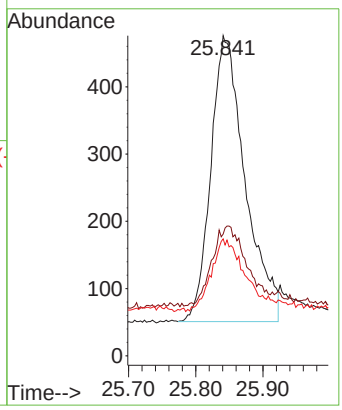




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 151

Ion	Ratio	Lower	Upper
276	100		
138	27.6	23.4	35.2
277	24.2	20.0	30.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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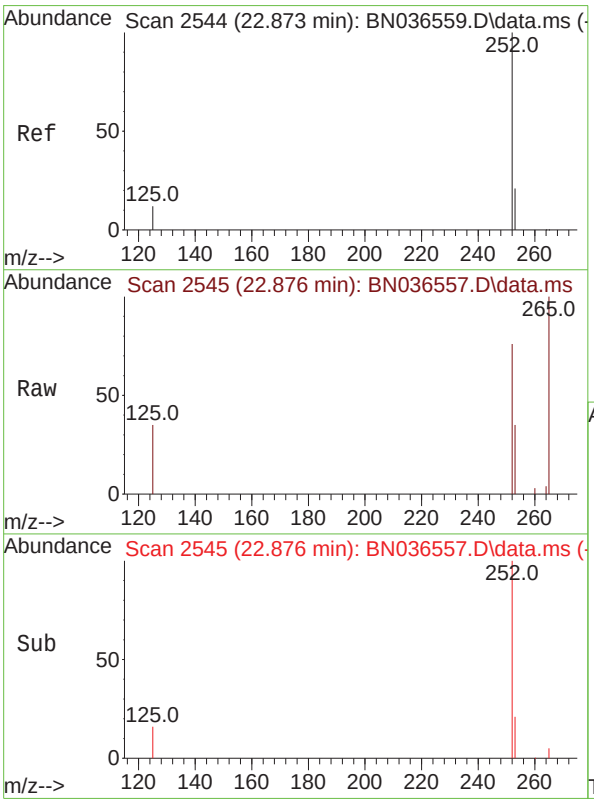
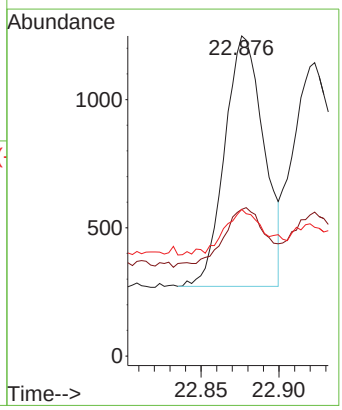
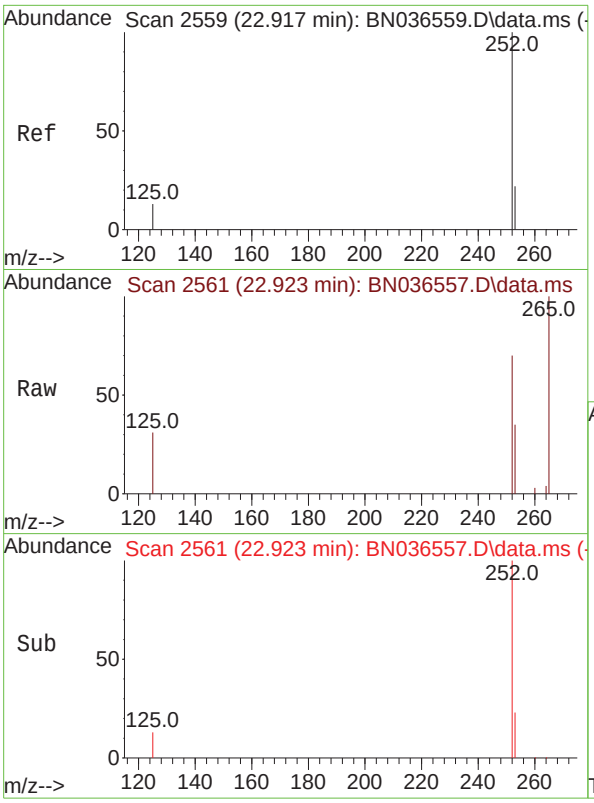


#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2545
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1707

Ion	Ratio	Lower	Upper
252	100		
253	45.8	23.9	35.9#
125	45.8	17.4	26.2#





#38
Benzo(k)fluoranthene
Concen: 0.098 ng
RT: 22.923 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 195

Ion	Ratio	Lower	Upper
252	100		
253	49.0	24.6	36.8#
125	43.9	17.8	26.8#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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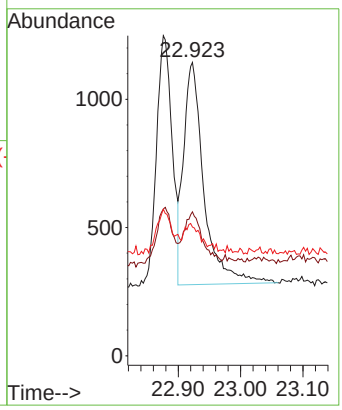
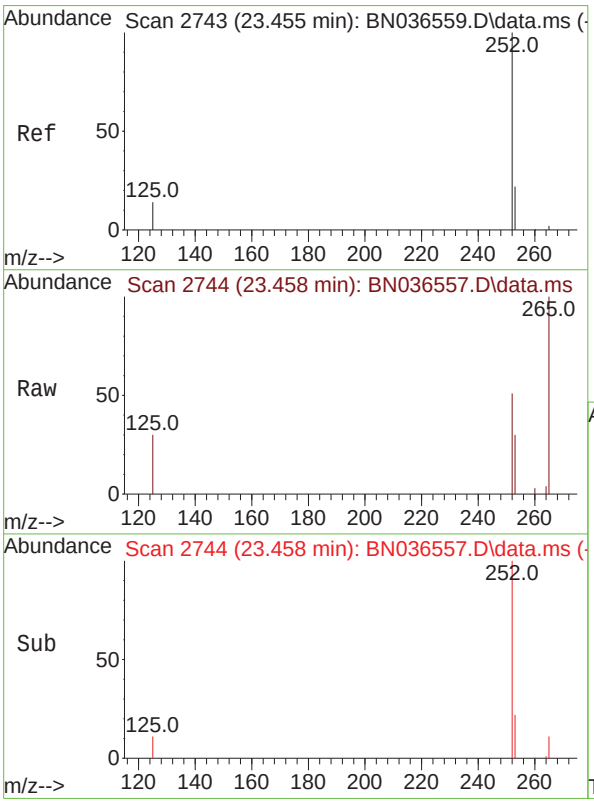
Supervised By :Jagrut Upadhyay 03/11/2025

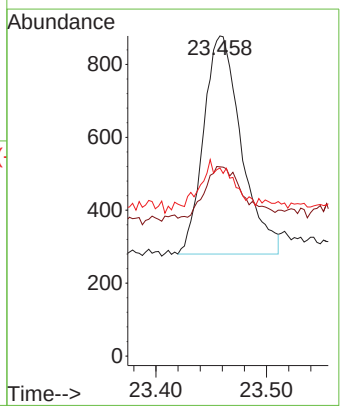


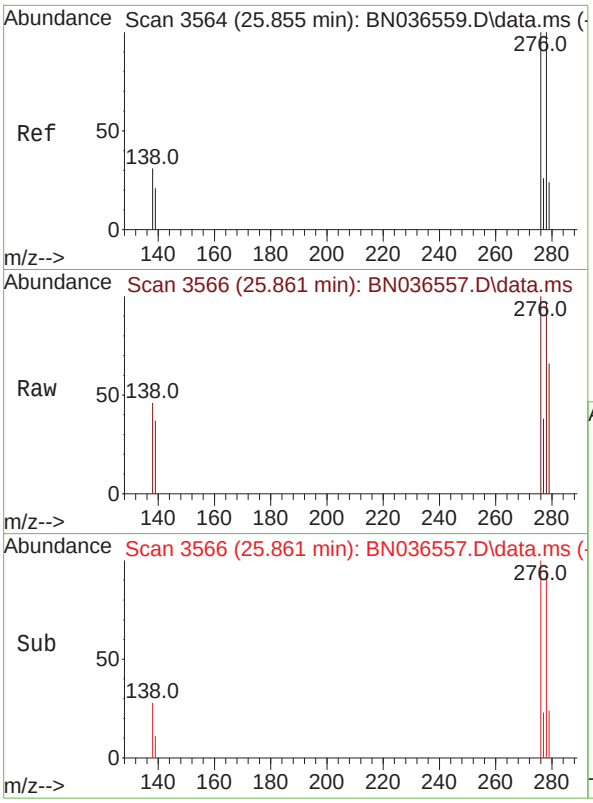


#39
Benzo(a)pyrene
Concen: 0.089 ng
RT: 23.458 min Scan# 2744
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1419

Ion	Ratio	Lower	Upper
252	100		
253	59.1	27.8	41.8#
125	58.8	22.7	34.1#

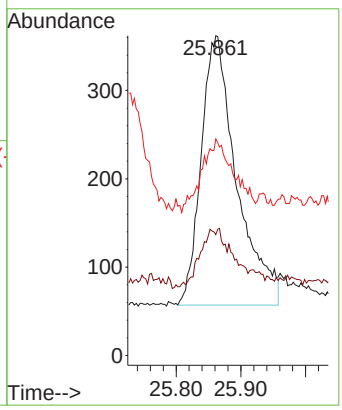




#40
Dibenzo(a,h)anthracene
Concen: 0.079 ng
RT: 25.861 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:278 Resp: 116

Ion	Ratio	Lower	Upper
278	100		
139	37.8	20.8	31.2#
279	67.7	28.8	43.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
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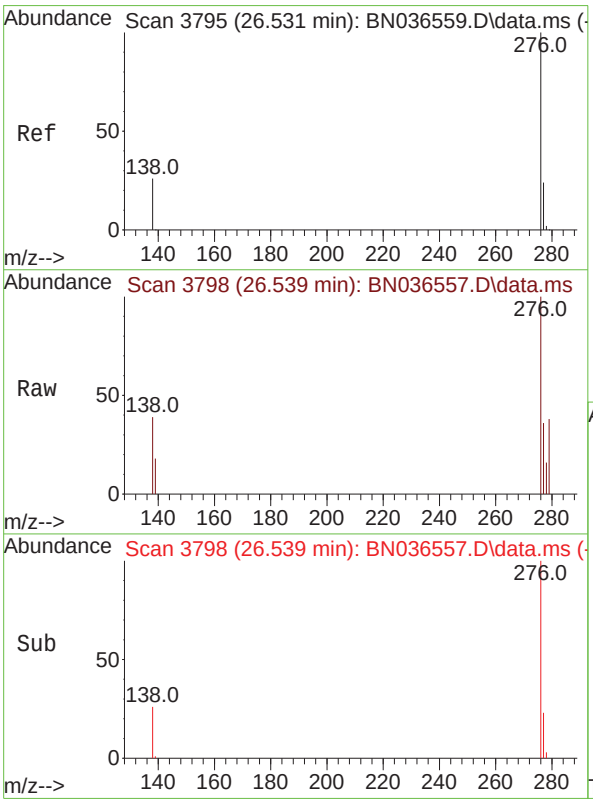
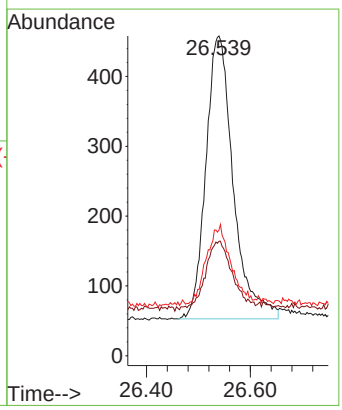
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#41
Benzo(g,h,i)perylene
Concen: 0.089 ng
RT: 26.539 min Scan# 3798
Delta R.T. 0.009 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 1482

Ion	Ratio	Lower	Upper
276	100		
277	35.8	22.2	33.4#
138	39.3	24.1	36.1#



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED
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Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng		0.00
29) Chrysene-d12	21.295	240	4730	0.400	ng		0.00
35) Perylene-d12	23.554	264	4241	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	1137	0.195	ng		0.00
5) Phenol-d6	6.901	99	1323	0.184	ng		0.00
8) Nitrobenzene-d5	8.875	82	1156	0.182	ng		0.00
11) 2-Methylnaphthalene-d10	12.111	152	1603	0.184	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	282	0.177	ng		0.00
15) 2-Fluorobiphenyl	12.993	172	3485	0.170	ng		0.00
27) Fluoranthene-d10	19.146	212	3583	0.186	ng		0.00
31) Terphenyl-d14	19.745	244	2283	0.201	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	550m	0.198	ng		
3) n-Nitrosodimethylamine	3.557	42	1094	0.195	ng		92
6) bis(2-Chloroethyl)ether	7.154	93	1440	0.193	ng		99
9) Naphthalene	10.562	128	3286	0.191	ng		97
10) Hexachlorobutadiene	10.850	225	828	0.205	ng	#	97
12) 2-Methylnaphthalene	12.187	142	2034	0.186	ng		97
16) Acenaphthylene	14.088	152	3087	0.186	ng		100
17) Acenaphthene	14.430	154	2038	0.188	ng		99
18) Fluorene	15.414	166	2813	0.191	ng		99
20) 4,6-Dinitro-2-methylph...	15.510	198	214	0.258	ng	#	69
21) 4-Bromophenyl-phenylether	16.304	248	853	0.181	ng		93
22) Hexachlorobenzene	16.416	284	1079	0.190	ng		99
23) Atrazine	16.578	200	716	0.190	ng		97
24) Pentachlorophenol	16.776	266	435	0.168	ng		98
25) Phenanthrene	17.148	178	4171	0.185	ng		100
26) Anthracene	17.248	178	3645	0.179	ng		99
28) Fluoranthene	19.174	202	4666	0.184	ng		99
30) Pyrene	19.536	202	4742	0.205	ng		100
32) Benzo(a)anthracene	21.286	228	3111	0.189	ng		97
33) Chrysene	21.331	228	3568	0.199	ng		97
34) Bis(2-ethylhexyl)phtha...	21.214	149	2601	0.222	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.844	276	2790	0.182	ng		98
37) Benzo(b)fluoranthene	22.876	252	2883	0.187	ng	#	83
38) Benzo(k)fluoranthene	22.917	252	2962	0.183	ng	#	86
39) Benzo(a)pyrene	23.458	252	2443	0.188	ng	#	76
40) Dibenzo(a,h)anthracene	25.858	278	2080	0.175	ng	#	83
41) Benzo(g,h,i)perylene	26.536	276	2573	0.189	ng		95

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

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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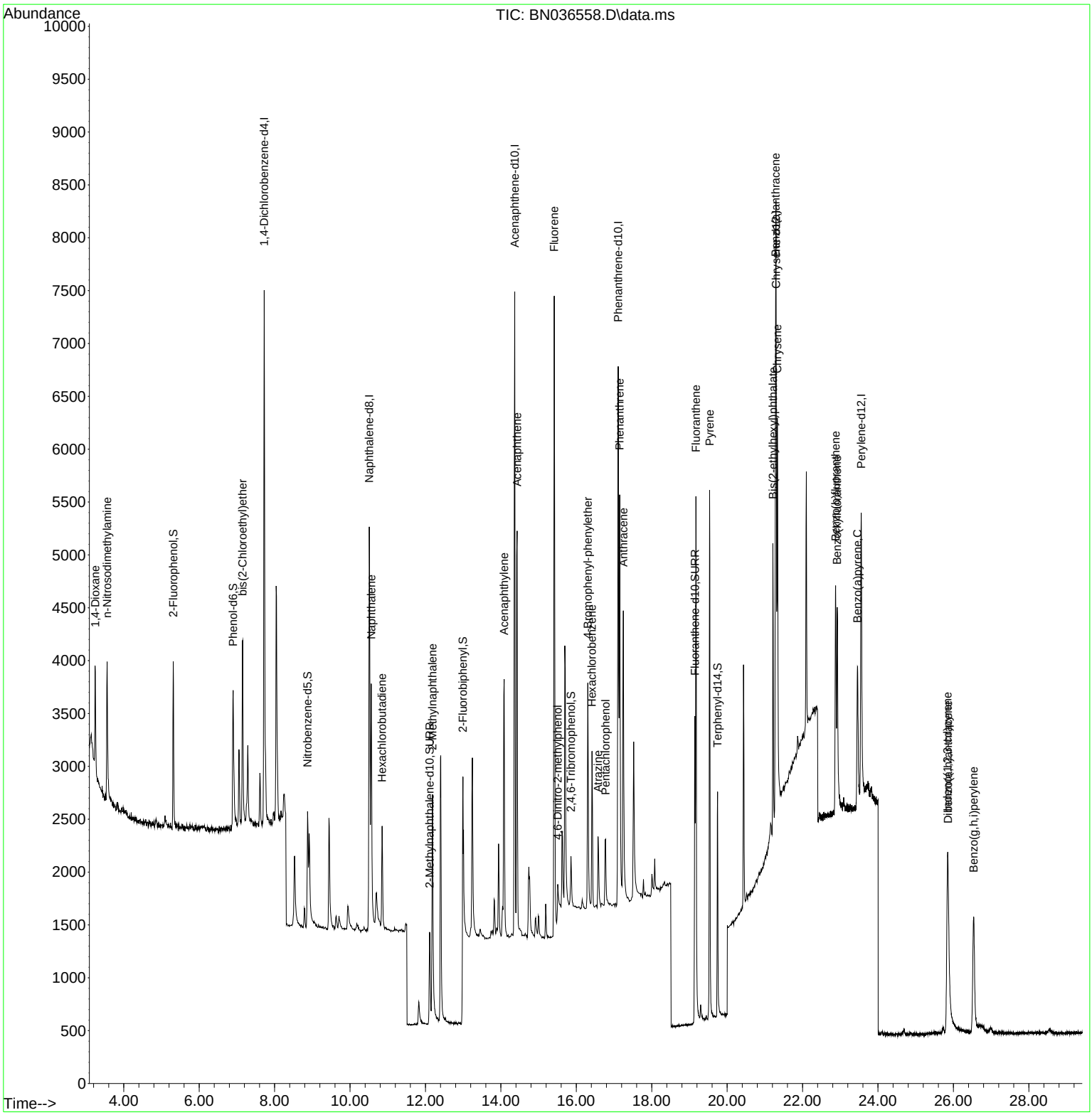
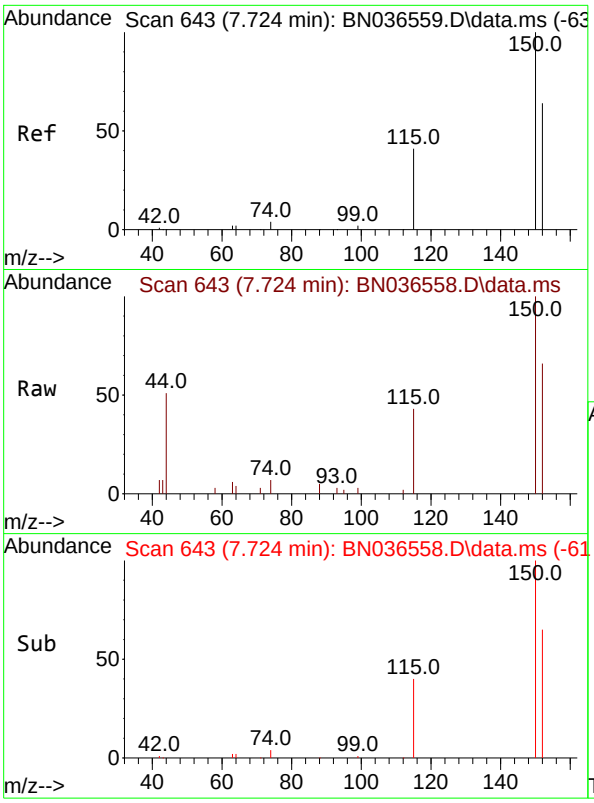
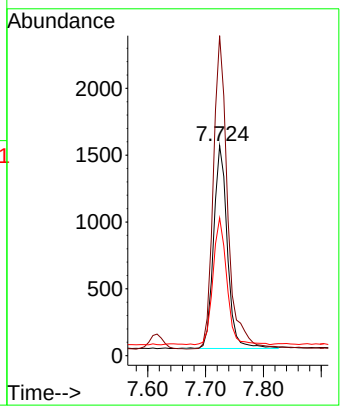




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 250

Ion	Ratio	Lower	Upper
152	100		
150	152.3	123.7	185.5
115	65.5	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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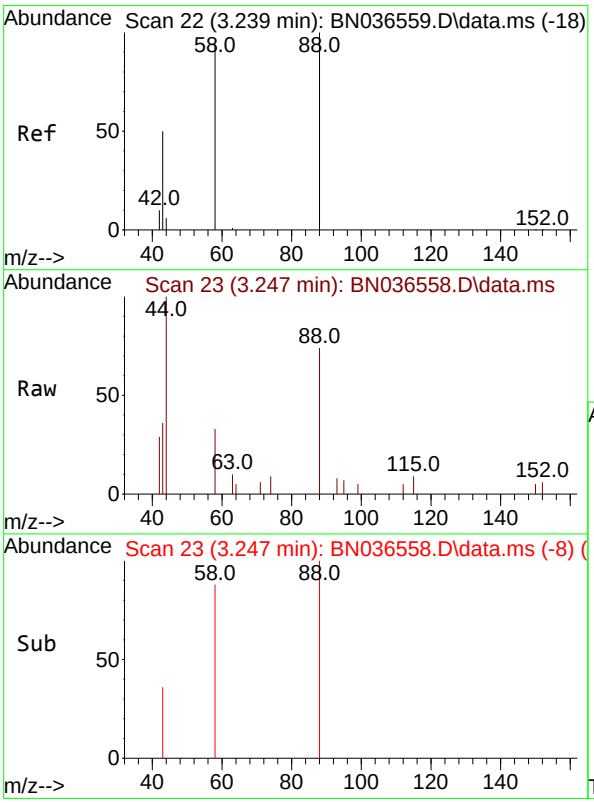
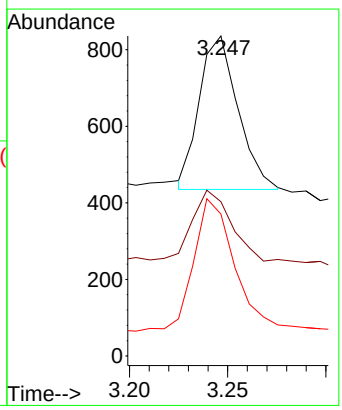
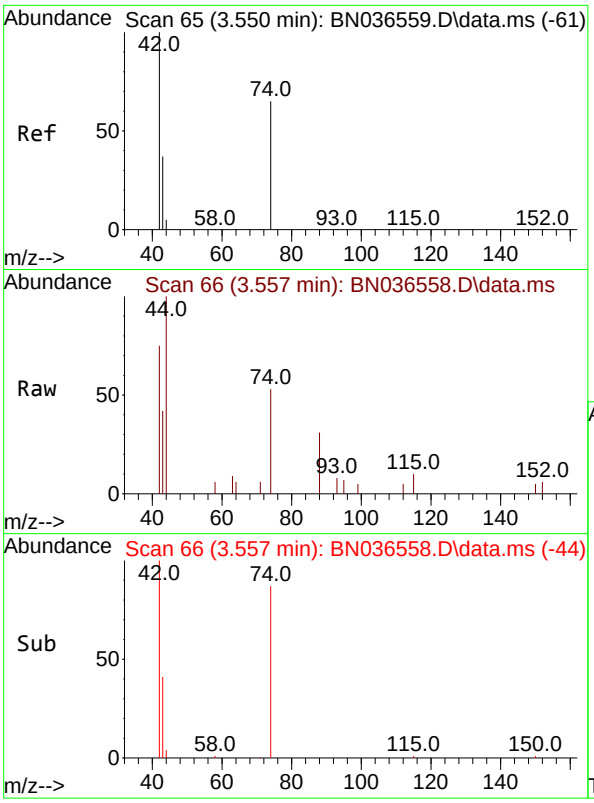


#2
1,4-Dioxane
Concen: 0.198 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 550

Ion	Ratio	Lower	Upper
88	100		
43	56.5	37.8	56.8
58	93.8	67.4	101.2

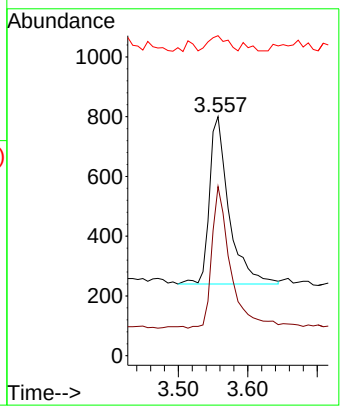




#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 42 Resp: 109

Ion	Ratio	Lower	Upper
42	100		
74	83.2	60.6	90.8
44	8.5	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
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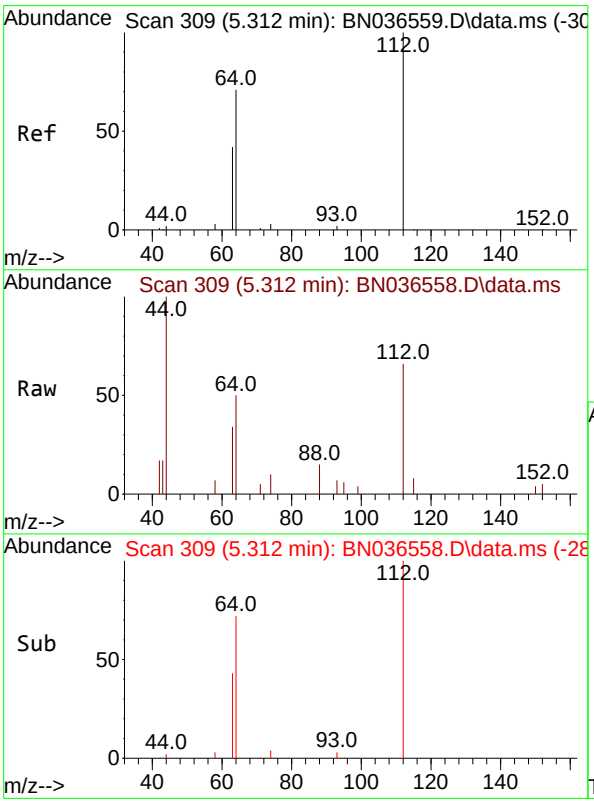
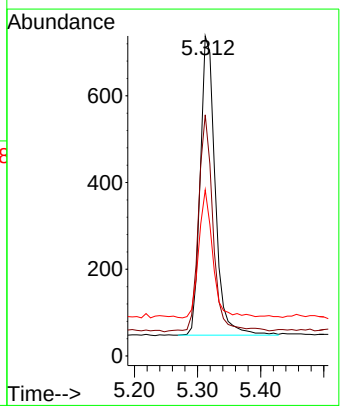
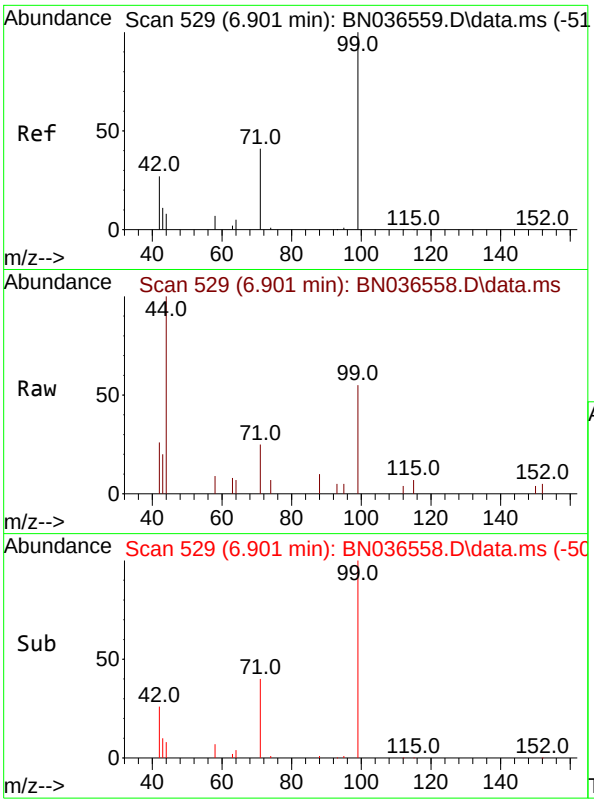


#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:112 Resp: 1137

Ion	Ratio	Lower	Upper
112	100		
64	70.6	53.1	79.7
63	40.3	31.8	47.8

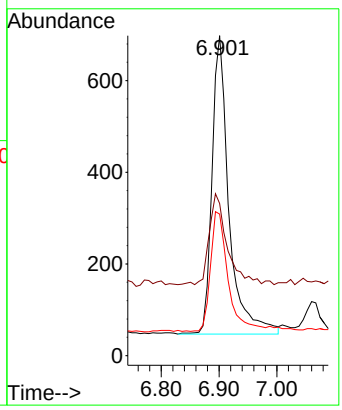




#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 99 Resp: 132

Ion	Ratio	Lower	Upper
99	100		
42	32.7	26.5	39.7
71	41.3	34.1	51.1



Instrument :
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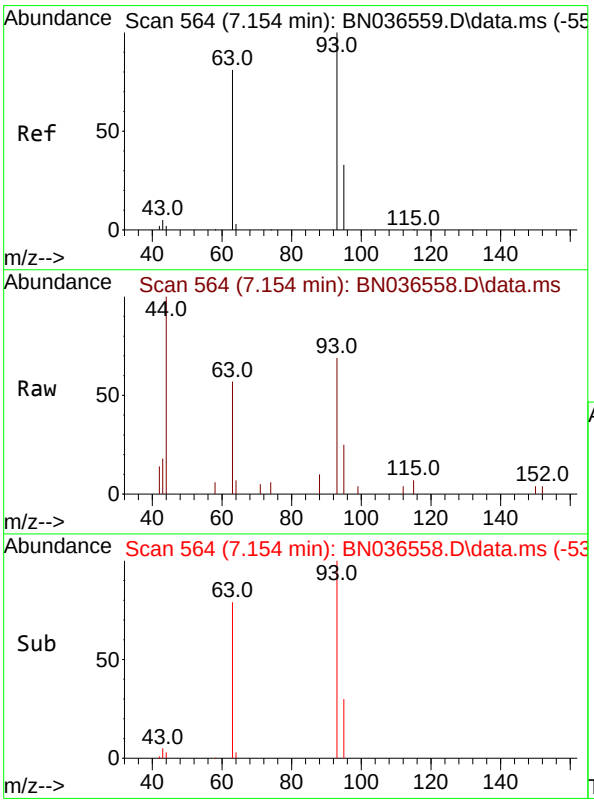
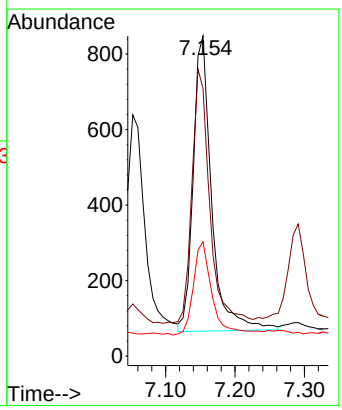
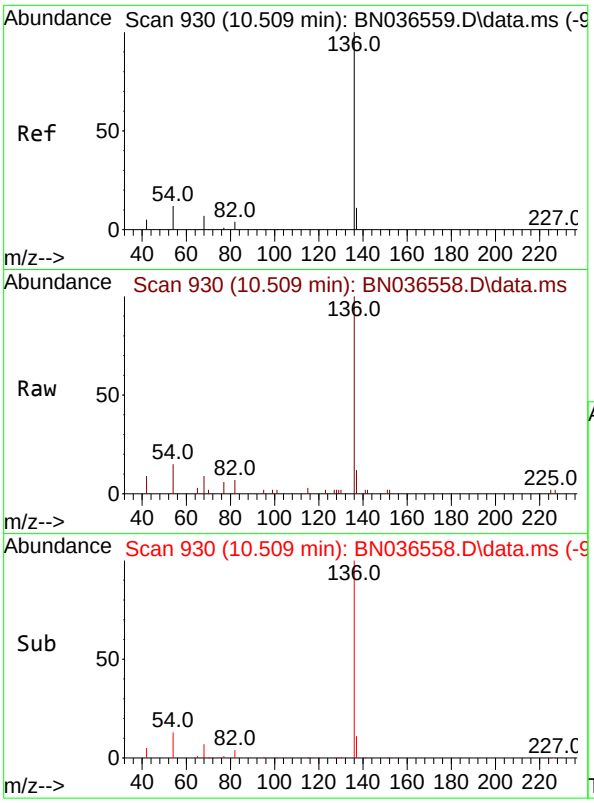


#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 93 Resp: 1440

Ion	Ratio	Lower	Upper
93	100		
63	82.9	67.7	101.5
95	31.9	25.6	38.4

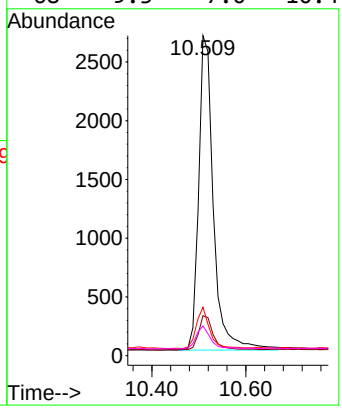




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:136 Resp: 584

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	15.1	11.5	17.3
68	9.3	7.0	10.4



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BNA_N
ClientSampleId :
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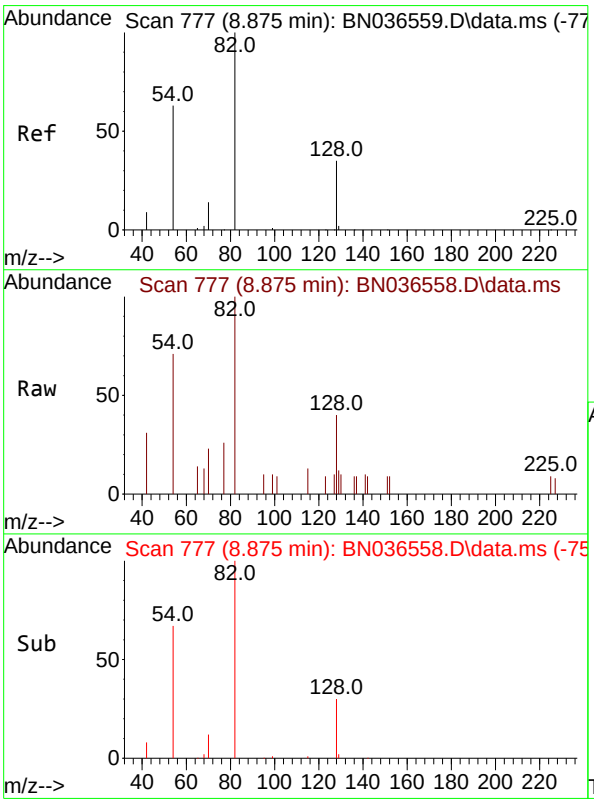
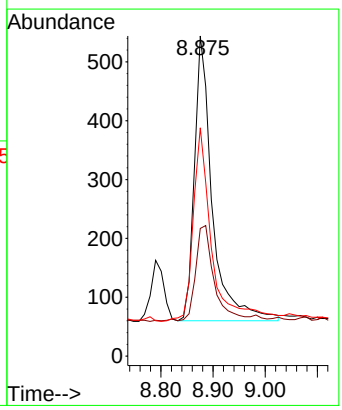
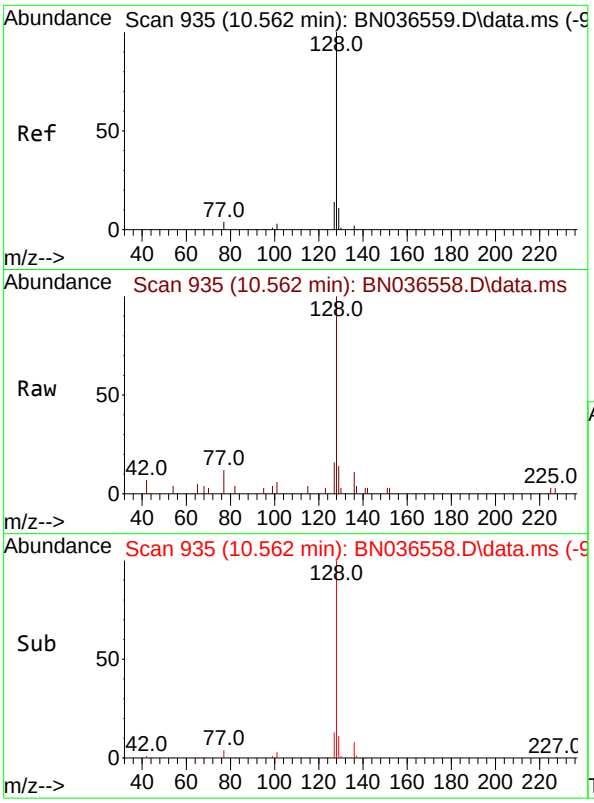


#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 82 Resp: 1156

Ion	Ratio	Lower	Upper
82	100		
128	39.9	30.6	45.8
54	71.3	52.2	78.4

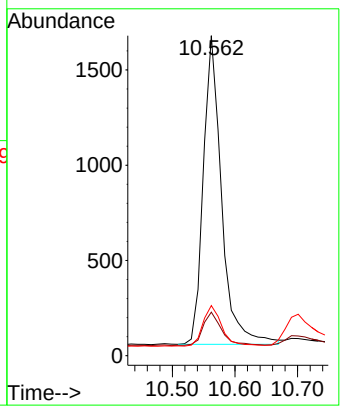




#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:128 Resp: 328

Ion	Ratio	Lower	Upper
128	100		
129	13.6	9.8	14.6
127	15.7	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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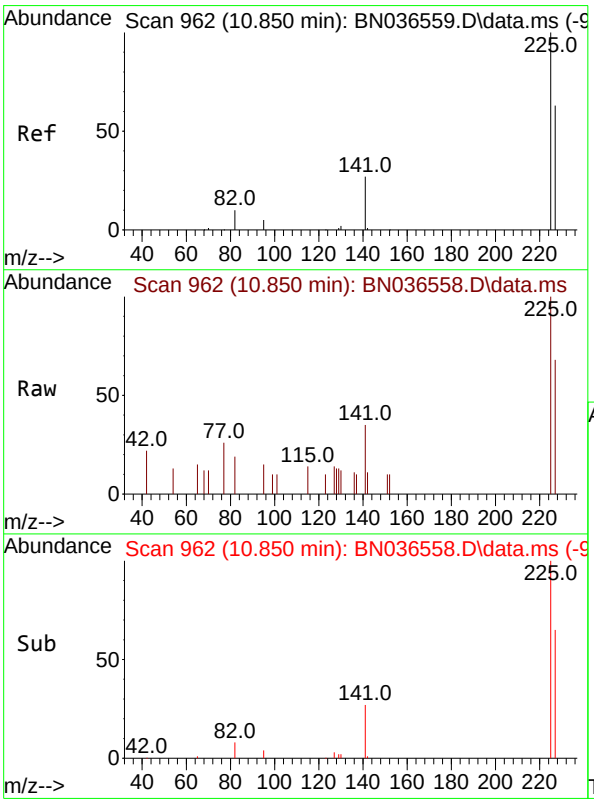
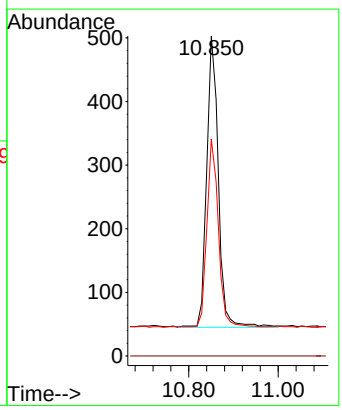
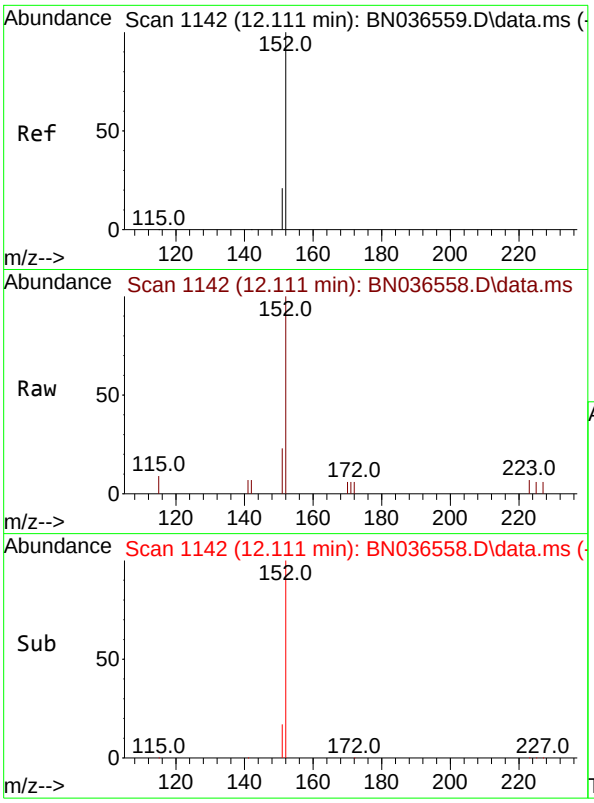


#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:225 Resp: 828

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	51.8	77.8

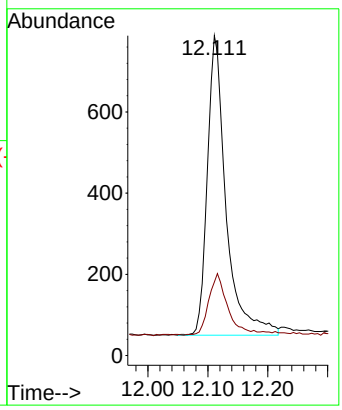




#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 160

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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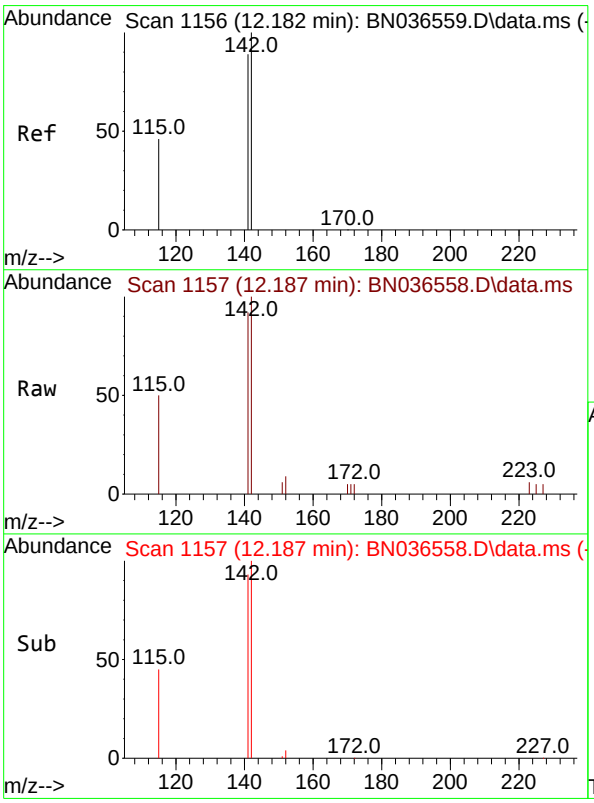
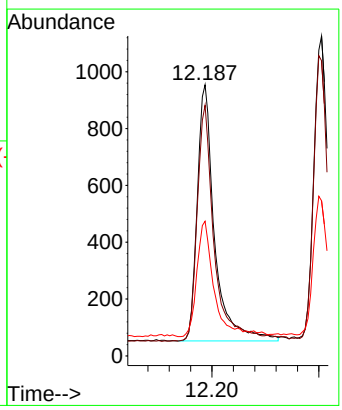
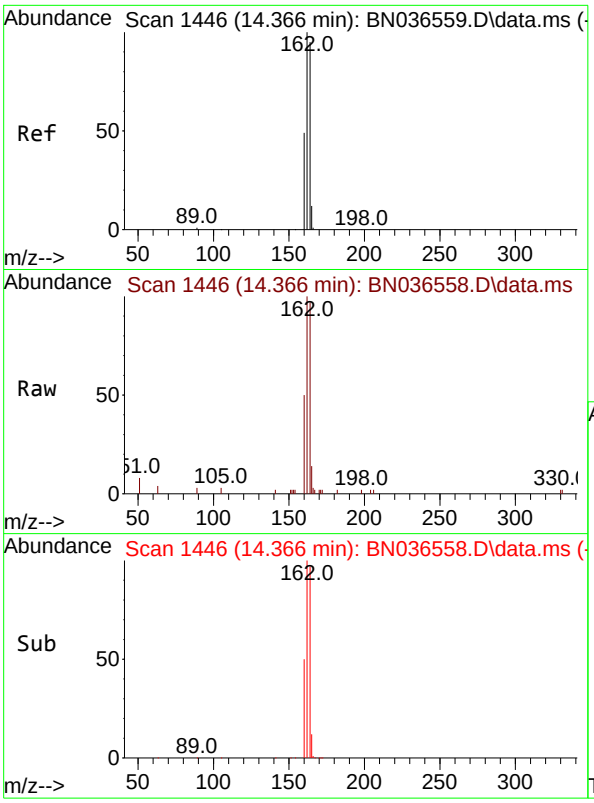


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:142 Resp: 2034

Ion	Ratio	Lower	Upper
142	100		
141	92.5	71.7	107.5
115	49.7	38.3	57.5

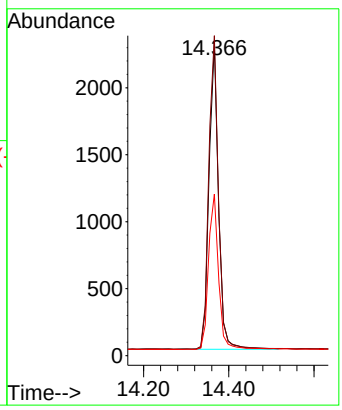




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:164 Resp: 351

Ion	Ratio	Lower	Upper
164	100		
162	102.6	84.2	126.2
160	51.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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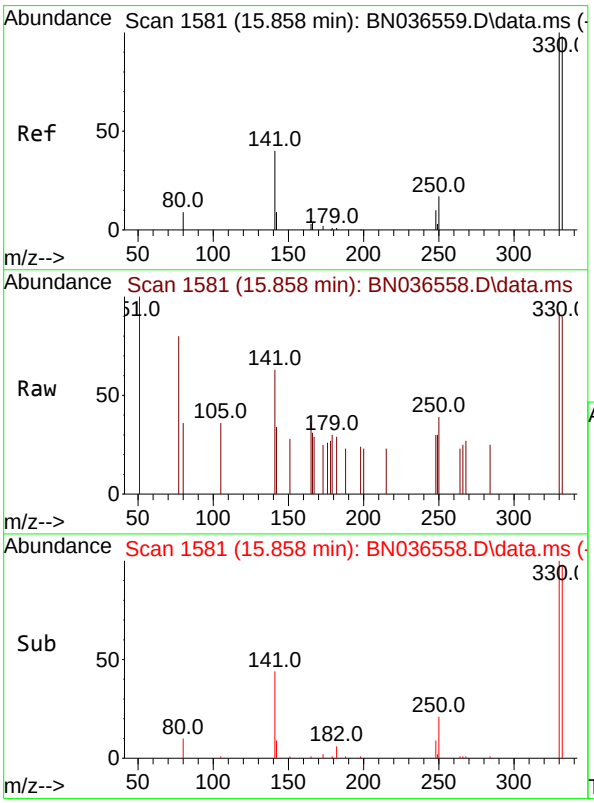
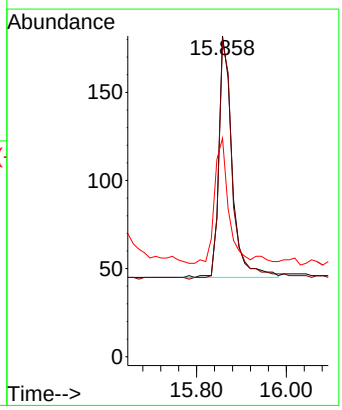
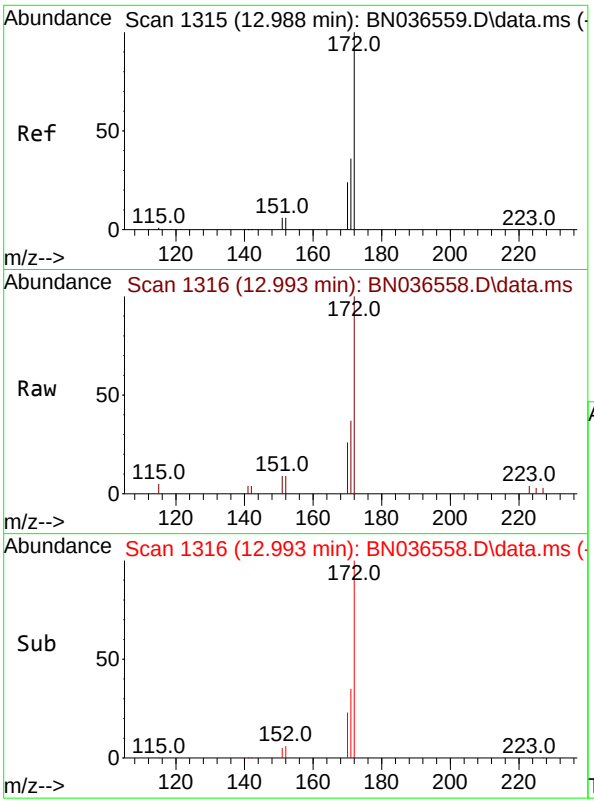


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:330 Resp: 282

Ion	Ratio	Lower	Upper
330	100		
332	103.5	75.2	112.8
141	53.9	43.4	65.2

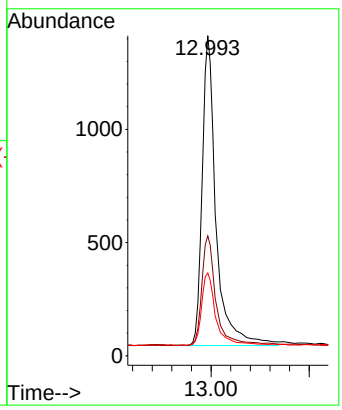




#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:172 Resp: 348

Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.5	44.3
170	25.9	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
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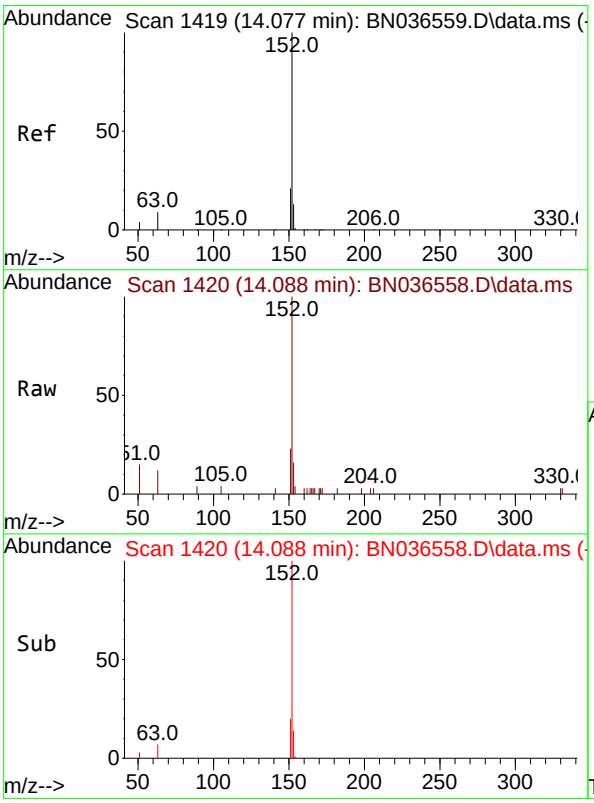
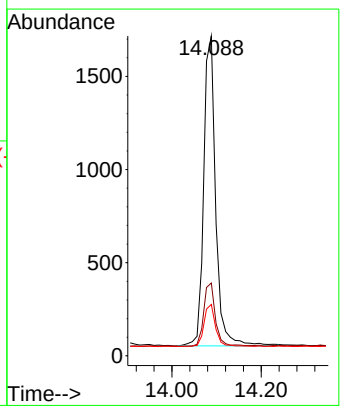
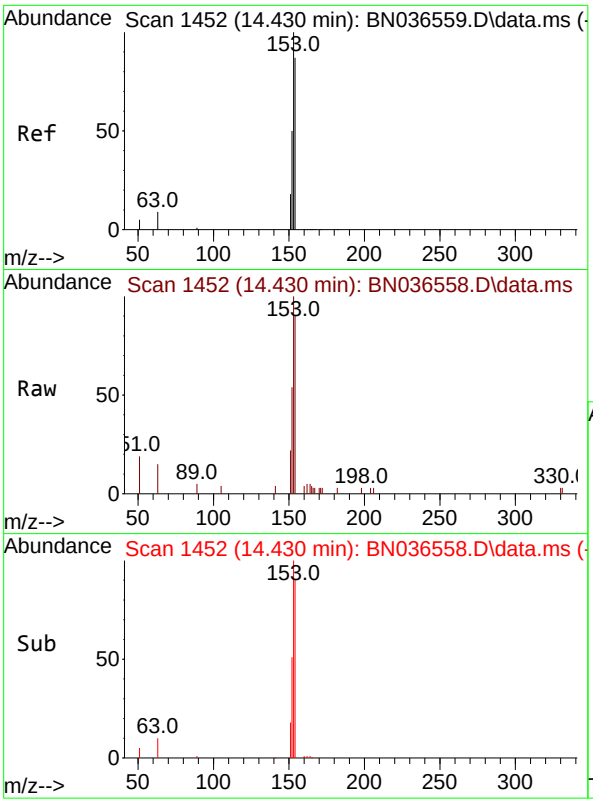


#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 3087

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4
153	13.0	10.6	15.8

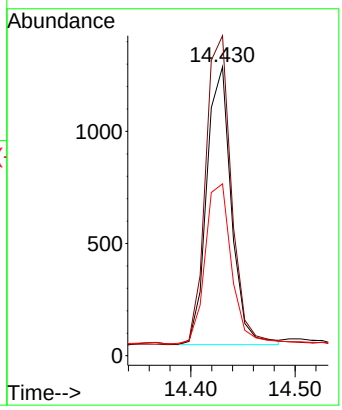




#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:154 Resp: 203

Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	63.1	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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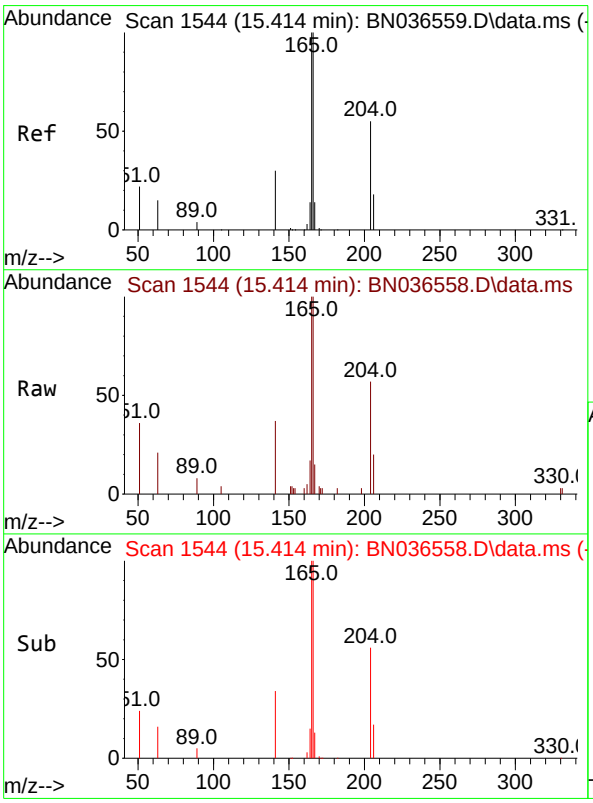
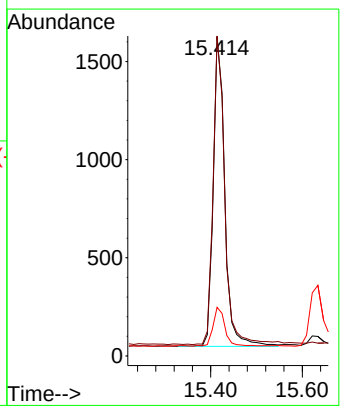
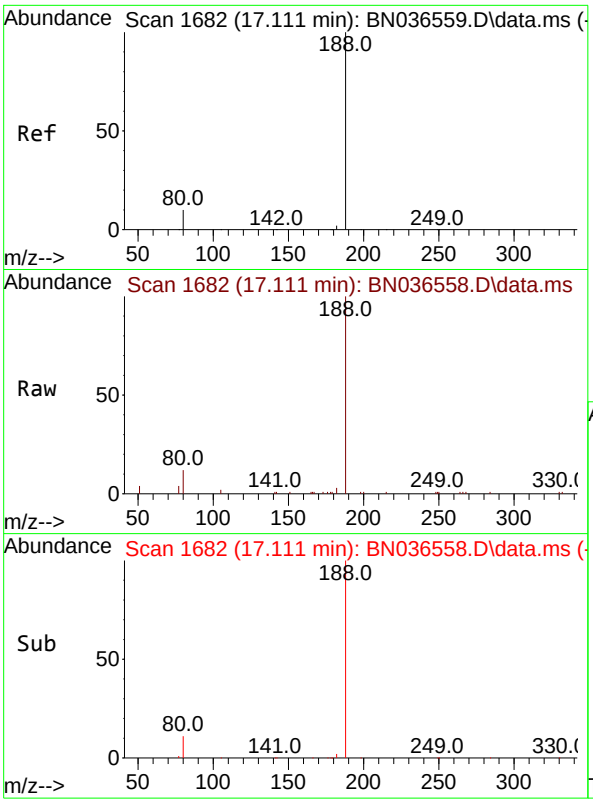


#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:166 Resp: 2813

Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.8
167	12.6	10.6	15.8

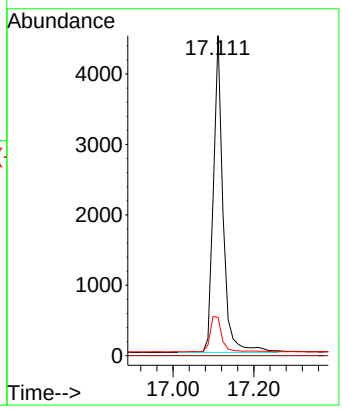




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:188 Resp: 750(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
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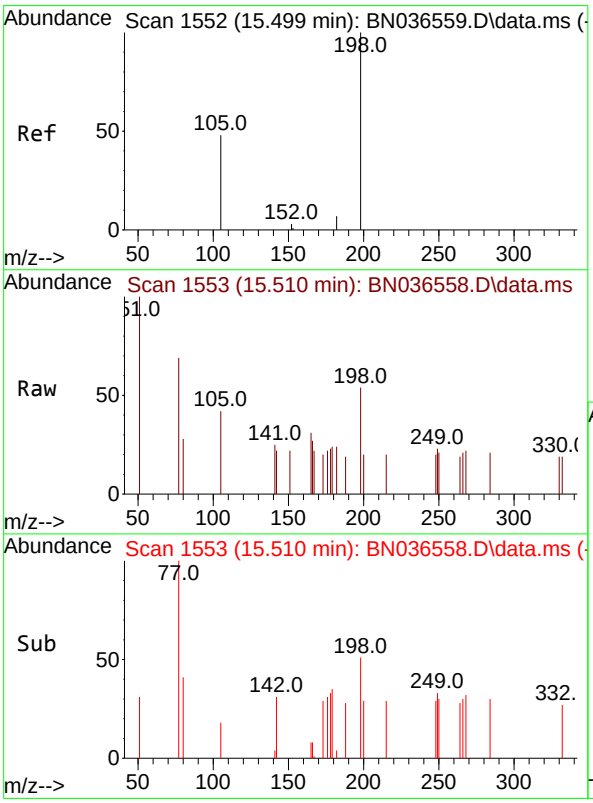
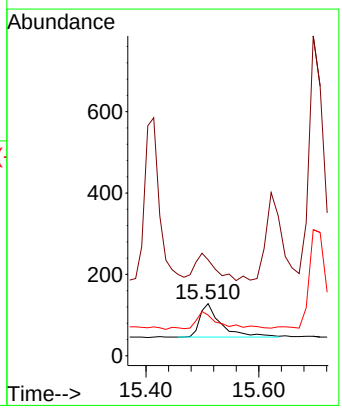
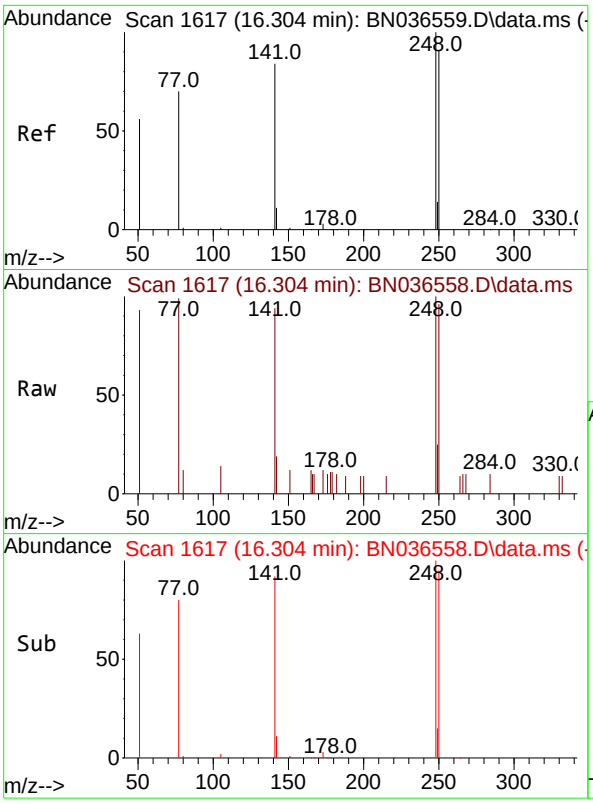


#20
4,6-Dinitro-2-methylphenol
Concen: 0.258 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:198 Resp: 214

Ion	Ratio	Lower	Upper
198	100		
51	184.4	107.9	161.9#
105	78.1	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:248 Resp: 85

Ion	Ratio	Lower	Upper
248	100		
250	95.9	73.0	109.6
141	93.7	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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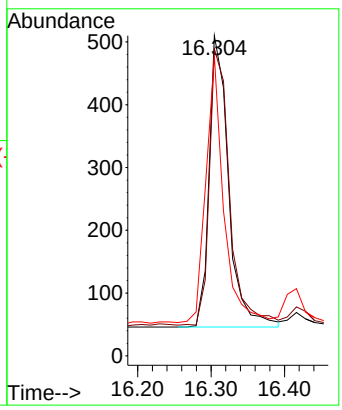
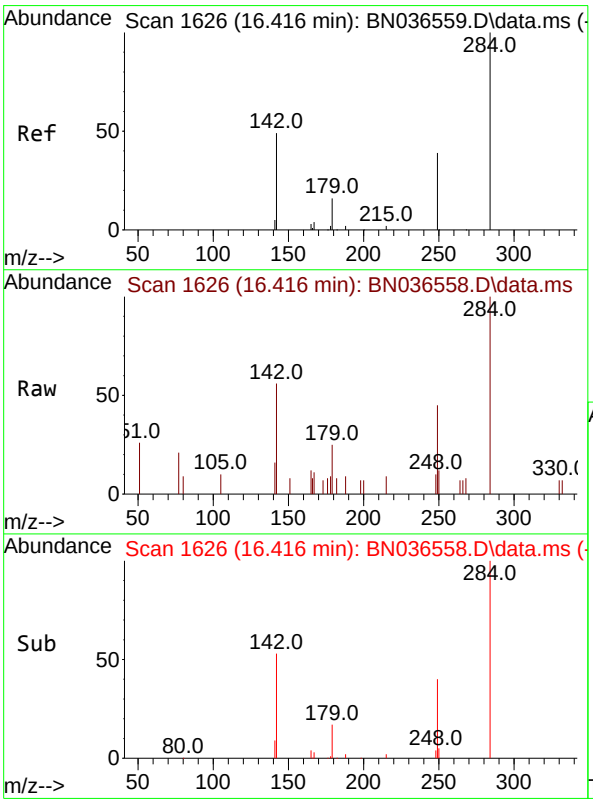
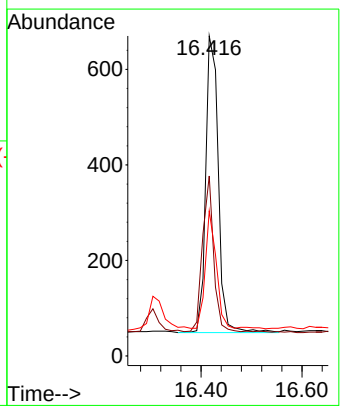


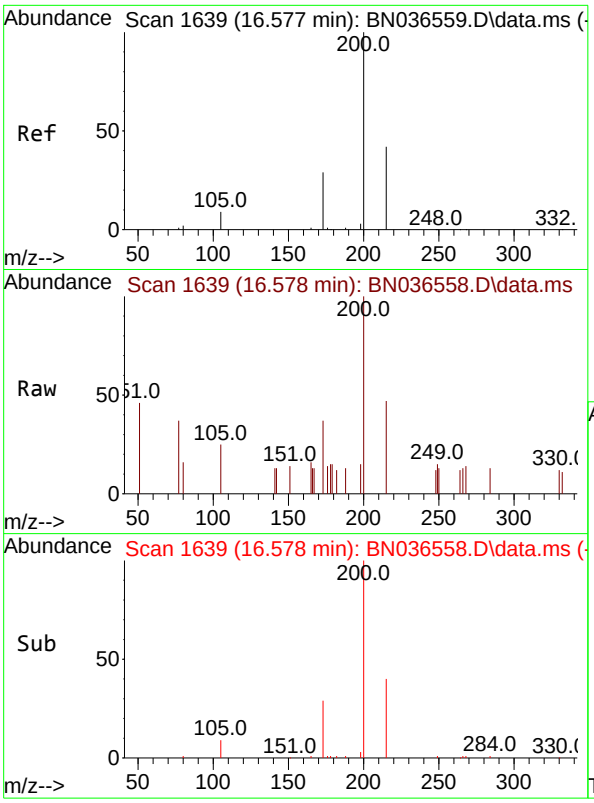


#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:284 Resp: 1079

Ion	Ratio	Lower	Upper
284	100		
142	47.0	37.0	55.4
249	34.8	28.1	42.1

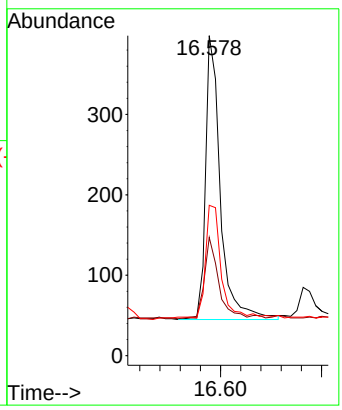




#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:200 Resp: 71(

Ion	Ratio	Lower	Upper
200	100		
173	36.9	27.3	40.9
215	47.0	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
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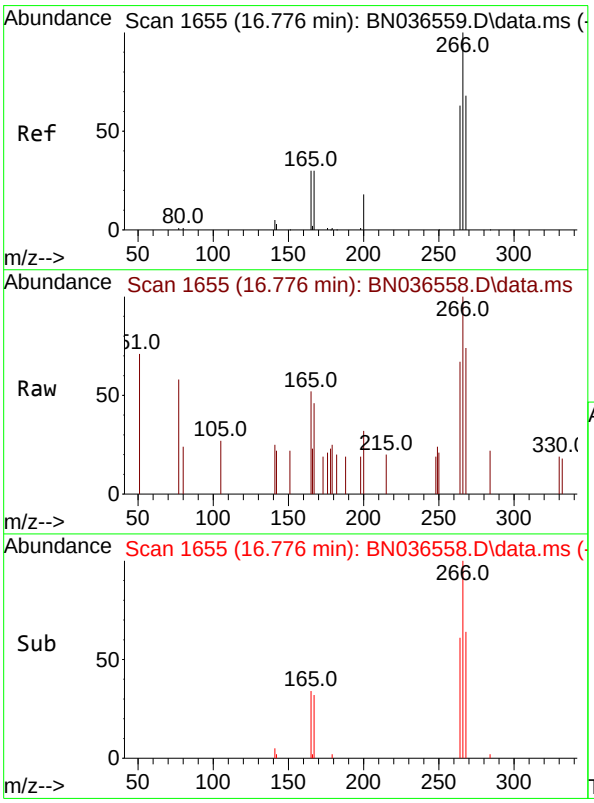
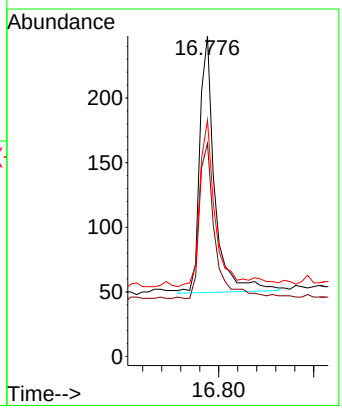
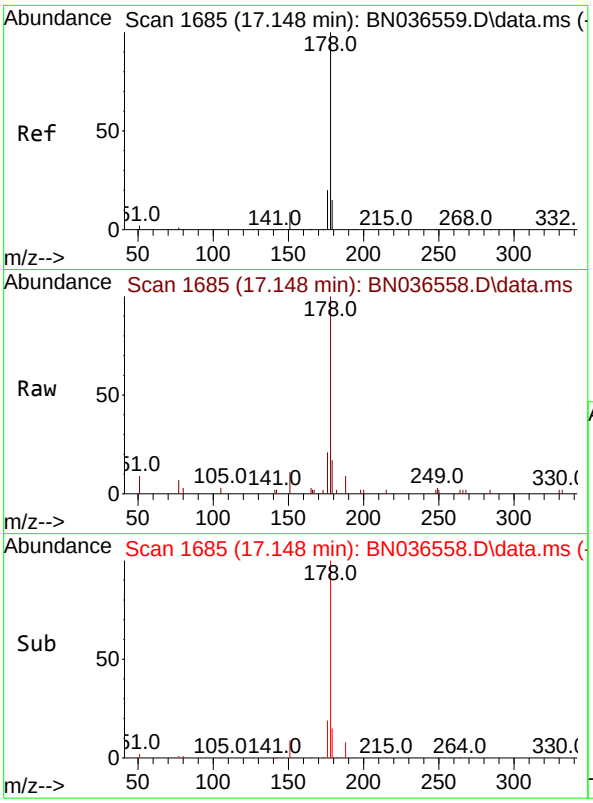


#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:266 Resp: 435

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.6	74.4
268	65.7	50.9	76.3

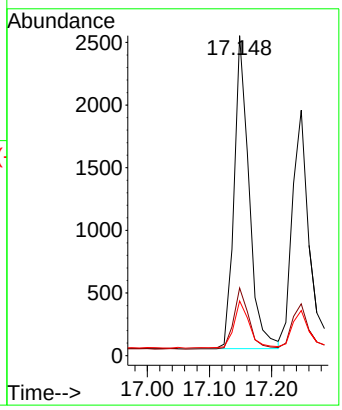




#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 417

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.5	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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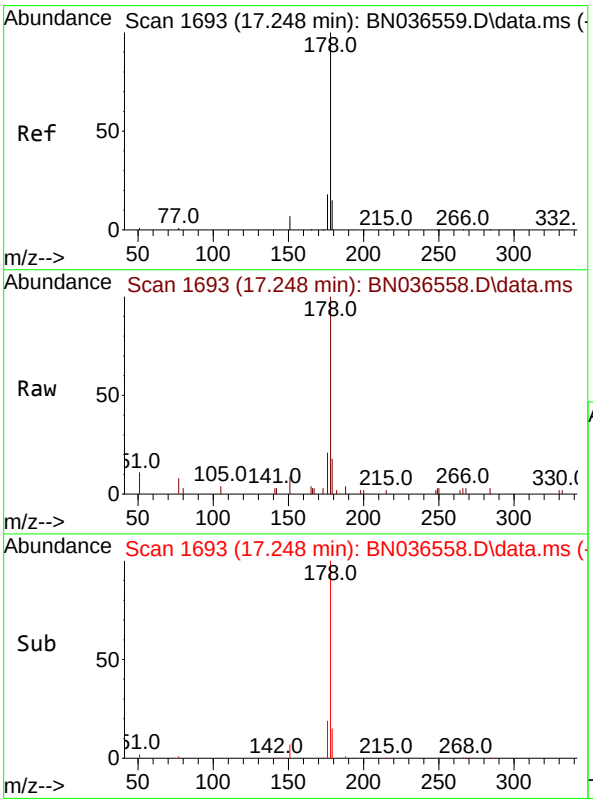
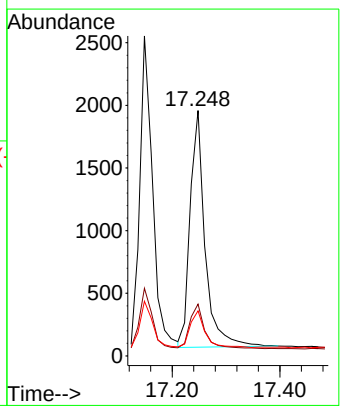
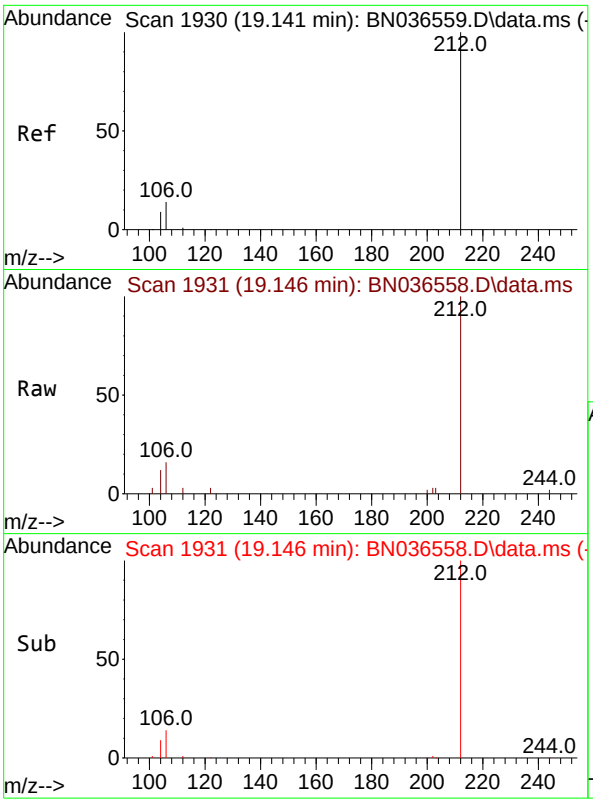


#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 3645

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.1	12.6	18.8

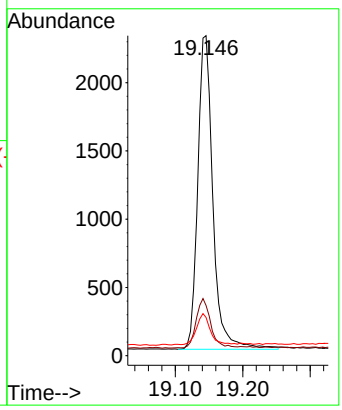




#27
Fluoranthene-d10
Concen: 0.186 ng
RT: 19.146 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:212 Resp: 358

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.3	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
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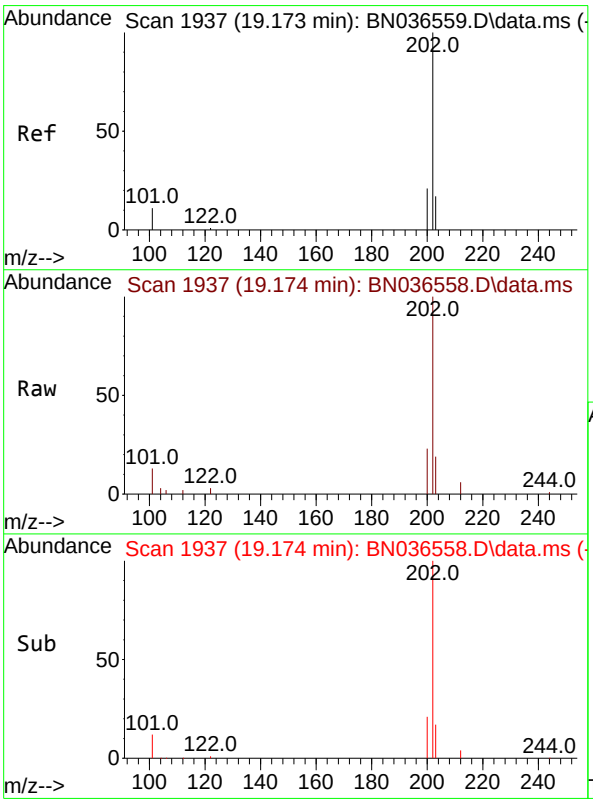
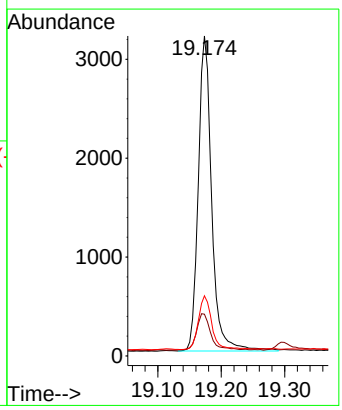
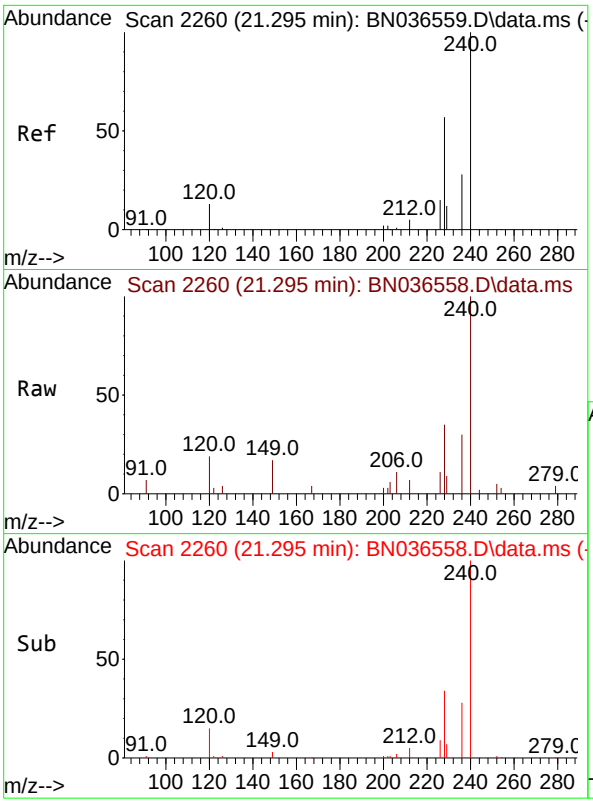


#28
Fluoranthene
Concen: 0.184 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4666

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.1	13.5	20.3

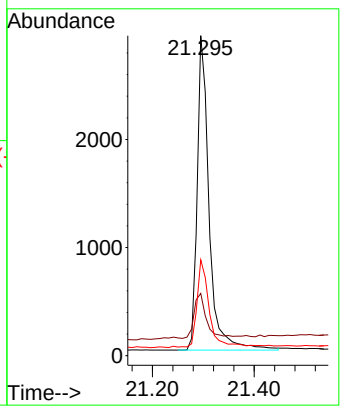




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:240 Resp: 473

Ion	Ratio	Lower	Upper
240	100		
120	19.5	14.6	22.0
236	29.9	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
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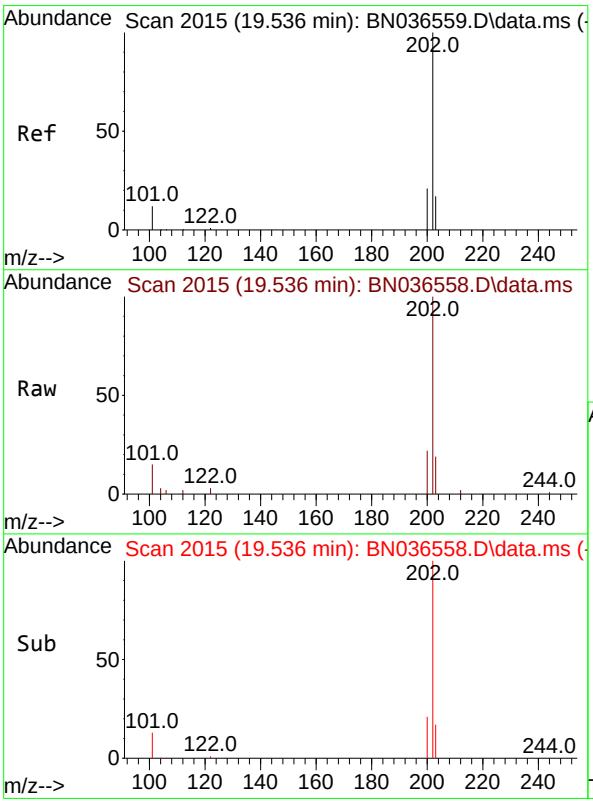
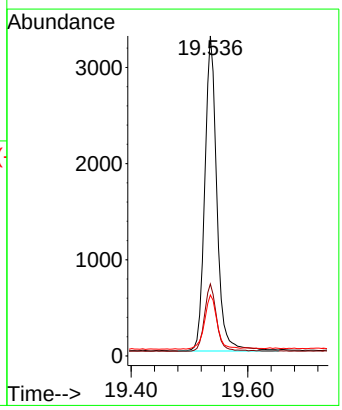
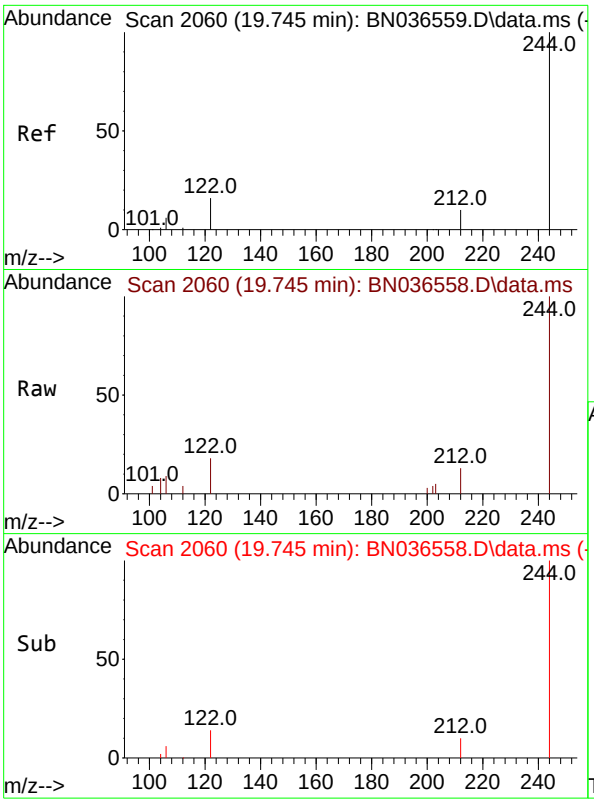


#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4742

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.1	25.7
203	17.7	14.1	21.1

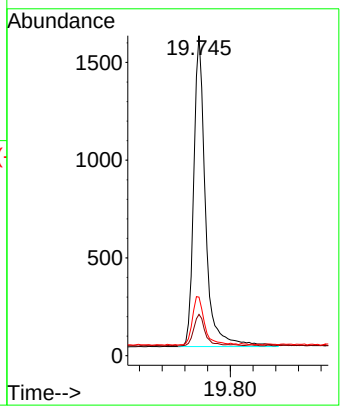




#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:244 Resp: 228

Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	18.3	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
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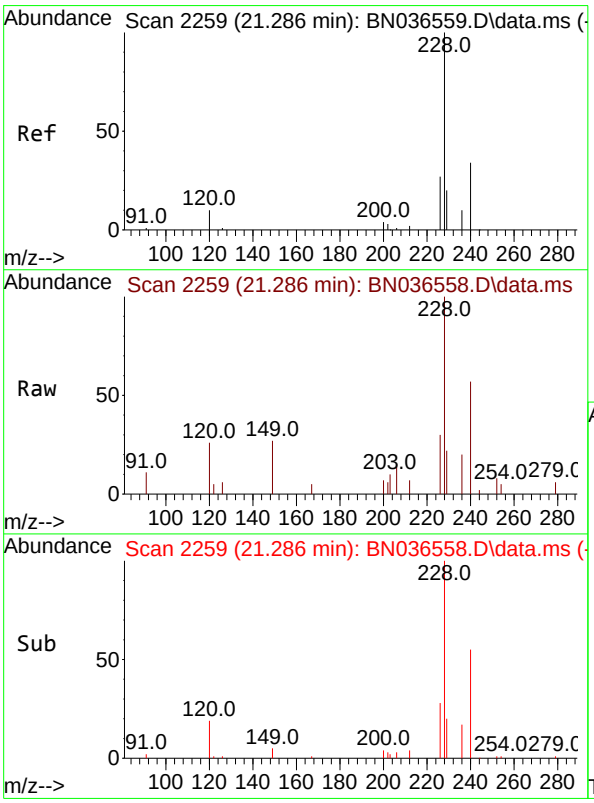
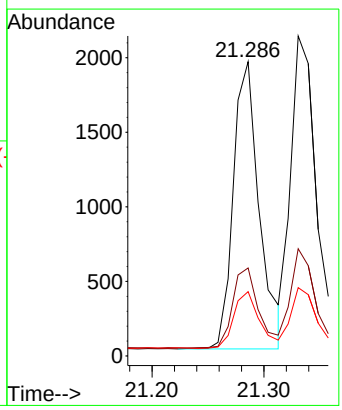
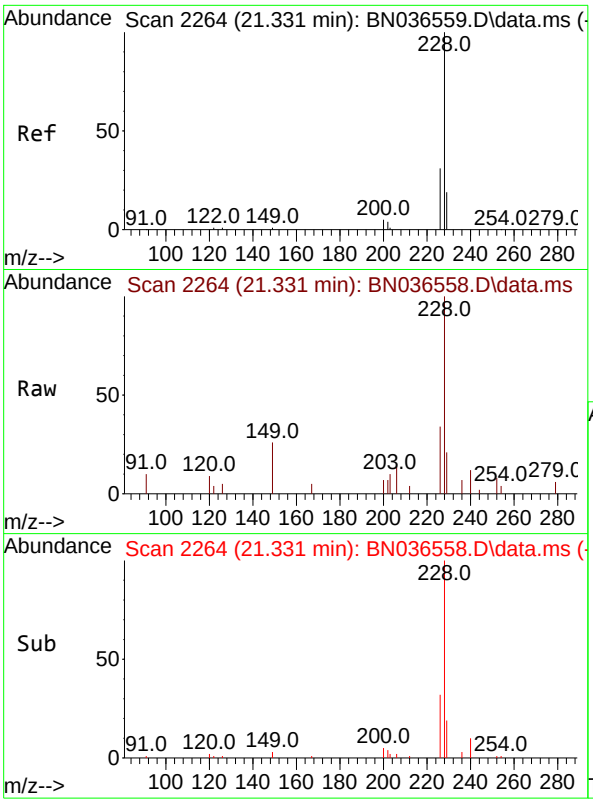


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 3111

Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.5	33.7
229	21.9	16.6	25.0

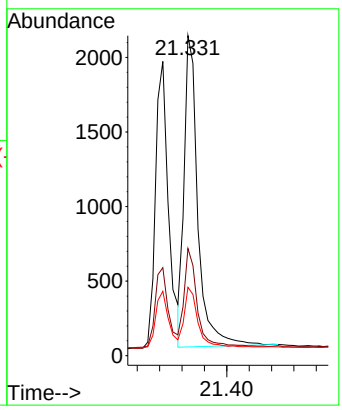




#33
Chrysene
Concen: 0.199 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 356

Ion	Ratio	Lower	Upper
228	100		
226	33.5	25.3	37.9
229	21.4	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
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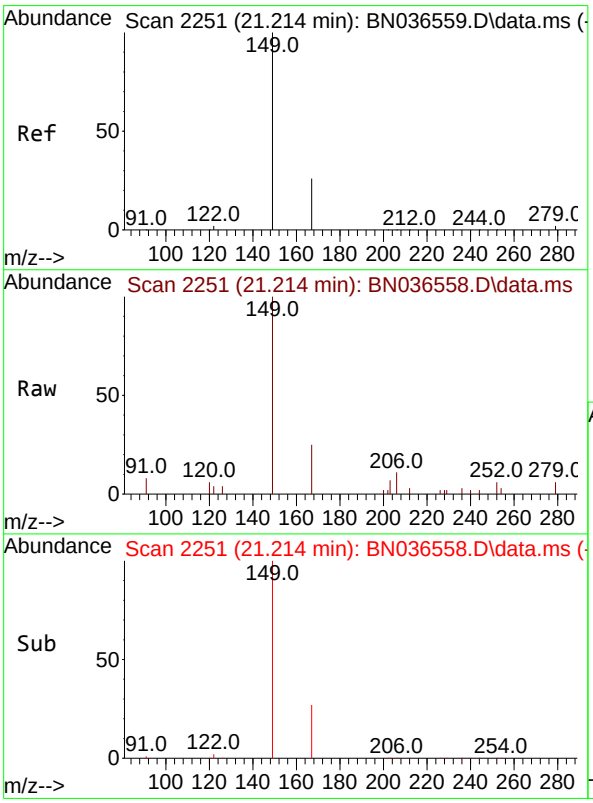
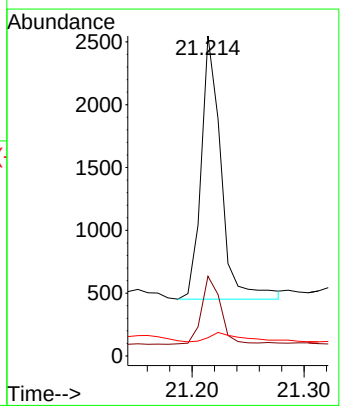
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

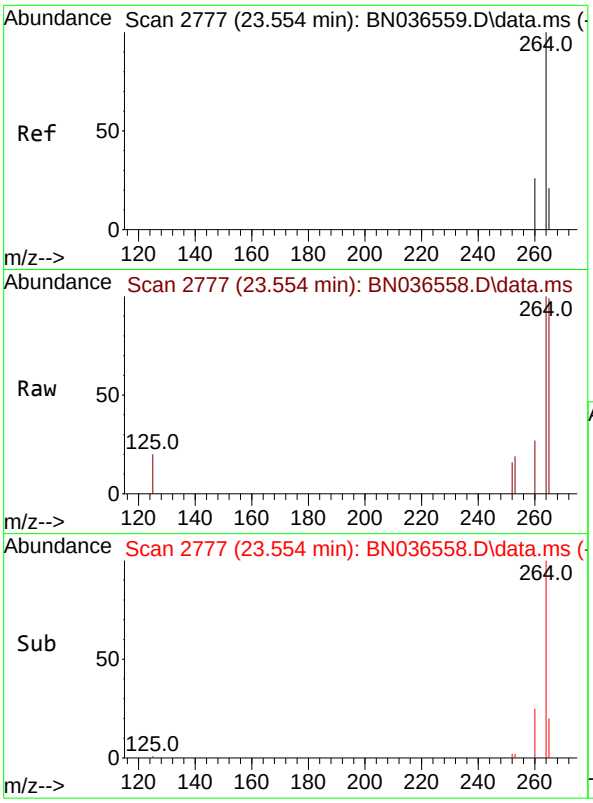


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.222 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:149 Resp: 2601

Ion	Ratio	Lower	Upper
149	100		
167	24.7	20.7	31.1
279	5.7	3.6	5.4#

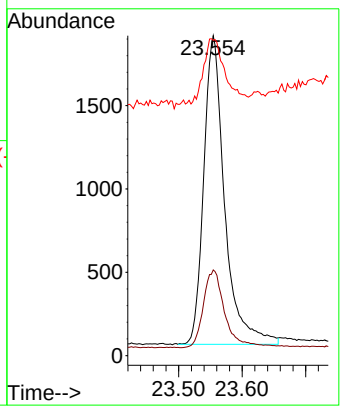




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:264 Resp: 424

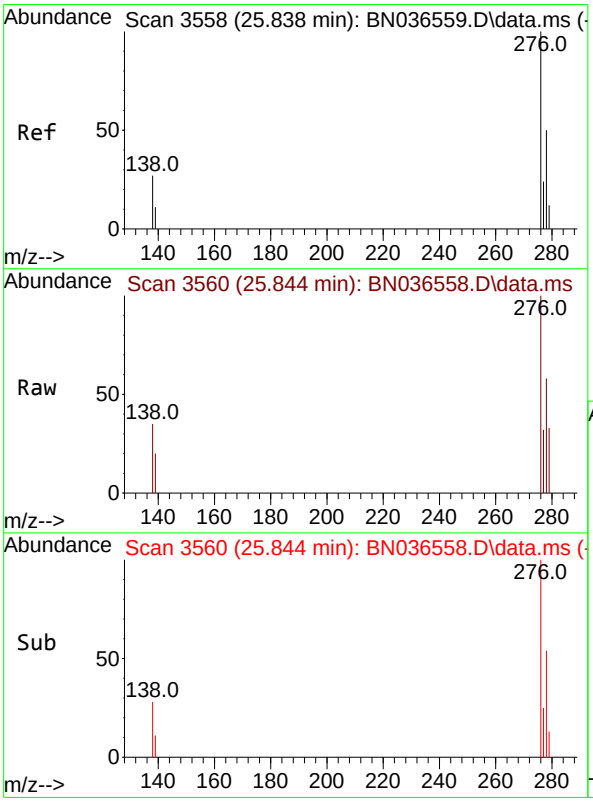
Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.6	33.8
265	98.5	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

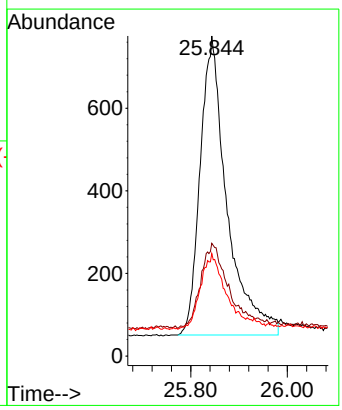
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

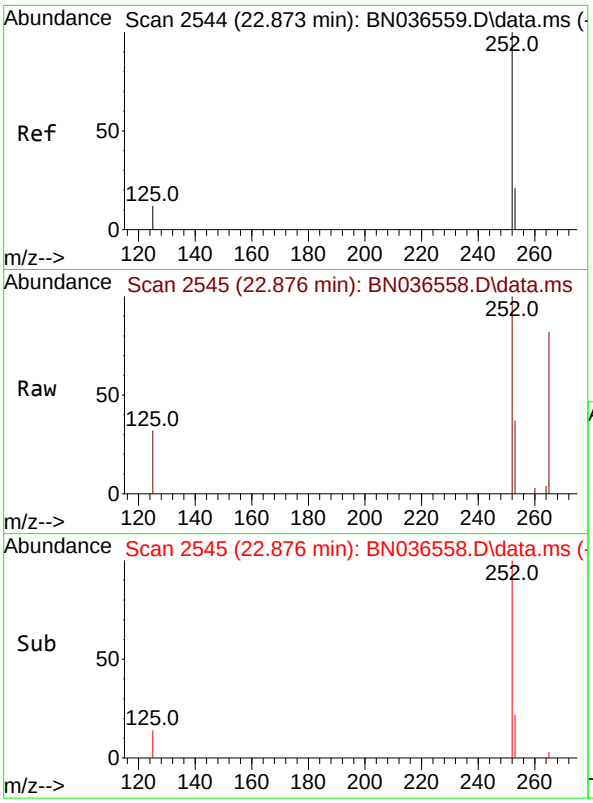


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.182 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:276 Resp: 2790

Ion	Ratio	Lower	Upper
276	100		
138	29.1	23.4	35.2
277	23.4	20.0	30.0

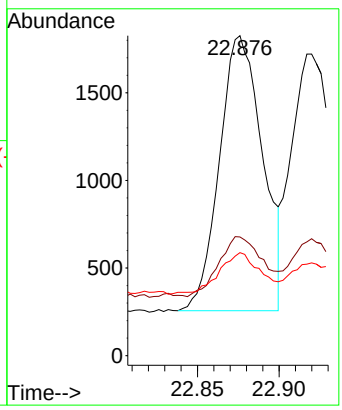




#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.876 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 288

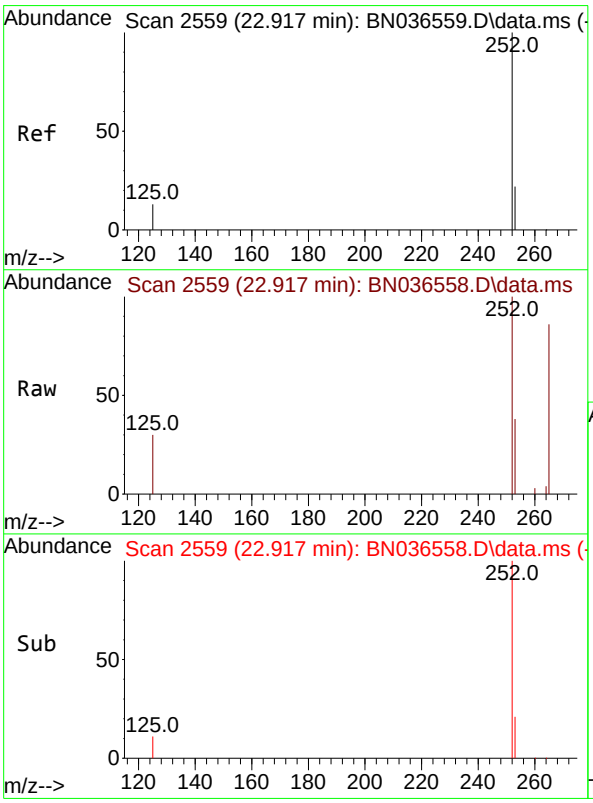
Ion	Ratio	Lower	Upper
252	100		
253	37.1	23.9	35.9#
125	32.2	17.4	26.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

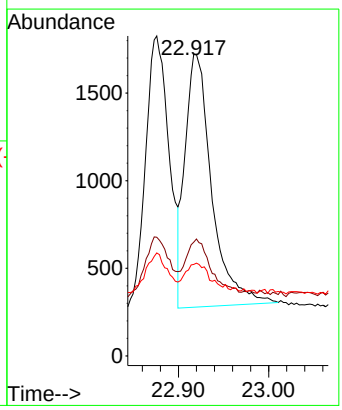
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

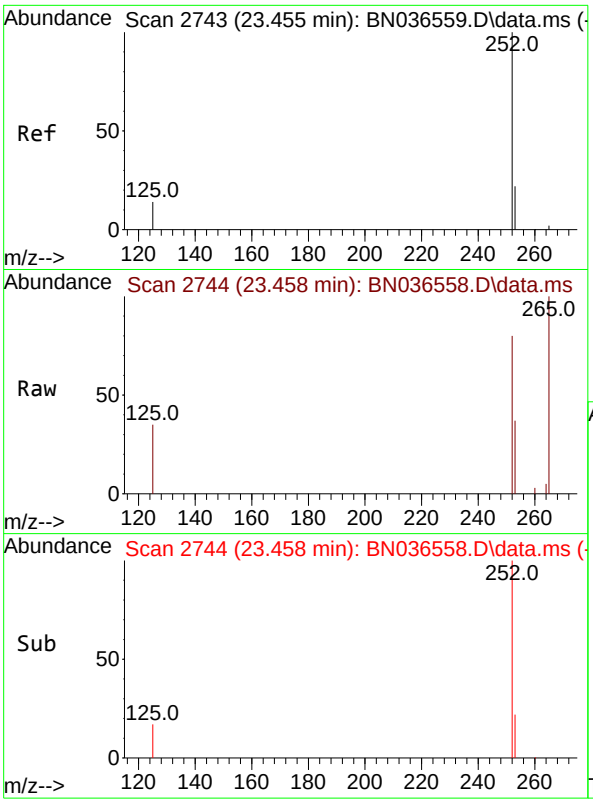


#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 2962

Ion	Ratio	Lower	Upper
252	100		
253	37.7	24.6	36.8#
125	30.3	17.8	26.8#

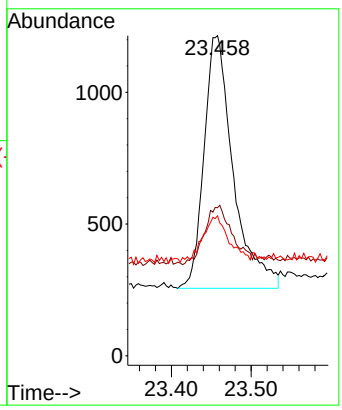




#39
Benzo(a)pyrene
Concen: 0.188 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 244

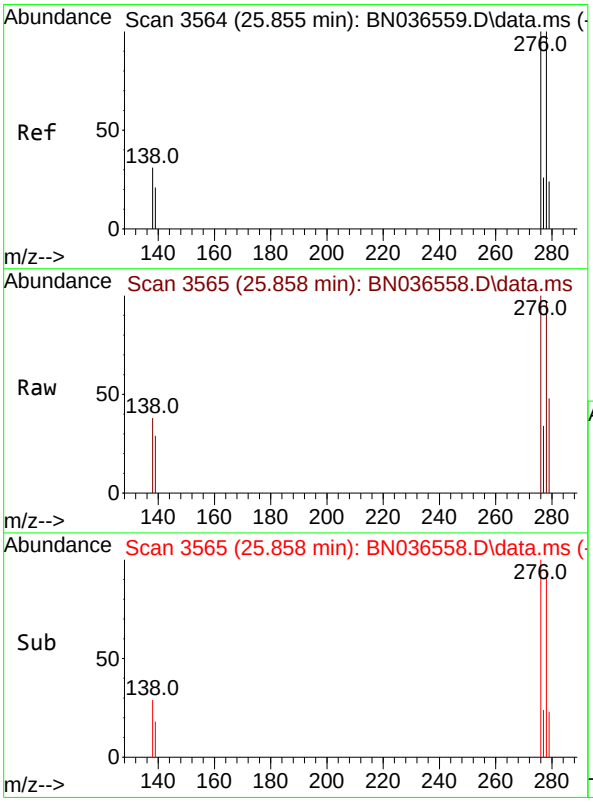
Ion	Ratio	Lower	Upper
252	100		
253	46.3	27.8	41.8#
125	43.7	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

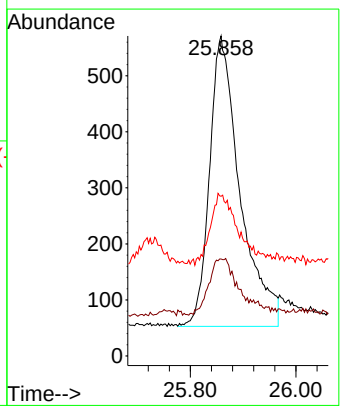
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

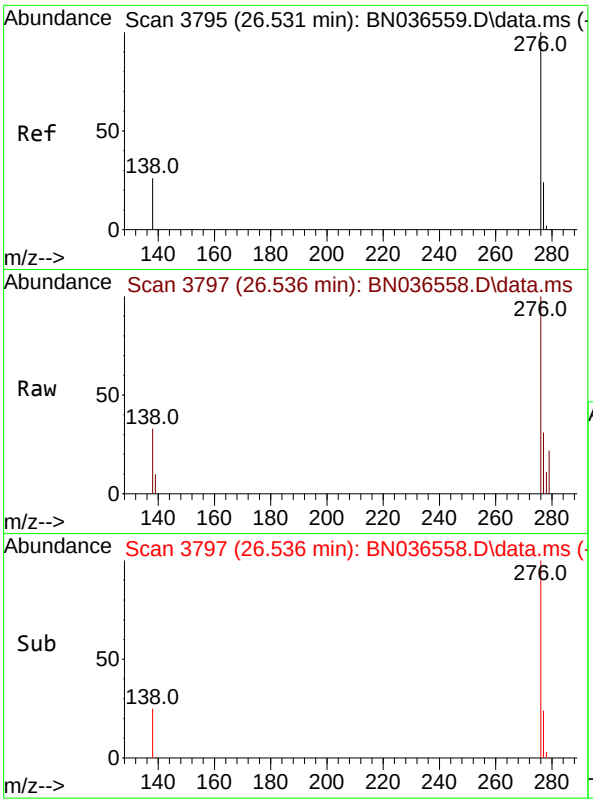


#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:278 Resp: 2080

Ion	Ratio	Lower	Upper
278	100		
139	30.3	20.8	31.2
279	49.9	28.8	43.2#

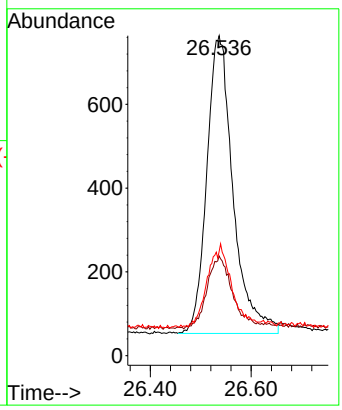




#41
Benzo(g,h,i)perylene
Concen: 0.189 ng
RT: 26.536 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:276 Resp: 257

Ion	Ratio	Lower	Upper
276	100		
277	31.2	22.2	33.4
138	32.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036559.D
Acq On : 10 Mar 2025 12:54
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

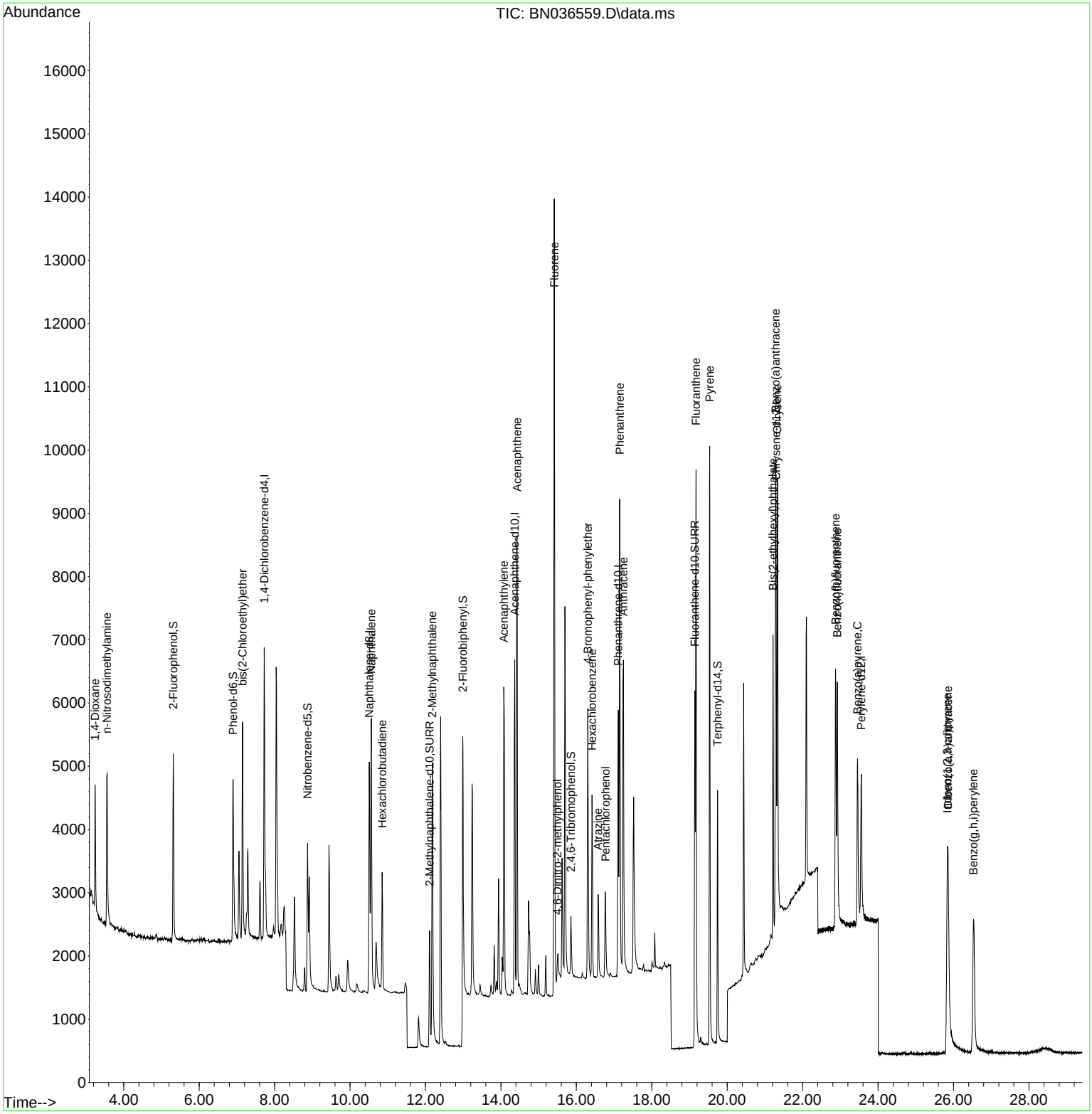
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2207	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5091	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3026	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	6005	0.400	ng		0.00
29) Chrysene-d12	21.295	240	4110	0.400	ng		0.00
35) Perylene-d12	23.554	264	3539	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	2178	0.423	ng		0.00
5) Phenol-d6	6.901	99	2489	0.392	ng		0.00
8) Nitrobenzene-d5	8.875	82	2113	0.382	ng		0.00
11) 2-Methylnaphthalene-d10	12.111	152	3085	0.407	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	567	0.413	ng		0.00
15) 2-Fluorobiphenyl	12.988	172	7257	0.412	ng		0.00
27) Fluoranthene-d10	19.141	212	6699	0.435	ng		0.00
31) Terphenyl-d14	19.745	244	4226	0.429	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	1099	0.449	ng		100
3) n-Nitrosodimethylamine	3.550	42	2063	0.417	ng		100
6) bis(2-Chloroethyl)ether	7.154	93	2610	0.397	ng		100
9) Naphthalene	10.562	128	6139	0.410	ng		100
10) Hexachlorobutadiene	10.850	225	1498	0.425	ng	#	100
12) 2-Methylnaphthalene	12.182	142	3897	0.409	ng		100
16) Acenaphthylene	14.077	152	5865	0.411	ng		100
17) Acenaphthene	14.430	154	3877	0.415	ng		100
18) Fluorene	15.414	166	5338	0.422	ng		100
20) 4,6-Dinitro-2-methylph...	15.499	198	462	0.447	ng		100
21) 4-Bromophenyl-phenylether	16.304	248	1644	0.437	ng		100
22) Hexachlorobenzene	16.416	284	2018	0.444	ng		100
23) Atrazine	16.577	200	1279	0.424	ng		100
24) Pentachlorophenol	16.776	266	821	0.396	ng		100
25) Phenanthrene	17.148	178	7786	0.432	ng		100
26) Anthracene	17.248	178	6886	0.424	ng		100
28) Fluoranthene	19.173	202	8717	0.431	ng		100
30) Pyrene	19.536	202	8759	0.436	ng		100
32) Benzo(a)anthracene	21.286	228	5908	0.413	ng		100
33) Chrysene	21.331	228	6617	0.424	ng		100
34) Bis(2-ethylhexyl)phtha...	21.214	149	4291	0.422	ng		100
36) Indeno(1,2,3-cd)pyrene	25.838	276	5470	0.428	ng		100
37) Benzo(b)fluoranthene	22.873	252	5475	0.425	ng		100
38) Benzo(k)fluoranthene	22.917	252	5732	0.424	ng		100
39) Benzo(a)pyrene	23.455	252	4612	0.425	ng		100
40) Dibenzo(a,h)anthracene	25.855	278	4117	0.414	ng		100
41) Benzo(g,h,i)perylene	26.531	276	4891	0.430	ng		100

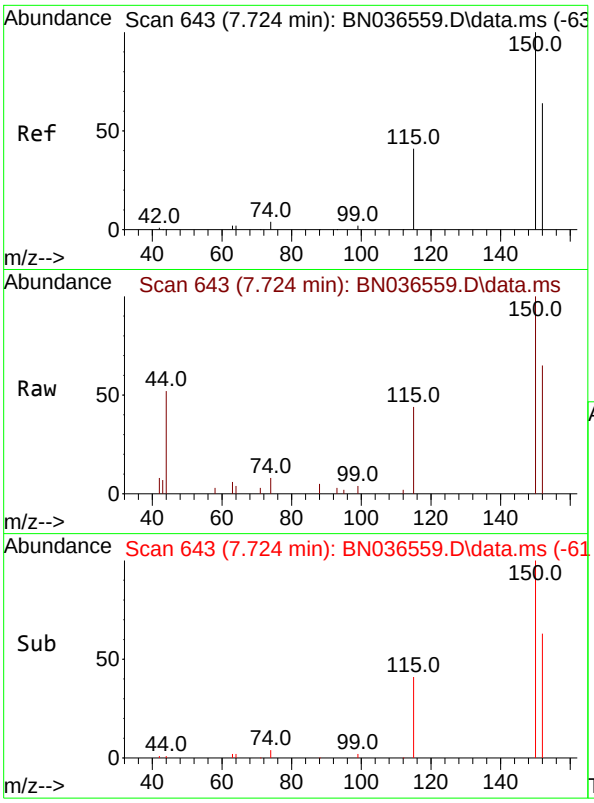
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036559.D
Acq On : 10 Mar 2025 12:54
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



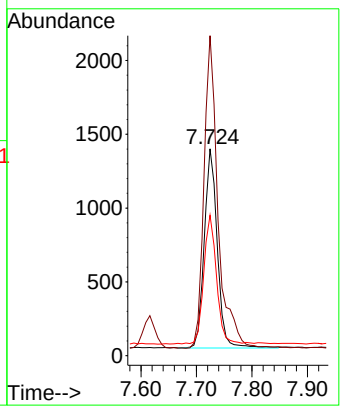


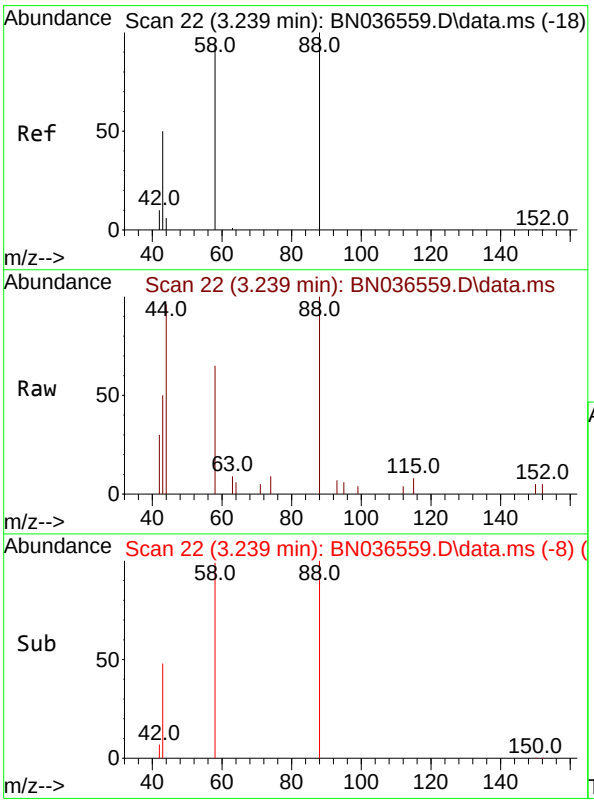
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2207

Ion	Ratio	Lower	Upper
152	100		
150	154.6	123.7	185.5
115	67.9	54.3	81.5

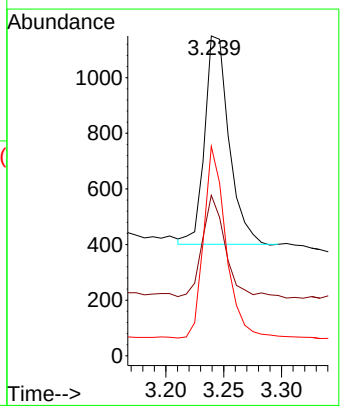


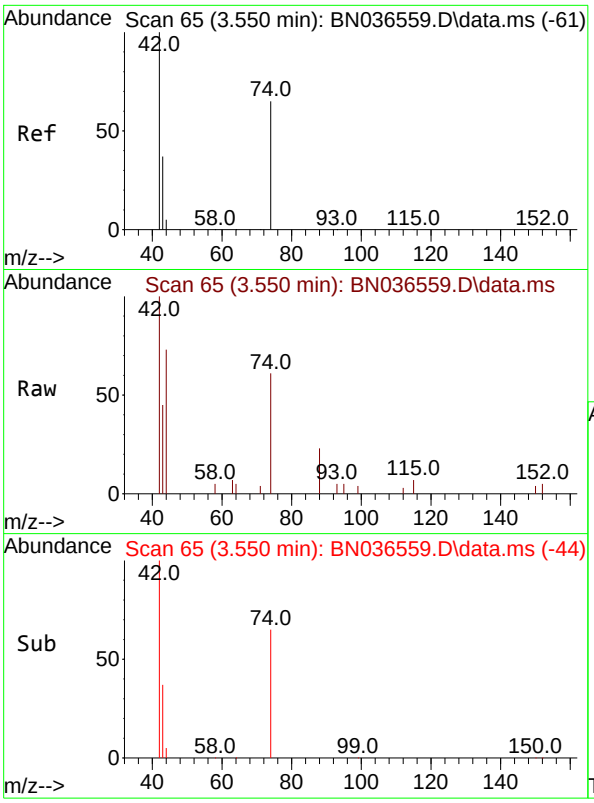


#2
1,4-Dioxane
Concen: 0.449 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 88 Resp: 1099

Ion	Ratio	Lower	Upper
88	100		
43	47.3	37.8	56.8
58	84.3	67.4	101.2



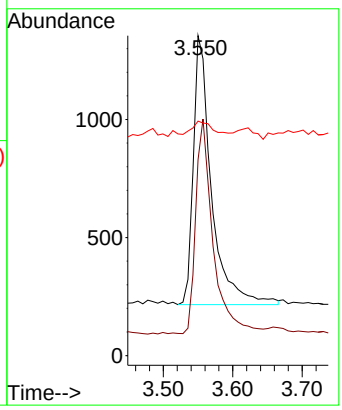


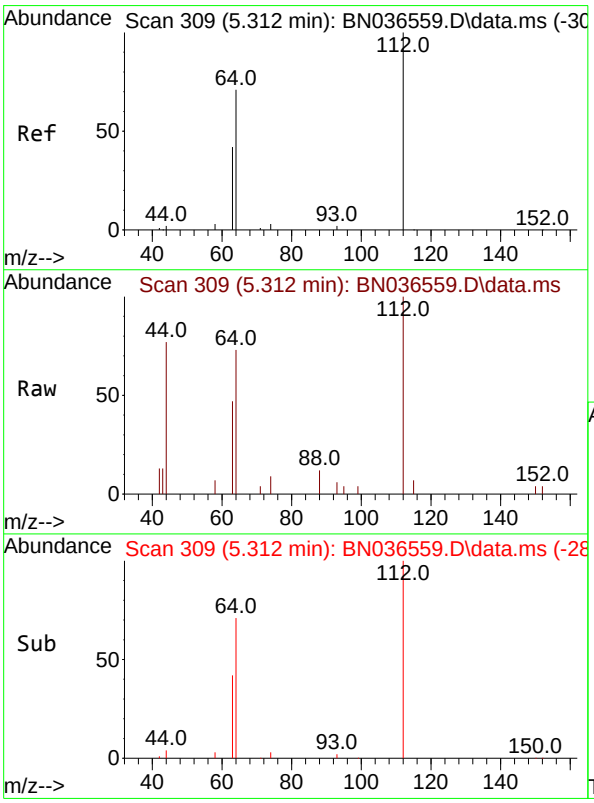
#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 2063

Ion	Ratio	Lower	Upper
42	100		
74	75.7	60.6	90.8
44	7.9	6.3	9.5

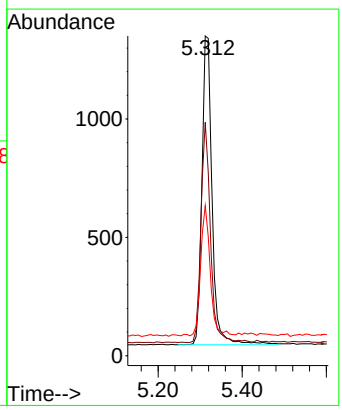


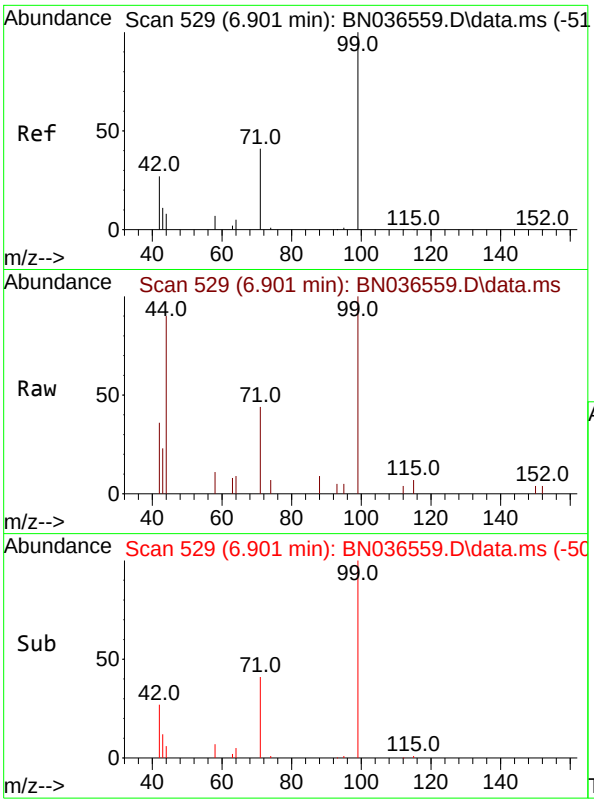


#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:112 Resp: 2178

Ion	Ratio	Lower	Upper
112	100		
64	66.4	53.1	79.7
63	39.8	31.8	47.8



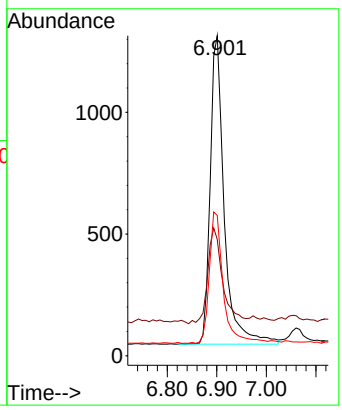


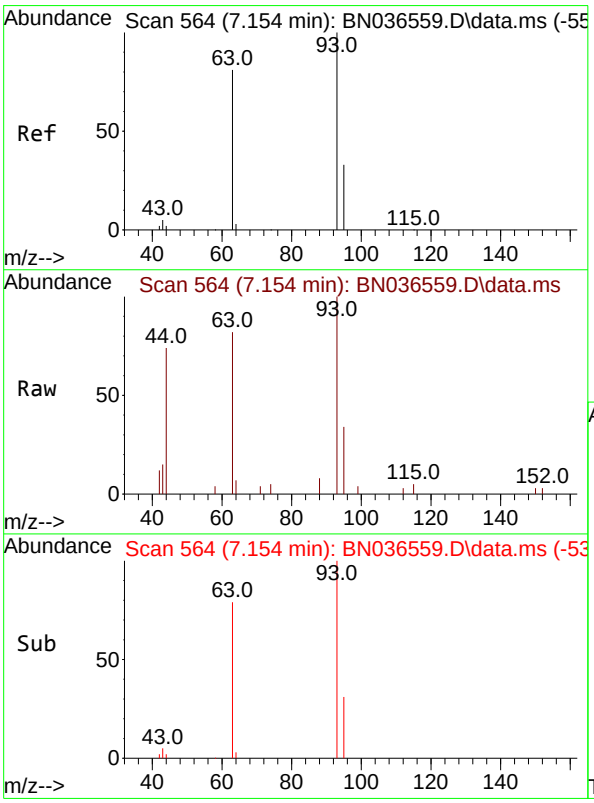
#5
Phenol-d6
Concen: 0.392 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 2489

Ion	Ratio	Lower	Upper
99	100		
42	33.1	26.5	39.7
71	42.6	34.1	51.1

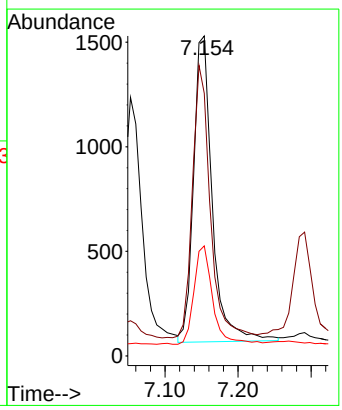


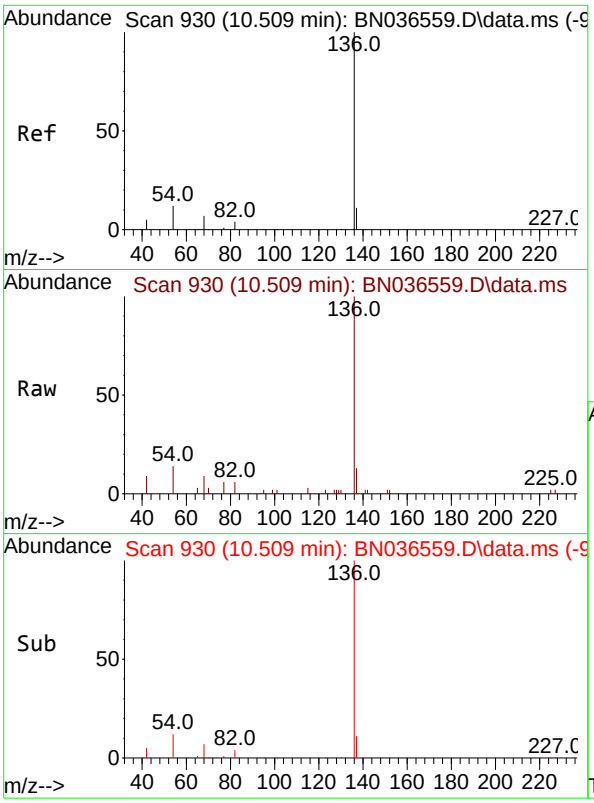


#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 93 Resp: 2610

Ion	Ratio	Lower	Upper
93	100		
63	84.6	67.7	101.5
95	32.0	25.6	38.4



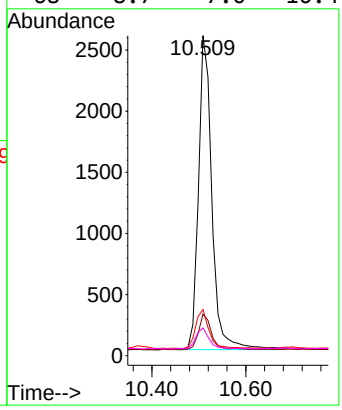


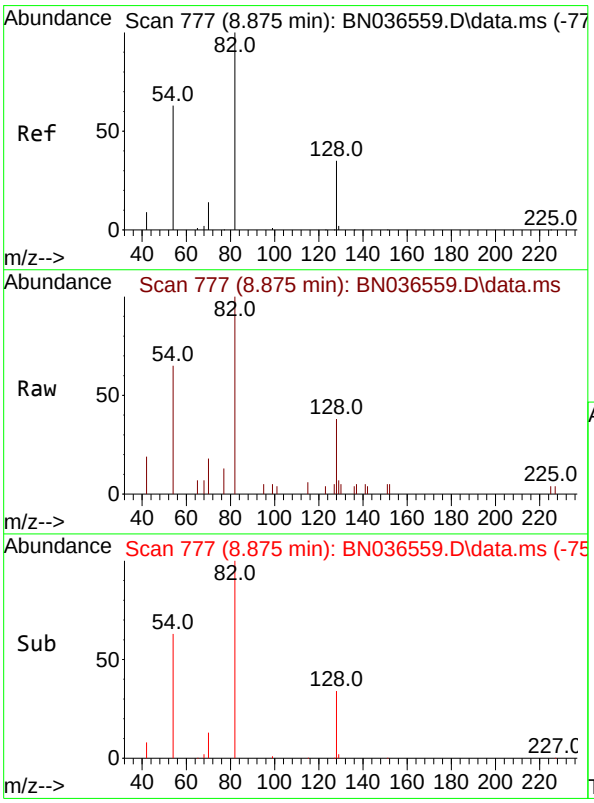
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 5091

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	14.4	11.5	17.3
68	8.7	7.0	10.4

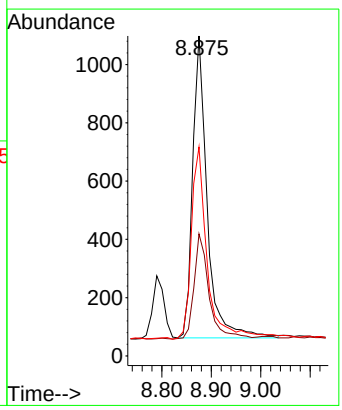


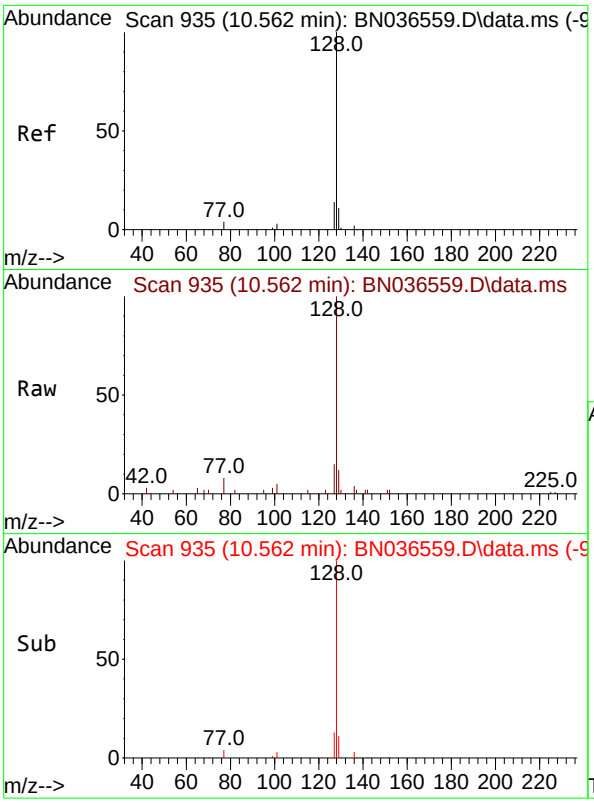


#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 82 Resp: 2113

Ion	Ratio	Lower	Upper
82	100		
128	38.2	30.6	45.8
54	65.3	52.2	78.4



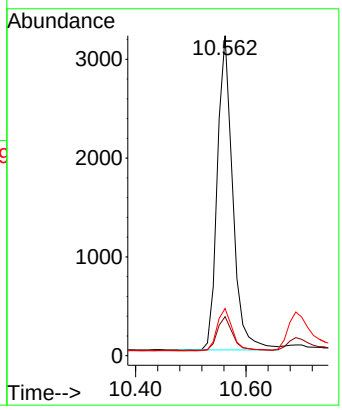


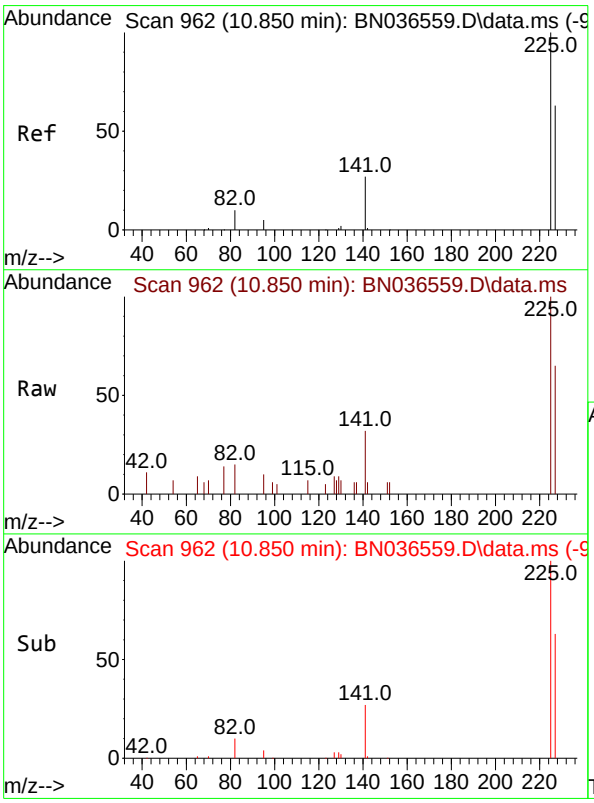
#9
Naphthalene
Concen: 0.410 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 6139

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.8	11.8	17.8

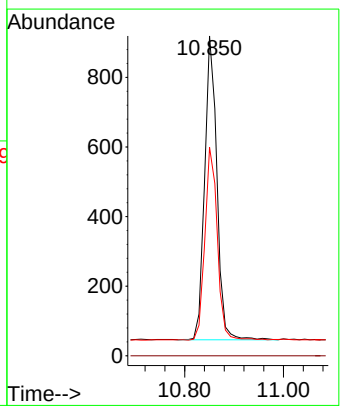


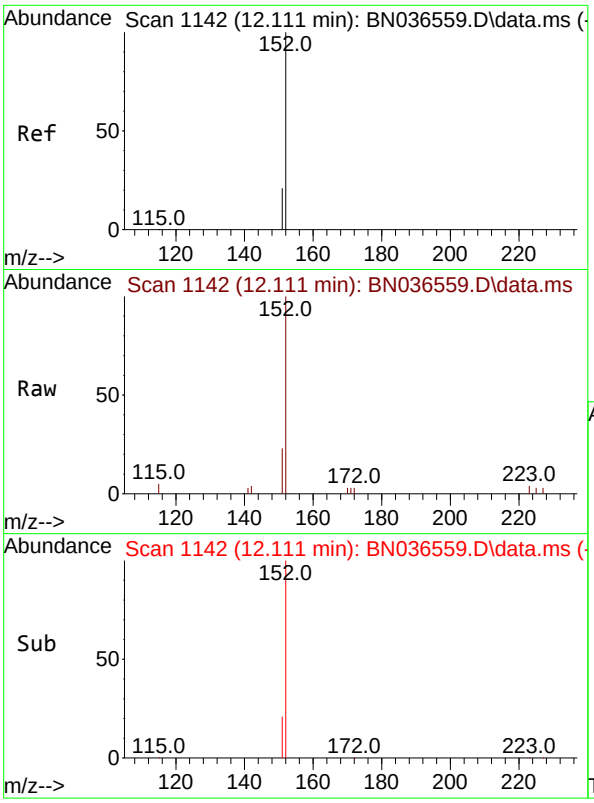


#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:225 Resp: 1498

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.8	51.8	77.8



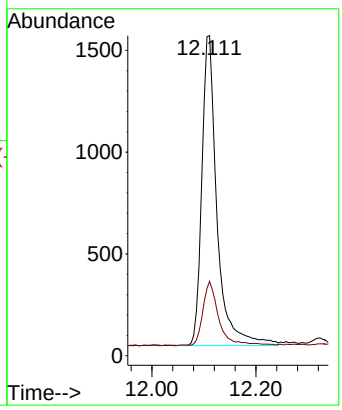


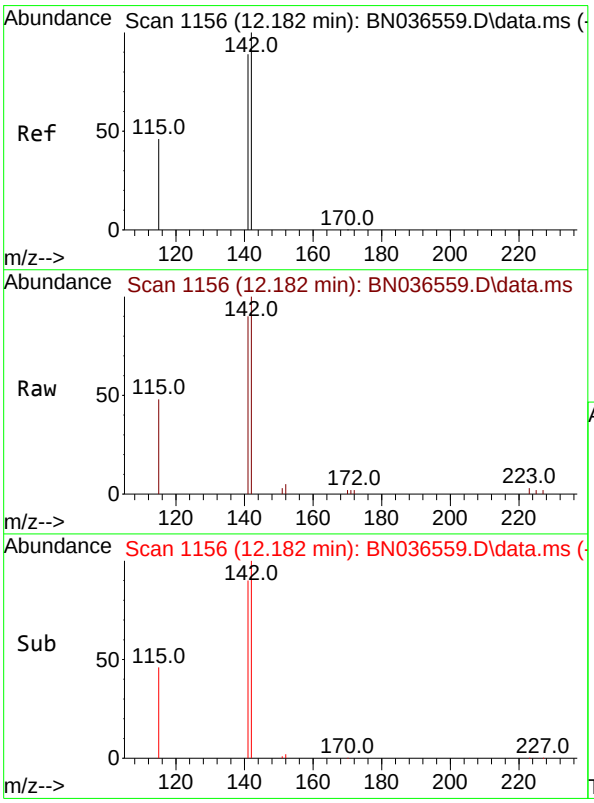
#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3085

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

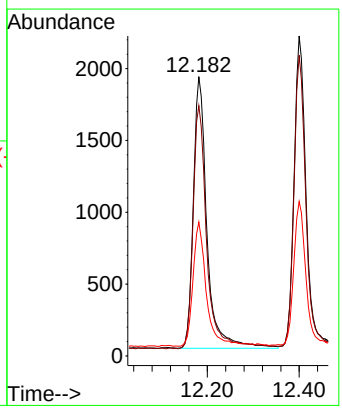


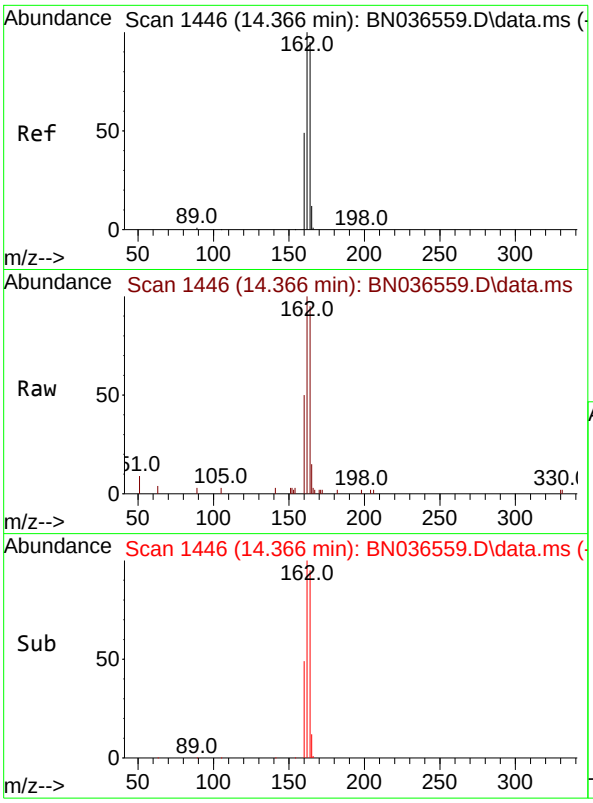


#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:142 Resp: 3897

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.7	107.5
115	47.9	38.3	57.5



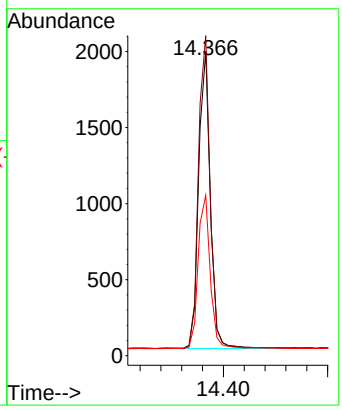


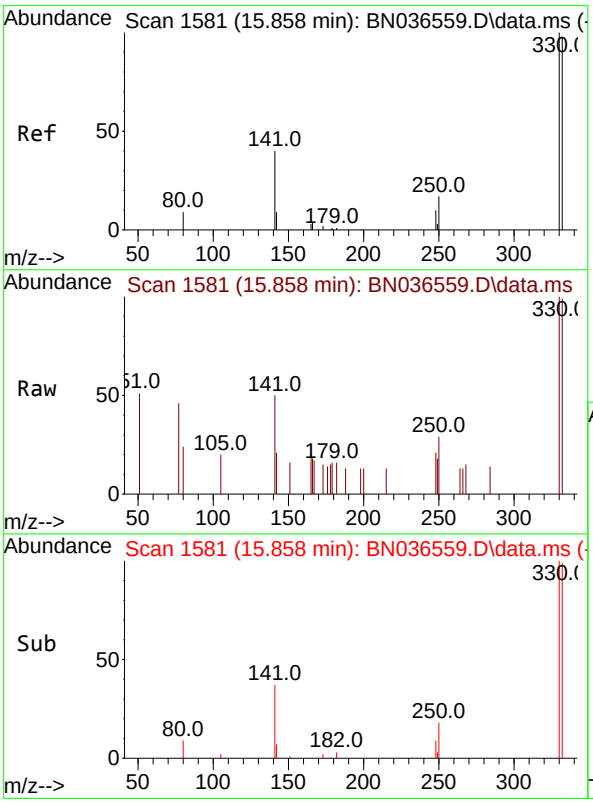
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 3026

Ion	Ratio	Lower	Upper
164	100		
162	105.2	84.2	126.2
160	52.7	42.2	63.2

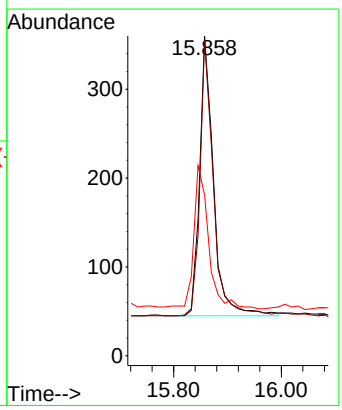


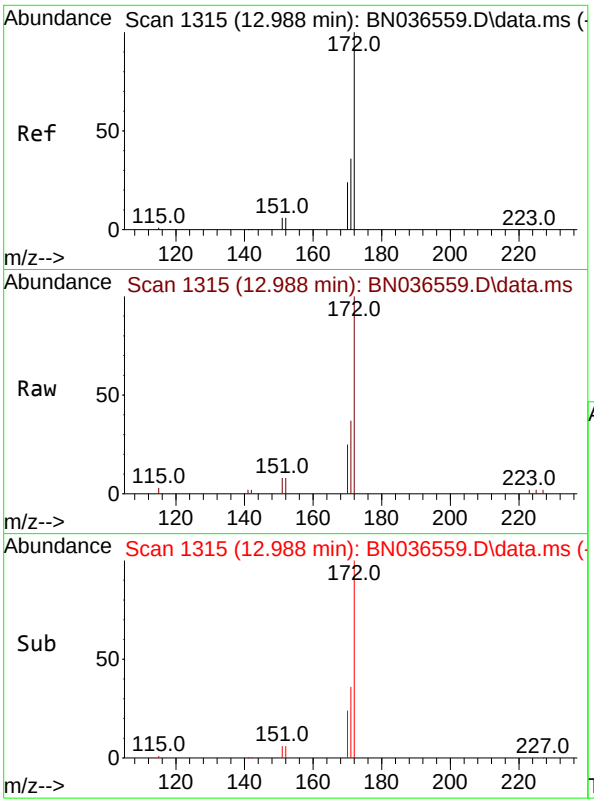


#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:330 Resp: 567

Ion	Ratio	Lower	Upper
330	100		
332	94.0	75.2	112.8
141	54.3	43.4	65.2



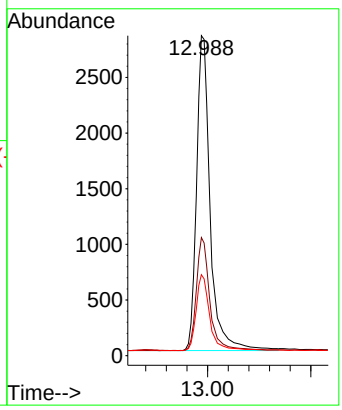


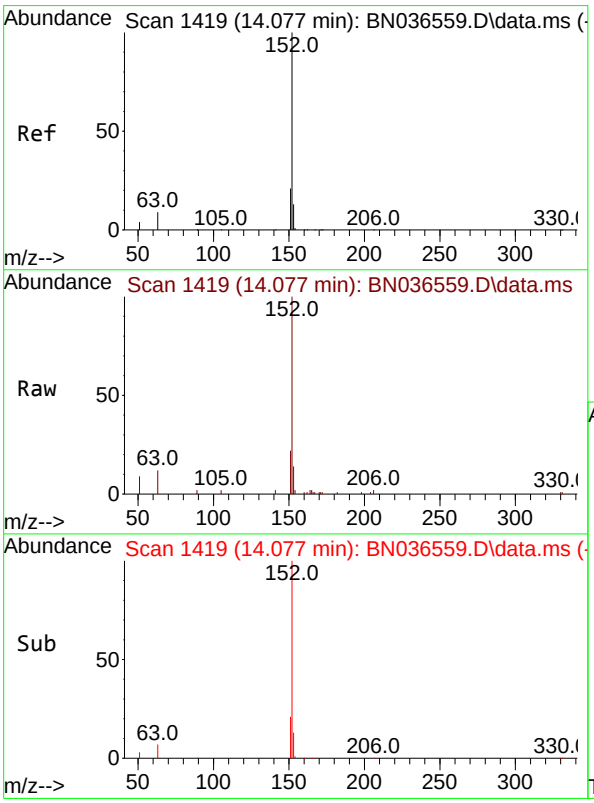
#15
2-Fluorobiphenyl
Concen: 0.412 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 7257

Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.5	44.3
170	25.3	20.2	30.4

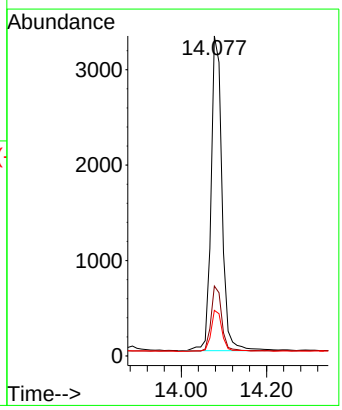


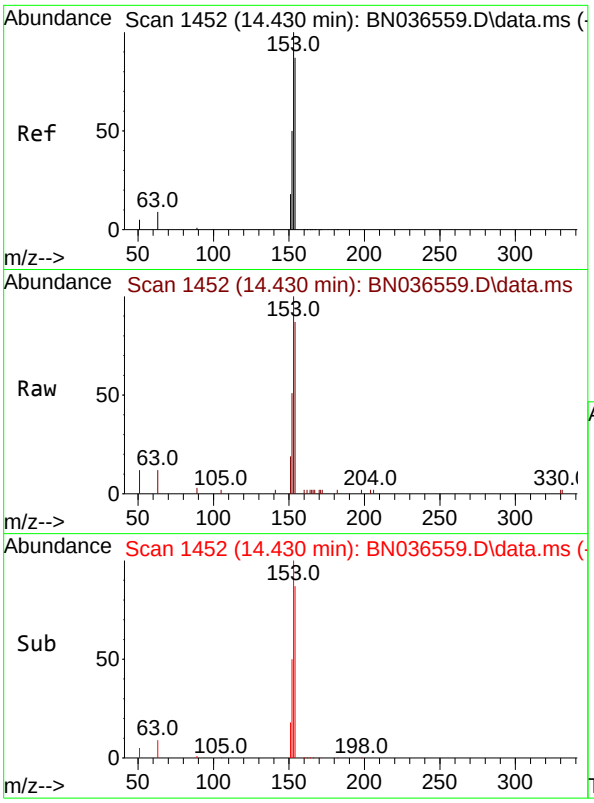


#16
Acenaphthylene
Concen: 0.411 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:152 Resp: 5865

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.2	10.6	15.8



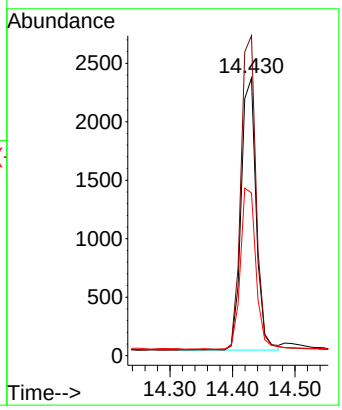


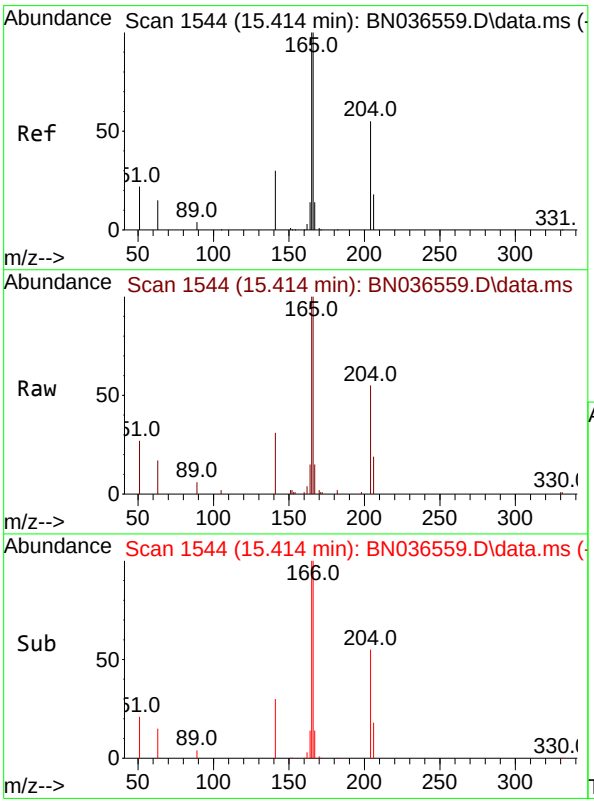
#17
Acenaphthene
Concen: 0.415 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 3877

Ion	Ratio	Lower	Upper
154	100		
153	117.6	94.1	141.1
152	62.2	49.8	74.6

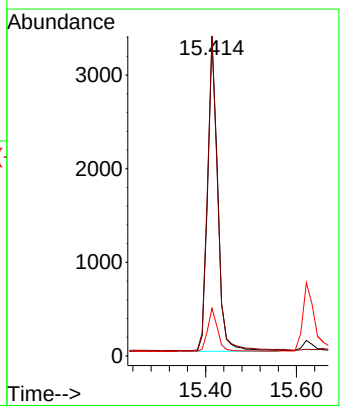


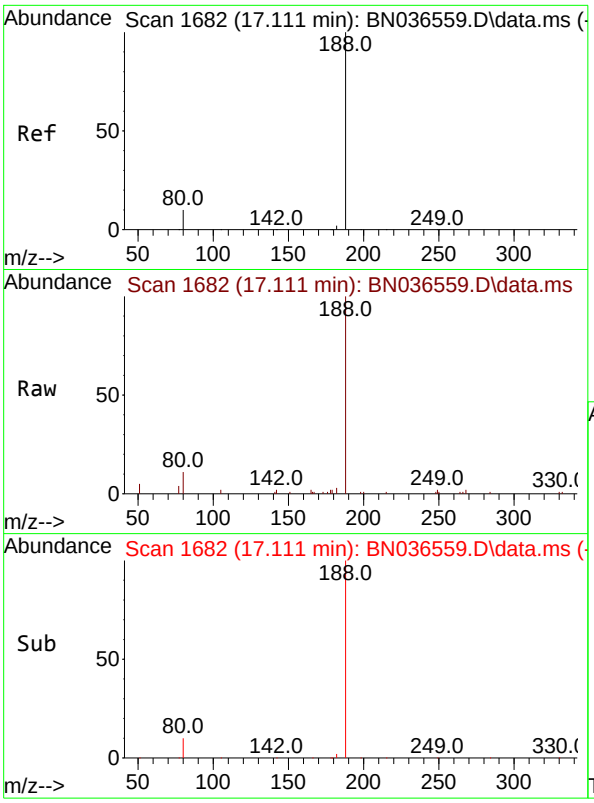


#18
Fluorene
Concen: 0.422 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:166 Resp: 5338

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.8
167	13.2	10.6	15.8



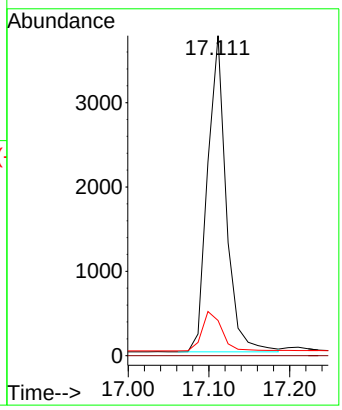


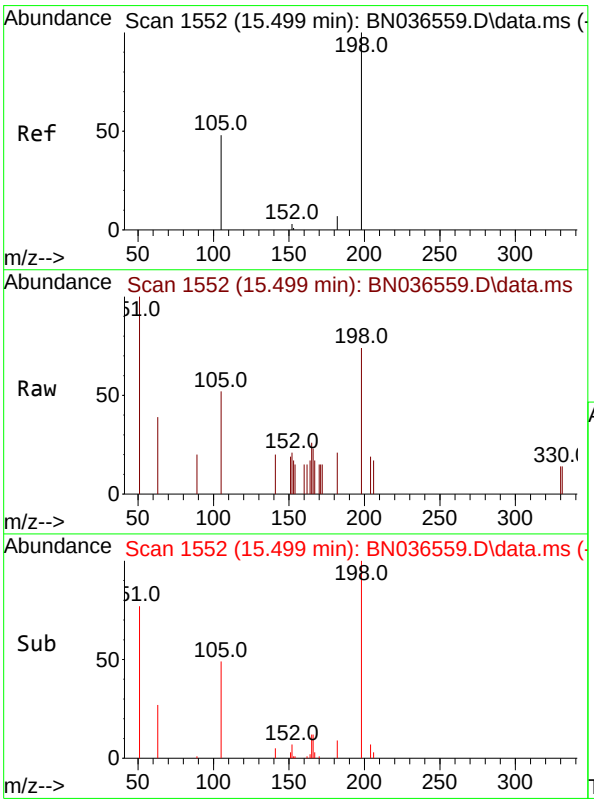
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 6005

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	8.8	13.2

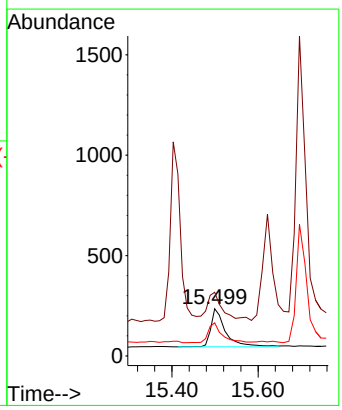


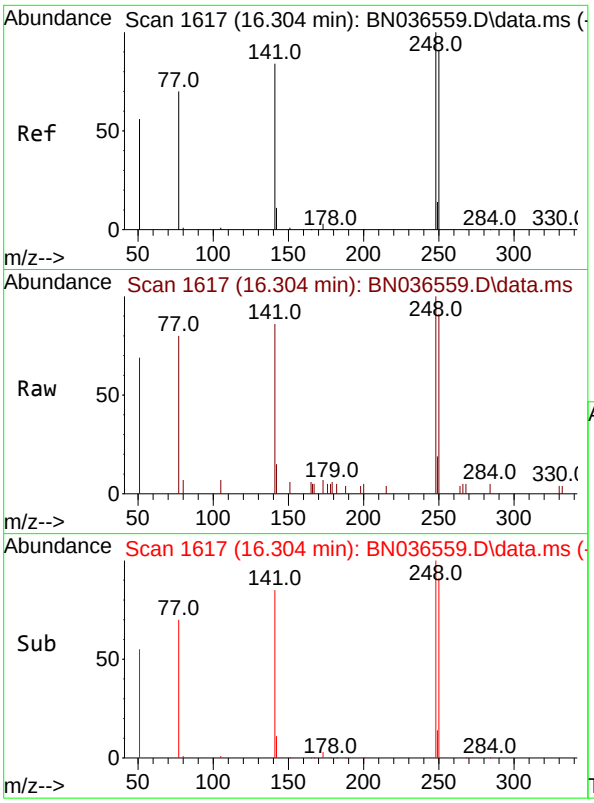


#20
4,6-Dinitro-2-methylphenol
Concen: 0.447 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:198 Resp: 462

Ion	Ratio	Lower	Upper
198	100		
51	134.9	107.9	161.9
105	70.2	56.2	84.2



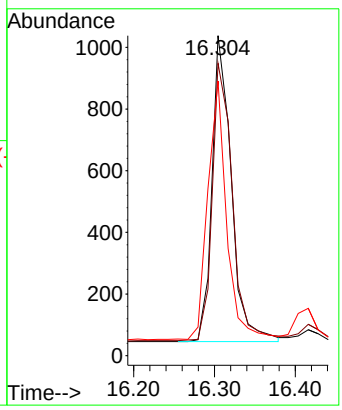


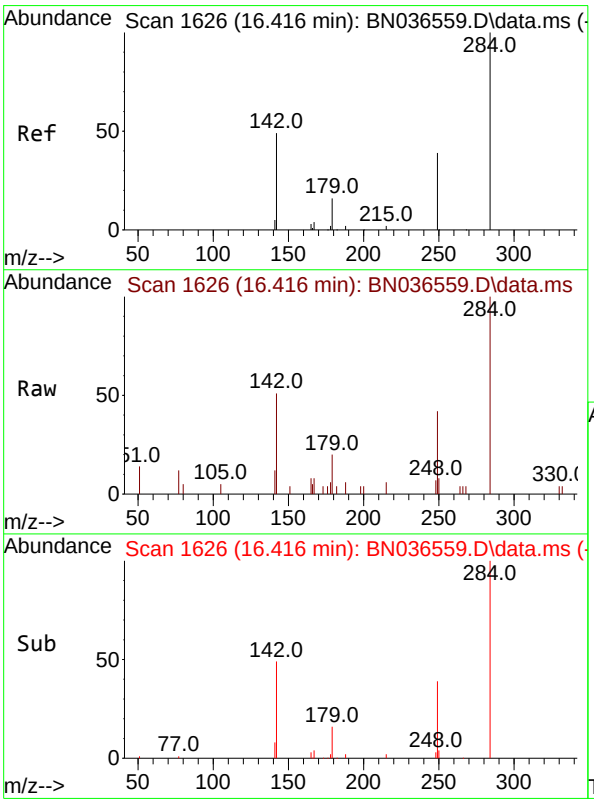
#21
4-Bromophenyl-phenylether
Concen: 0.437 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 1644

Ion	Ratio	Lower	Upper
248	100		
250	91.3	73.0	109.6
141	85.8	68.6	103.0

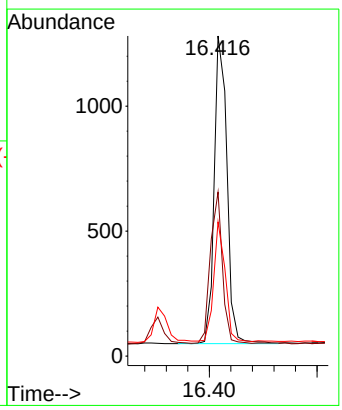


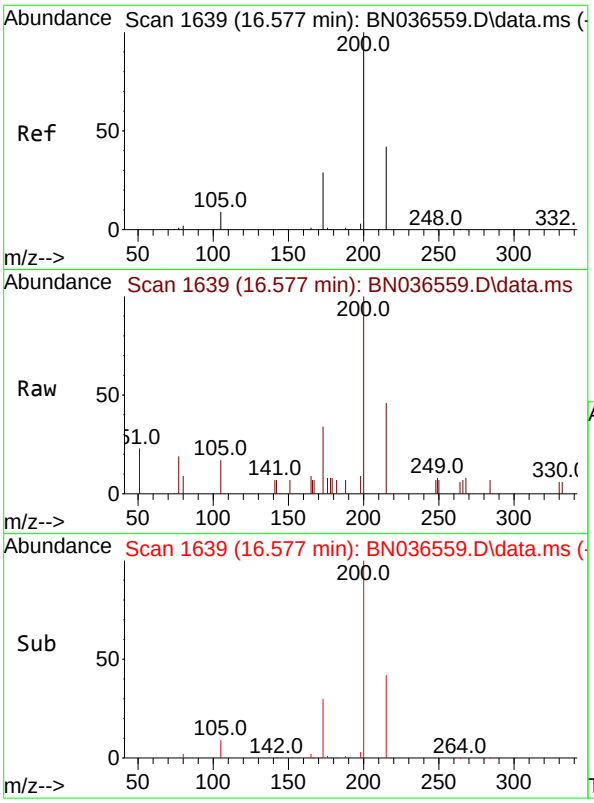


#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:284 Resp: 2018

Ion	Ratio	Lower	Upper
284	100		
142	46.2	37.0	55.4
249	35.1	28.1	42.1



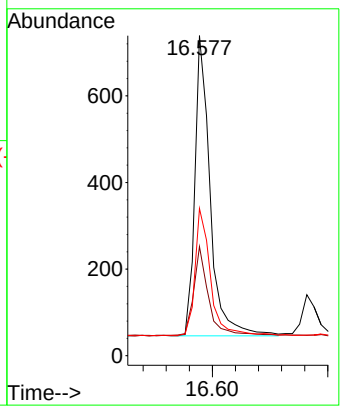


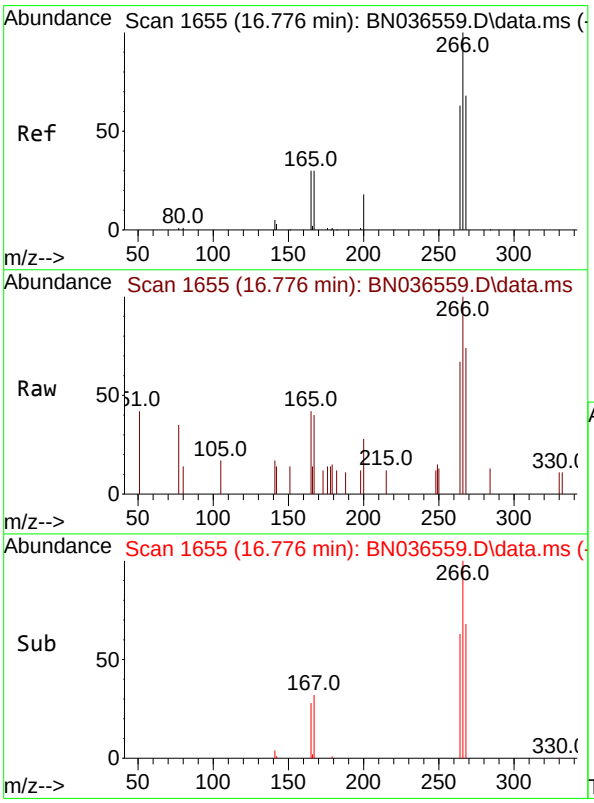
#23
Atrazine
Concen: 0.424 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1279

Ion	Ratio	Lower	Upper
200	100		
173	34.1	27.3	40.9
215	46.0	36.8	55.2

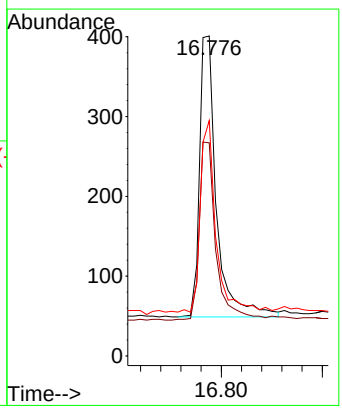


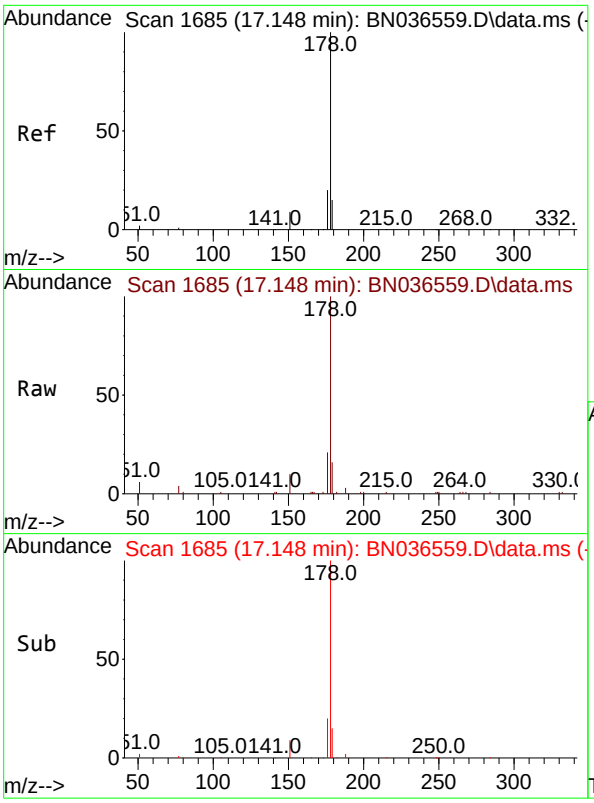


#24
Pentachlorophenol
Concen: 0.396 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:266 Resp: 821

Ion	Ratio	Lower	Upper
266	100		
264	62.0	49.6	74.4
268	63.6	50.9	76.3



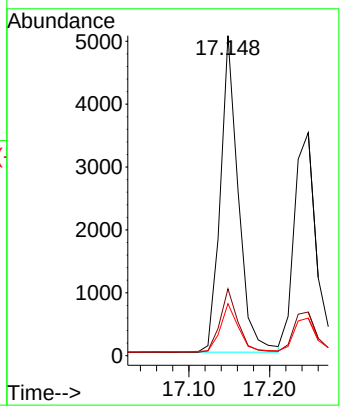


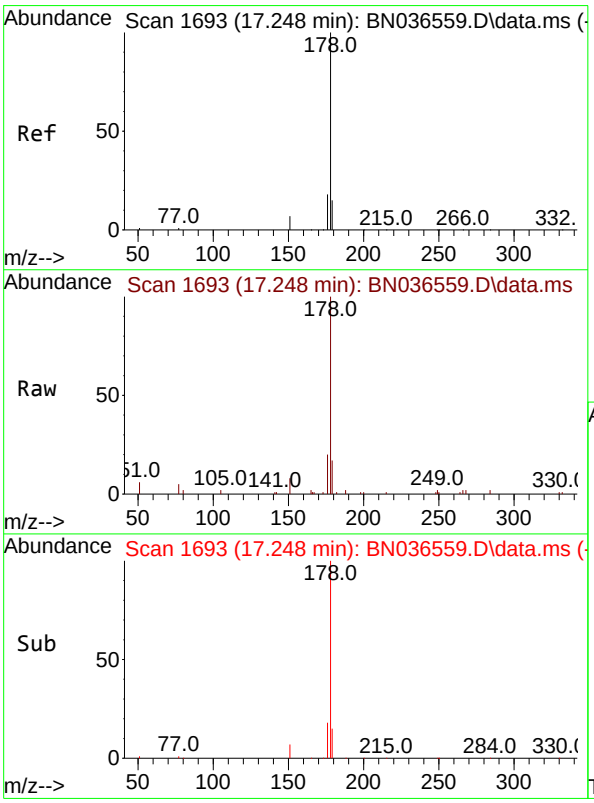
#25
Phenanthrene
Concen: 0.432 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 7786

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.3	12.2	18.4

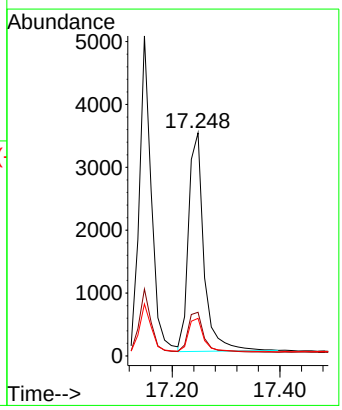


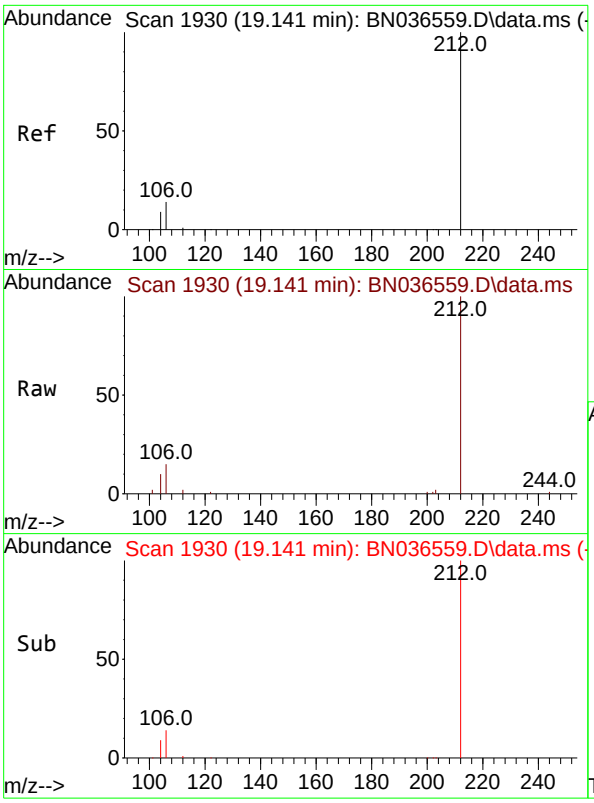


#26
Anthracene
Concen: 0.424 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:178 Resp: 6886

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8



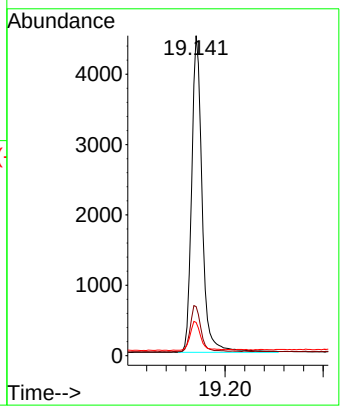


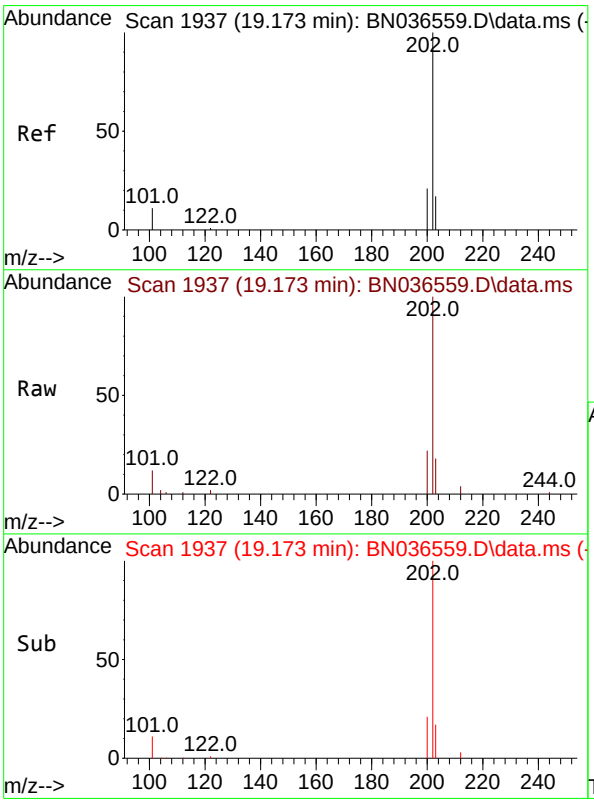
#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 6699

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.8	17.6
104	9.1	7.3	10.9

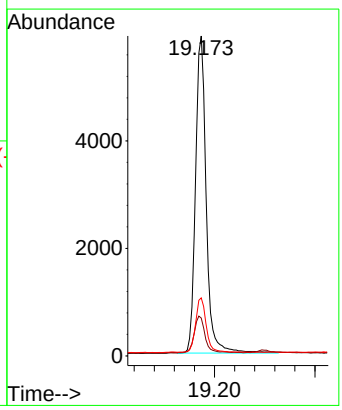


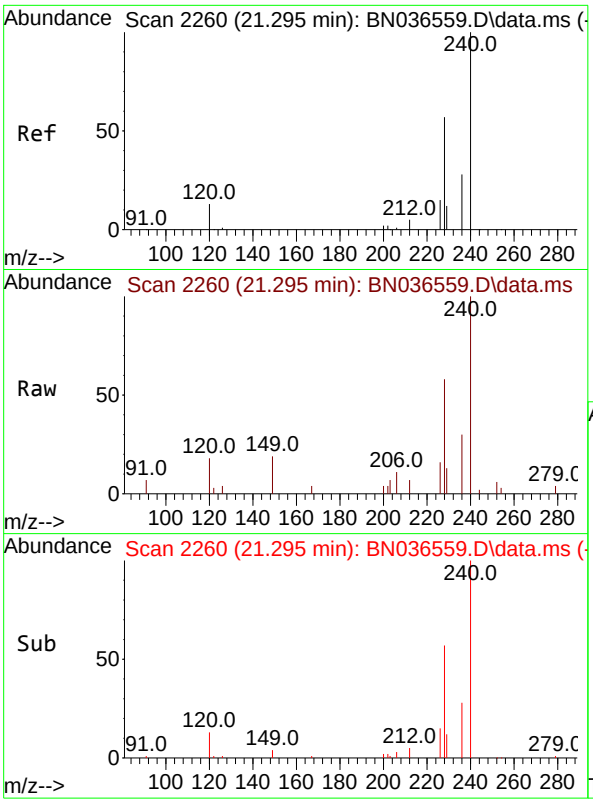


#28
Fluoranthene
Concen: 0.431 ng
RT: 19.173 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:202 Resp: 8717

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.4	14.0
203	16.9	13.5	20.3



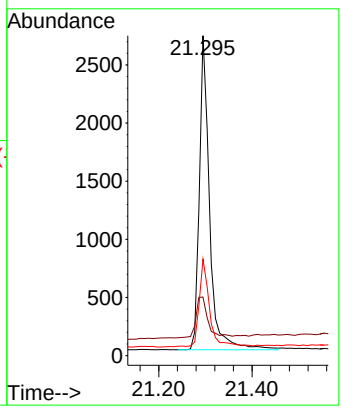


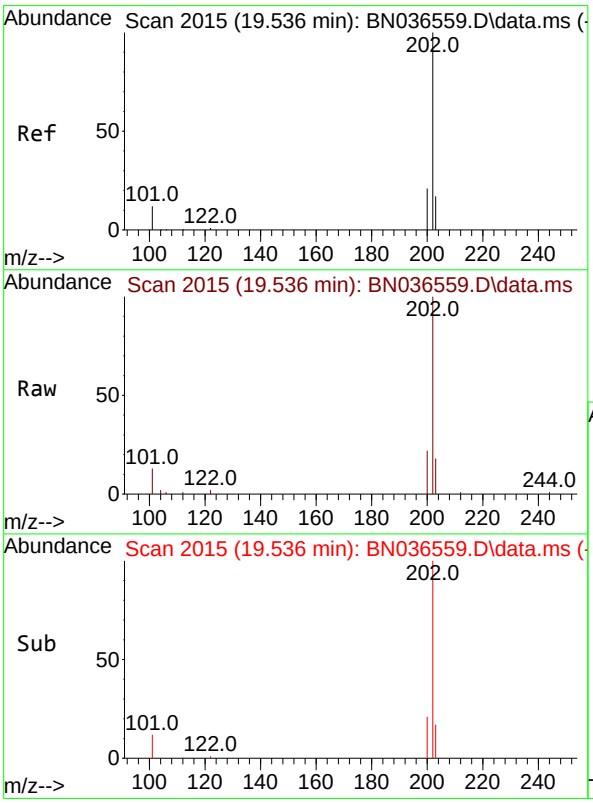
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 4110

Ion	Ratio	Lower	Upper
240	100		
120	18.3	14.6	22.0
236	30.1	24.1	36.1

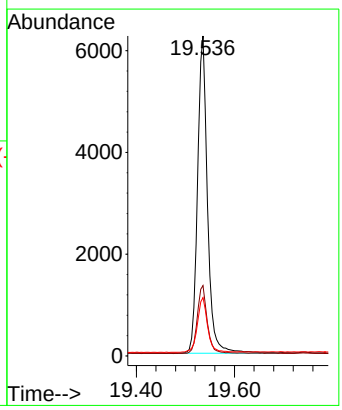


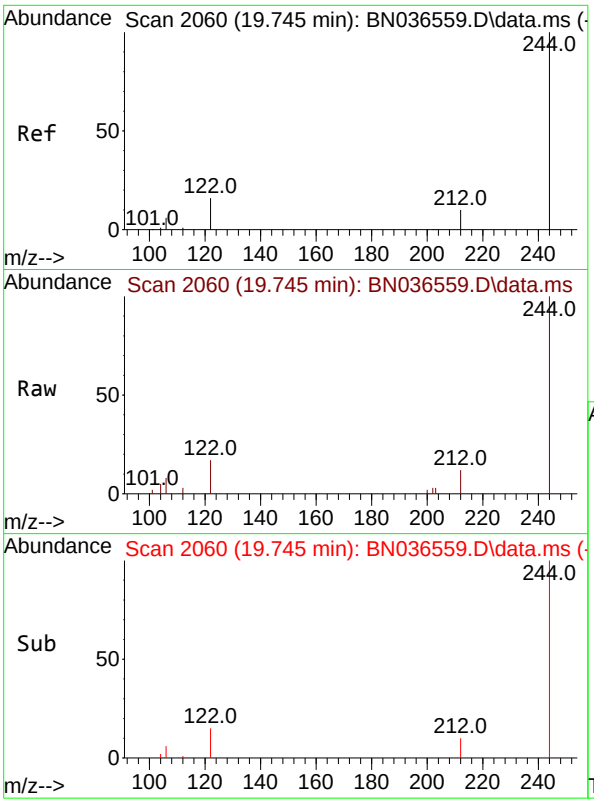


#30
Pyrene
Concen: 0.436 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:202 Resp: 8759

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.6	14.1	21.1



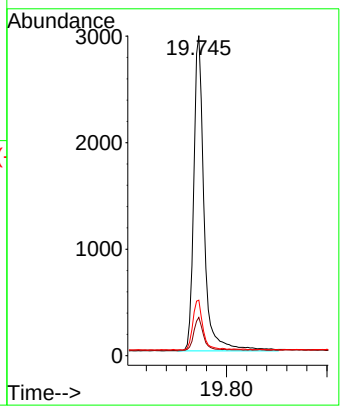


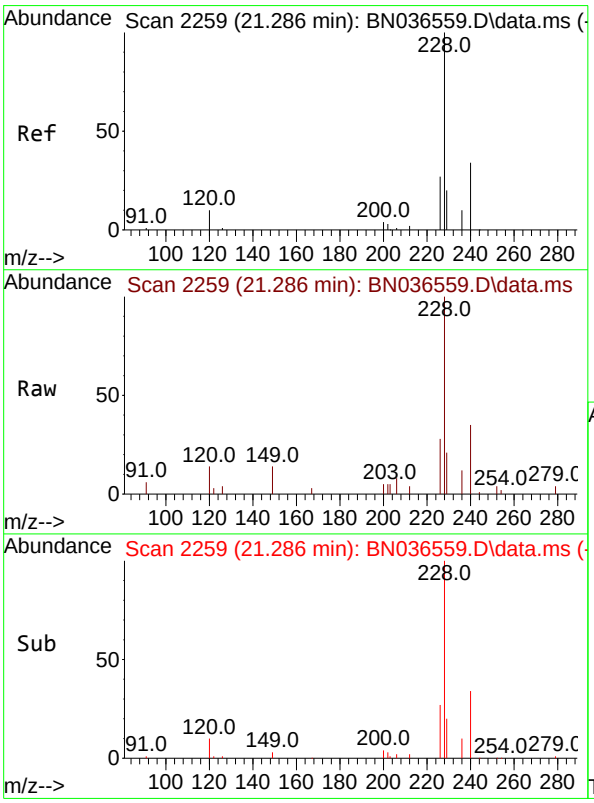
#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 4226

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	17.4	13.9	20.9

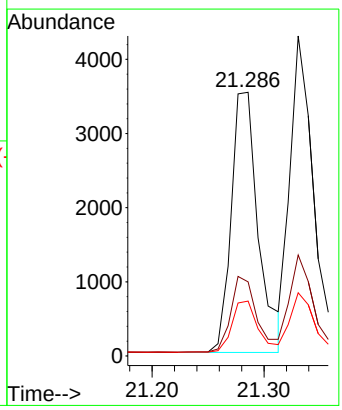


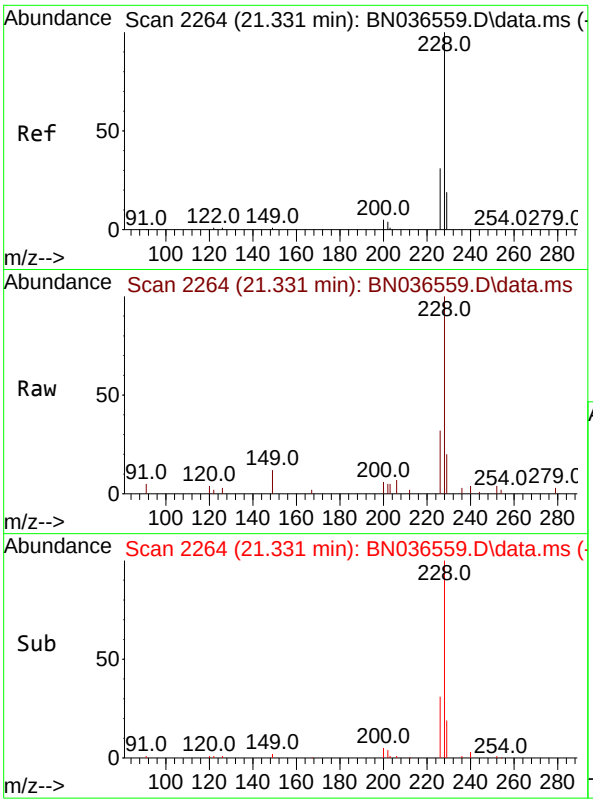


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:228 Resp: 5908

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.8	16.6	25.0



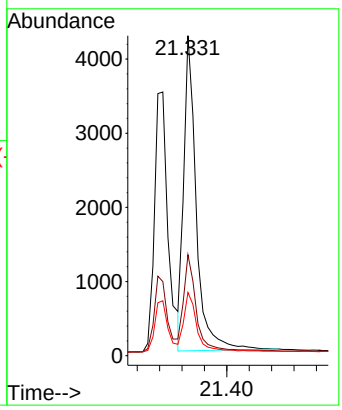


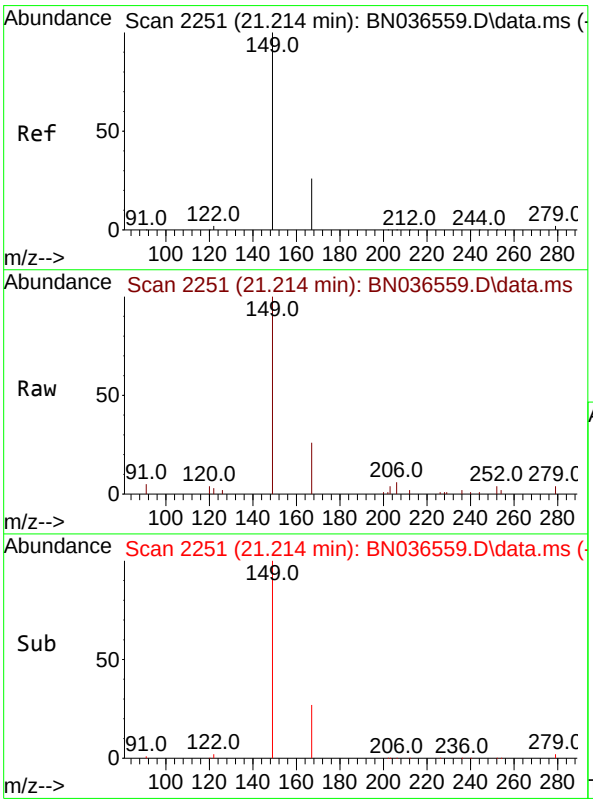
#33
Chrysene
Concen: 0.424 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 6617

Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.3	37.9
229	19.8	15.8	23.8

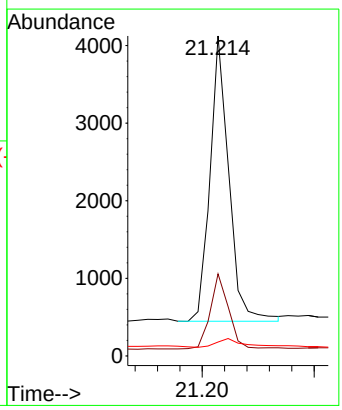


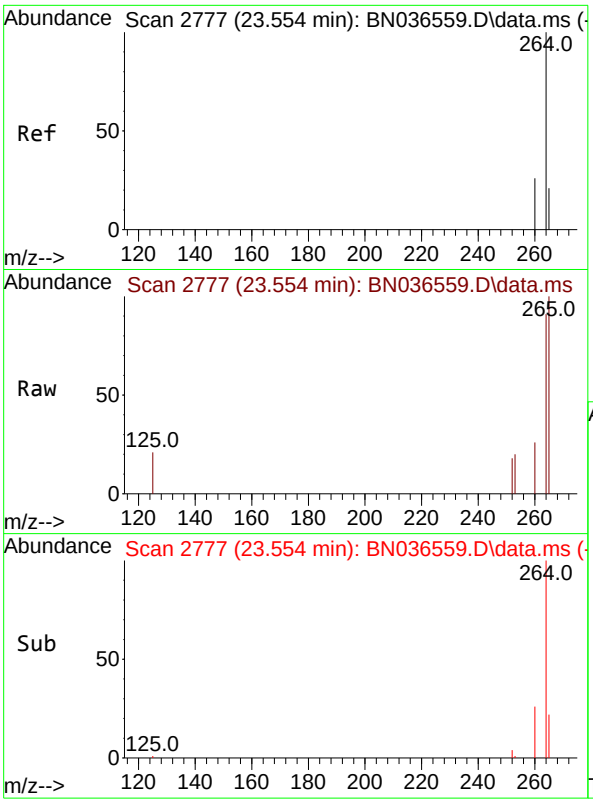


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.422 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:149 Resp: 4291

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	4.5	3.6	5.4



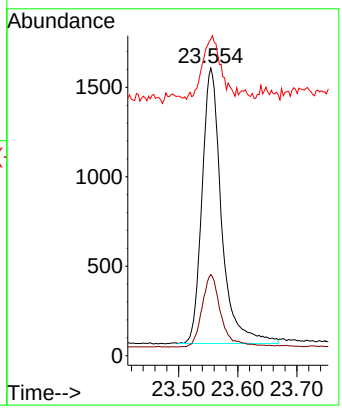


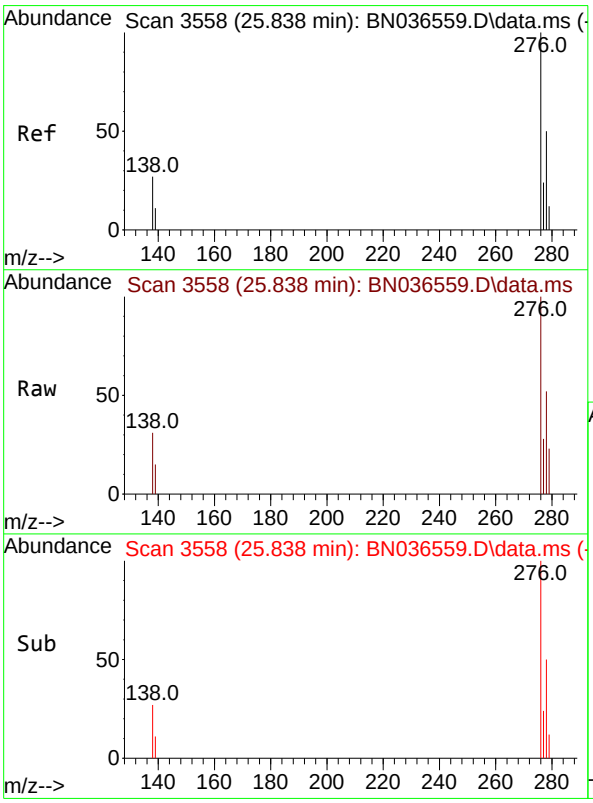
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 3539

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.6	33.8
265	110.1	88.1	132.1

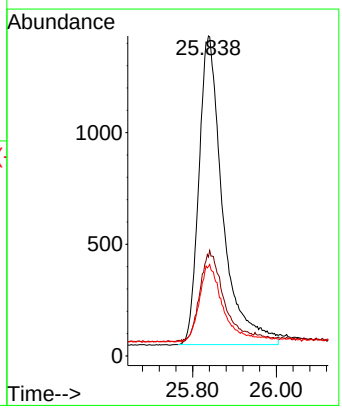


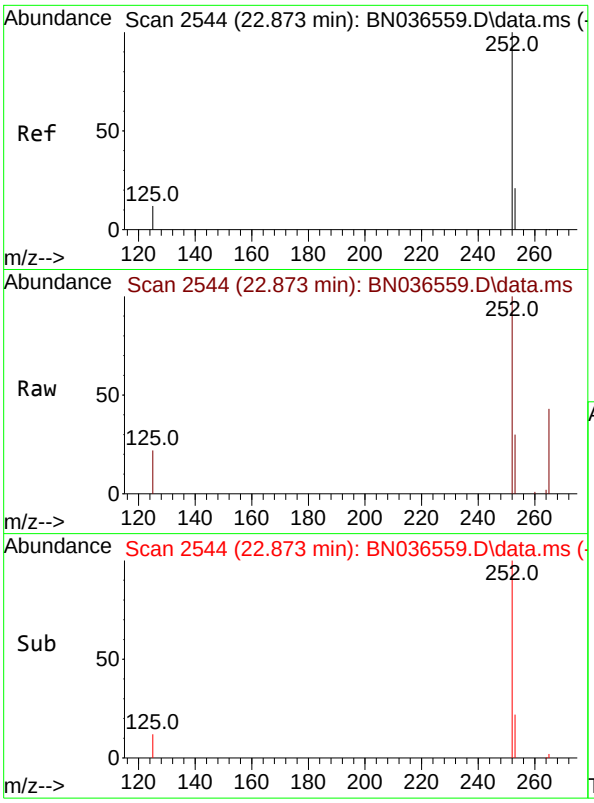


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:276 Resp: 5470

Ion	Ratio	Lower	Upper
276	100		
138	29.3	23.4	35.2
277	25.0	20.0	30.0



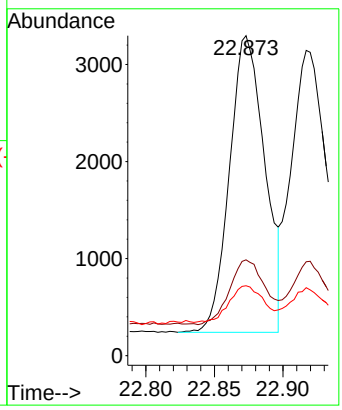


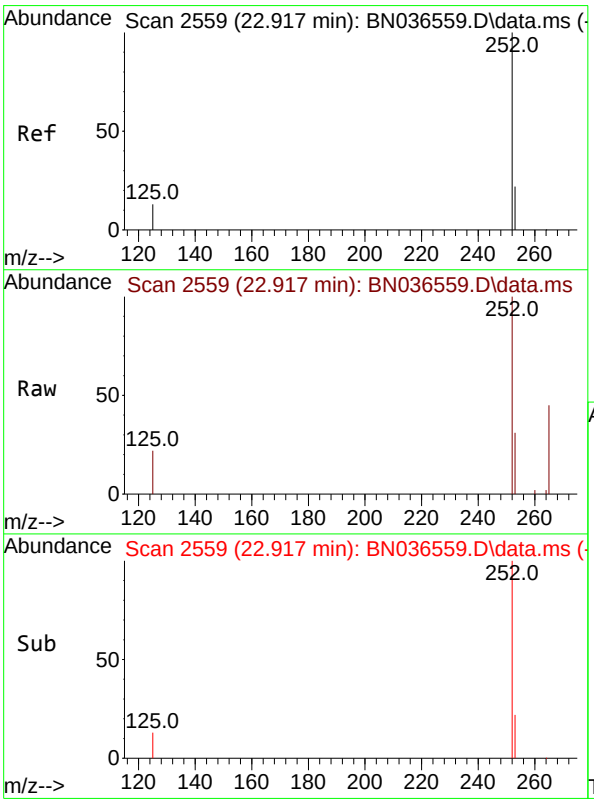
#37
Benzo(b)fluoranthene
Concen: 0.425 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 5475

Ion	Ratio	Lower	Upper
252	100		
253	29.9	23.9	35.9
125	21.8	17.4	26.2

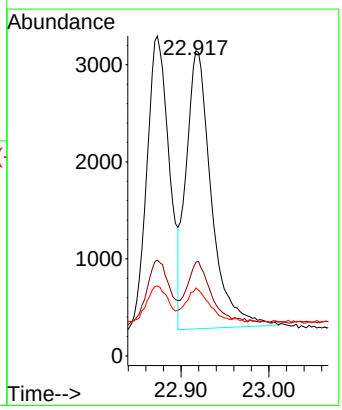


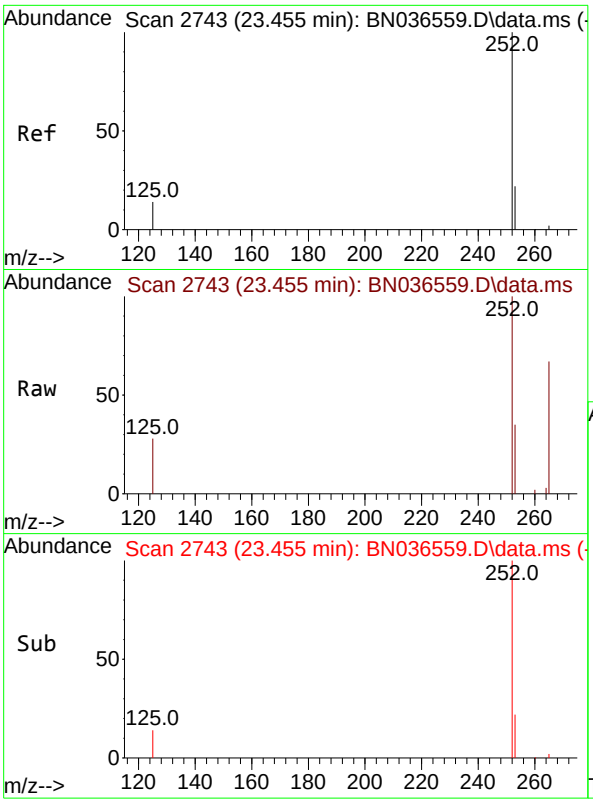


#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:252 Resp: 5732

Ion	Ratio	Lower	Upper
252	100		
253	30.7	24.6	36.8
125	22.3	17.8	26.8



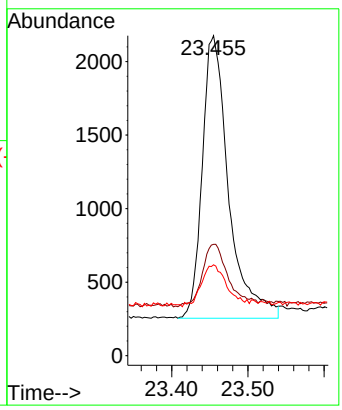


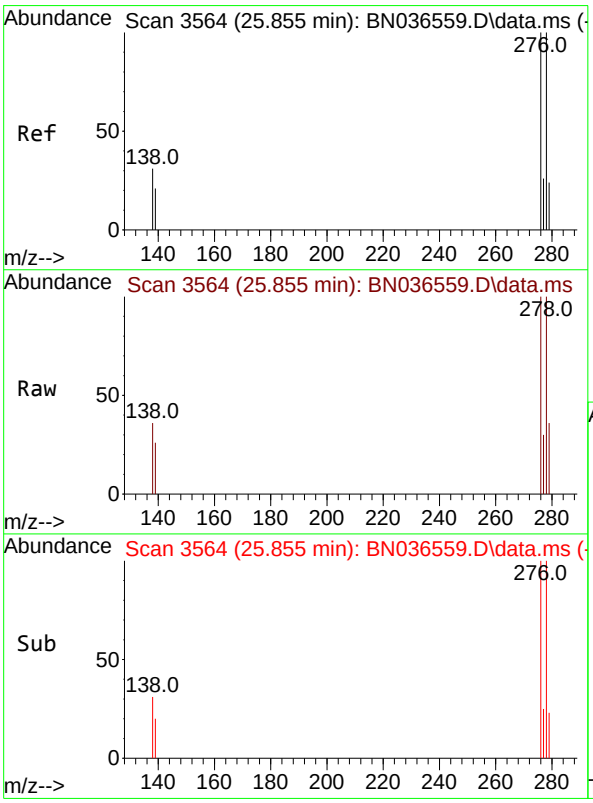
#39
Benzo(a)pyrene
Concen: 0.425 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 4612

Ion	Ratio	Lower	Upper
252	100		
253	34.8	27.8	41.8
125	28.4	22.7	34.1

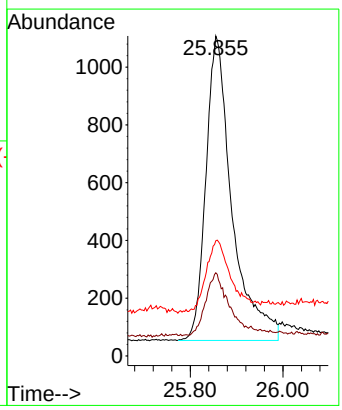


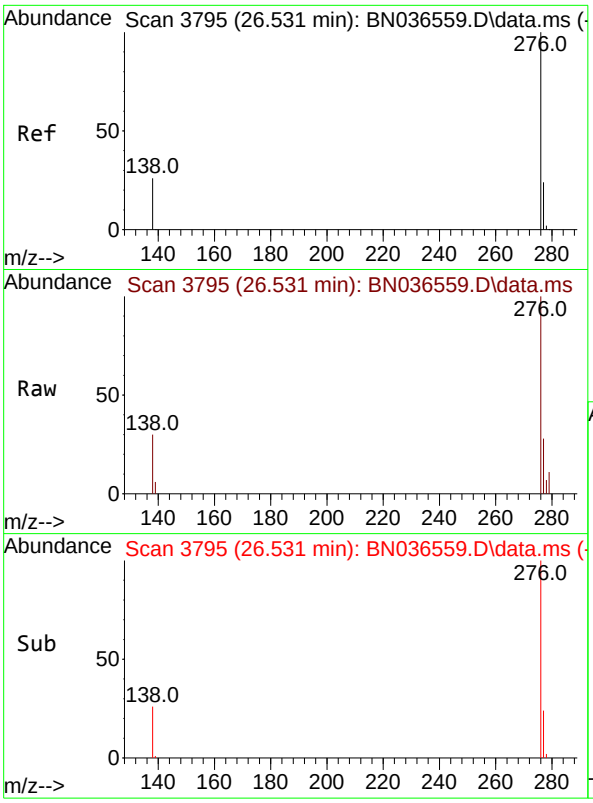


#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:278 Resp: 4117

Ion	Ratio	Lower	Upper
278	100		
139	26.0	20.8	31.2
279	36.0	28.8	43.2



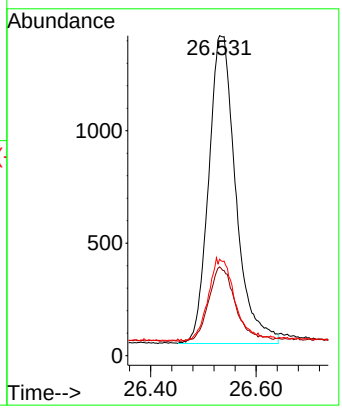


#41
Benzo(g,h,i)perylene
Concen: 0.430 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 4891

Ion	Ratio	Lower	Upper
276	100		
277	27.8	22.2	33.4
138	30.1	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036560.D
Acq On : 10 Mar 2025 13:31
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

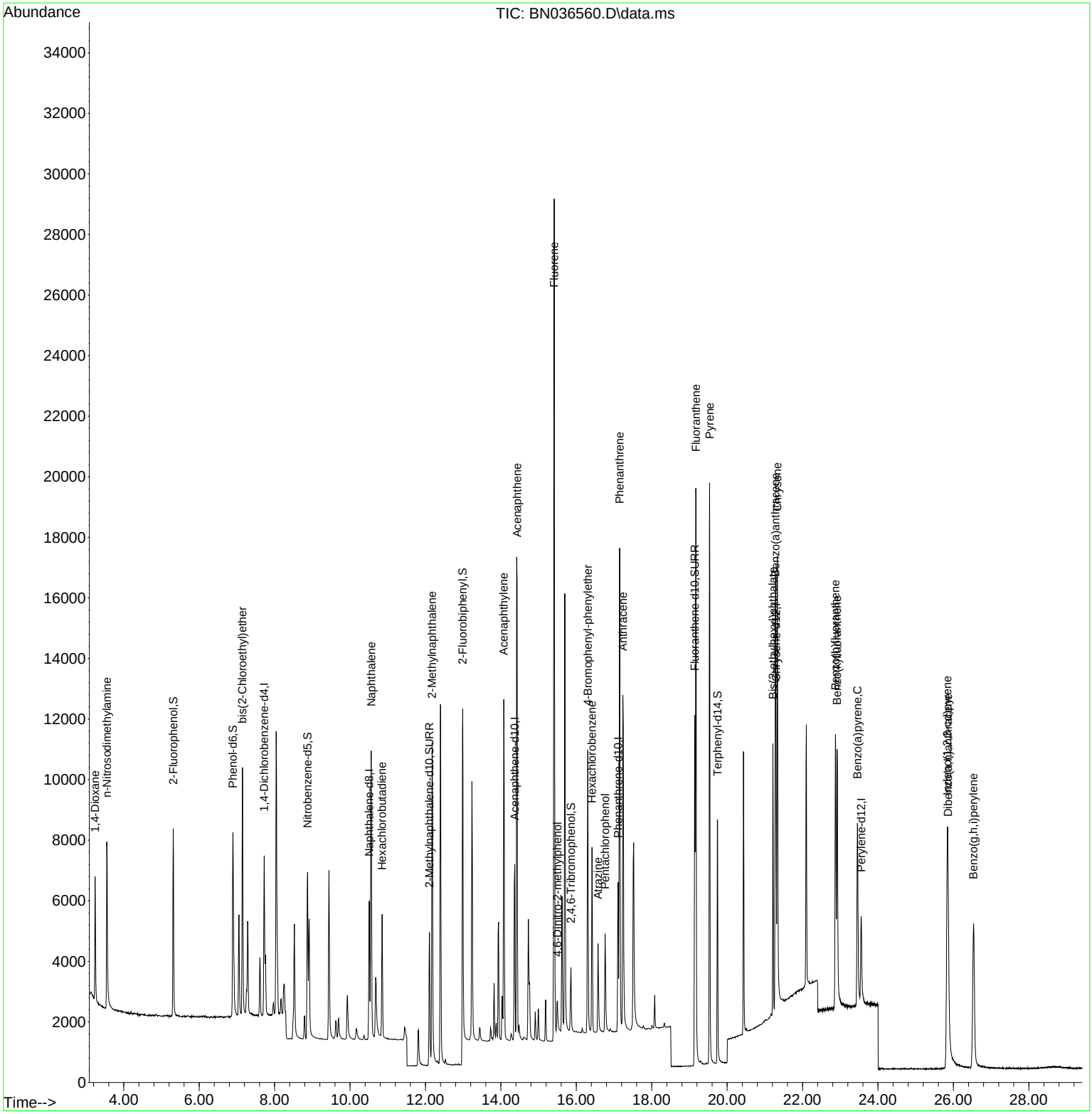
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2495	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5884	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3456	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	6971	0.400	ng		0.00
29) Chrysene-d12	21.295	240	4636	0.400	ng		0.00
35) Perylene-d12	23.554	264	4198	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	4381	0.753	ng		0.00
5) Phenol-d6	6.894	99	5324	0.741	ng		0.00
8) Nitrobenzene-d5	8.875	82	4717	0.737	ng		0.00
11) 2-Methylnaphthalene-d10	12.106	152	6616	0.756	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	1166	0.744	ng		0.00
15) 2-Fluorobiphenyl	12.988	172	16243	0.808	ng		0.00
27) Fluoranthene-d10	19.141	212	13330	0.746	ng		0.00
31) Terphenyl-d14	19.745	244	8571	0.772	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	2251	0.813	ng		99
3) n-Nitrosodimethylamine	3.550	42	4197	0.750	ng		96
6) bis(2-Chloroethyl)ether	7.147	93	5632	0.759	ng		99
9) Naphthalene	10.562	128	13078	0.756	ng		98
10) Hexachlorobutadiene	10.851	225	3147	0.772	ng	#	99
12) 2-Methylnaphthalene	12.177	142	8272	0.751	ng		98
16) Acenaphthylene	14.078	152	12403	0.760	ng		100
17) Acenaphthene	14.430	154	8096	0.758	ng		99
18) Fluorene	15.414	166	11120	0.770	ng		100
20) 4,6-Dinitro-2-methylph...	15.499	198	1039	0.724	ng	#	59
21) 4-Bromophenyl-phenylether	16.305	248	3324	0.761	ng		93
22) Hexachlorobenzene	16.416	284	4115	0.780	ng		99
23) Atrazine	16.578	200	2677	0.764	ng		94
24) Pentachlorophenol	16.764	266	1701	0.707	ng		98
25) Phenanthrene	17.149	178	15910	0.761	ng		99
26) Anthracene	17.236	178	14403	0.763	ng		99
28) Fluoranthene	19.174	202	17738	0.755	ng		99
30) Pyrene	19.536	202	17714	0.781	ng		100
32) Benzo(a)anthracene	21.277	228	12089	0.750	ng		98
33) Chrysene	21.331	228	13974	0.793	ng		100
34) Bis(2-ethylhexyl)phtha...	21.214	149	8021	0.699	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.838	276	11785	0.778	ng		99
37) Benzo(b)fluoranthene	22.873	252	11771	0.770	ng	#	91
38) Benzo(k)fluoranthene	22.917	252	12432	0.776	ng	#	90
39) Benzo(a)pyrene	23.455	252	10036	0.780	ng	#	87
40) Dibenzo(a,h)anthracene	25.858	278	9450	0.801	ng		91
41) Benzo(g,h,i)perylene	26.534	276	10494	0.778	ng		96

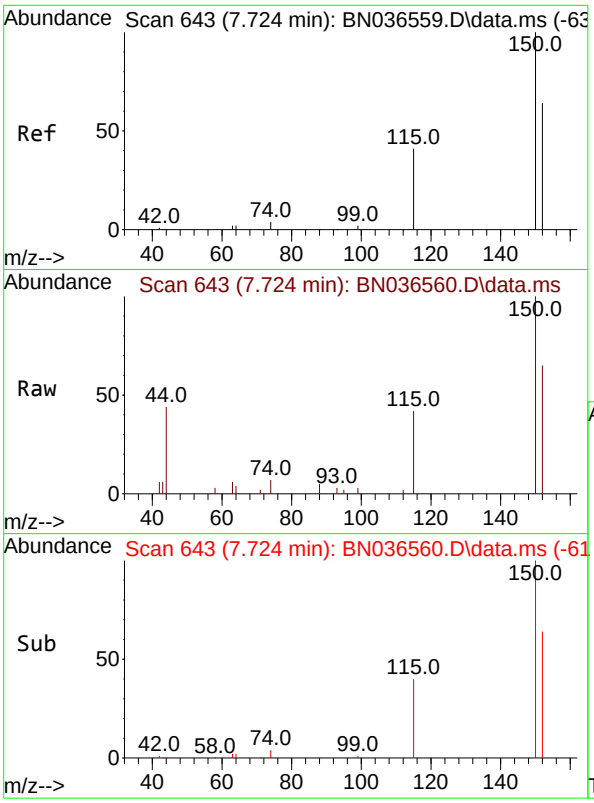
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036560.D
Acq On : 10 Mar 2025 13:31
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



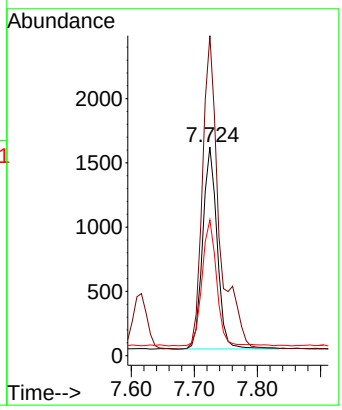


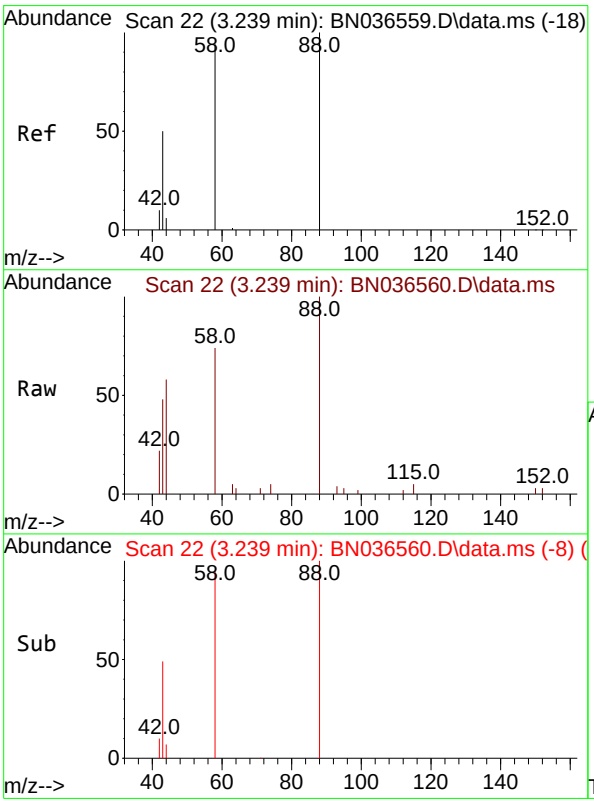
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2495

Ion	Ratio	Lower	Upper
152	100		
150	153.3	123.7	185.5
115	65.1	54.3	81.5

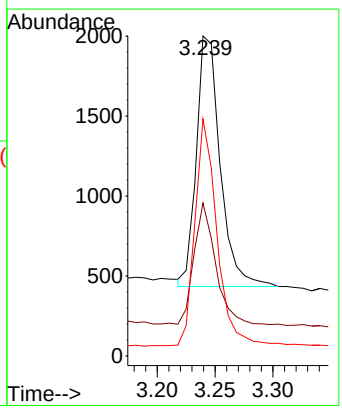


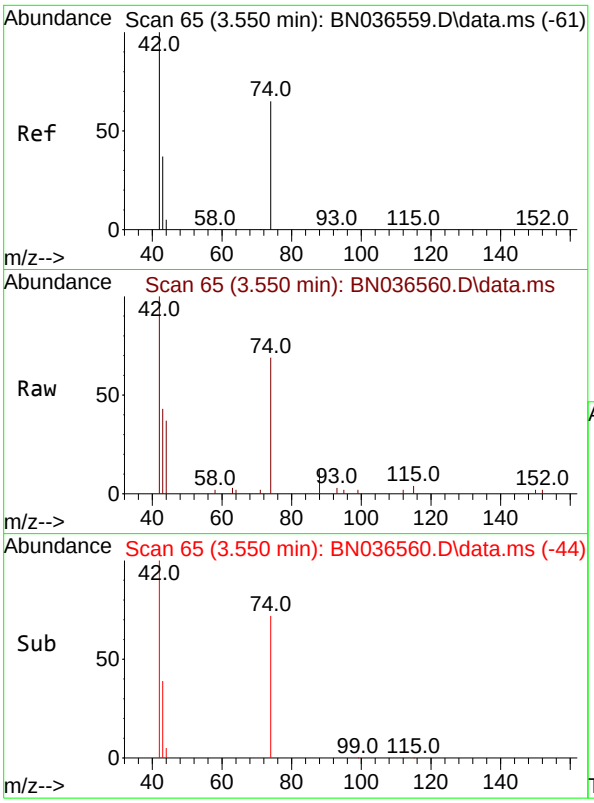


#2
1,4-Dioxane
Concen: 0.813 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 88 Resp: 2251

Ion	Ratio	Lower	Upper
88	100		
43	45.6	37.8	56.8
58	84.5	67.4	101.2



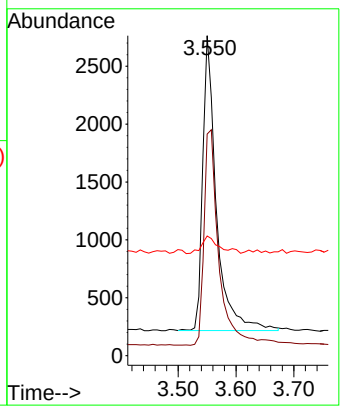


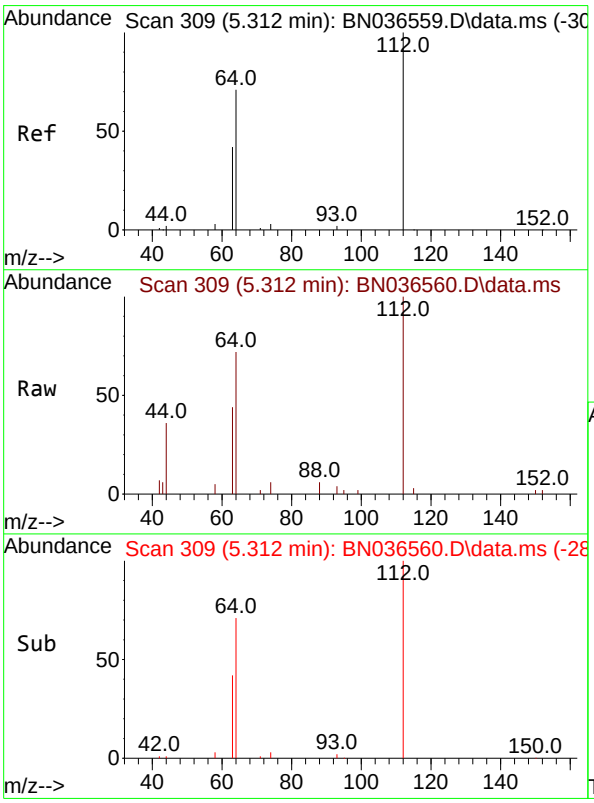
#3
n-Nitrosodimethylamine
Concen: 0.750 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 4197

Ion	Ratio	Lower	Upper
42	100		
74	79.3	60.6	90.8
44	7.4	6.3	9.5

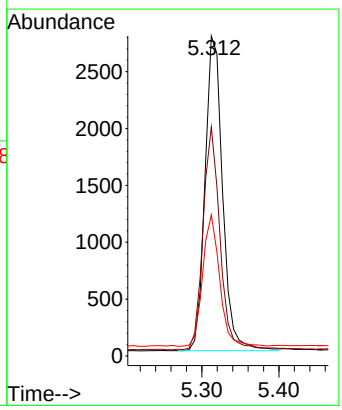


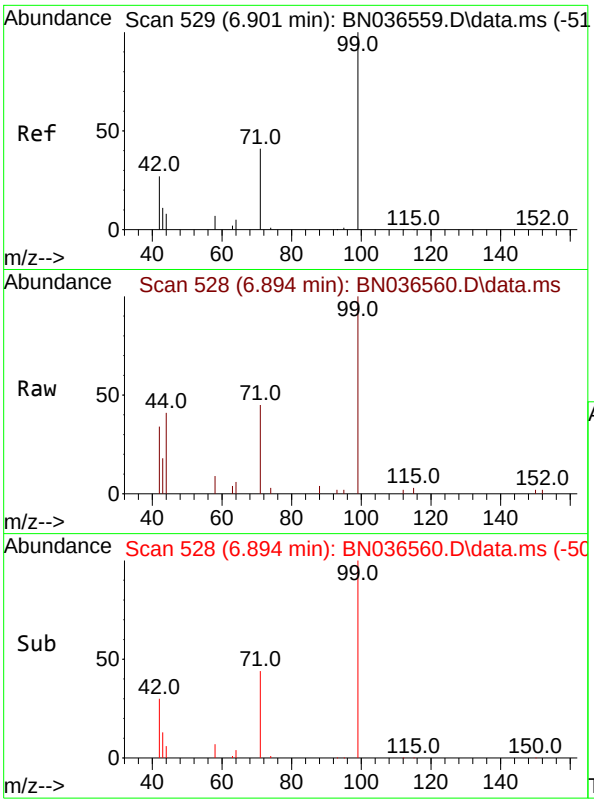


#4
2-Fluorophenol
Concen: 0.753 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:112 Resp: 4381

Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.1	79.7
63	40.4	31.8	47.8



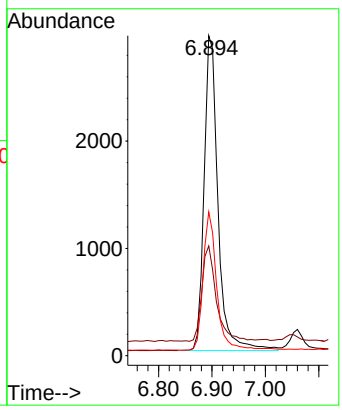


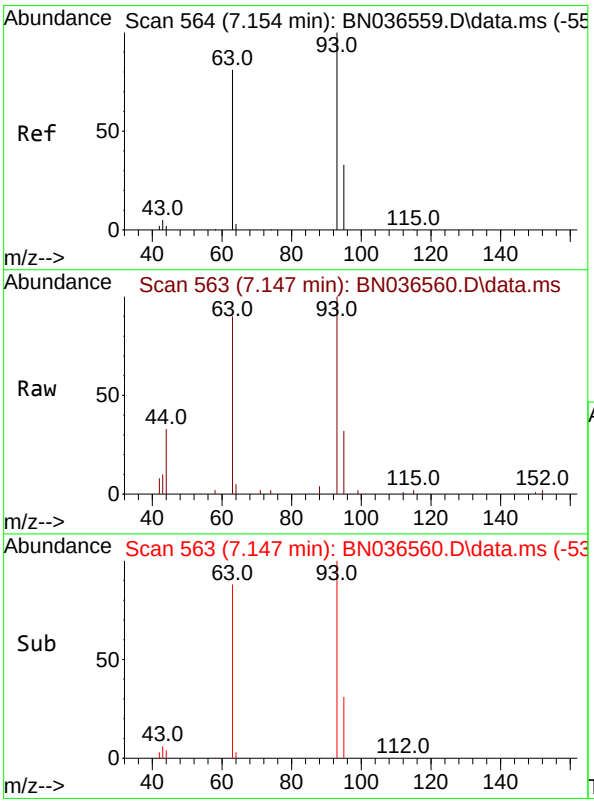
#5
Phenol-d6
Concen: 0.741 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 5324

Ion	Ratio	Lower	Upper
99	100		
42	31.3	26.5	39.7
71	42.6	34.1	51.1

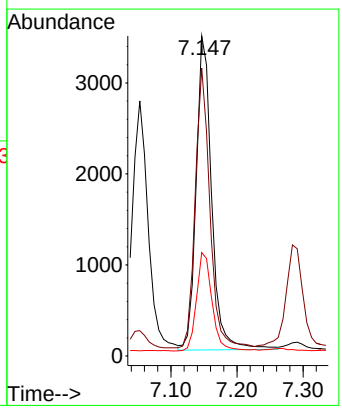


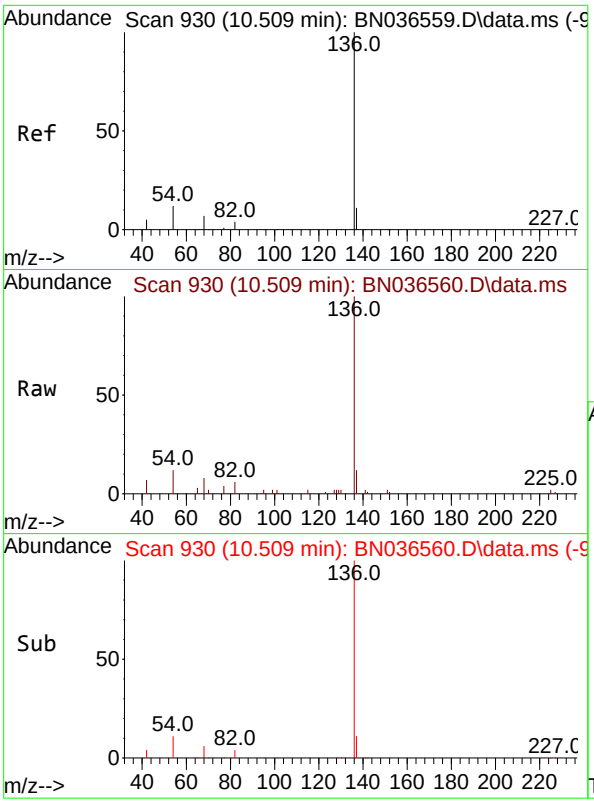


#6
bis(2-Chloroethyl)ether
Concen: 0.759 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 93 Resp: 5632

Ion	Ratio	Lower	Upper
93	100		
63	84.0	67.7	101.5
95	31.6	25.6	38.4



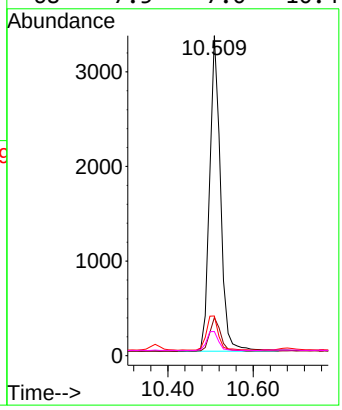


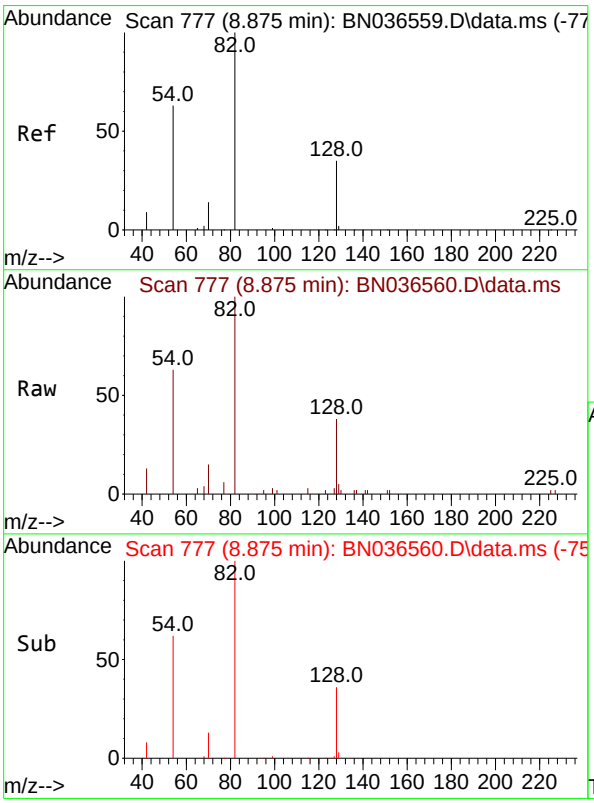
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5884

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.4	11.5	17.3
68	7.5	7.0	10.4

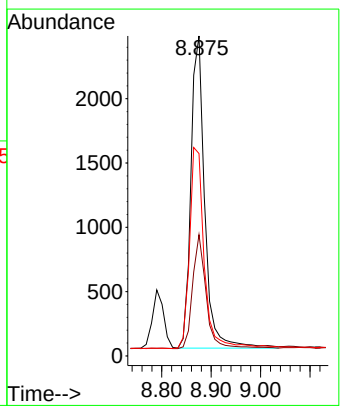


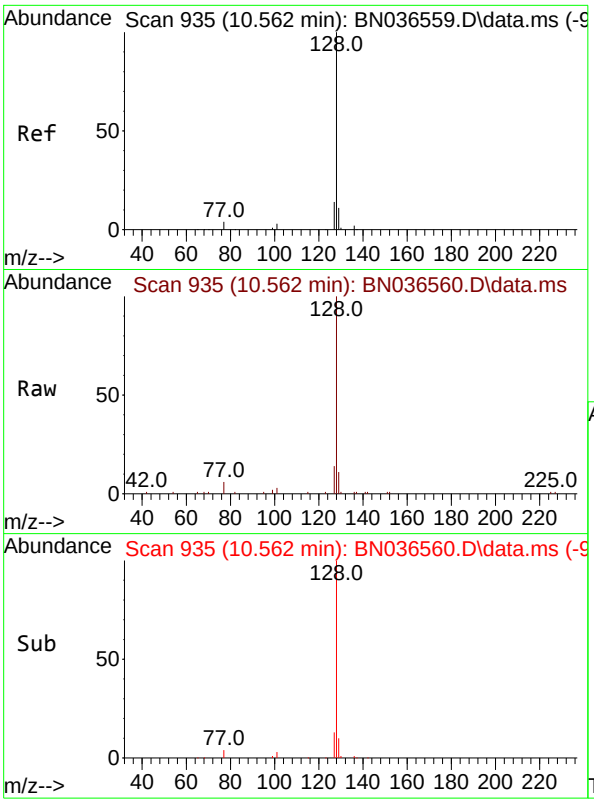


#8
Nitrobenzene-d5
Concen: 0.737 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 82 Resp: 4717

Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.6	45.8
54	63.2	52.2	78.4



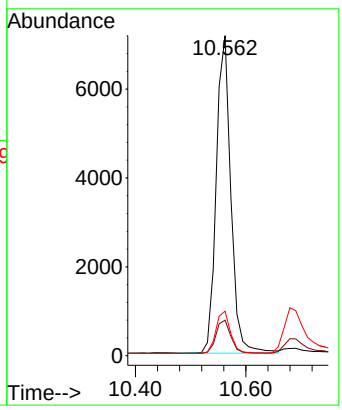


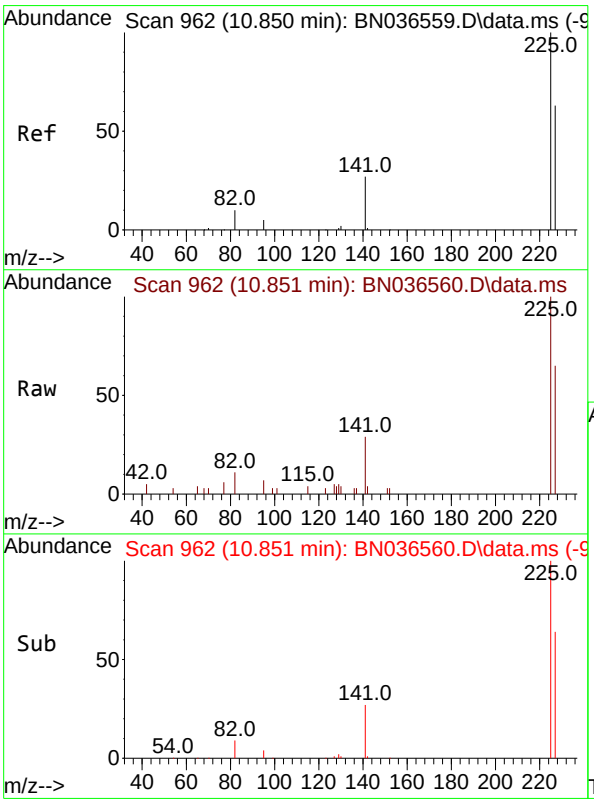
#9
Naphthalene
Concen: 0.756 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 13078

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.8	14.6
127	13.9	11.8	17.8

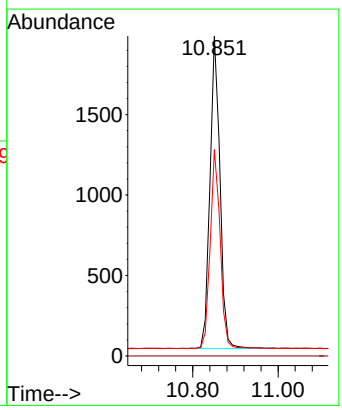


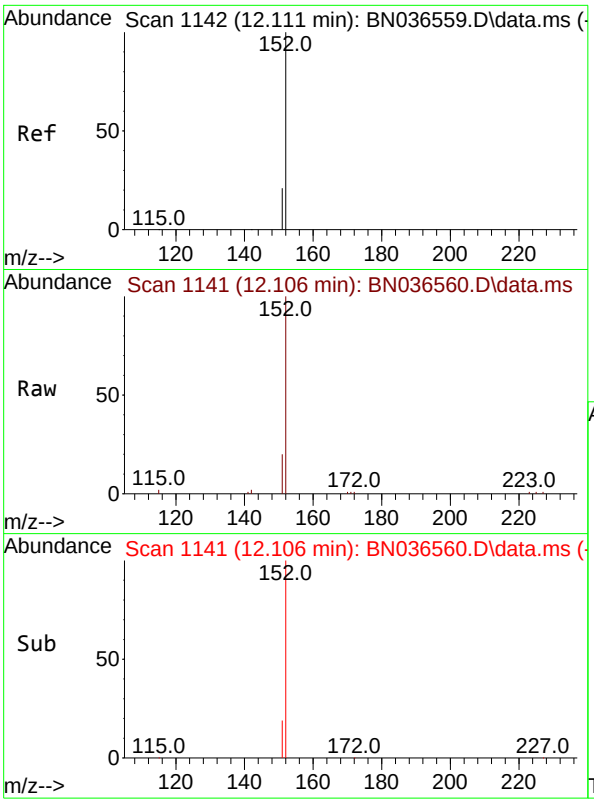


#10
Hexachlorobutadiene
Concen: 0.772 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:225 Resp: 3147

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.8	77.8



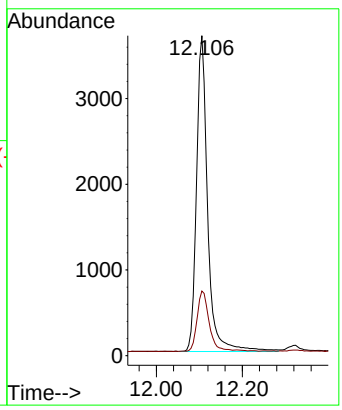


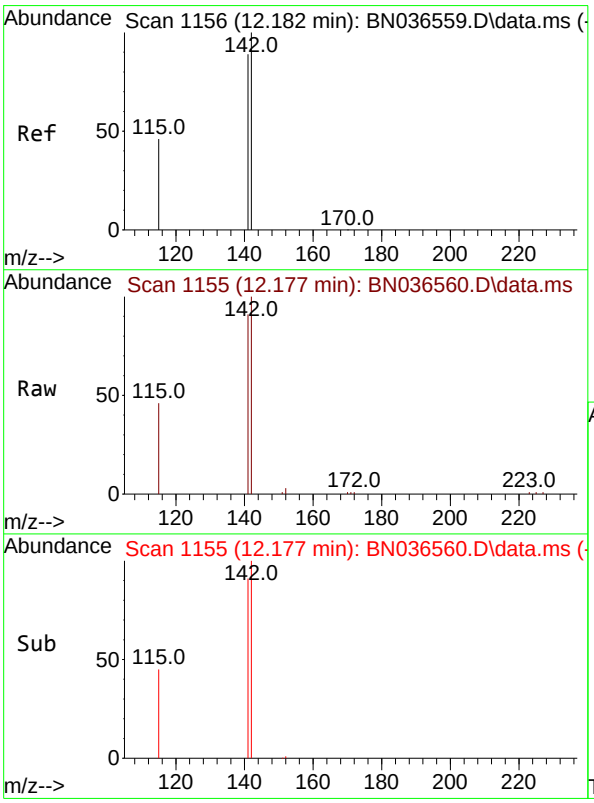
#11
2-Methylnaphthalene-d10
Concen: 0.756 ng
RT: 12.106 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 6616

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6

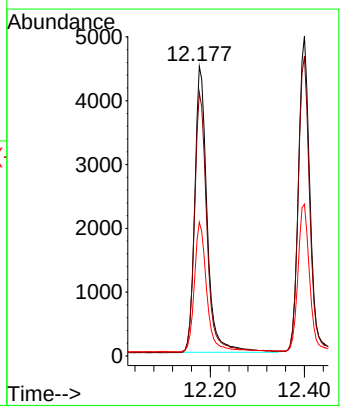


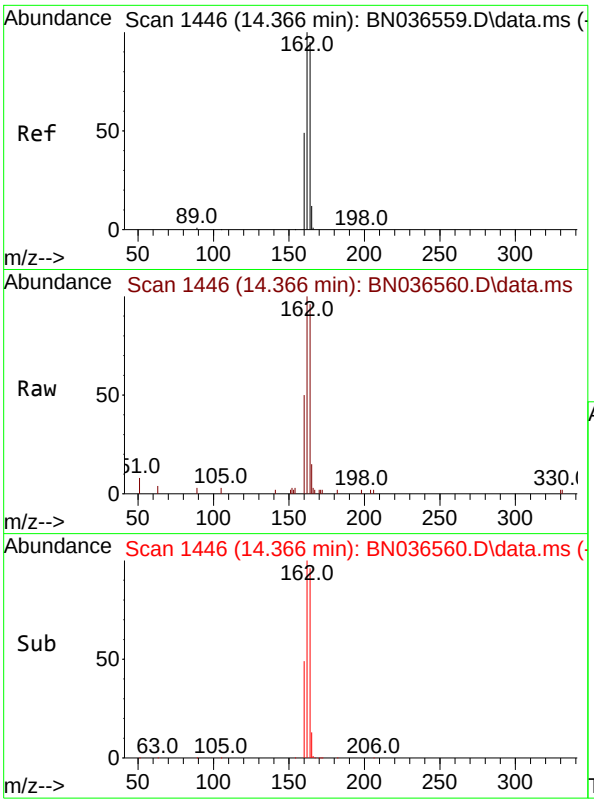


#12
2-Methylnaphthalene
Concen: 0.751 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:142 Resp: 8272

Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.7	107.5
115	46.2	38.3	57.5



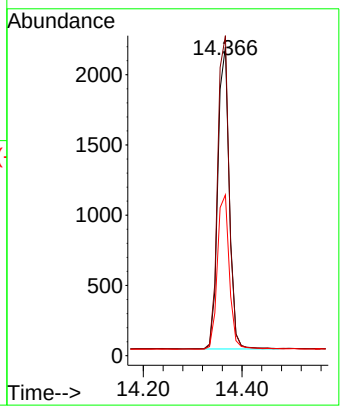


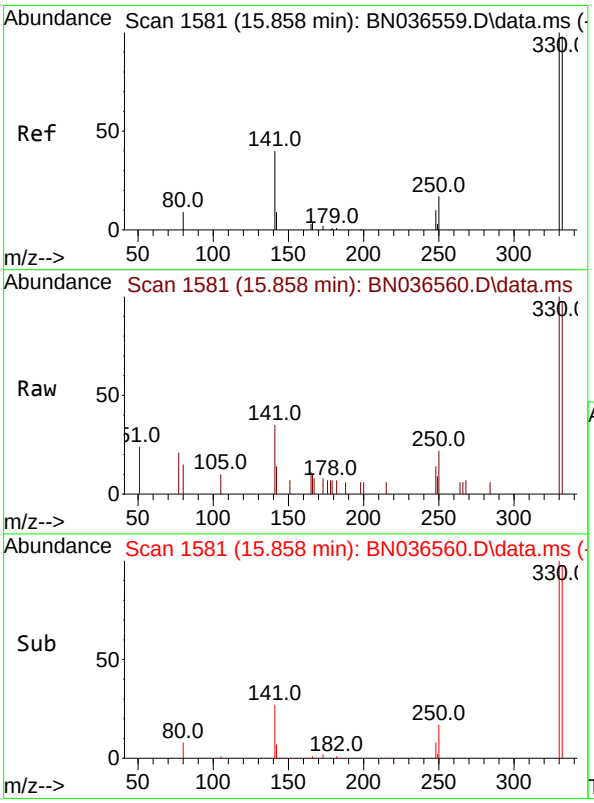
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 3456

Ion	Ratio	Lower	Upper
164	100		
162	103.6	84.2	126.2
160	52.1	42.2	63.2

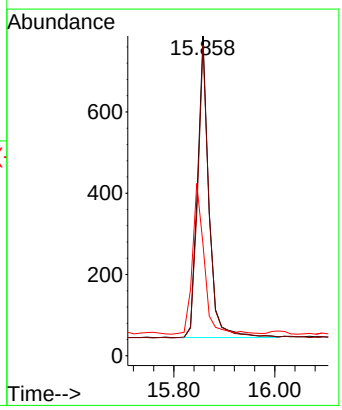


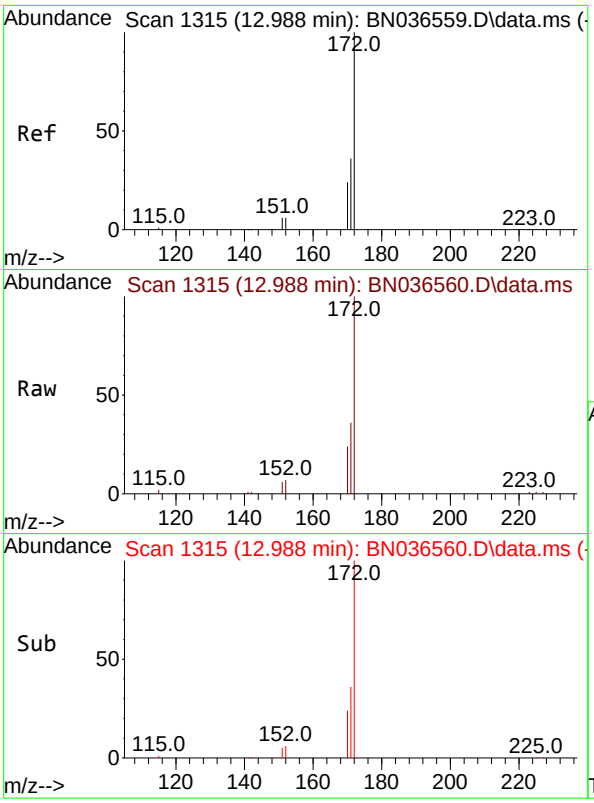


#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:330 Resp: 1166

Ion	Ratio	Lower	Upper
330	100		
332	97.6	75.2	112.8
141	51.8	43.4	65.2



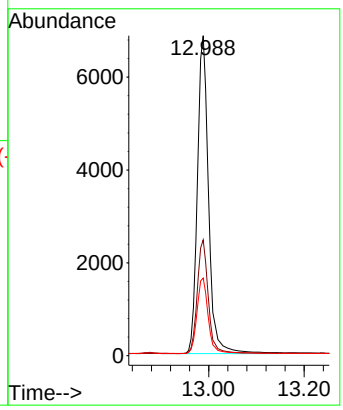


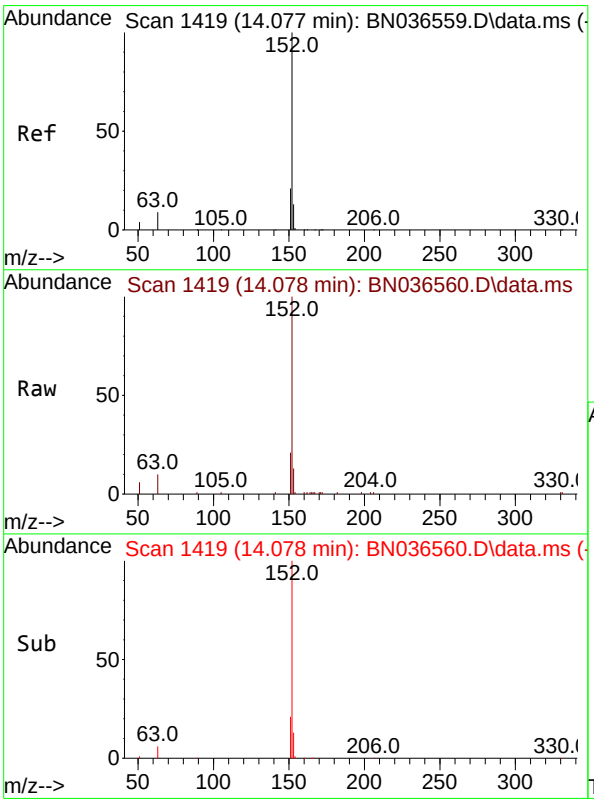
#15
2-Fluorobiphenyl
Concen: 0.808 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 16243

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	24.3	20.2	30.4

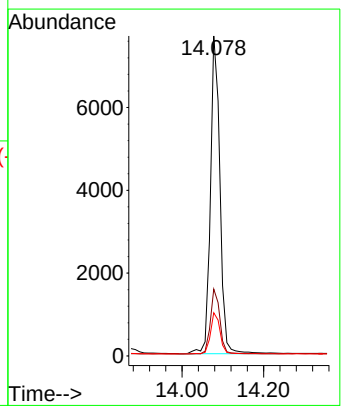


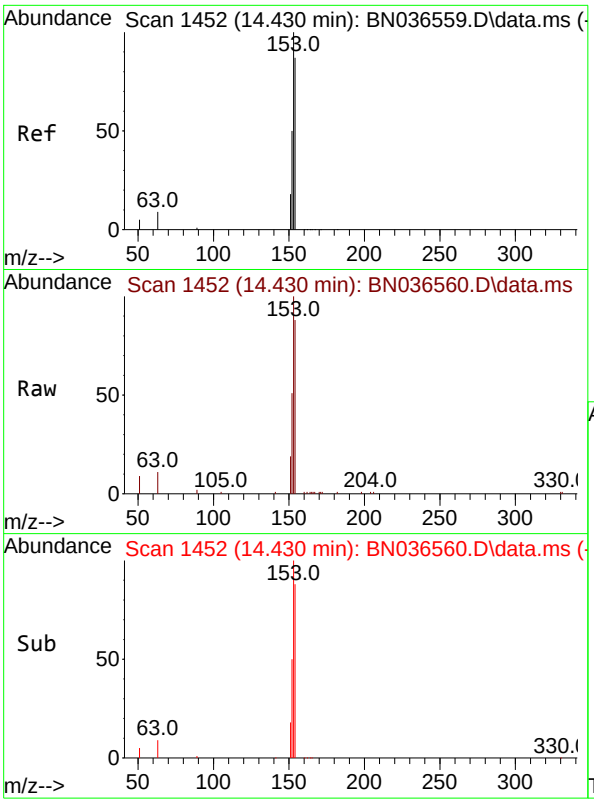


#16
Acenaphthylene
Concen: 0.760 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:152 Resp: 12403

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	13.1	10.6	15.8



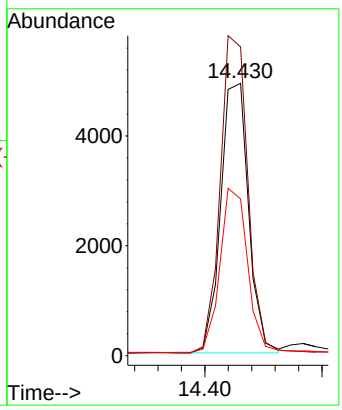


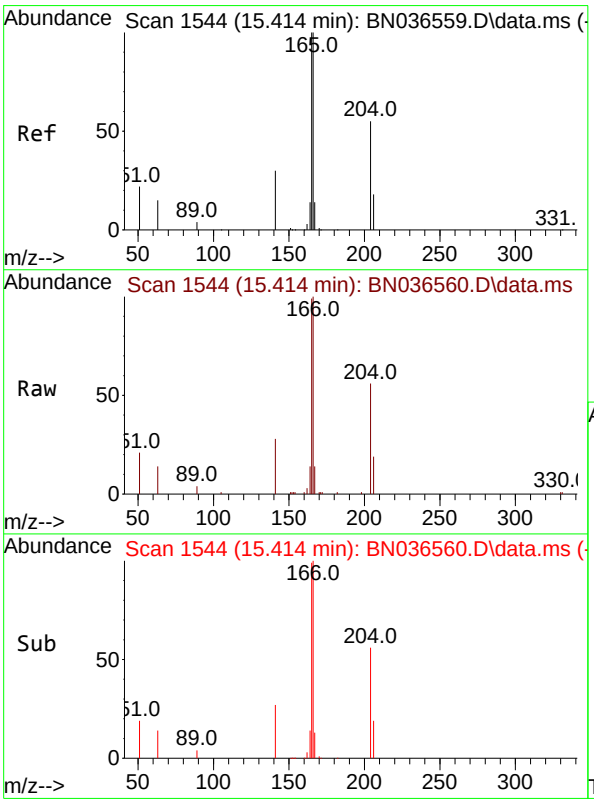
#17
Acenaphthene
Concen: 0.758 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 8096

Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	60.9	49.8	74.6

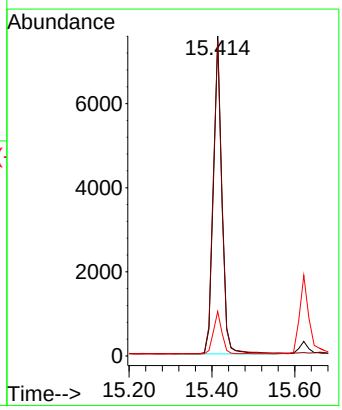


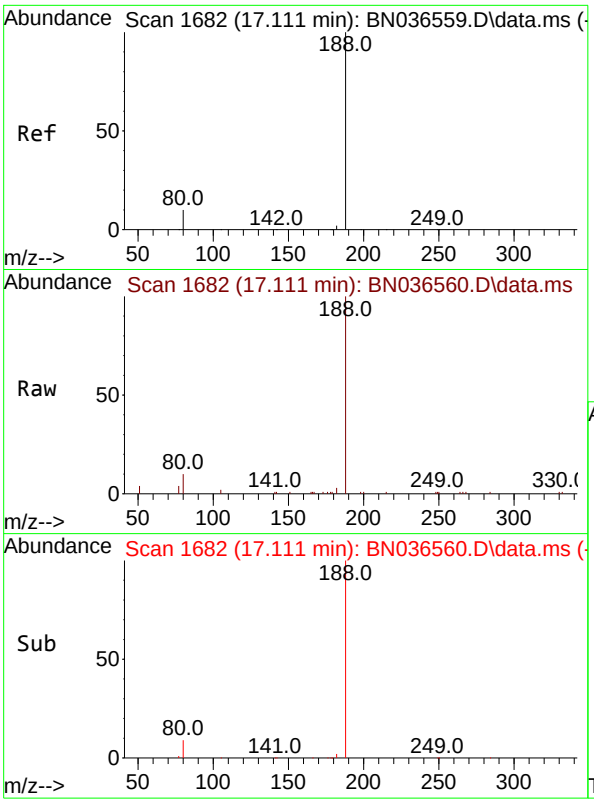


#18
Fluorene
Concen: 0.770 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:166 Resp: 11120

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.8
167	13.3	10.6	15.8



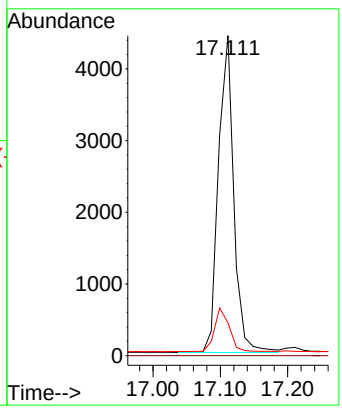


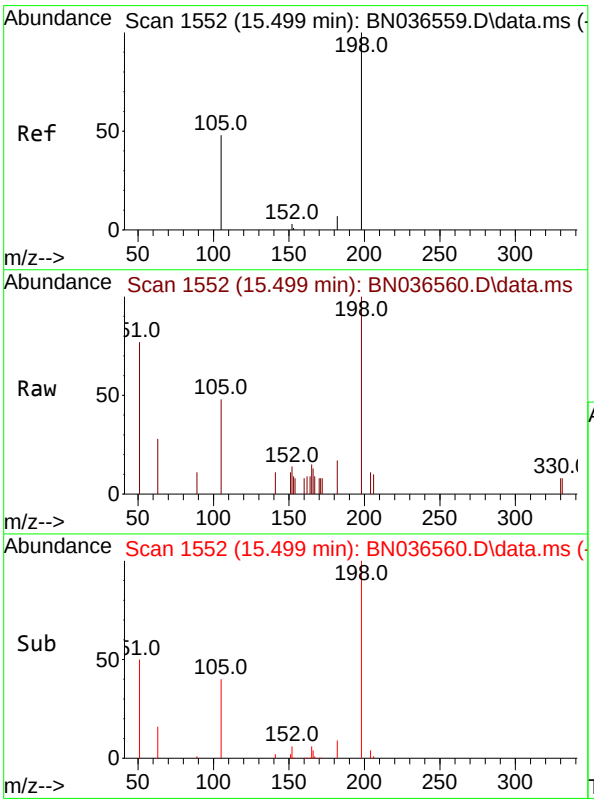
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 6971

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.3	8.8	13.2

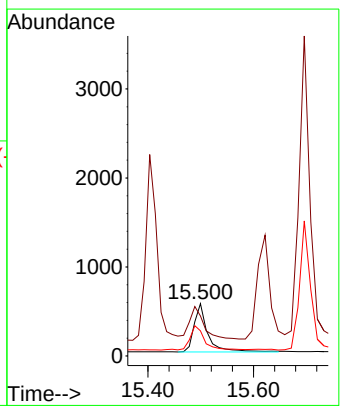


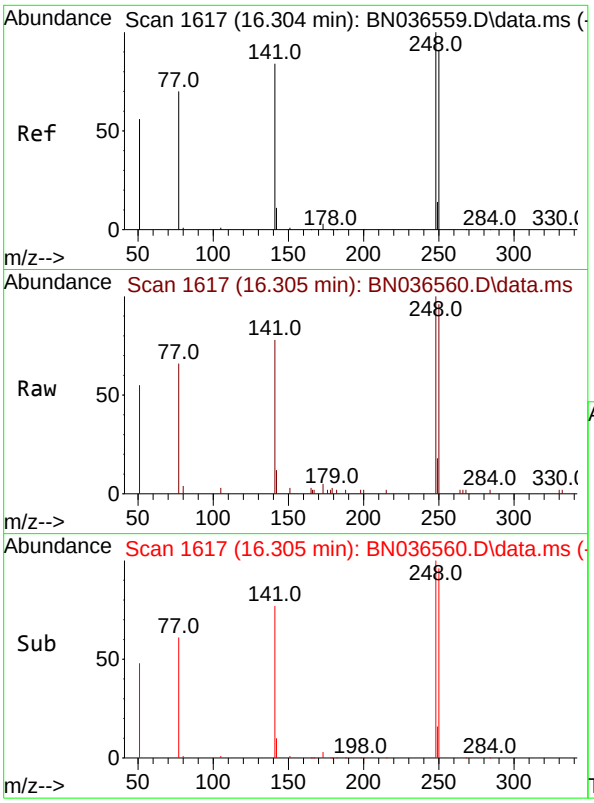


#20
4,6-Dinitro-2-methylphenol
Concen: 0.724 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:198 Resp: 1039

Ion	Ratio	Lower	Upper
198	100		
51	76.5	107.9	161.9#
105	48.1	56.2	84.2#



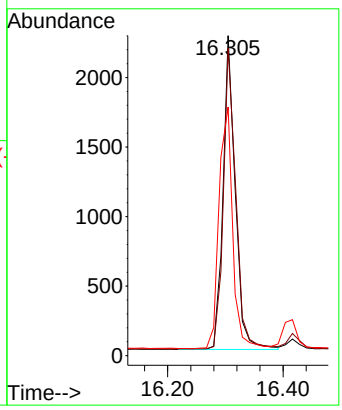


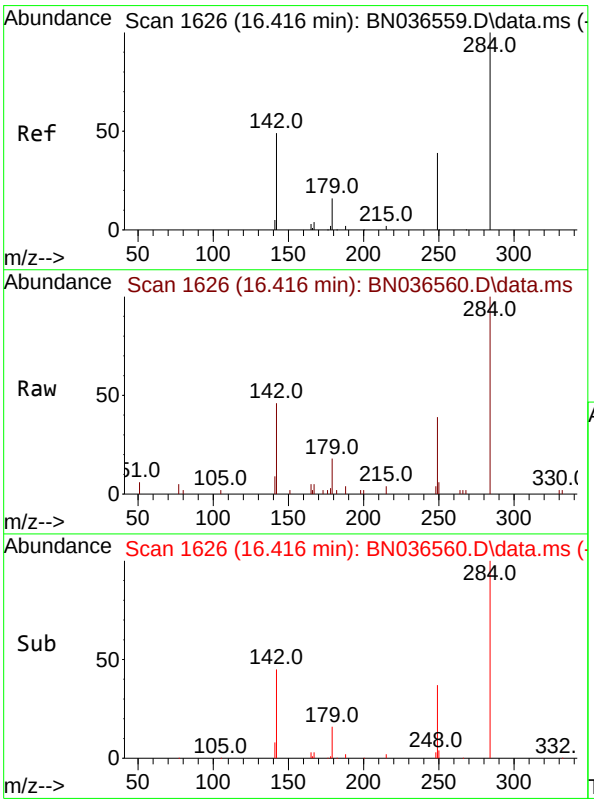
#21
4-Bromophenyl-phenylether
Concen: 0.761 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 3324

Ion	Ratio	Lower	Upper
248	100		
250	96.2	73.0	109.6
141	77.7	68.6	103.0

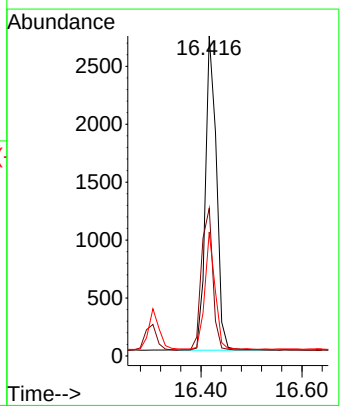


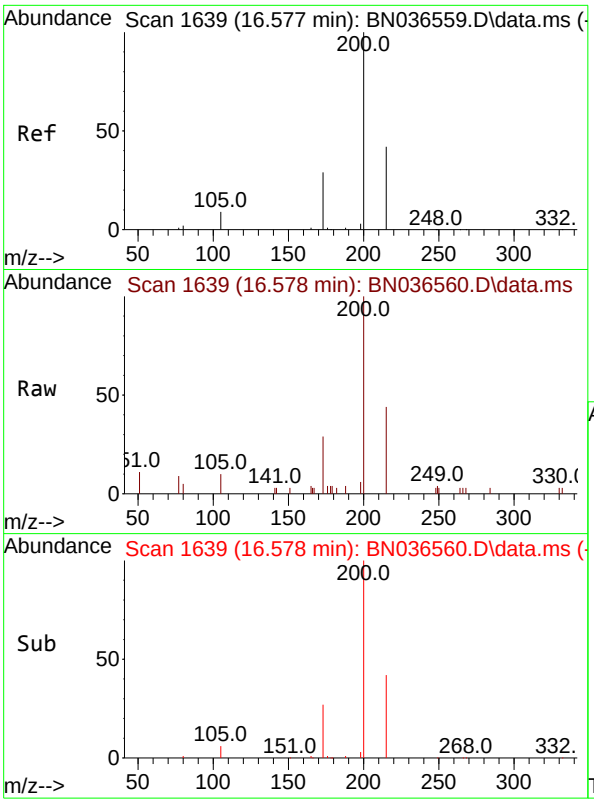


#22
Hexachlorobenzene
Concen: 0.780 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:284 Resp: 4115

Ion	Ratio	Lower	Upper
284	100		
142	47.2	37.0	55.4
249	34.7	28.1	42.1



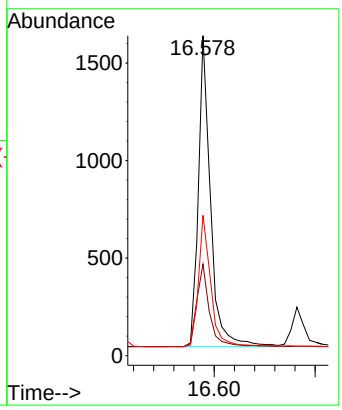


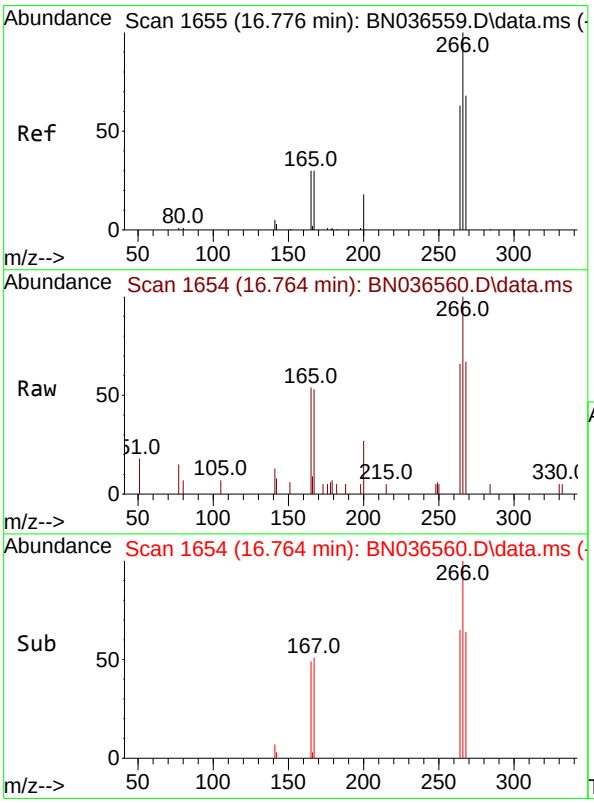
#23
Atrazine
Concen: 0.764 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2677

Ion	Ratio	Lower	Upper
200	100		
173	28.6	27.3	40.9
215	43.8	36.8	55.2

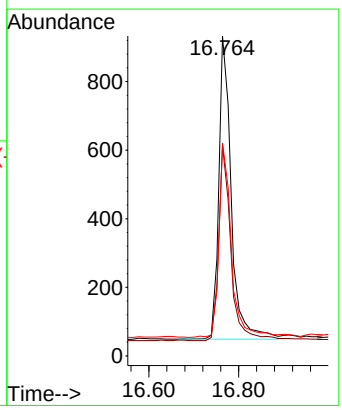


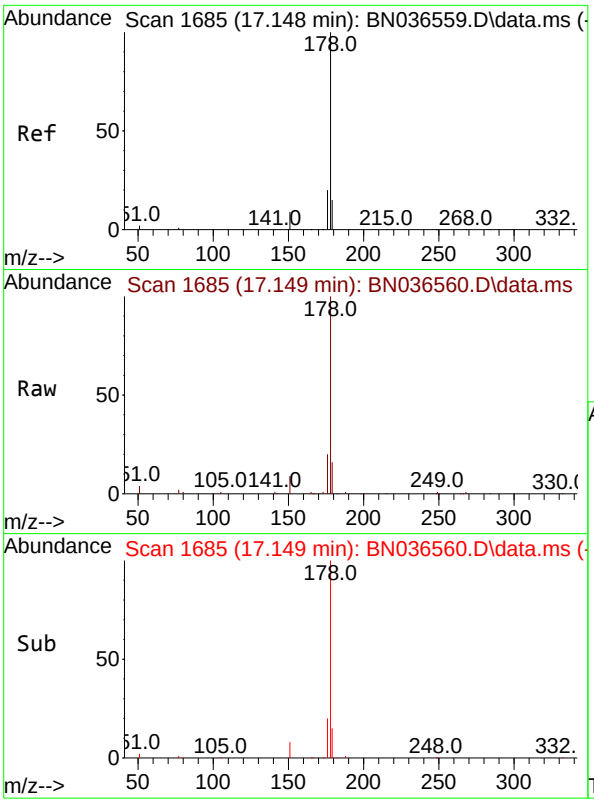


#24
Pentachlorophenol
Concen: 0.707 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:266 Resp: 1701

Ion	Ratio	Lower	Upper
266	100		
264	63.5	49.6	74.4
268	65.1	50.9	76.3



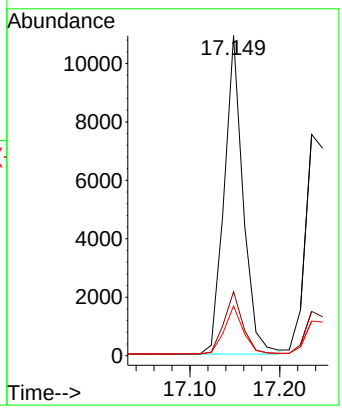


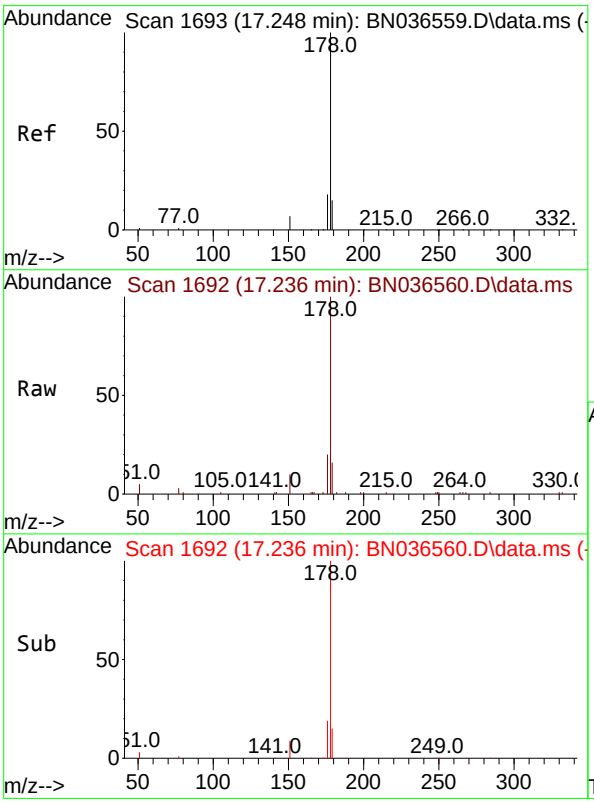
#25
Phenanthrene
Concen: 0.761 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 15910

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.1	12.2	18.4

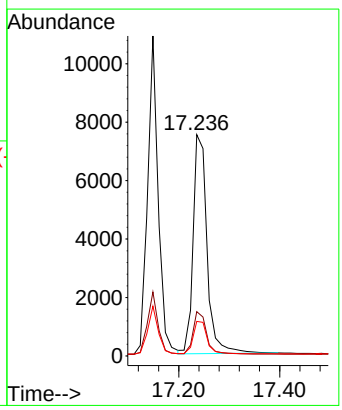


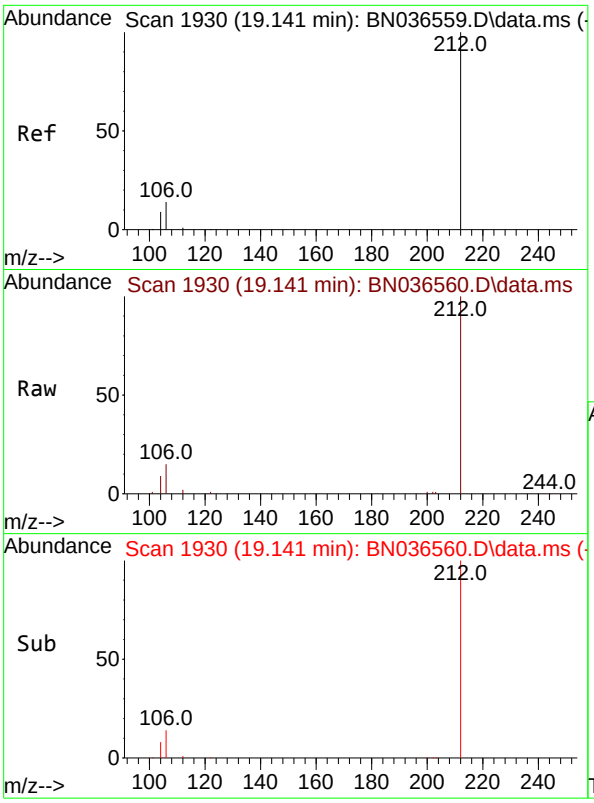


#26
Anthracene
Concen: 0.763 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:178 Resp: 14403

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.1	12.6	18.8



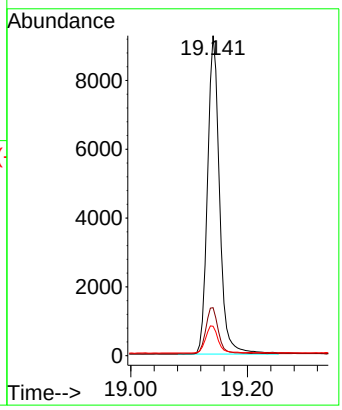


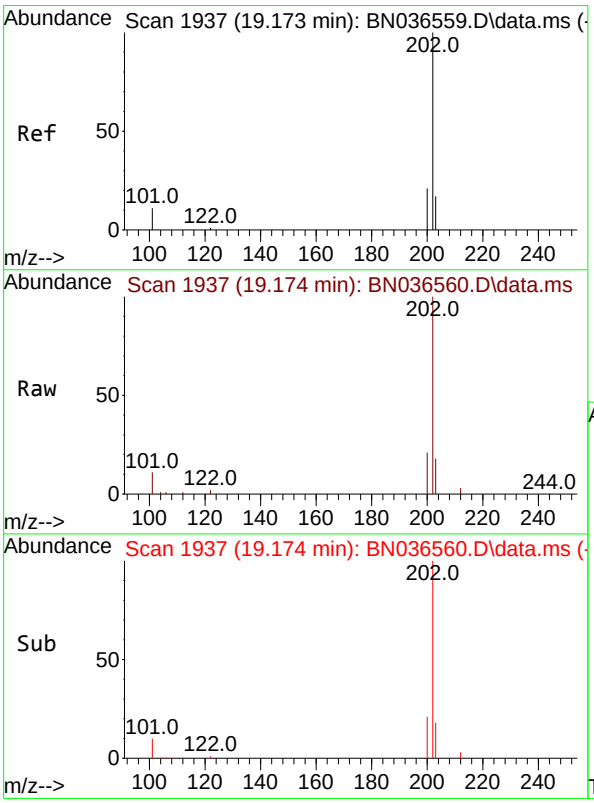
#27
Fluoranthene-d10
Concen: 0.746 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 13330

Ion	Ratio	Lower	Upper
212	100		
106	15.2	11.8	17.6
104	8.9	7.3	10.9

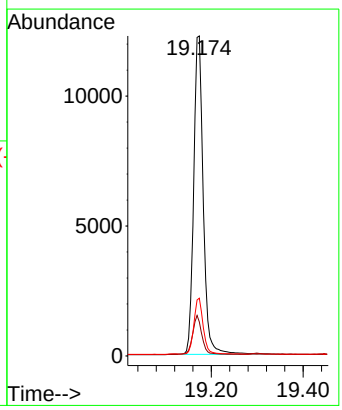


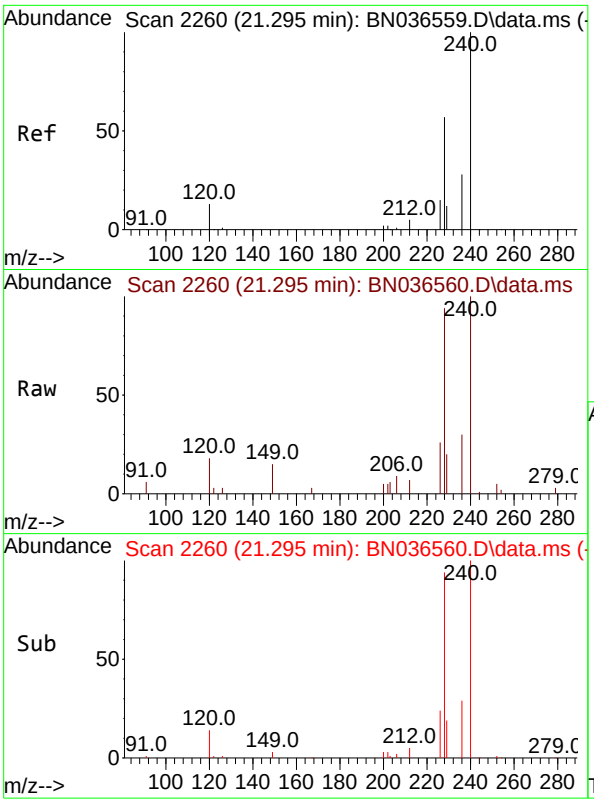


#28
Fluoranthene
Concen: 0.755 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:202 Resp: 17738

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.0	13.5	20.3



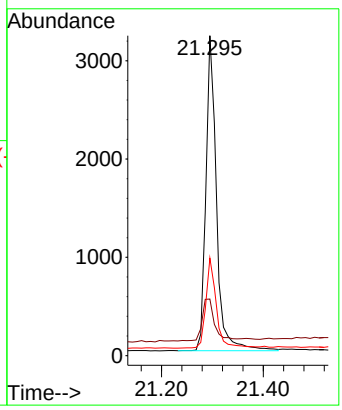


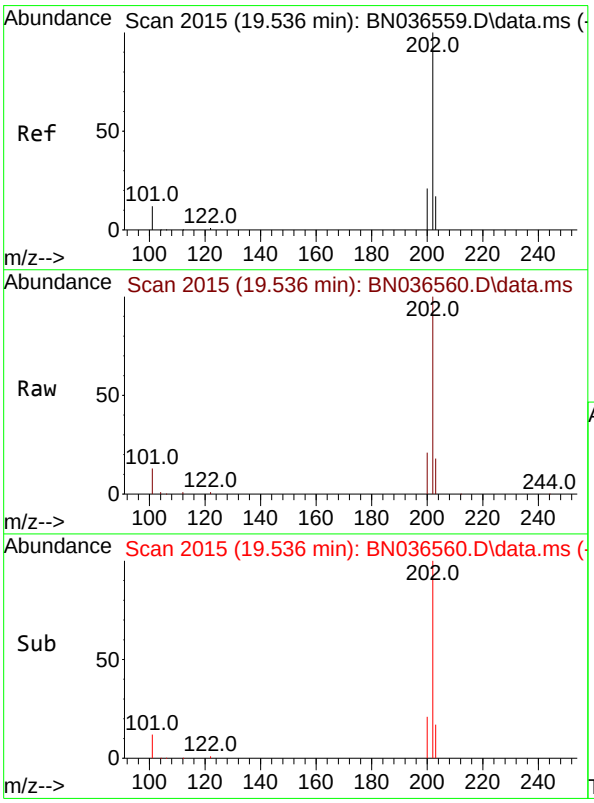
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 4636

Ion	Ratio	Lower	Upper
240	100		
120	17.7	14.6	22.0
236	30.5	24.1	36.1

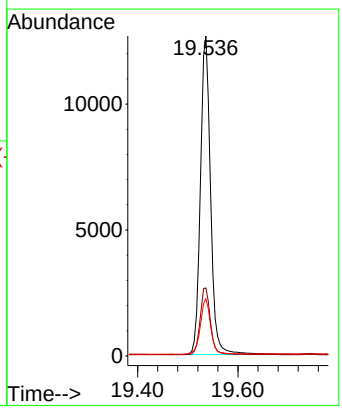


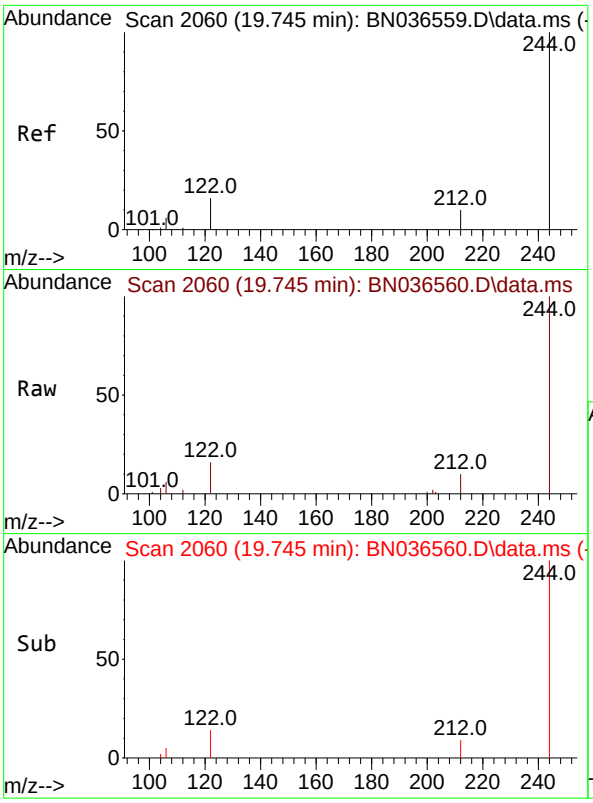


#30
Pyrene
Concen: 0.781 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:202 Resp: 17714

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.5	14.1	21.1



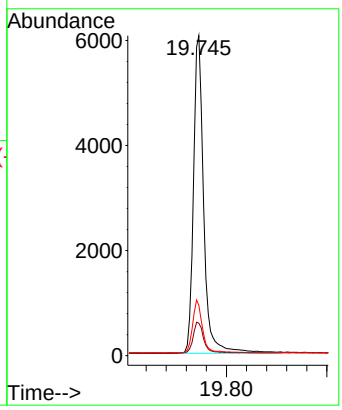


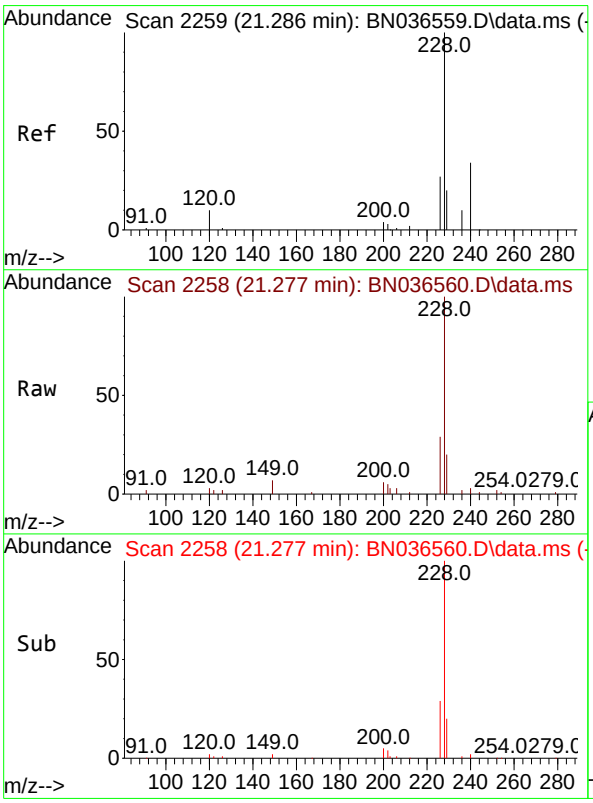
#31
Terphenyl-d14
Concen: 0.772 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 8571

Ion	Ratio	Lower	Upper
244	100		
212	10.1	9.6	14.4
122	15.8	13.9	20.9

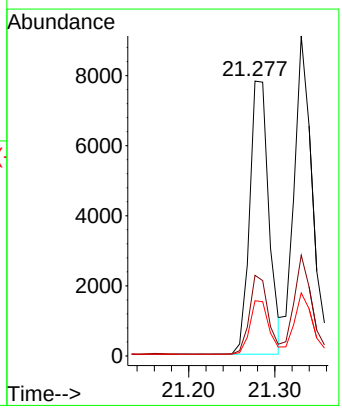


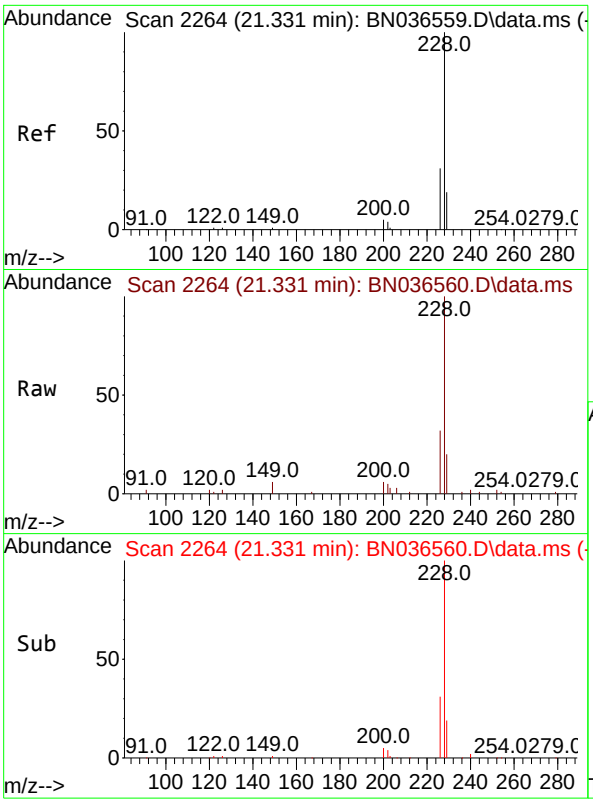


#32
Benzo(a)anthracene
Concen: 0.750 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:228 Resp: 12089

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.5	33.7
229	20.1	16.6	25.0



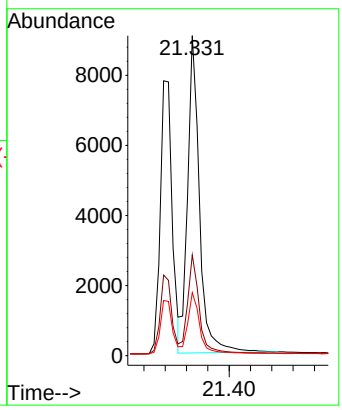


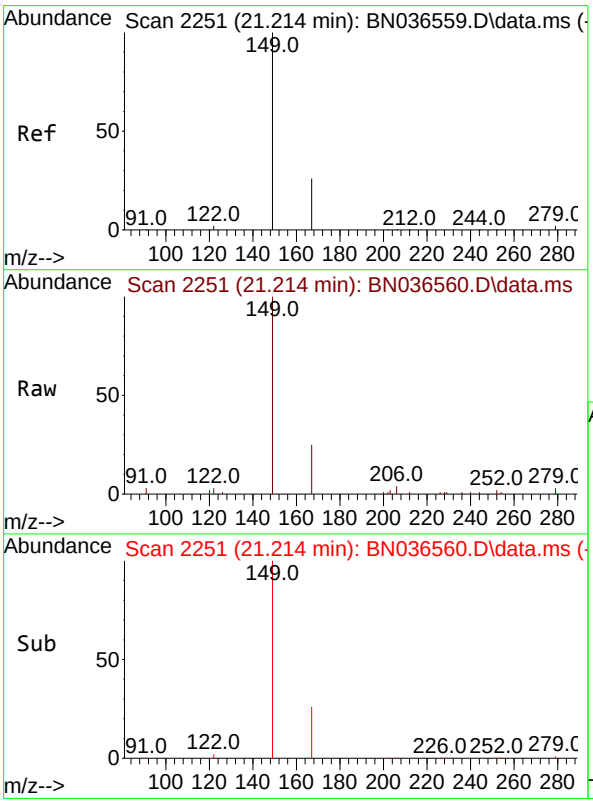
#33
Chrysene
Concen: 0.793 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 13974

Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.3	37.9
229	19.7	15.8	23.8

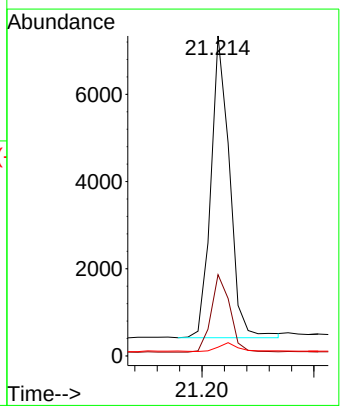


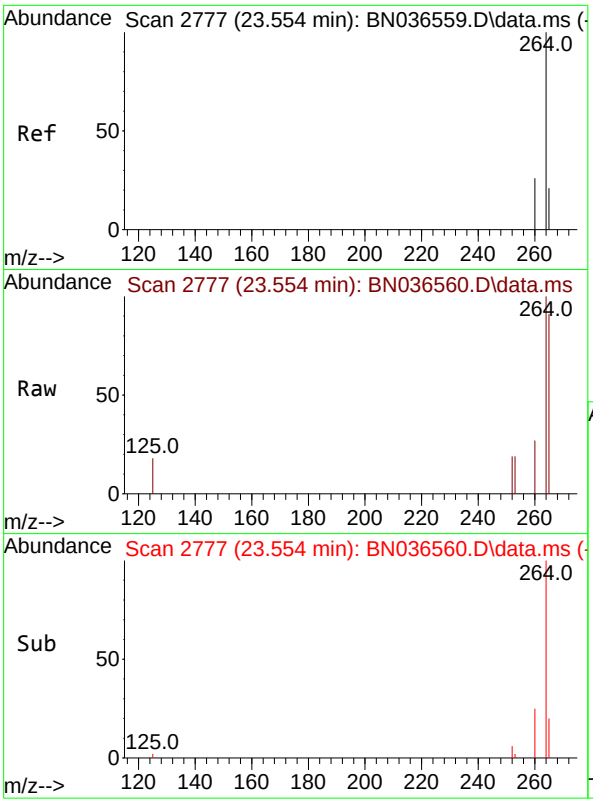


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.699 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:149 Resp: 8021

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	3.2	3.6	5.4#



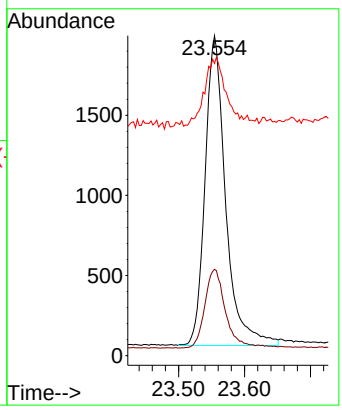


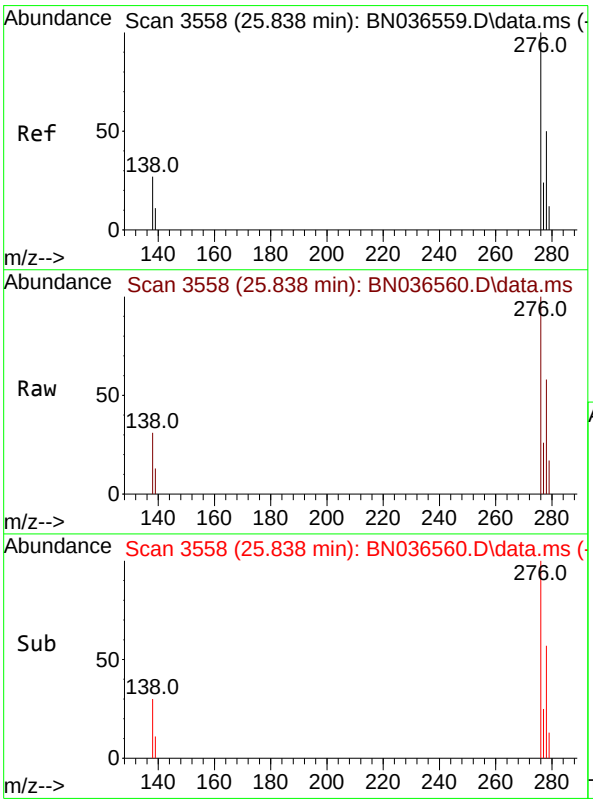
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 4198

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.6	33.8
265	91.3	88.1	132.1

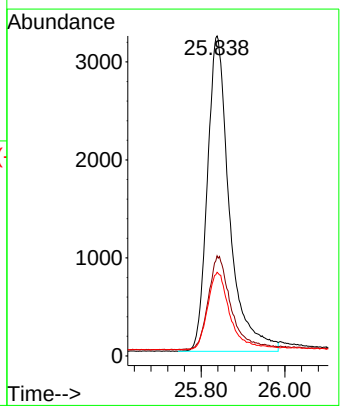


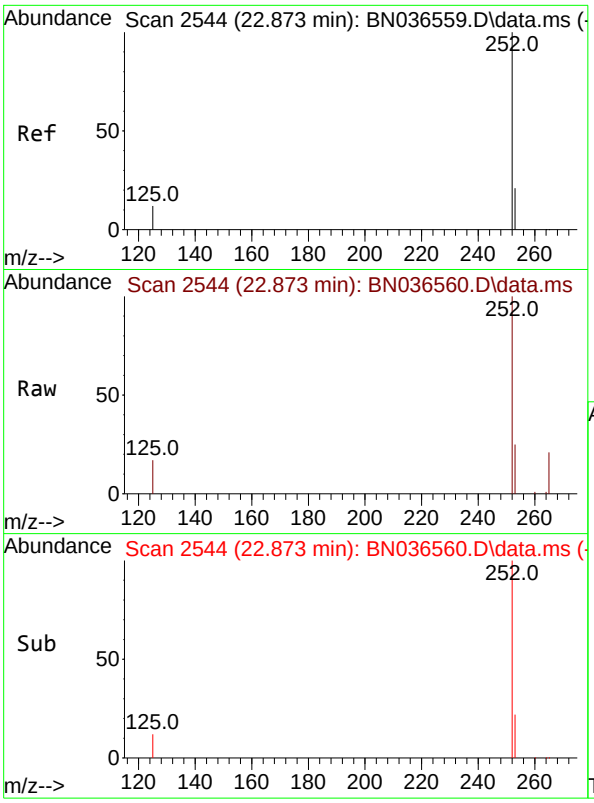


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.778 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:276 Resp: 11785

Ion	Ratio	Lower	Upper
276	100		
138	29.6	23.4	35.2
277	24.7	20.0	30.0



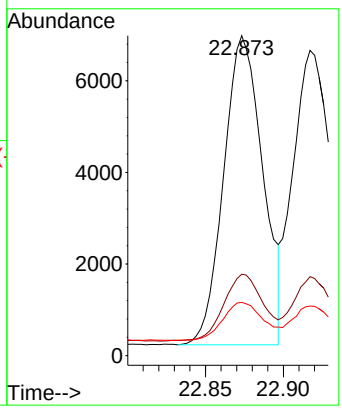


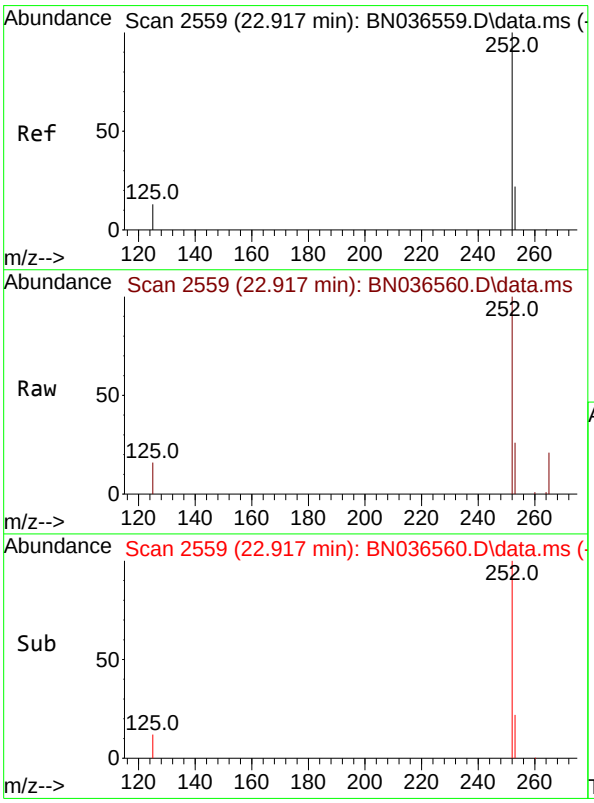
#37
Benzo(b)fluoranthene
Concen: 0.770 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 11771

Ion	Ratio	Lower	Upper
252	100		
253	25.5	23.9	35.9
125	16.7	17.4	26.2#

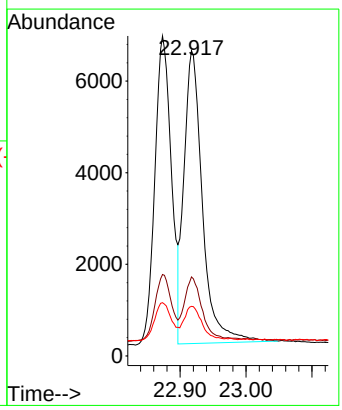


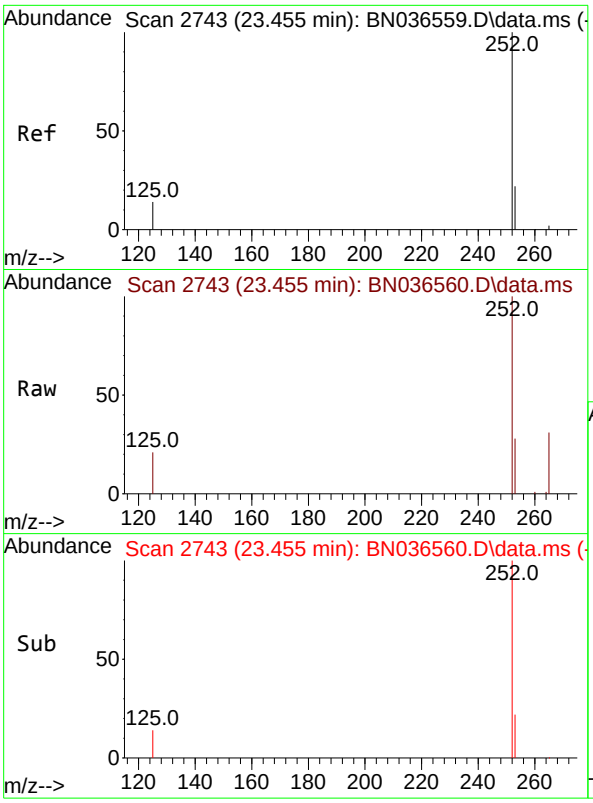


#38
Benzo(k)fluoranthene
Concen: 0.776 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:252 Resp: 12432

Ion	Ratio	Lower	Upper
252	100		
253	25.9	24.6	36.8
125	16.2	17.8	26.8#



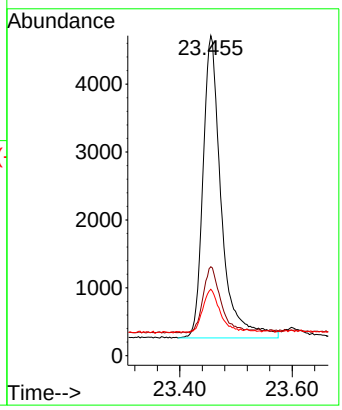


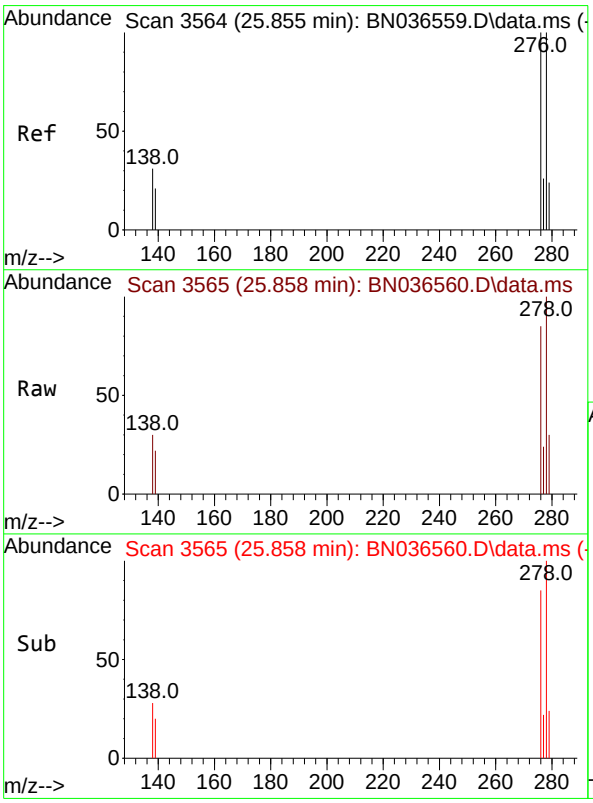
#39
Benzo(a)pyrene
Concen: 0.780 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 10036

Ion	Ratio	Lower	Upper
252	100		
253	27.8	27.8	41.8#
125	20.7	22.7	34.1#

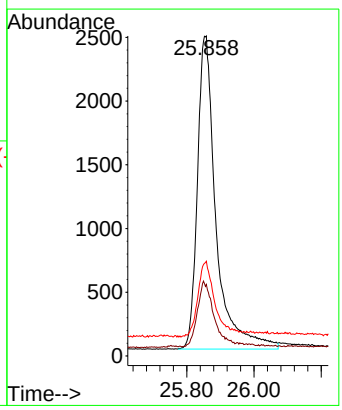


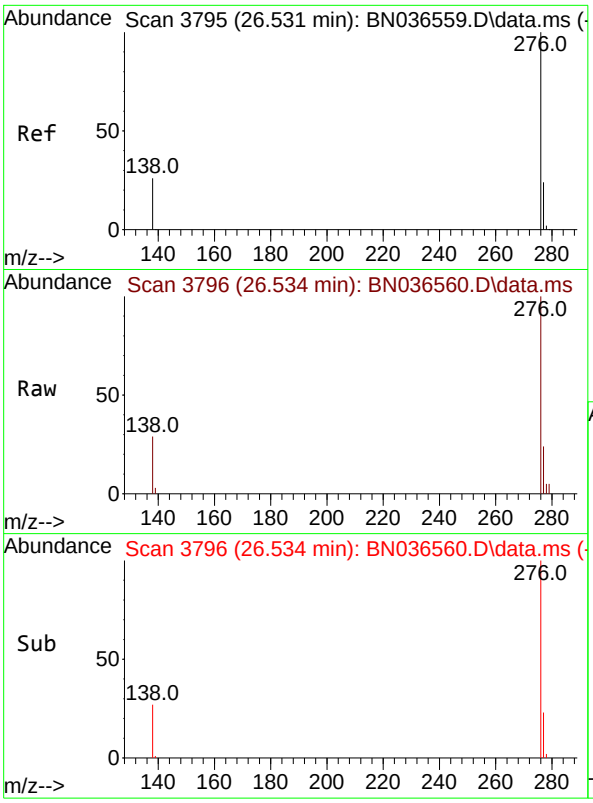


#40
Dibenzo(a,h)anthracene
Concen: 0.801 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:278 Resp: 9450

Ion	Ratio	Lower	Upper
278	100		
139	22.3	20.8	31.2
279	29.6	28.8	43.2



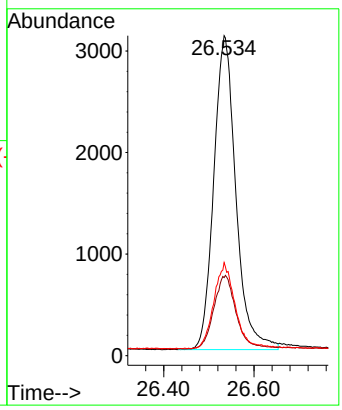


#41
Benzo(g,h,i)perylene
Concen: 0.778 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 10494

Ion	Ratio	Lower	Upper
276	100		
277	24.4	22.2	33.4
138	29.1	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036561.D
Acq On : 10 Mar 2025 14:07
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

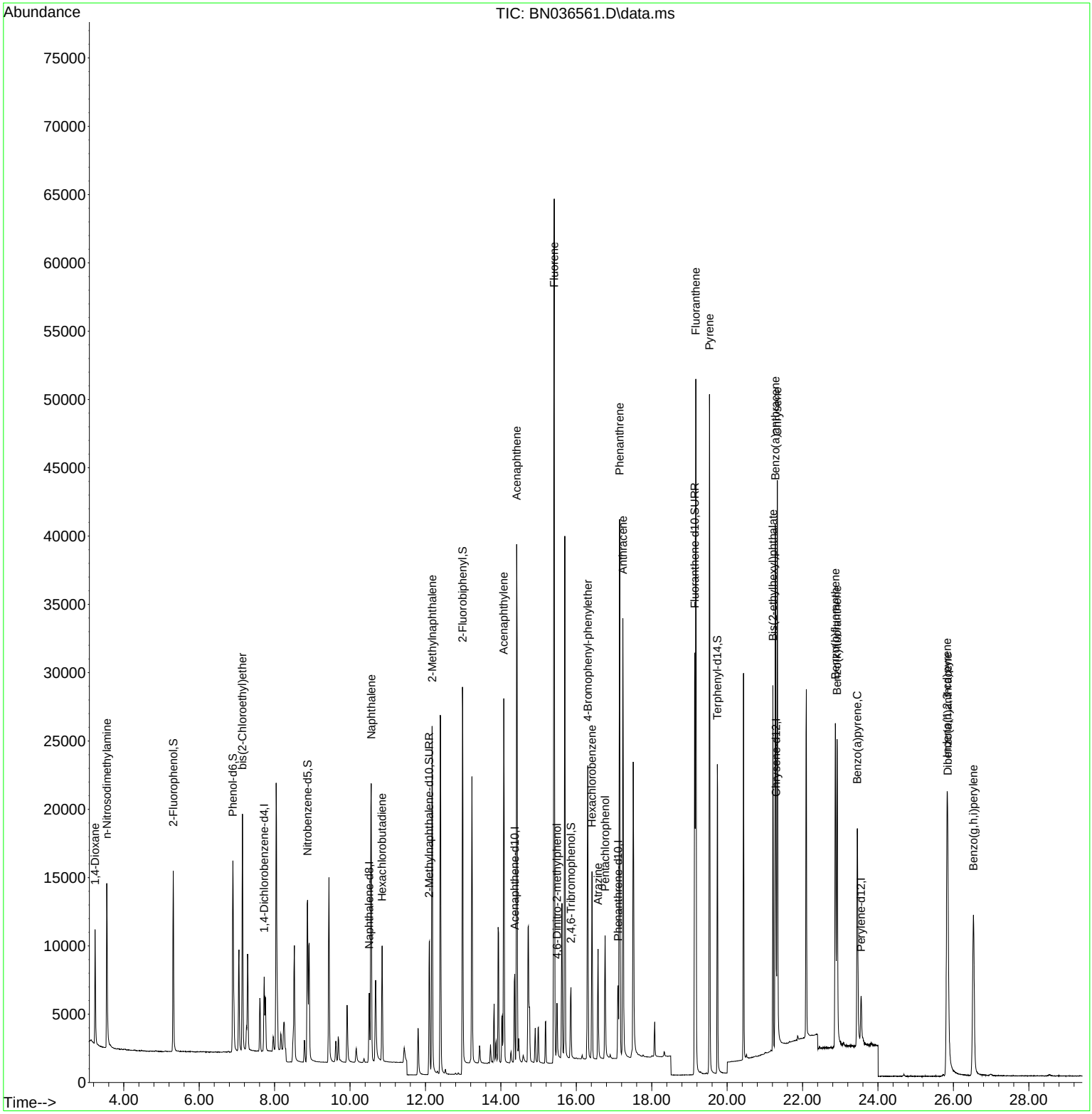
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2537	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6200	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3827	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	8149	0.400	ng		0.00
29) Chrysene-d12	21.295	240	5977	0.400	ng		# 0.00
35) Perylene-d12	23.552	264	5048	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	9276	1.569	ng		0.00
5) Phenol-d6	6.894	99	11493	1.574	ng		0.00
8) Nitrobenzene-d5	8.875	82	9959	1.477	ng		0.00
11) 2-Methylnaphthalene-d10	12.101	152	14319	1.553	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	2872	1.654	ng		0.00
15) 2-Fluorobiphenyl	12.983	172	36192	1.626	ng		0.00
27) Fluoranthene-d10	19.141	212	33414	1.600	ng		0.00
31) Terphenyl-d14	19.740	244	21872	1.527	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	4464	1.586	ng		98
3) n-Nitrosodimethylamine	3.550	42	8625	1.515	ng	#	96
6) bis(2-Chloroethyl)ether	7.147	93	11485	1.521	ng		99
9) Naphthalene	10.562	128	27473	1.506	ng		97
10) Hexachlorobutadiene	10.851	225	6466	1.506	ng	#	99
12) 2-Methylnaphthalene	12.177	142	18206	1.569	ng		98
16) Acenaphthylene	14.078	152	28080	1.555	ng		100
17) Acenaphthene	14.420	154	18355	1.553	ng		98
18) Fluorene	15.414	166	25565	1.599	ng		99
20) 4,6-Dinitro-2-methylph...	15.489	198	2879	1.488	ng	#	64
21) 4-Bromophenyl-phenylether	16.305	248	7859	1.539	ng	#	85
22) Hexachlorobenzene	16.416	284	9216	1.495	ng		100
23) Atrazine	16.578	200	6530	1.595	ng	#	91
24) Pentachlorophenol	16.764	266	4395	1.563	ng		99
25) Phenanthrene	17.149	178	37989	1.554	ng		99
26) Anthracene	17.235	178	35054	1.589	ng		99
28) Fluoranthene	19.169	202	44451	1.619	ng		99
30) Pyrene	19.531	202	44705	1.530	ng		100
32) Benzo(a)anthracene	21.277	228	32205	1.550	ng		98
33) Chrysene	21.331	228	34953	1.539	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	22621	1.529	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.832	276	28605	1.570	ng		99
37) Benzo(b)fluoranthene	22.870	252	29819	1.623	ng	#	86
38) Benzo(k)fluoranthene	22.917	252	30710	1.593	ng	#	85
39) Benzo(a)pyrene	23.452	252	24696	1.596	ng	#	79
40) Dibenzo(a,h)anthracene	25.850	278	22248	1.569	ng	#	85
41) Benzo(g,h,i)perylene	26.531	276	24906	1.535	ng		93

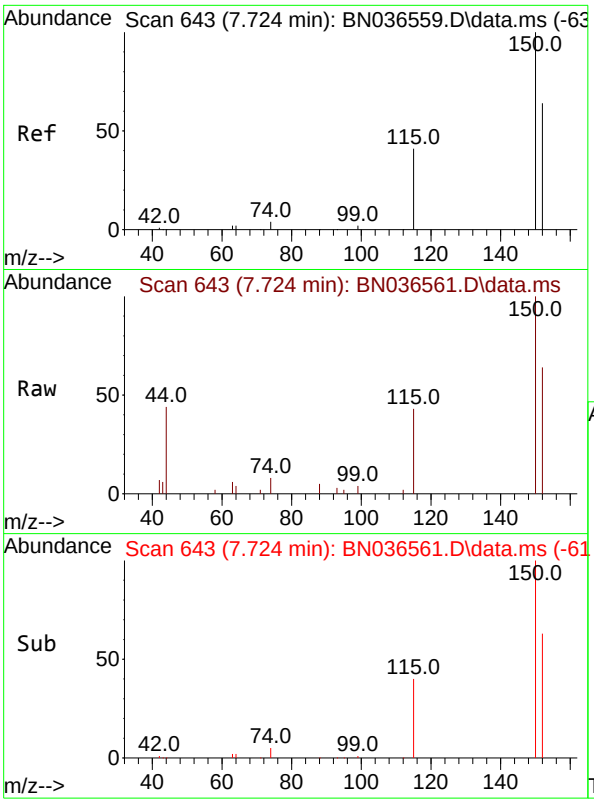
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036561.D
Acq On : 10 Mar 2025 14:07
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



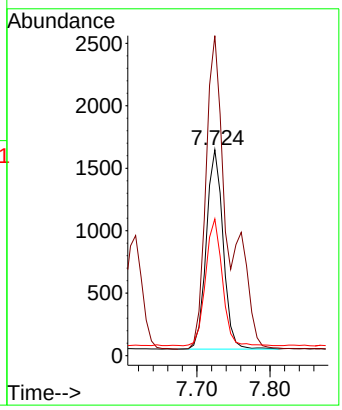


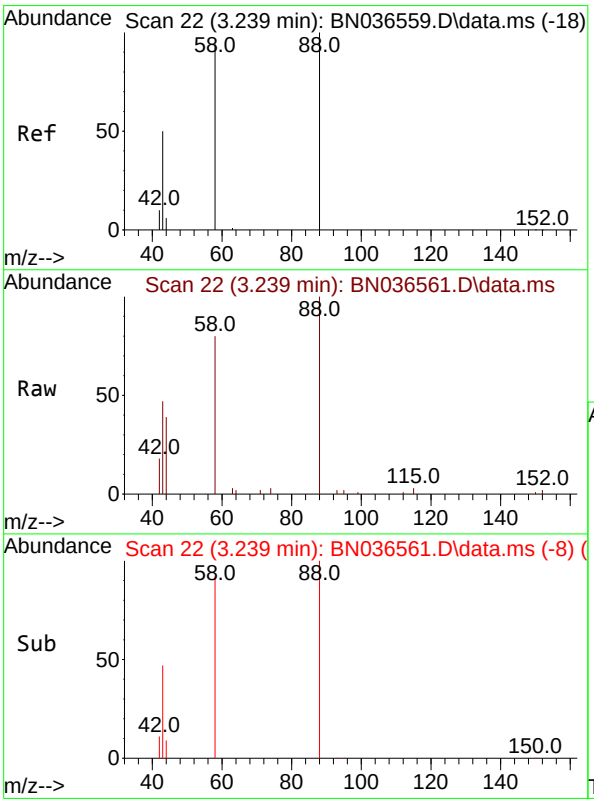
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2537

Ion	Ratio	Lower	Upper
152	100		
150	155.4	123.7	185.5
115	66.4	54.3	81.5

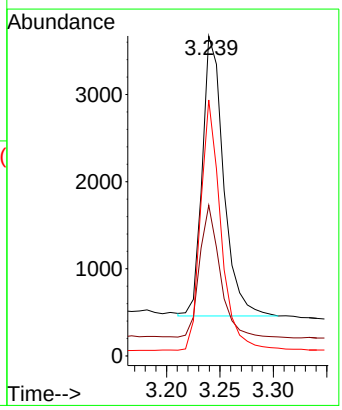


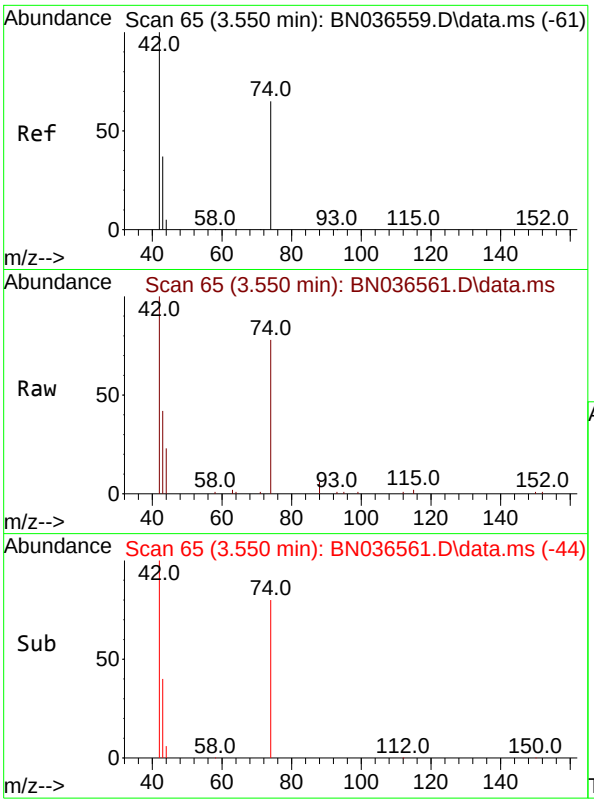


#2
1,4-Dioxane
Concen: 1.586 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 88 Resp: 4464

Ion	Ratio	Lower	Upper
88	100		
43	45.1	37.8	56.8
58	85.6	67.4	101.2



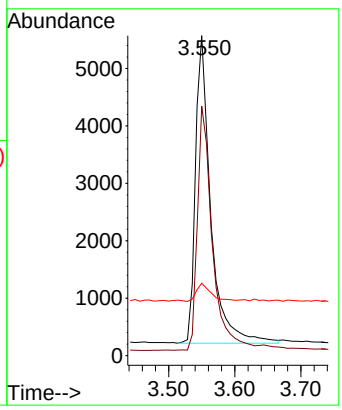


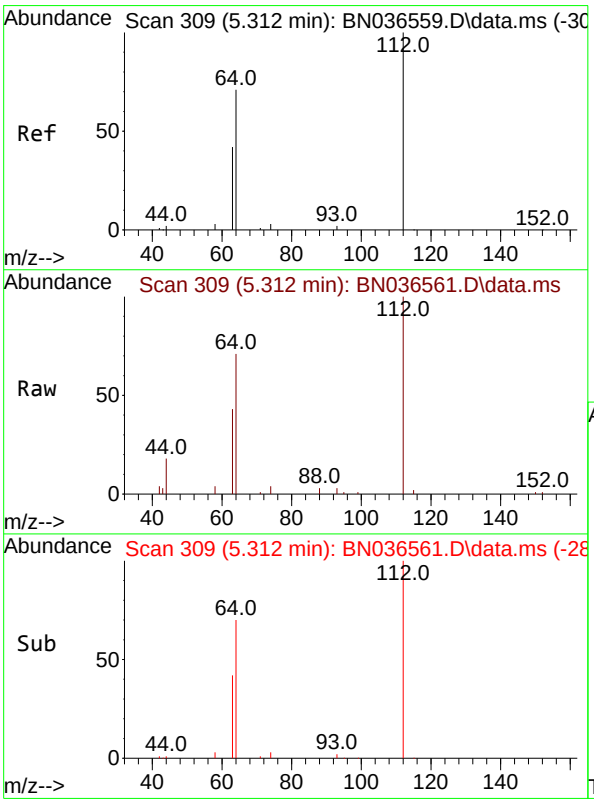
#3
n-Nitrosodimethylamine
Concen: 1.515 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 8625

Ion	Ratio	Lower	Upper
42	100		
74	79.2	60.6	90.8
44	5.8	6.3	9.5#

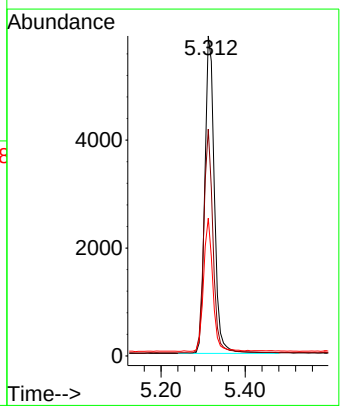


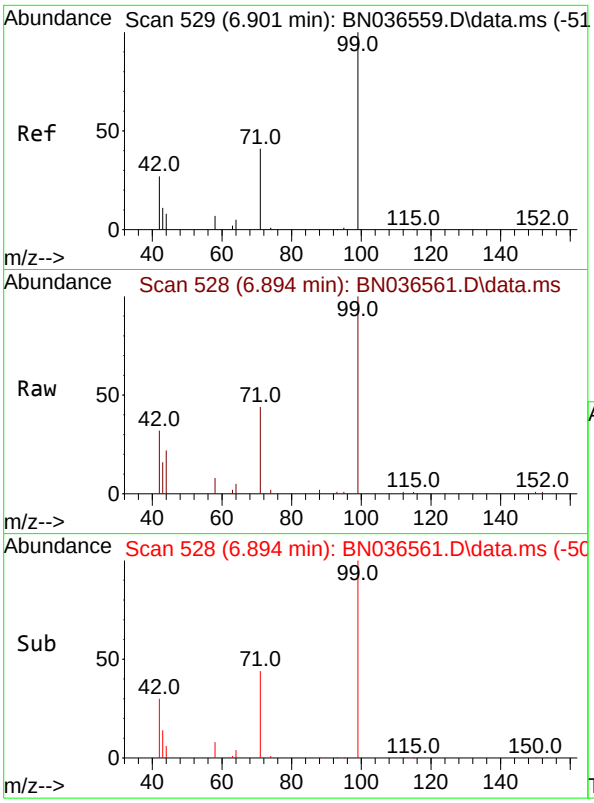


#4
2-Fluorophenol
Concen: 1.569 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:112 Resp: 9276

Ion	Ratio	Lower	Upper
112	100		
64	68.3	53.1	79.7
63	40.1	31.8	47.8



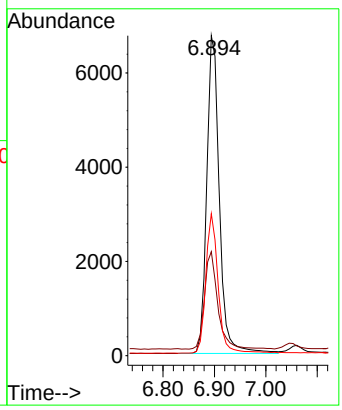


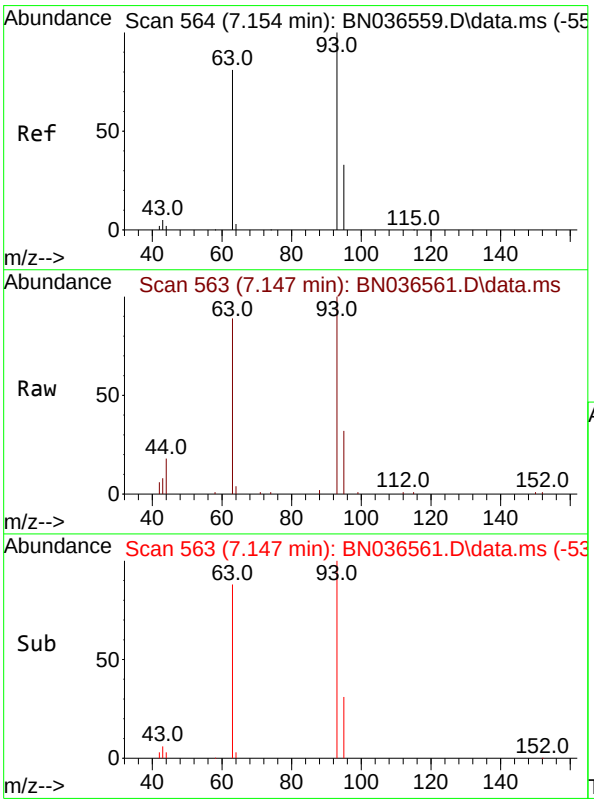
#5
Phenol-d6
Concen: 1.574 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 11493

Ion	Ratio	Lower	Upper
99	100		
42	32.6	26.5	39.7
71	43.3	34.1	51.1

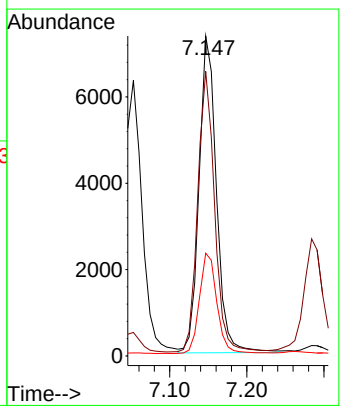


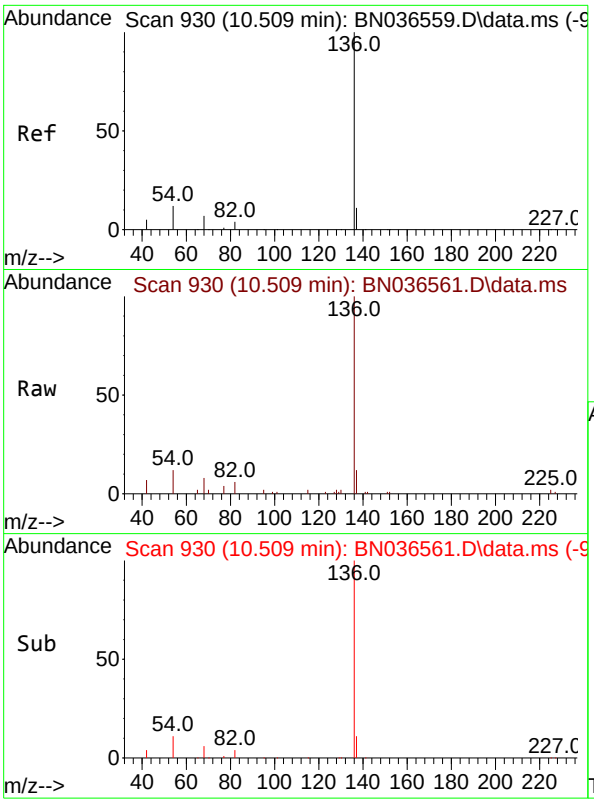


#6
bis(2-Chloroethyl)ether
Concen: 1.521 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 93 Resp: 11485

Ion	Ratio	Lower	Upper
93	100		
63	85.8	67.7	101.5
95	31.8	25.6	38.4



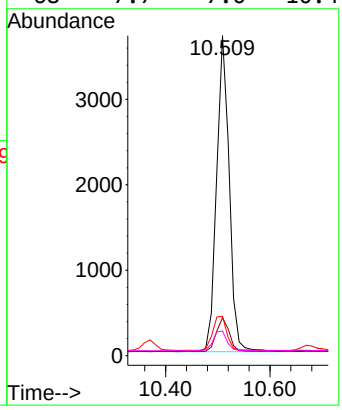


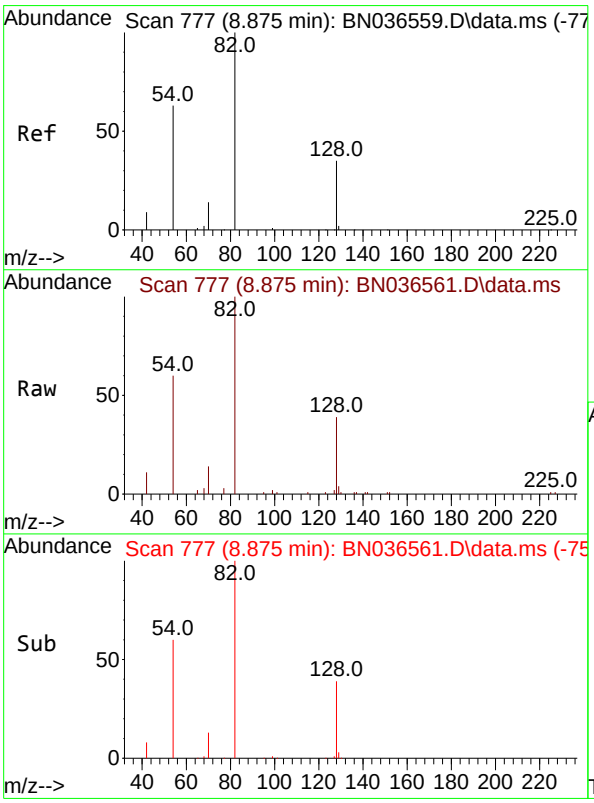
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 6200

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.3	11.5	17.3
68	7.7	7.0	10.4

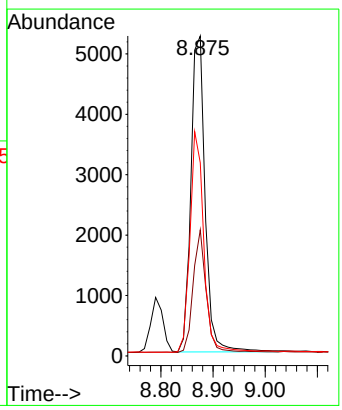


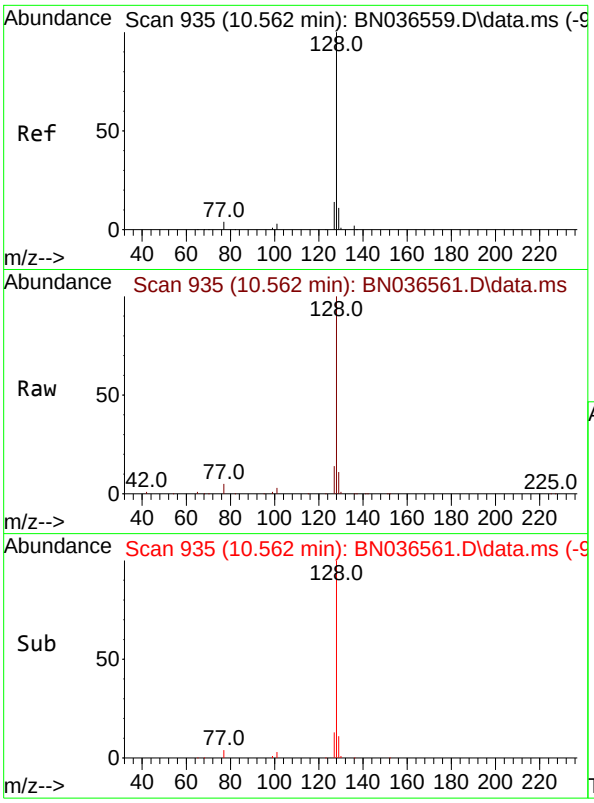


#8
Nitrobenzene-d5
Concen: 1.477 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 82 Resp: 9959

Ion	Ratio	Lower	Upper
82	100		
128	39.4	30.6	45.8
54	60.4	52.2	78.4



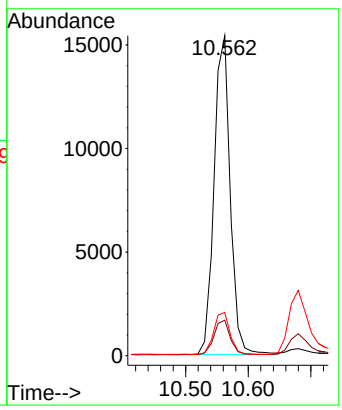


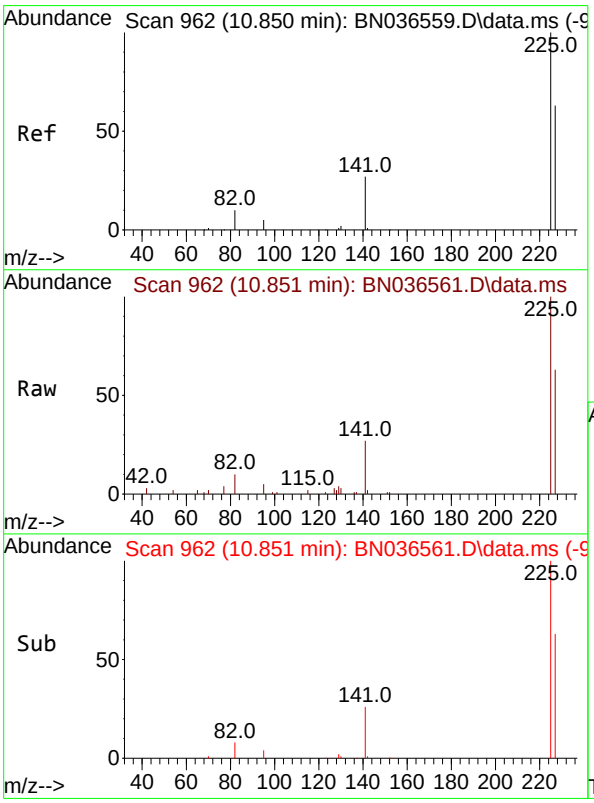
#9
Naphthalene
Concen: 1.506 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 27473

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.8	14.6
127	13.5	11.8	17.8

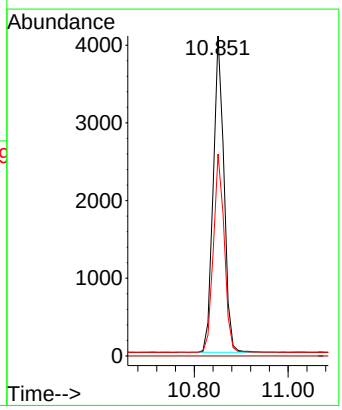


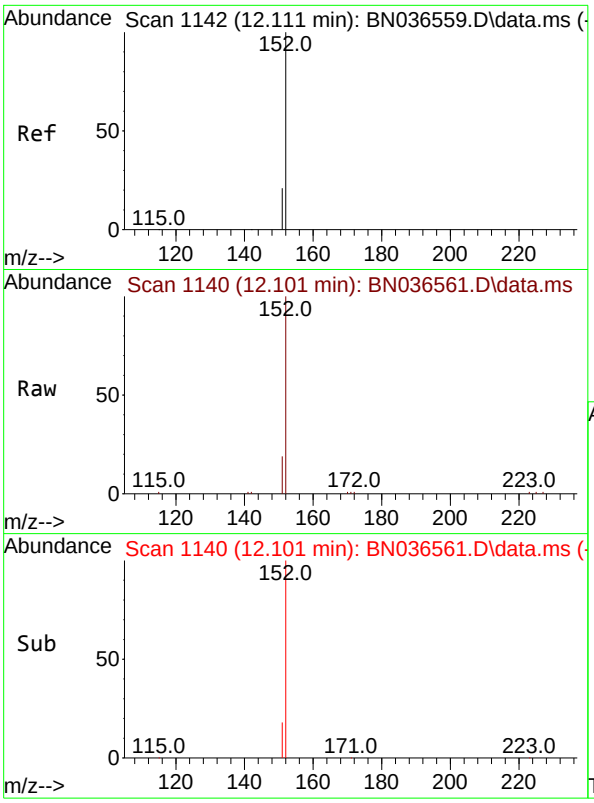


#10
Hexachlorobutadiene
Concen: 1.506 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:225 Resp: 6466

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.8	77.8



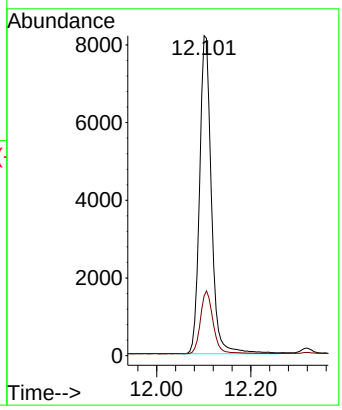


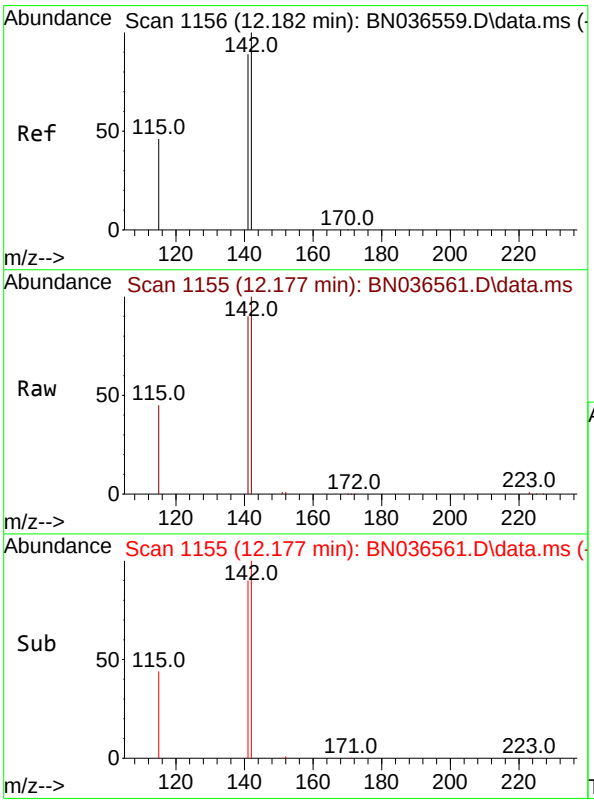
#11
2-Methylnaphthalene-d10
Concen: 1.553 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 14319

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

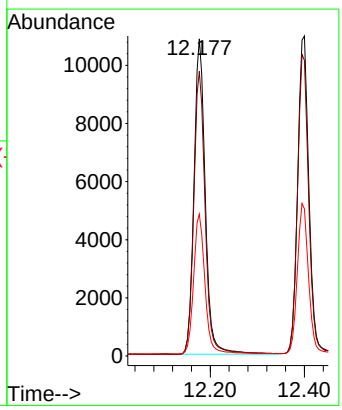


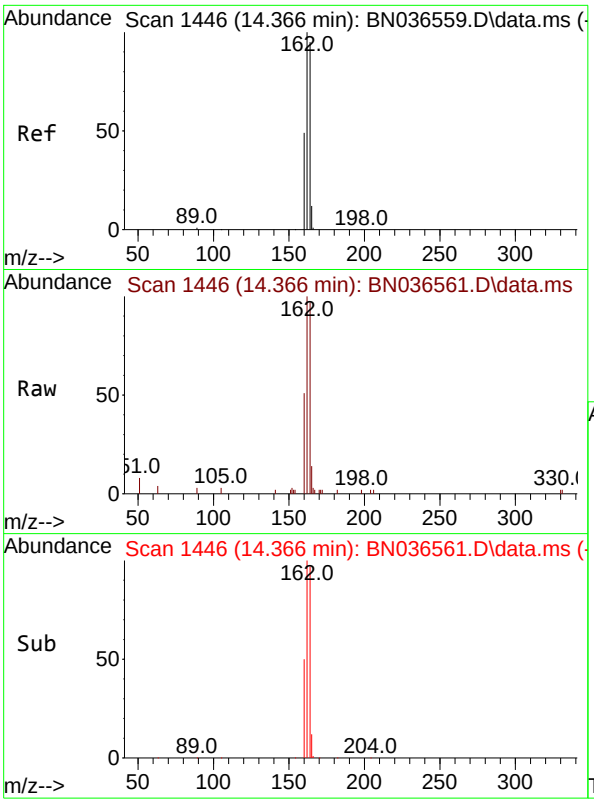


#12
2-Methylnaphthalene
Concen: 1.569 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:142 Resp: 18206

Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.7	107.5
115	44.7	38.3	57.5



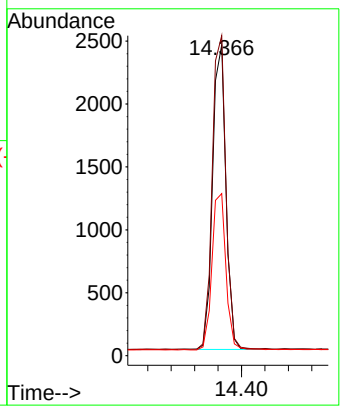


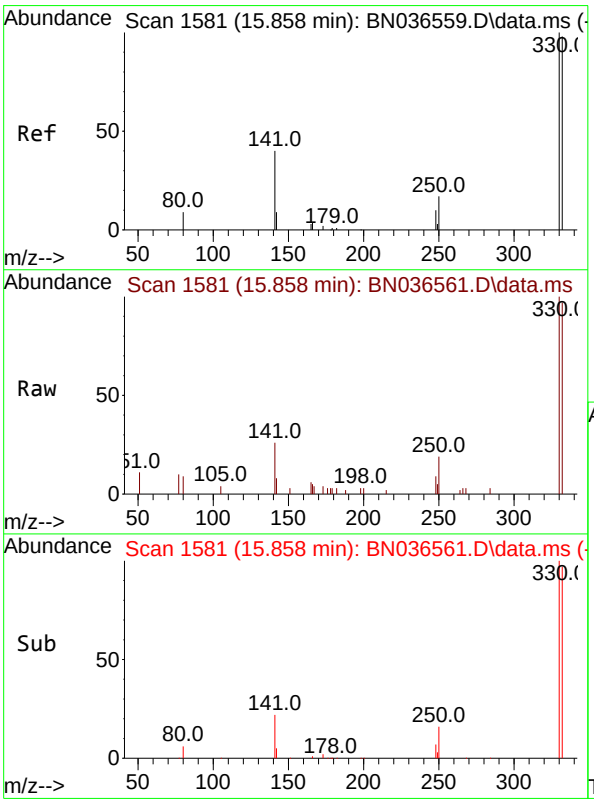
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 3827

Ion	Ratio	Lower	Upper
164	100		
162	102.9	84.2	126.2
160	52.1	42.2	63.2

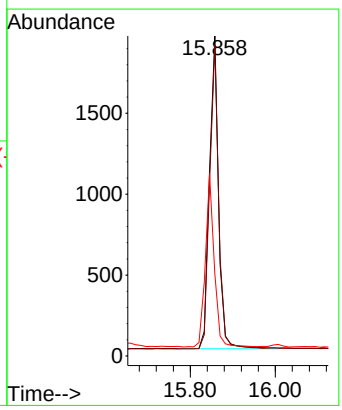


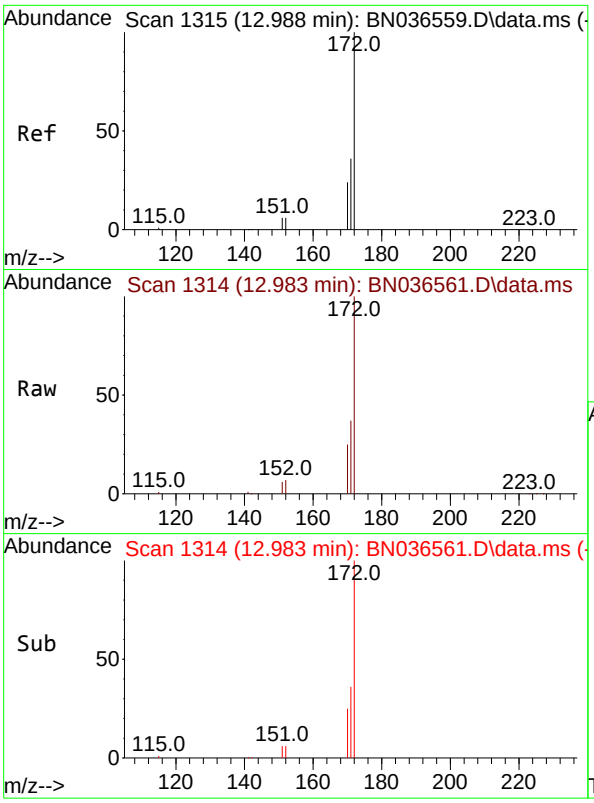


#14
2,4,6-Tribromophenol
Concen: 1.654 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:330 Resp: 2872

Ion	Ratio	Lower	Upper
330	100		
332	96.3	75.2	112.8
141	53.8	43.4	65.2



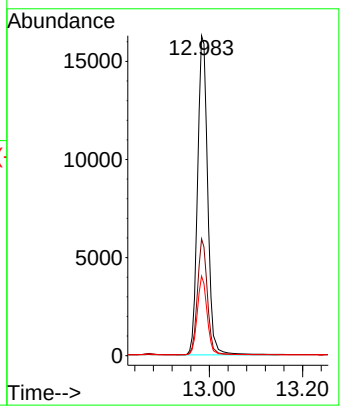


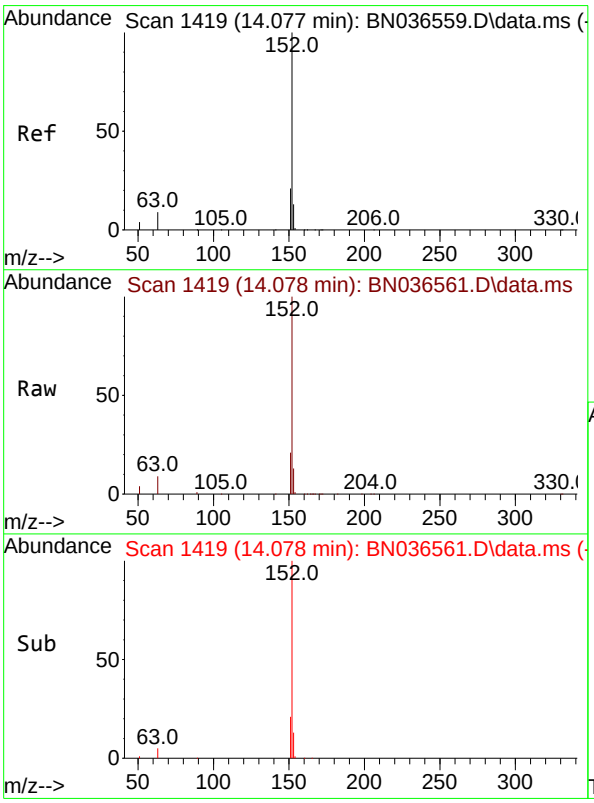
#15
2-Fluorobiphenyl
Concen: 1.626 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 36192

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.5	44.3
170	24.9	20.2	30.4

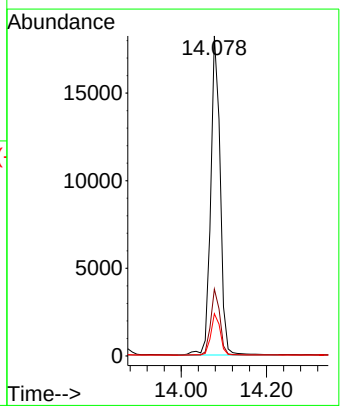


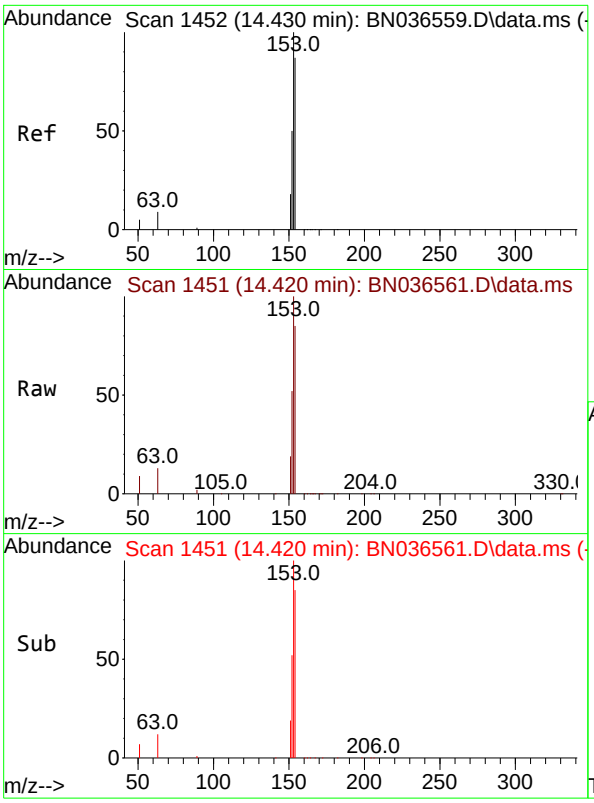


#16
Acenaphthylene
Concen: 1.555 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:152 Resp: 28080

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.0	10.6	15.8



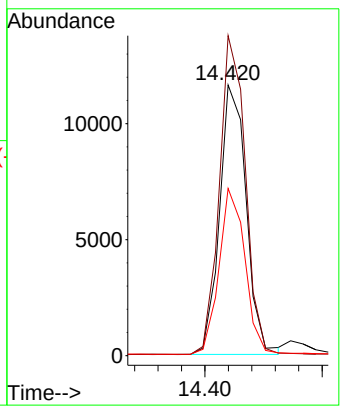


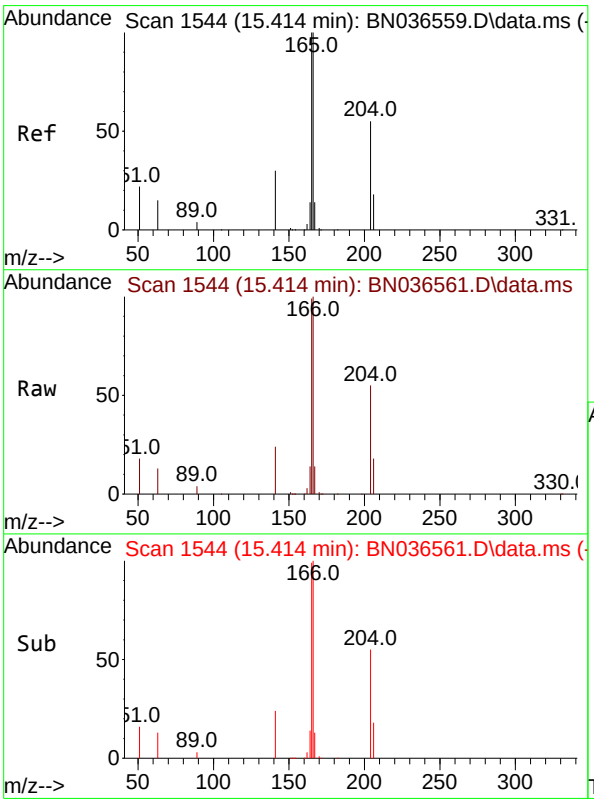
#17
Acenaphthene
Concen: 1.553 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 18355

Ion	Ratio	Lower	Upper
154	100		
153	115.7	94.1	141.1
152	60.3	49.8	74.6

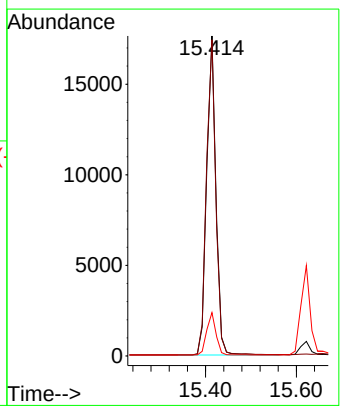


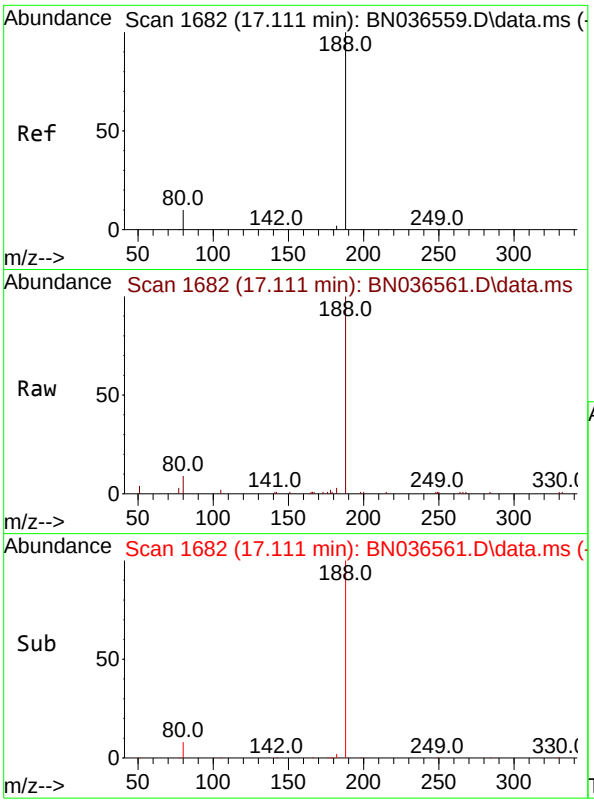


#18
Fluorene
Concen: 1.599 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:166 Resp: 25565

Ion	Ratio	Lower	Upper
166	100		
165	100.5	79.8	119.8
167	13.1	10.6	15.8



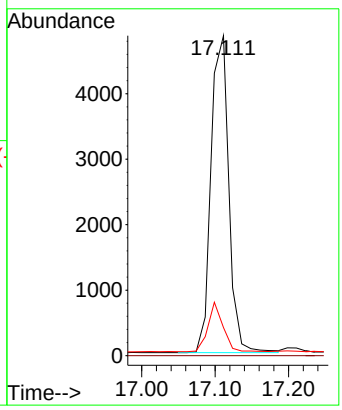


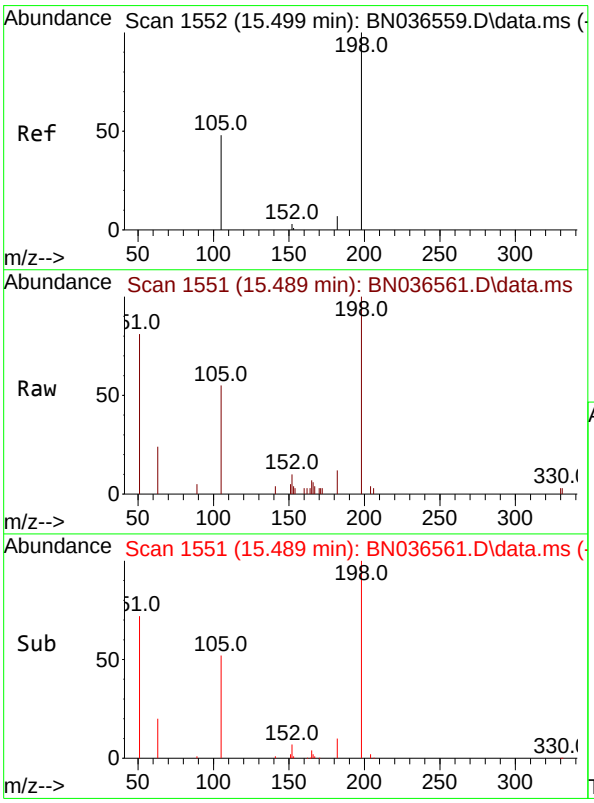
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 8149

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	8.8	13.2

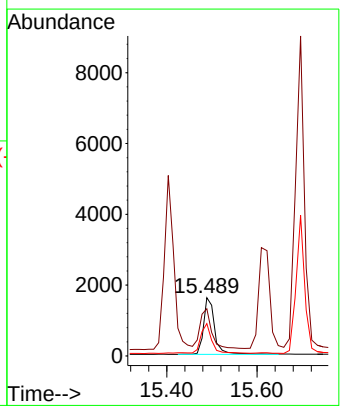


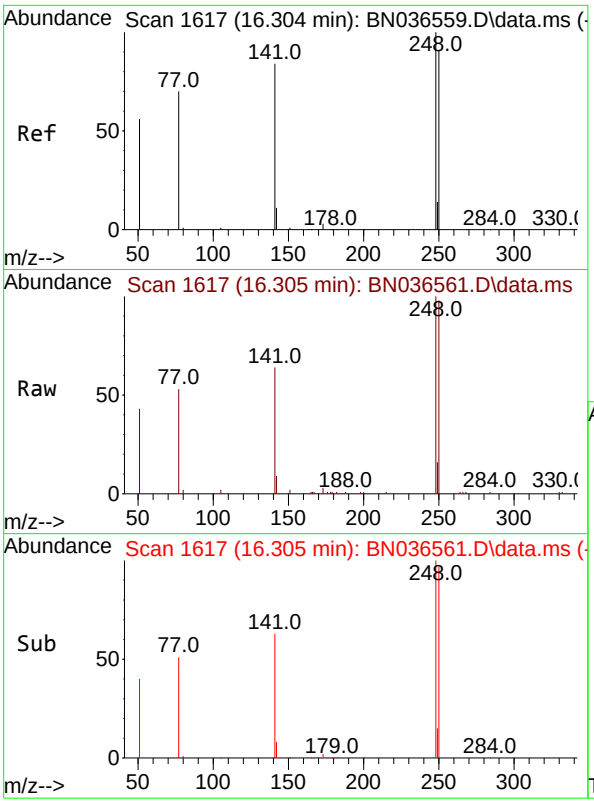


#20
4,6-Dinitro-2-methylphenol
Concen: 1.488 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:198 Resp: 2879

Ion	Ratio	Lower	Upper
198	100		
51	81.2	107.9	161.9#
105	55.5	56.2	84.2#



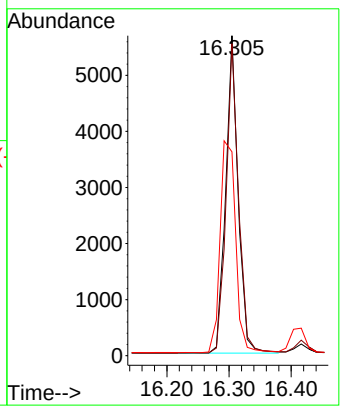


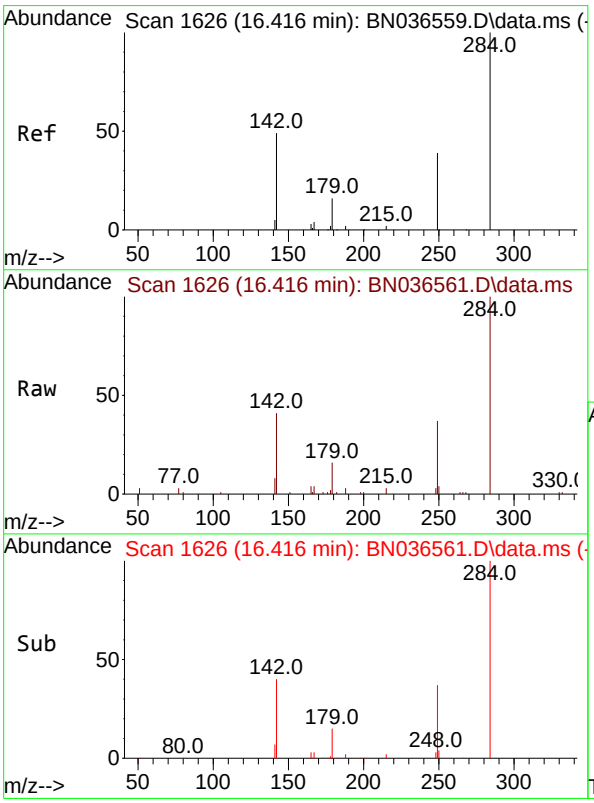
#21
4-Bromophenyl-phenylether
Concen: 1.539 ng
RT: 16.305 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 7859

Ion	Ratio	Lower	Upper
248	100		
250	97.5	73.0	109.6
141	63.7	68.6	103.0#

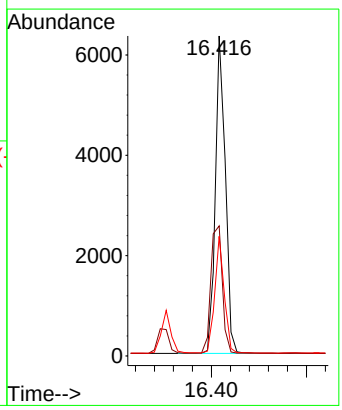


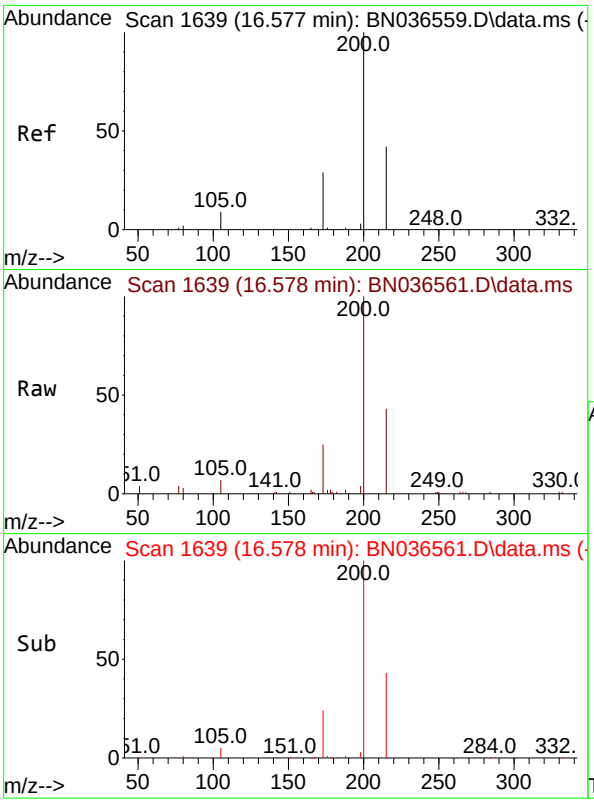


#22
Hexachlorobenzene
Concen: 1.495 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:284 Resp: 9216

Ion	Ratio	Lower	Upper
284	100		
142	46.6	37.0	55.4
249	35.1	28.1	42.1



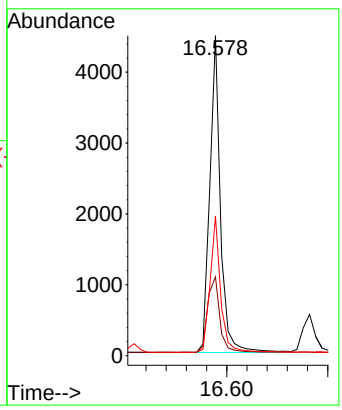


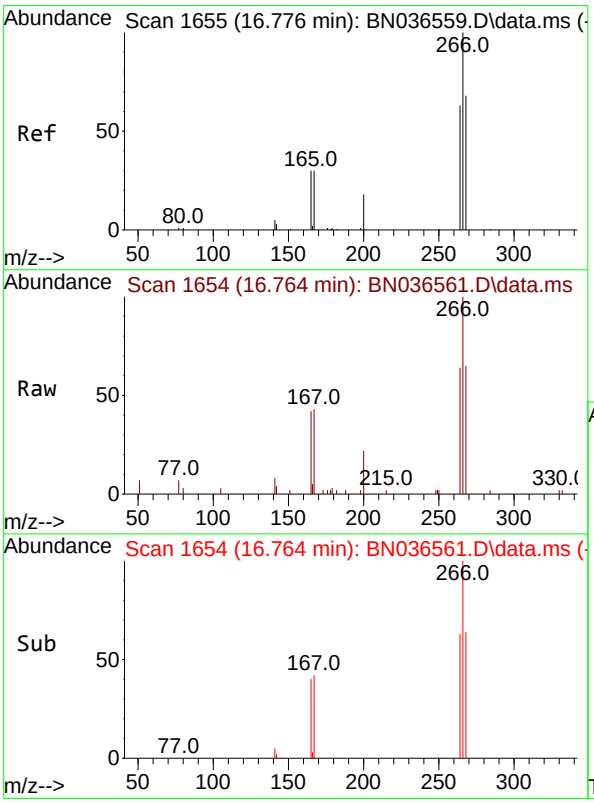
#23
Atrazine
Concen: 1.595 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 6530

Ion	Ratio	Lower	Upper
200	100		
173	24.6	27.3	40.9#
215	43.5	36.8	55.2

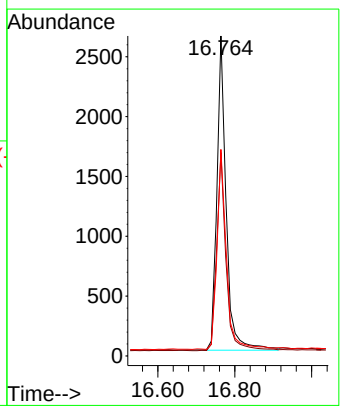


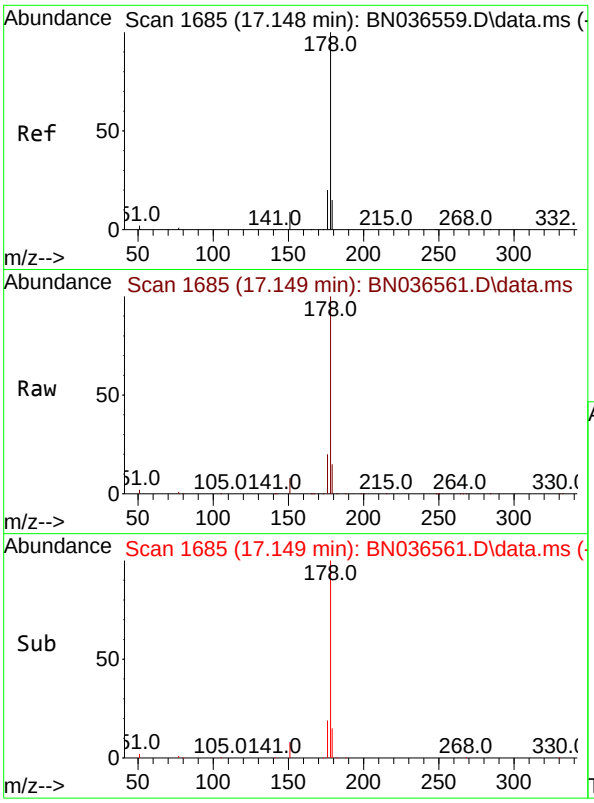


#24
Pentachlorophenol
Concen: 1.563 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:266 Resp: 4395

Ion	Ratio	Lower	Upper
266	100		
264	63.5	49.6	74.4
268	64.4	50.9	76.3



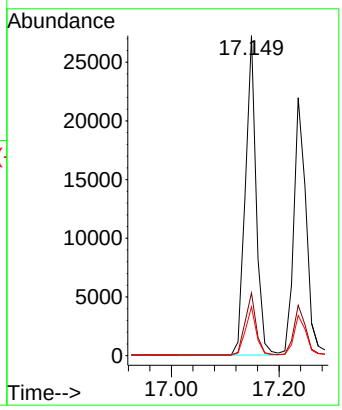


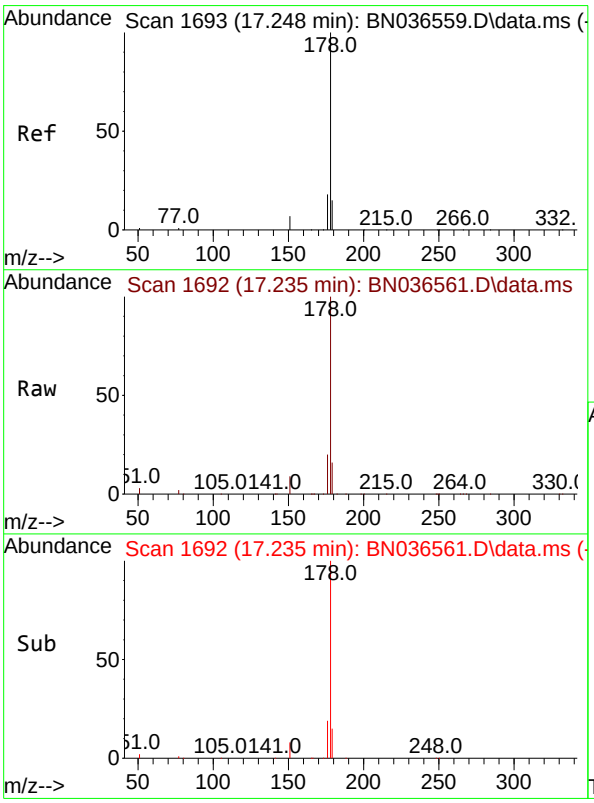
#25
Phenanthrene
Concen: 1.554 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 37989

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.1	12.2	18.4

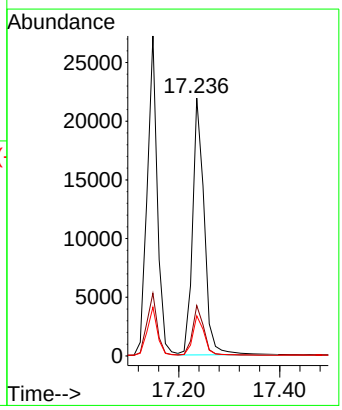


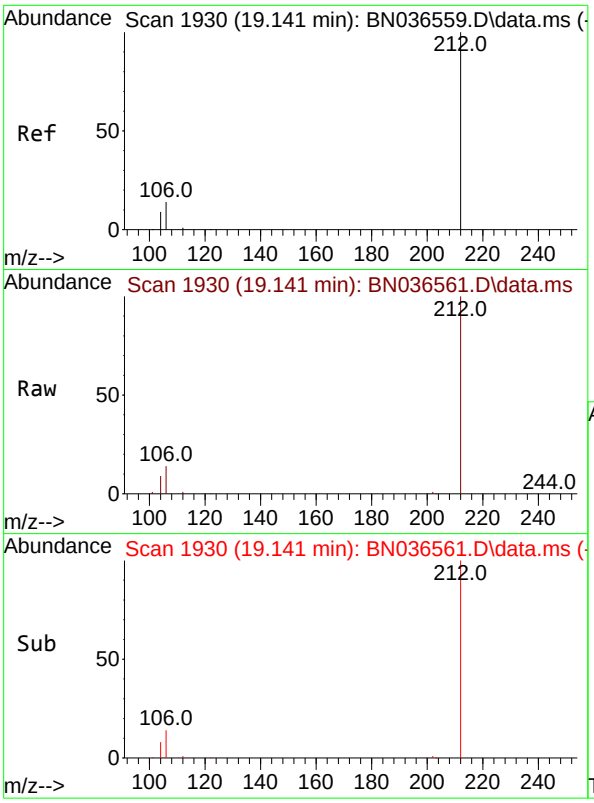


#26
Anthracene
Concen: 1.589 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:178 Resp: 35054

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.3	12.6	18.8



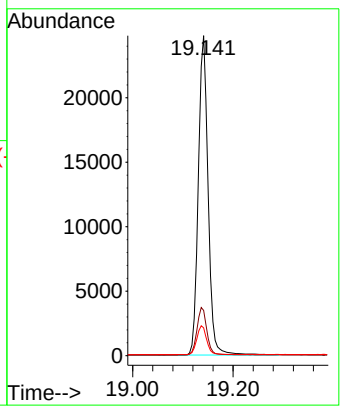


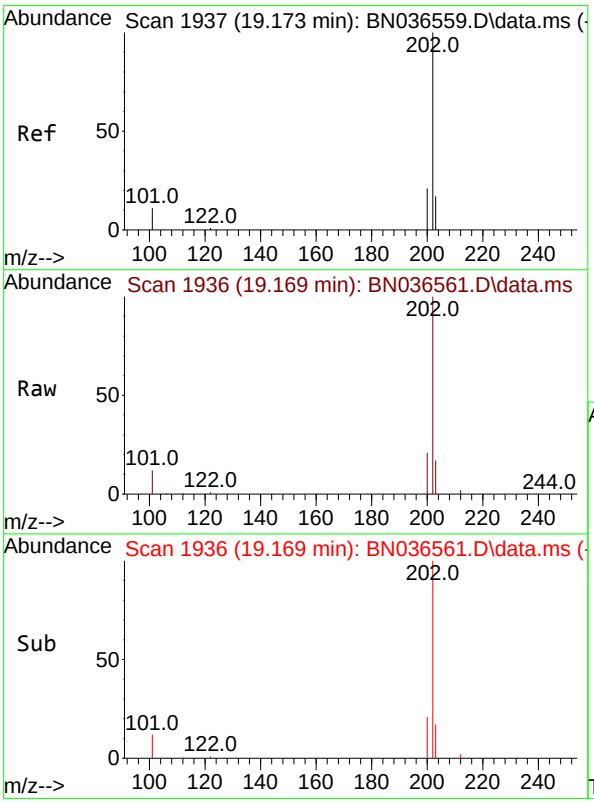
#27
Fluoranthene-d10
Concen: 1.600 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 33414

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.1	7.3	10.9

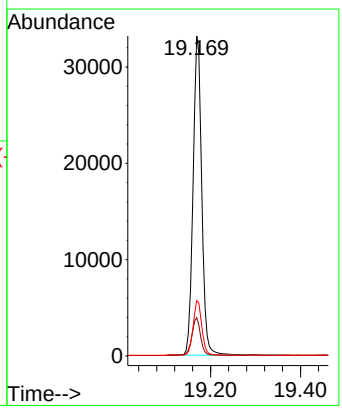


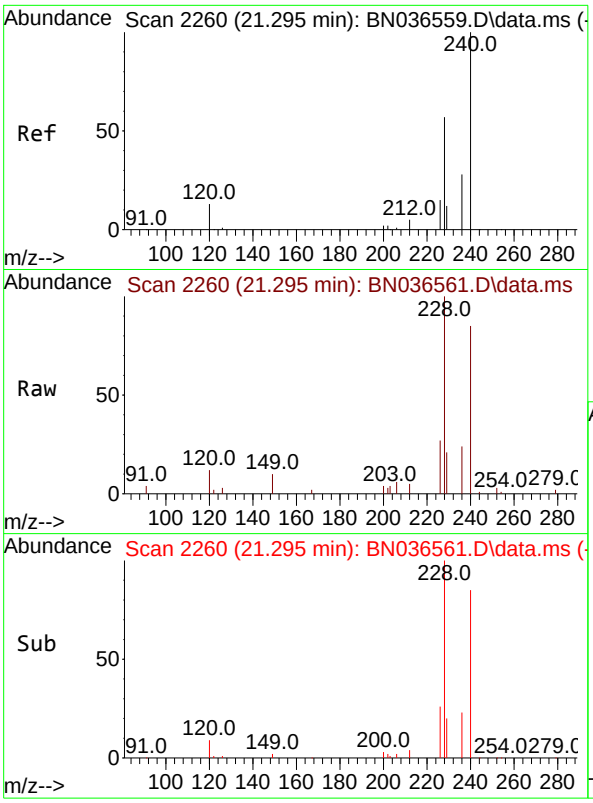


#28
Fluoranthene
Concen: 1.619 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:202 Resp: 44451

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.4	14.0
203	17.2	13.5	20.3



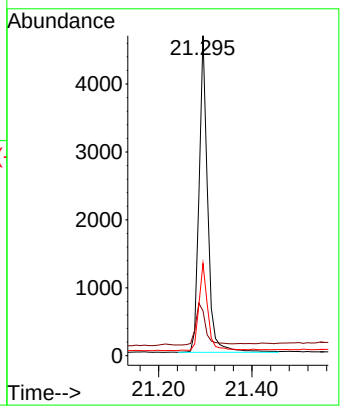


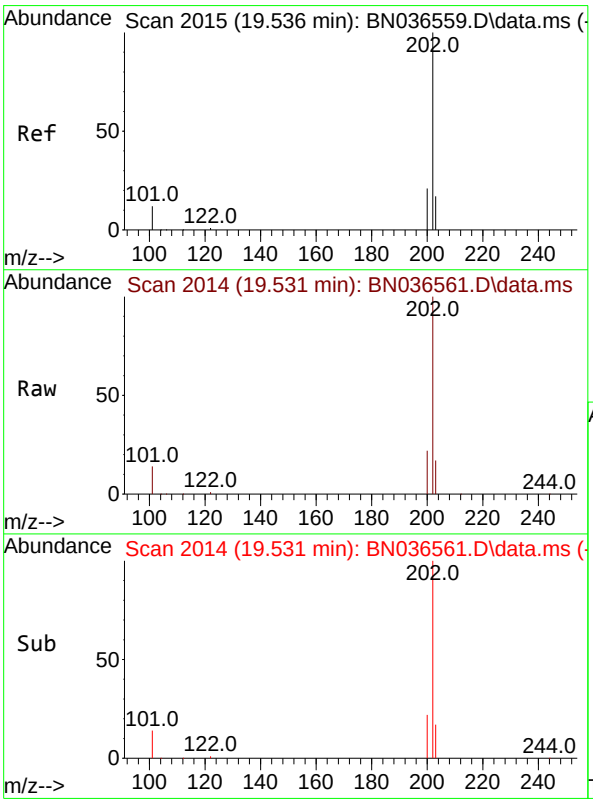
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 5977

Ion	Ratio	Lower	Upper
240	100		
120	14.0	14.6	22.0#
236	28.9	24.1	36.1

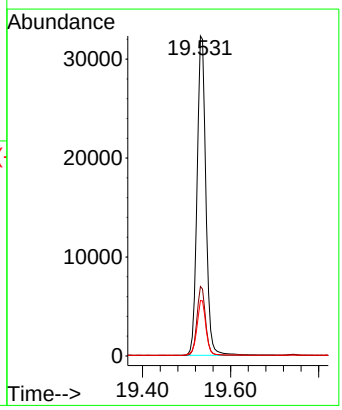


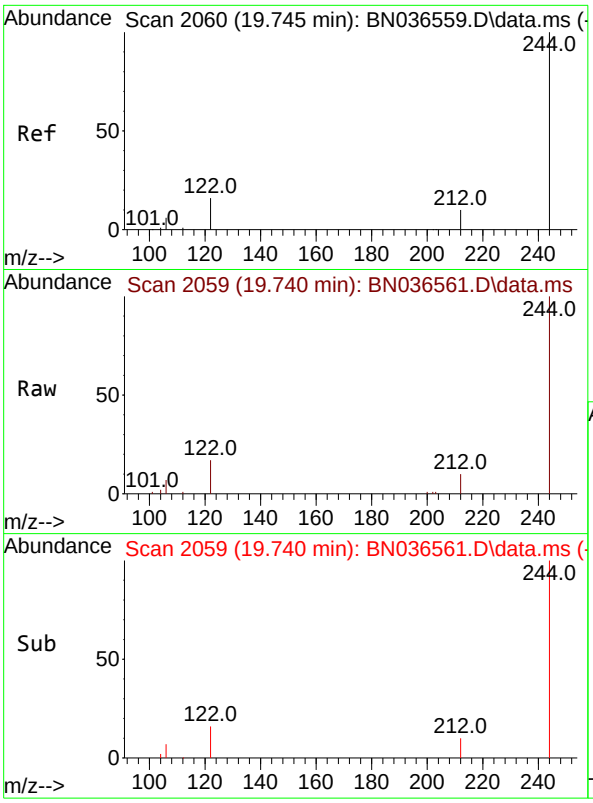


#30
Pyrene
Concen: 1.530 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:202 Resp: 44705

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.5	14.1	21.1



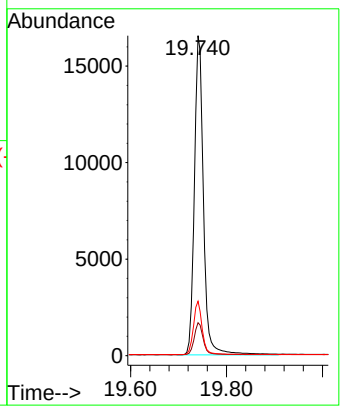


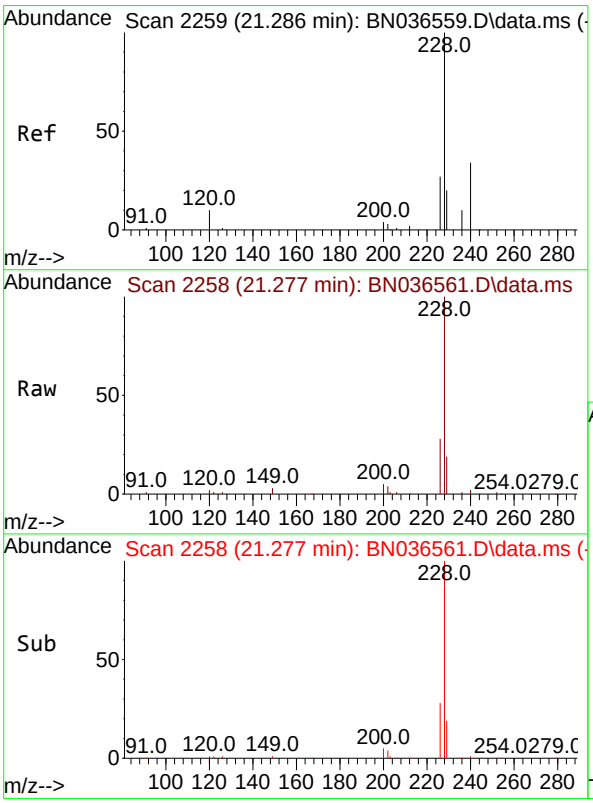
#31
Terphenyl-d14
Concen: 1.527 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 21872

Ion	Ratio	Lower	Upper
244	100		
212	10.3	9.6	14.4
122	17.0	13.9	20.9

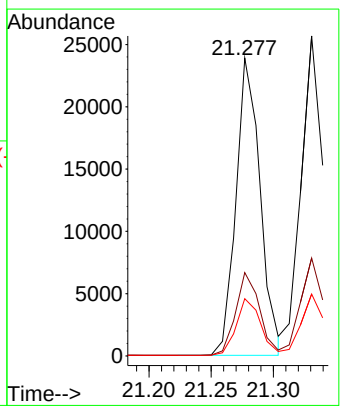


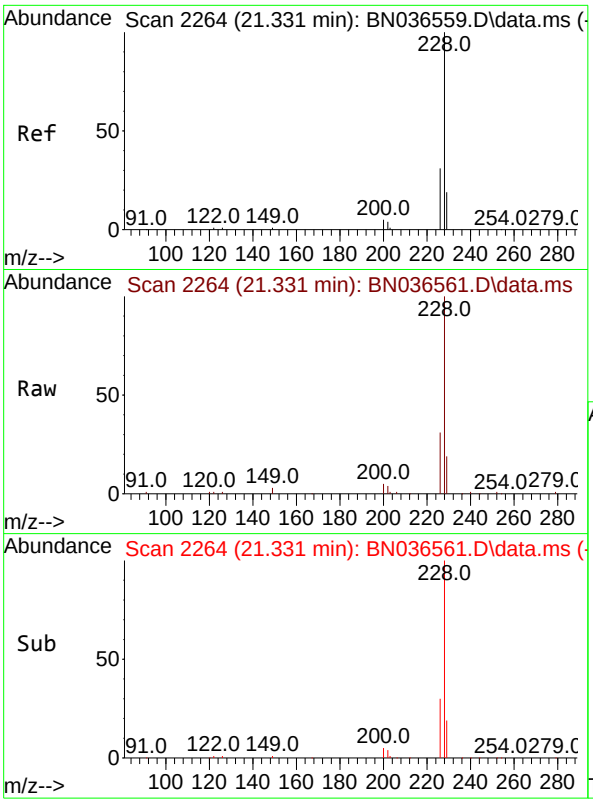


#32
Benzo(a)anthracene
Concen: 1.550 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:228 Resp: 32205

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	19.2	16.6	25.0



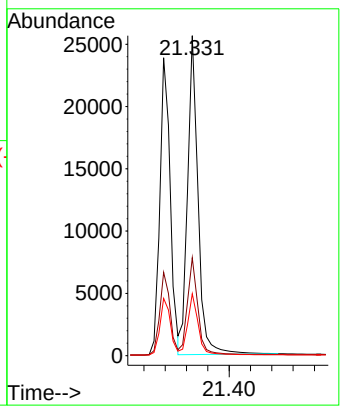


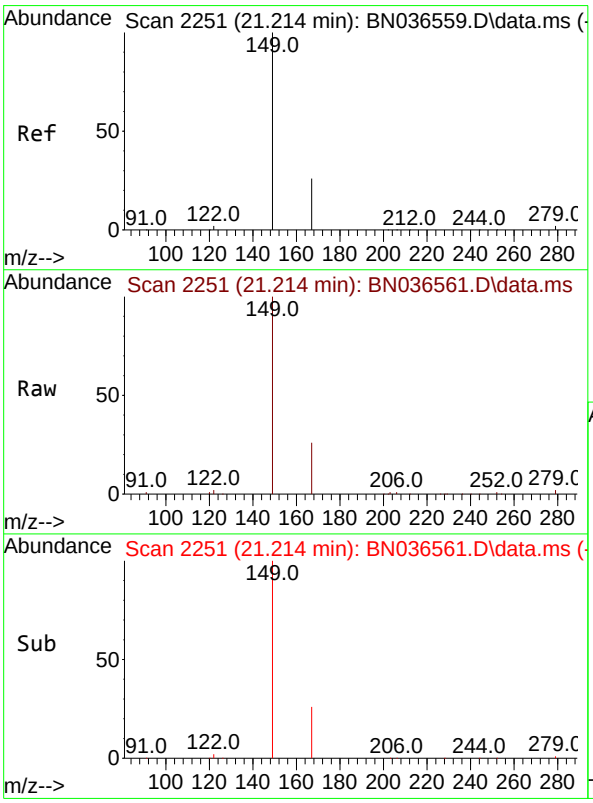
#33
Chrysene
Concen: 1.539 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 34953

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.3	37.9
229	19.3	15.8	23.8

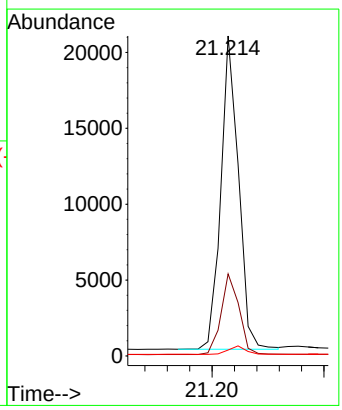


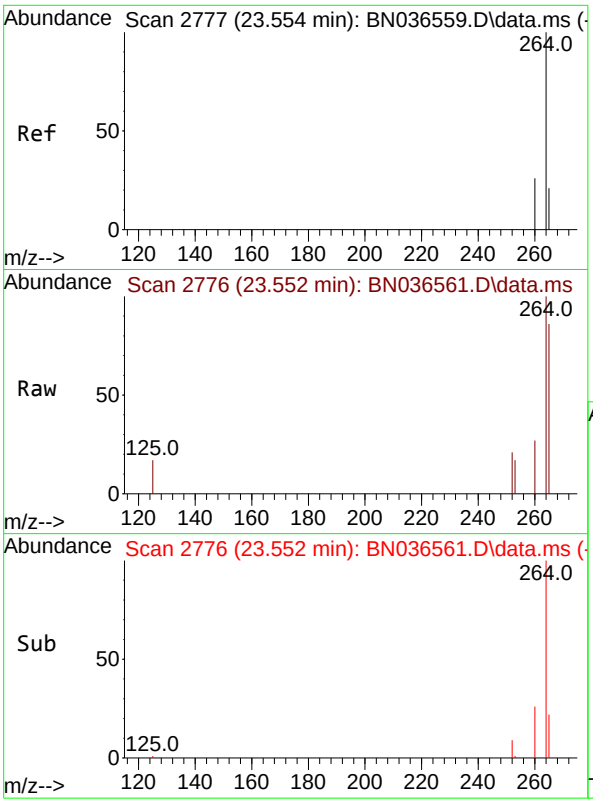


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.529 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:149 Resp: 22621

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.7	3.6	5.4#



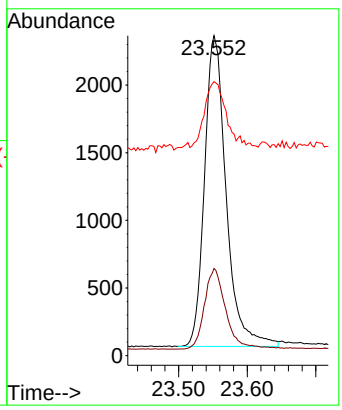


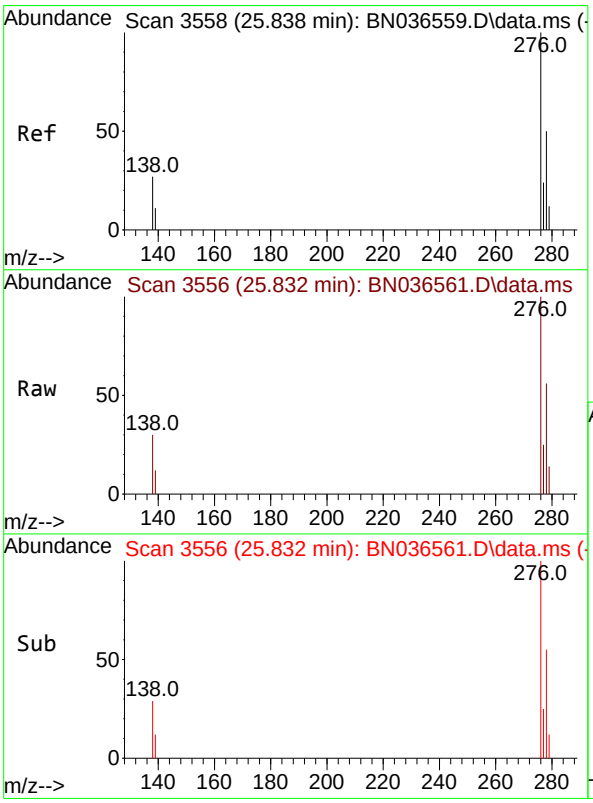
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.552 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 5048

Ion	Ratio	Lower	Upper
264	100		
260	27.2	22.6	33.8
265	85.7	88.1	132.1#

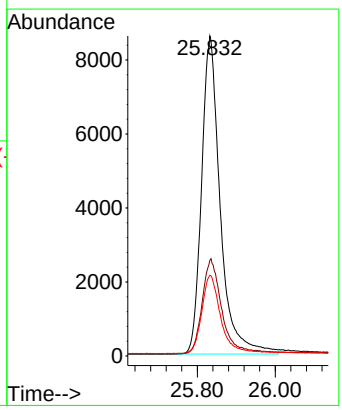


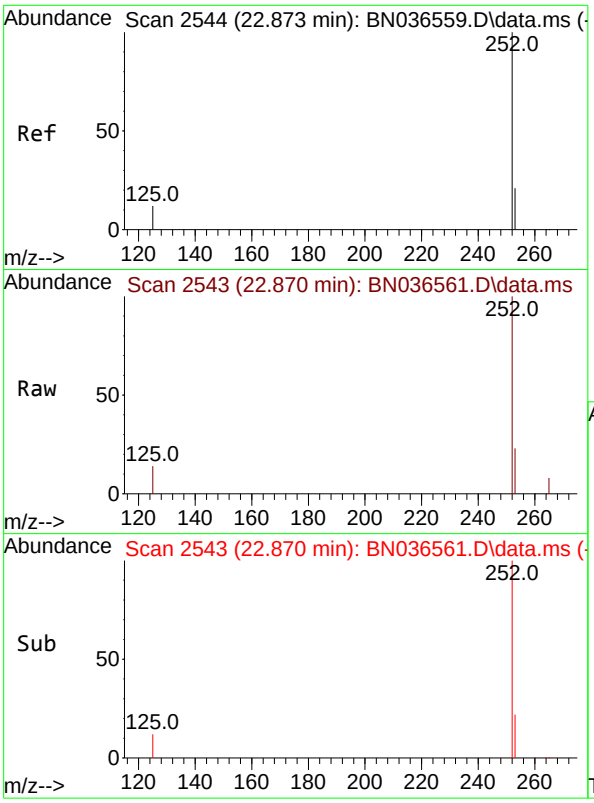


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.570 ng
RT: 25.832 min Scan# 3556
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:276 Resp: 28605

Ion	Ratio	Lower	Upper
276	100		
138	30.4	23.4	35.2
277	24.9	20.0	30.0



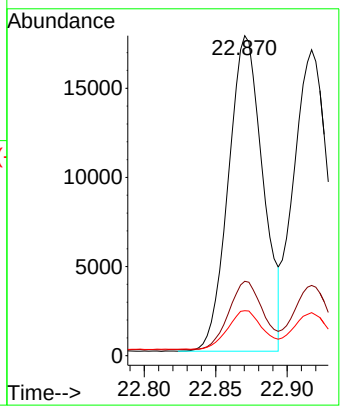


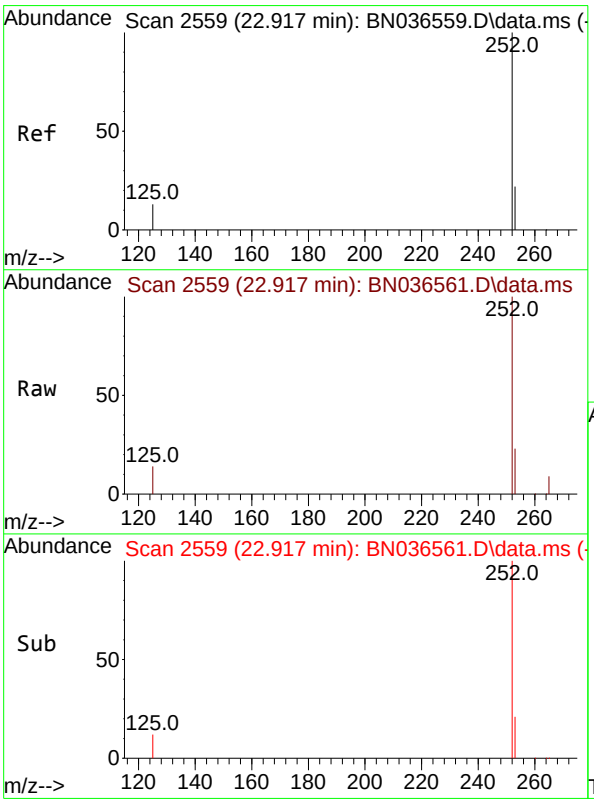
#37
Benzo(b)fluoranthene
Concen: 1.623 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 29819

Ion	Ratio	Lower	Upper
252	100		
253	23.3	23.9	35.9#
125	14.0	17.4	26.2#

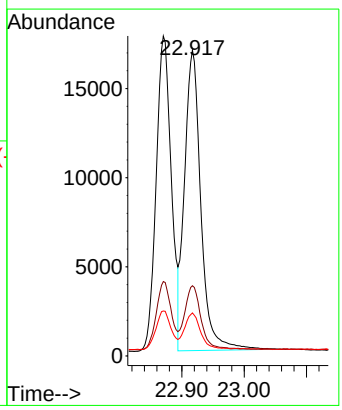


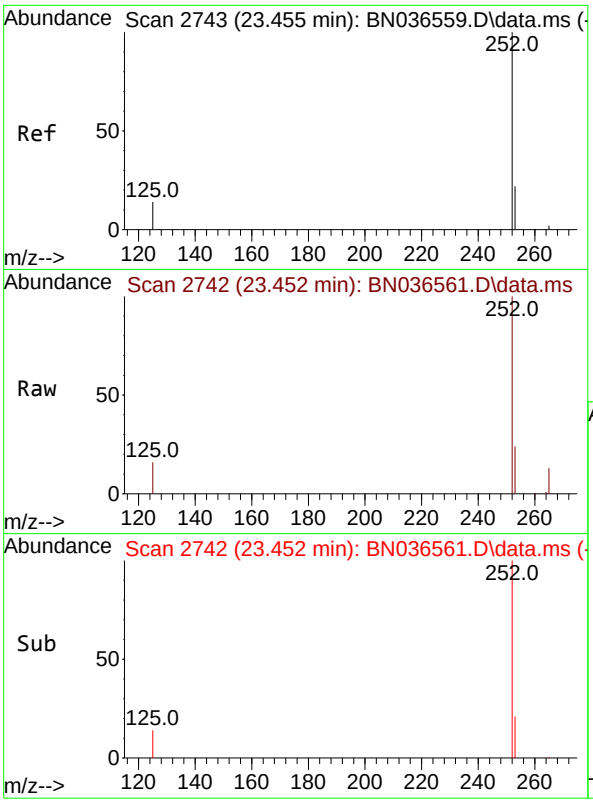


#38
Benzo(k)fluoranthene
Concen: 1.593 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:252 Resp: 30710

Ion	Ratio	Lower	Upper
252	100		
253	23.0	24.6	36.8#
125	14.1	17.8	26.8#



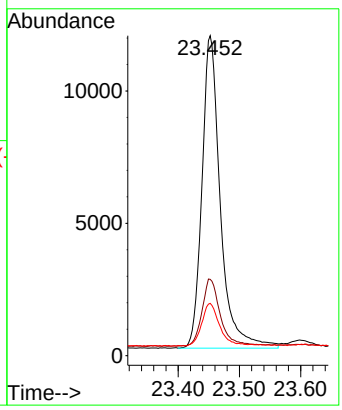


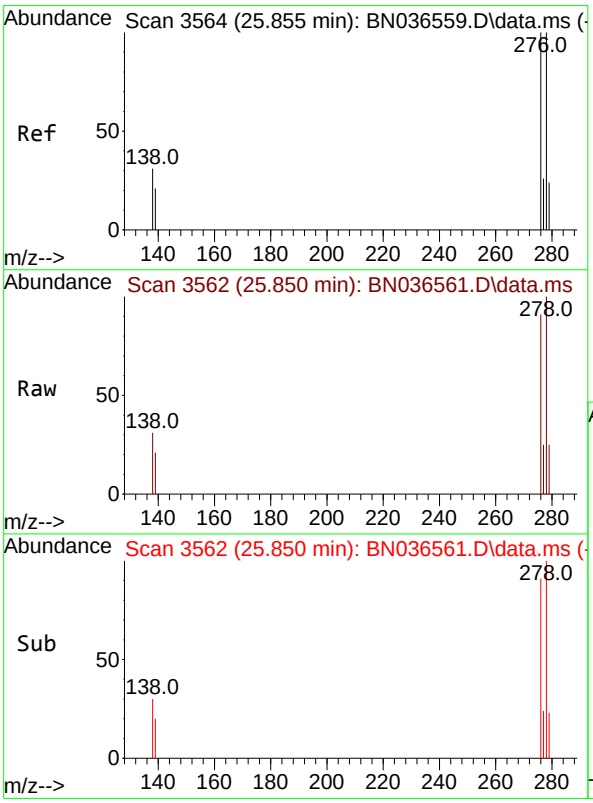
#39
Benzo(a)pyrene
Concen: 1.596 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 24696

Ion	Ratio	Lower	Upper
252	100		
253	23.9	27.8	41.8#
125	16.3	22.7	34.1#

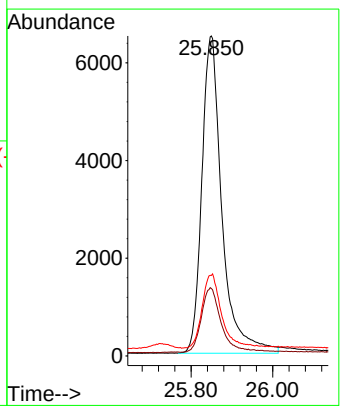


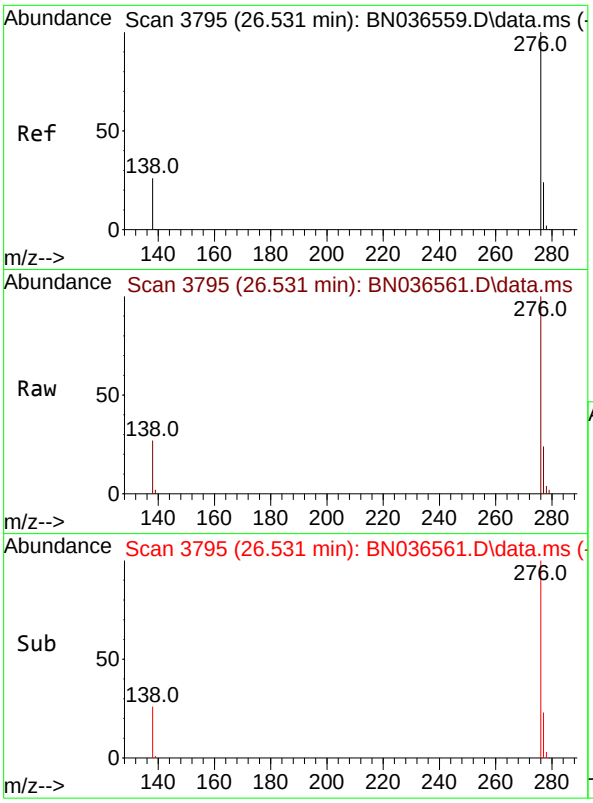


#40
Dibenzo(a,h)anthracene
Concen: 1.569 ng
RT: 25.850 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:278 Resp: 22248

Ion	Ratio	Lower	Upper
278	100		
139	21.1	20.8	31.2
279	25.1	28.8	43.2#



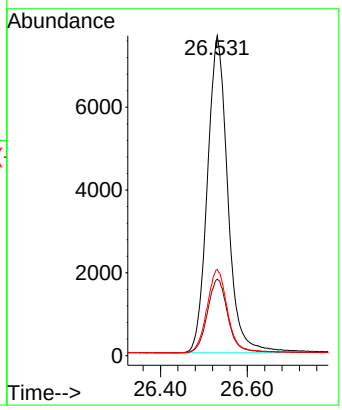


#41
Benzo(g,h,i)perylene
Concen: 1.535 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 24906

Ion	Ratio	Lower	Upper
276	100		
277	23.9	22.2	33.4
138	26.9	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036562.D
Acq On : 10 Mar 2025 14:43
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

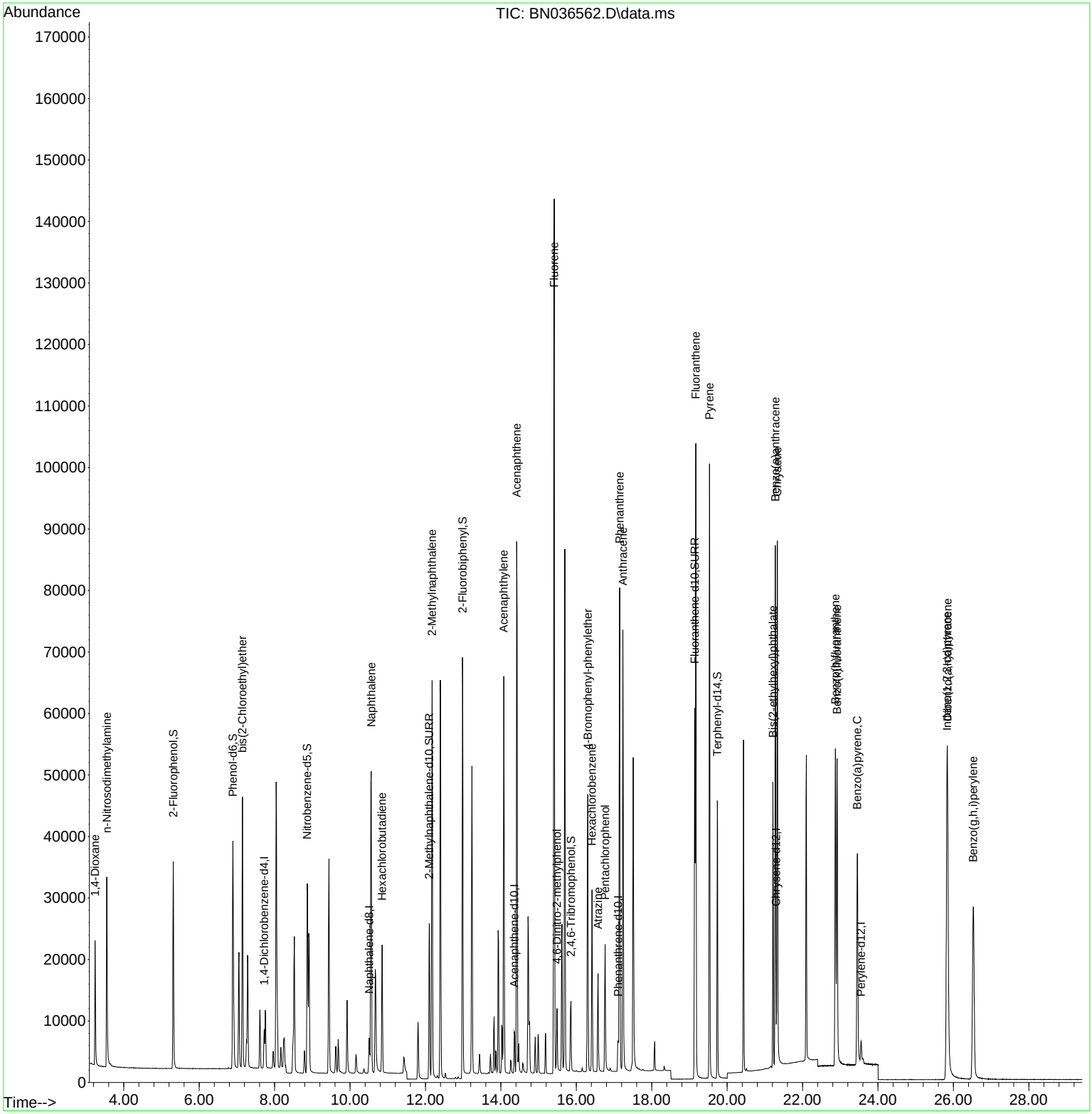
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2890	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6824	0.400	ng		0.00
13) Acenaphthene-d10	14.355	164	3957	0.400	ng		-0.01
19) Phenanthrene-d10	17.111	188	7488	0.400	ng		0.00
29) Chrysene-d12	21.295	240	5439	0.400	ng		0.00
35) Perylene-d12	23.551	264	5002	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	23032	3.420	ng		0.00
5) Phenol-d6	6.894	99	28996	3.485	ng		0.00
8) Nitrobenzene-d5	8.864	82	24586	3.312	ng		-0.01
11) 2-Methylnaphthalene-d10	12.101	152	34578	3.407	ng		-0.01
14) 2,4,6-Tribromophenol	15.858	330	6252	3.482	ng		0.00
15) 2-Fluorobiphenyl	12.983	172	81236	3.529	ng		0.00
27) Fluoranthene-d10	19.141	212	65134	3.394	ng		0.00
31) Terphenyl-d14	19.740	244	42959	3.297	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	10288	3.209	ng		97
3) n-Nitrosodimethylamine	3.550	42	20412	3.147	ng	#	96
6) bis(2-Chloroethyl)ether	7.146	93	27978	3.253	ng		99
9) Naphthalene	10.562	128	66694	3.323	ng		96
10) Hexachlorobutadiene	10.850	225	15618	3.305	ng	#	99
12) 2-Methylnaphthalene	12.177	142	43768	3.427	ng		97
16) Acenaphthylene	14.077	152	65654	3.516	ng		99
17) Acenaphthene	14.420	154	42378	3.467	ng		97
18) Fluorene	15.414	166	56295	3.404	ng		100
20) 4,6-Dinitro-2-methylph...	15.489	198	6567	3.315	ng	#	58
21) 4-Bromophenyl-phenylether	16.304	248	16652	3.549	ng	#	82
22) Hexachlorobenzene	16.416	284	19287	3.406	ng		100
23) Atrazine	16.577	200	12969	3.448	ng	#	90
24) Pentachlorophenol	16.764	266	9625	3.726	ng		99
25) Phenanthrene	17.148	178	77903	3.468	ng		99
26) Anthracene	17.235	178	72775	3.590	ng		99
28) Fluoranthene	19.169	202	86688	3.436	ng		99
30) Pyrene	19.531	202	86694	3.260	ng		100
32) Benzo(a)anthracene	21.277	228	66496	3.516	ng		99
33) Chrysene	21.331	228	70334	3.403	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	39682	2.947	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.829	276	67767	3.754	ng		98
37) Benzo(b)fluoranthene	22.870	252	63823	3.506	ng	#	84
38) Benzo(k)fluoranthene	22.914	252	65410	3.425	ng	#	83
39) Benzo(a)pyrene	23.452	252	54009	3.523	ng	#	77
40) Dibenzo(a,h)anthracene	25.843	278	54058	3.846	ng	#	84
41) Benzo(g,h,i)perylene	26.528	276	57986	3.606	ng		94

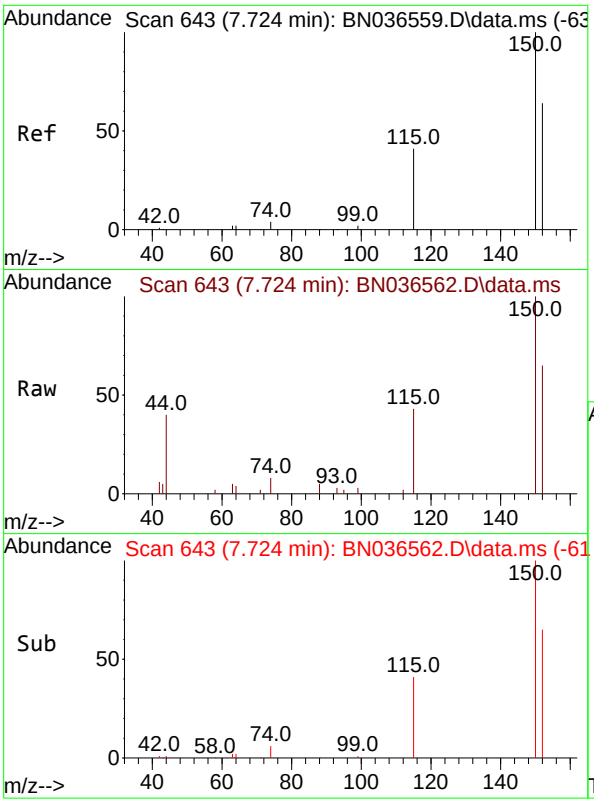
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036562.D
Acq On : 10 Mar 2025 14:43
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



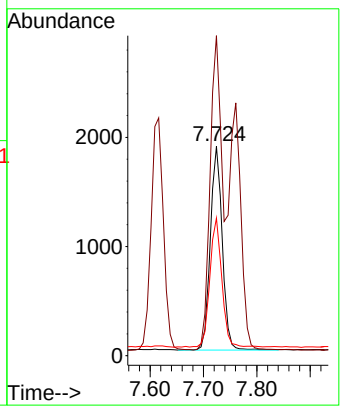


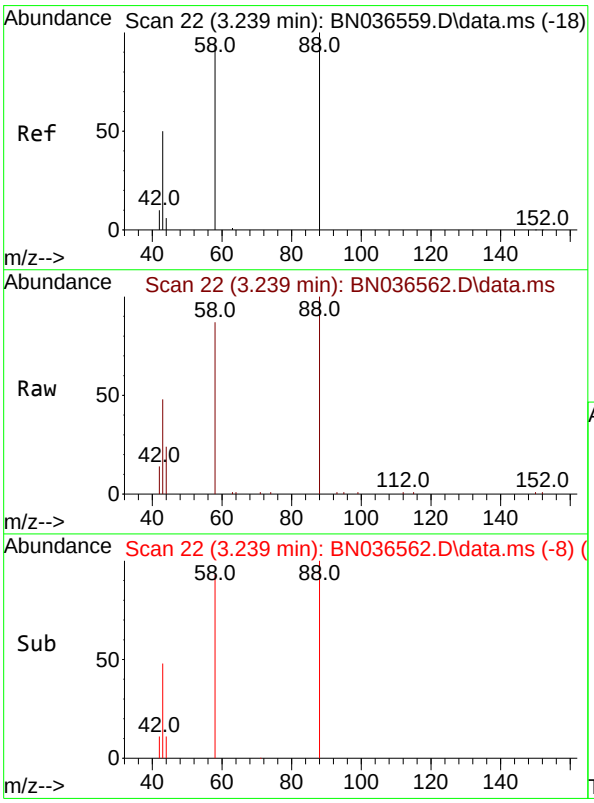
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2890

Ion	Ratio	Lower	Upper
152	100		
150	152.9	123.7	185.5
115	65.7	54.3	81.5

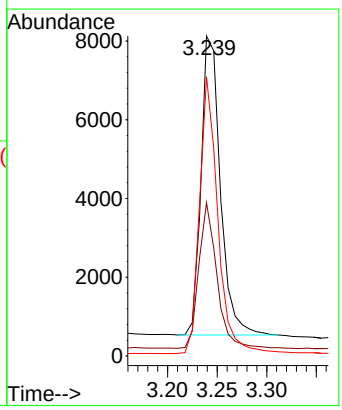


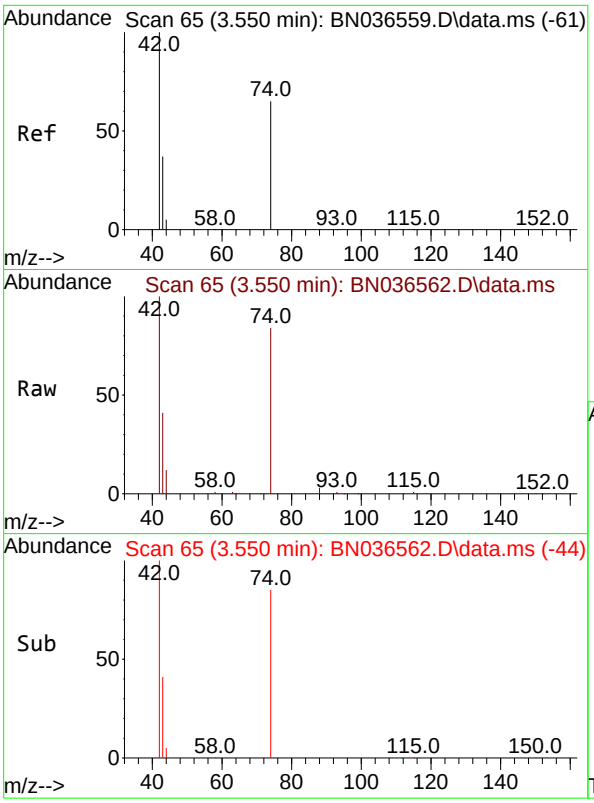


#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 88 Resp: 10288

Ion	Ratio	Lower	Upper
88	100		
43	45.2	37.8	56.8
58	87.2	67.4	101.2



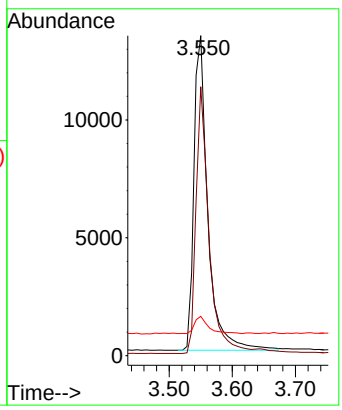


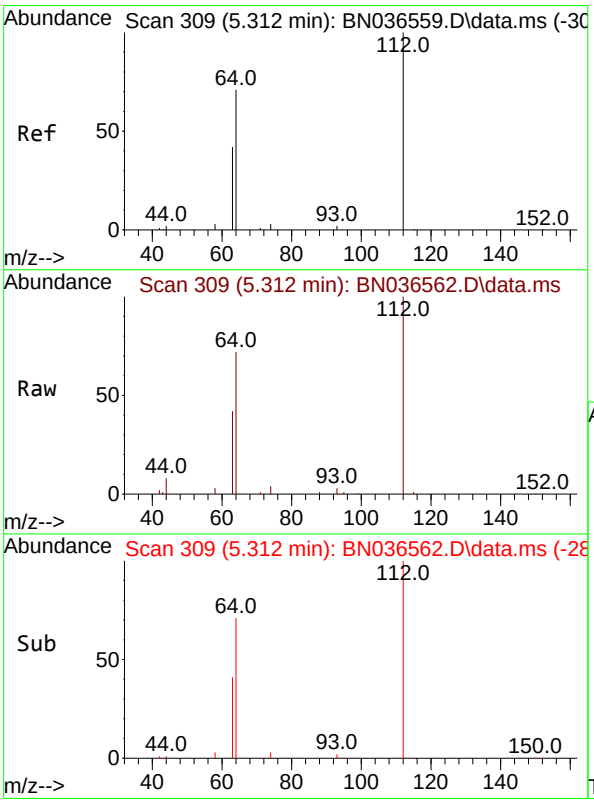
#3
n-Nitrosodimethylamine
Concen: 3.147 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 20412

Ion	Ratio	Lower	Upper
42	100		
74	78.8	60.6	90.8
44	5.5	6.3	9.5#

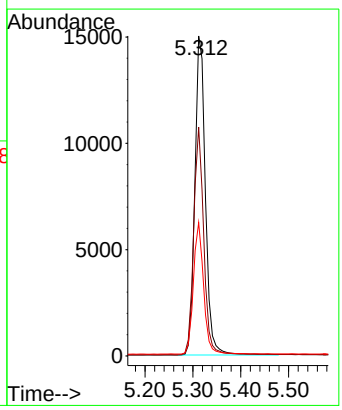


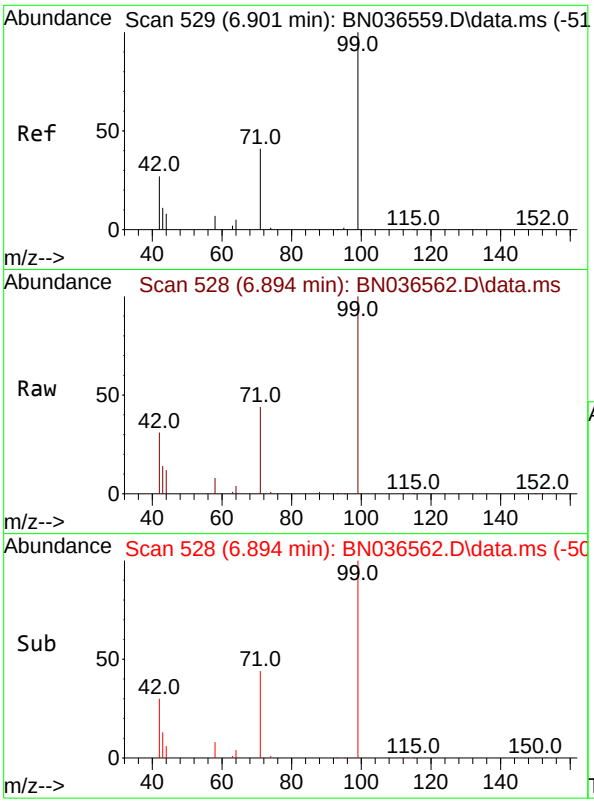


#4
2-Fluorophenol
Concen: 3.420 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:112 Resp: 23032

Ion	Ratio	Lower	Upper
112	100		
64	68.4	53.1	79.7
63	39.8	31.8	47.8



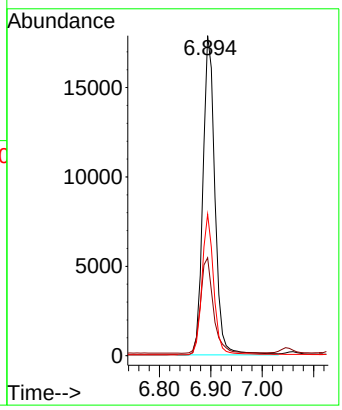


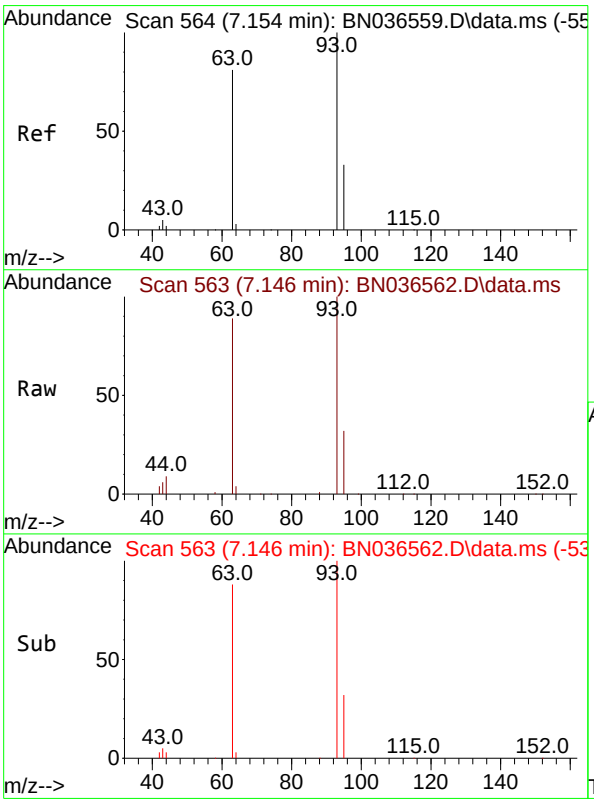
#5
Phenol-d6
Concen: 3.485 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 28996

Ion	Ratio	Lower	Upper
99	100		
42	32.3	26.5	39.7
71	43.2	34.1	51.1

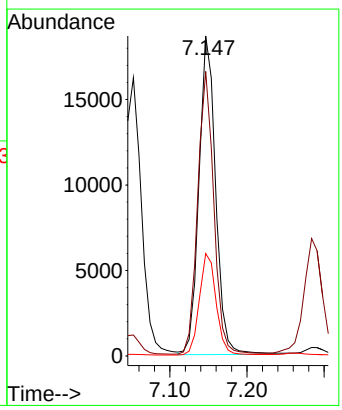


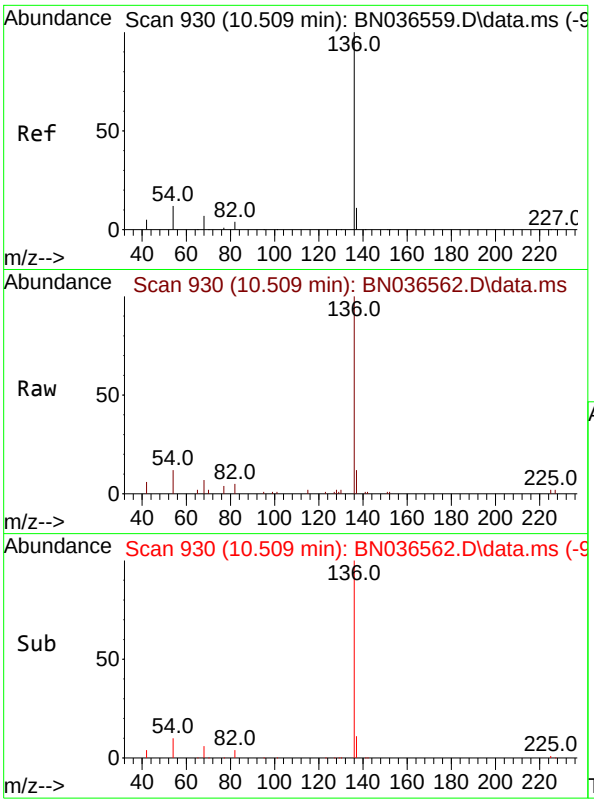


#6
bis(2-Chloroethyl)ether
Concen: 3.253 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 93 Resp: 27978

Ion	Ratio	Lower	Upper
93	100		
63	85.7	67.7	101.5
95	32.0	25.6	38.4



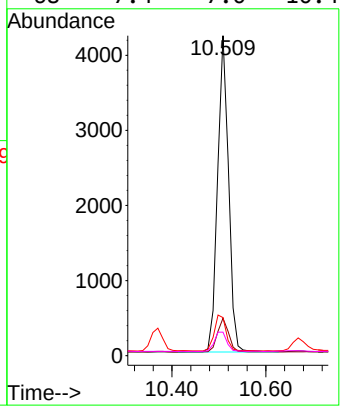


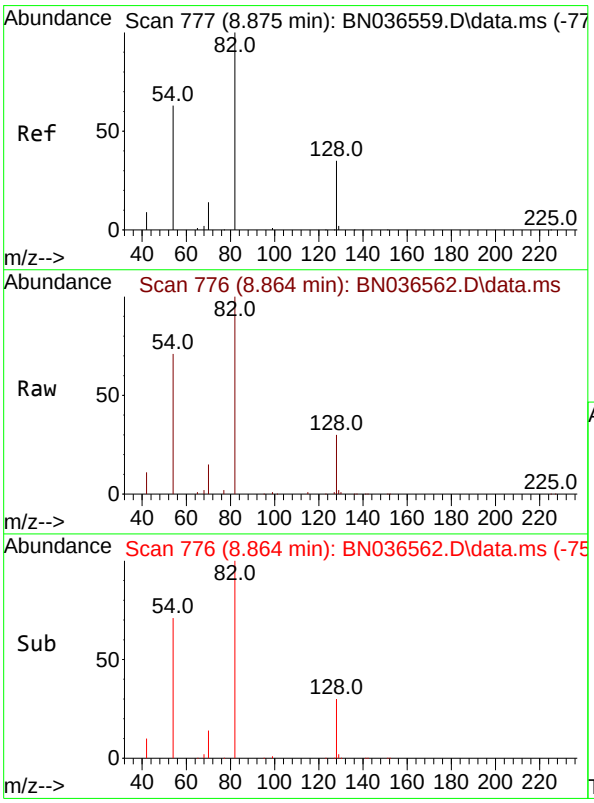
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 6824

Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.3	15.5
54	11.9	11.5	17.3
68	7.4	7.0	10.4

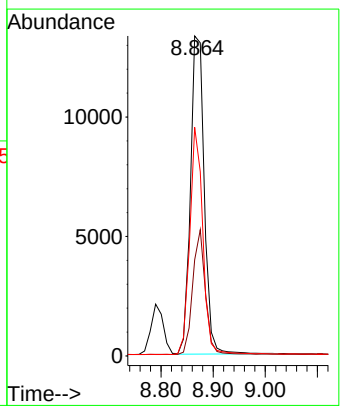


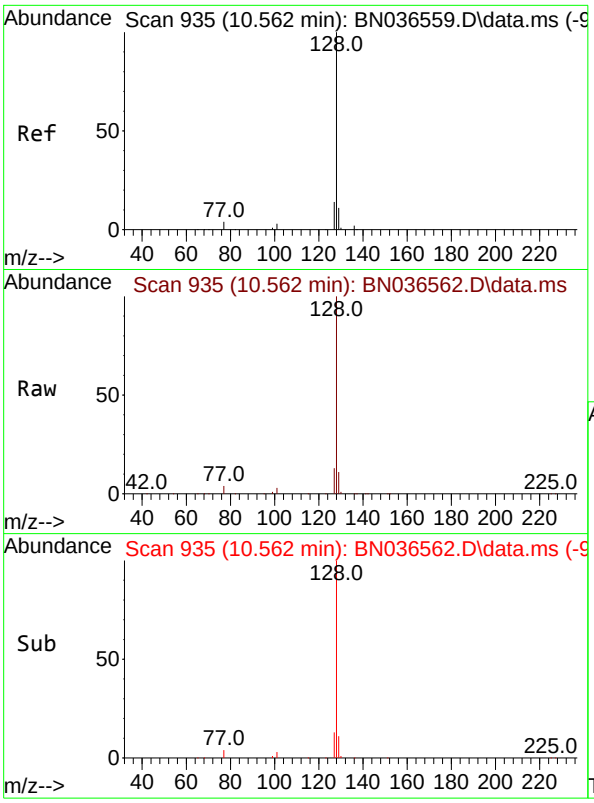


#8
Nitrobenzene-d5
Concen: 3.312 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 82 Resp: 24586

Ion	Ratio	Lower	Upper
82	100		
128	30.0	30.6	45.8#
54	71.4	52.2	78.4



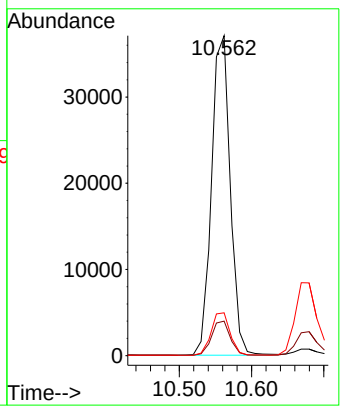


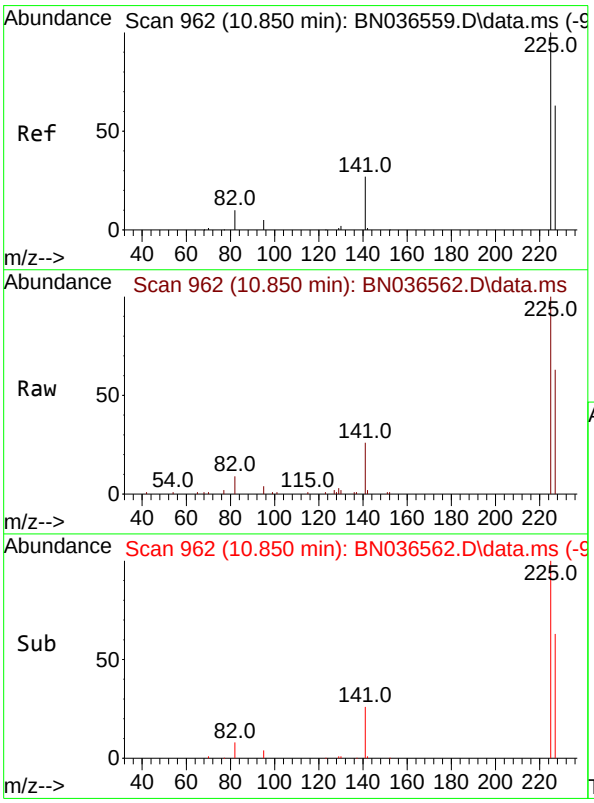
#9
Naphthalene
Concen: 3.323 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 66694

Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.8	14.6
127	13.4	11.8	17.8

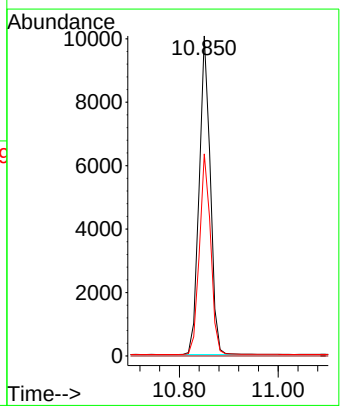


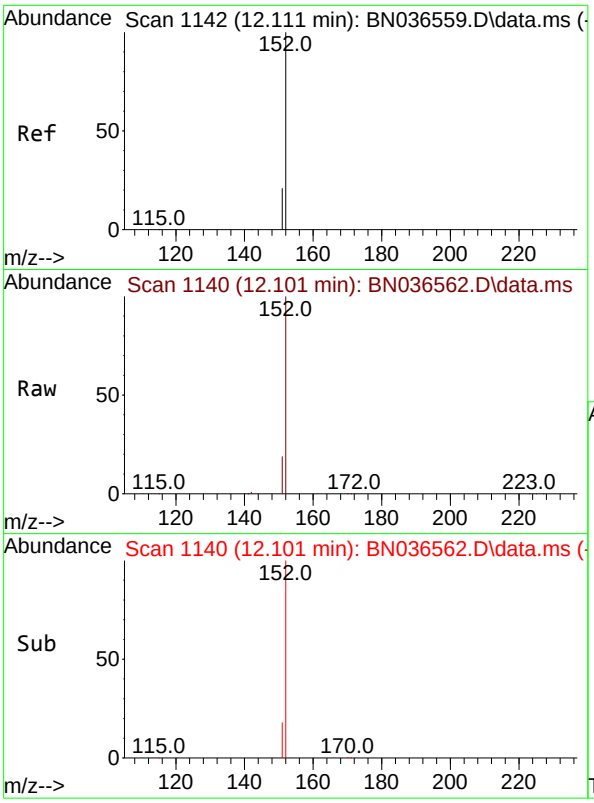


#10
Hexachlorobutadiene
Concen: 3.305 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:225 Resp: 15618

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.8	77.8



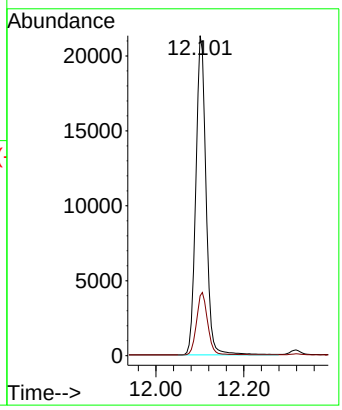


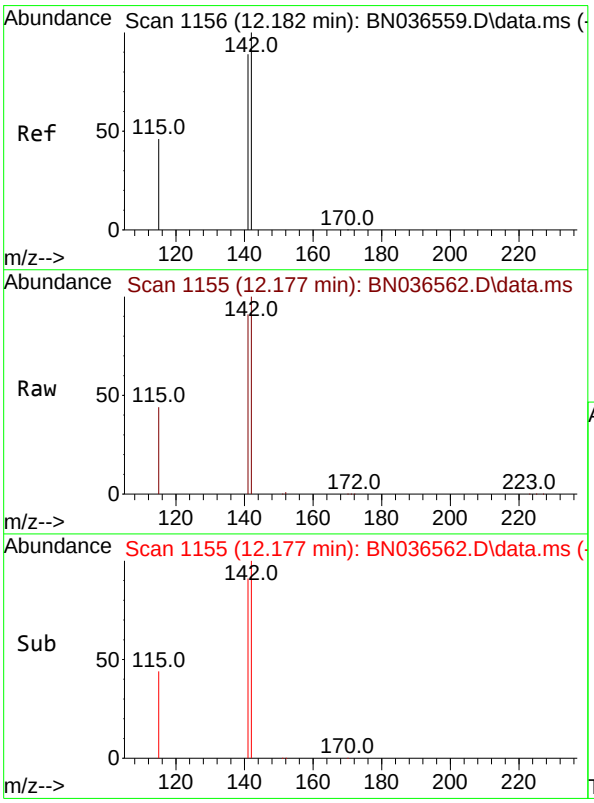
#11
2-Methylnaphthalene-d10
Concen: 3.407 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 34578

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

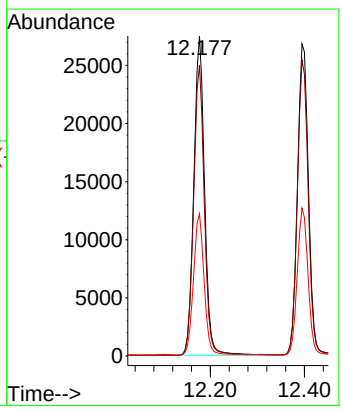


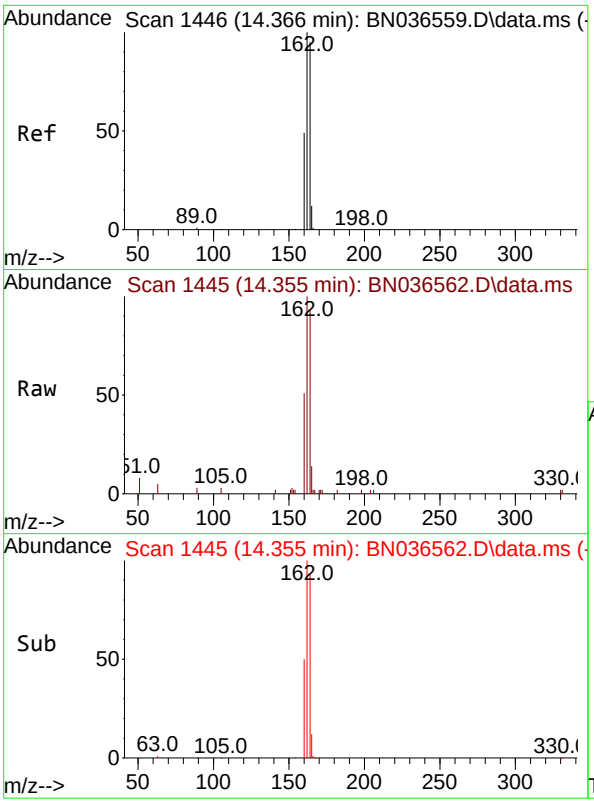


#12
2-Methylnaphthalene
Concen: 3.427 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:142 Resp: 43768

Ion	Ratio	Lower	Upper
142	100		
141	90.9	71.7	107.5
115	44.5	38.3	57.5



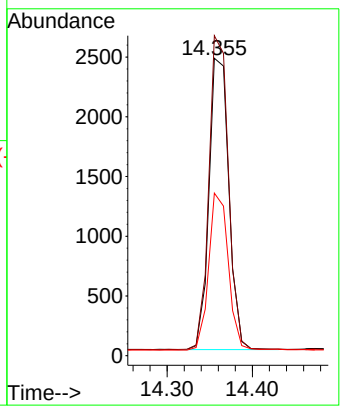


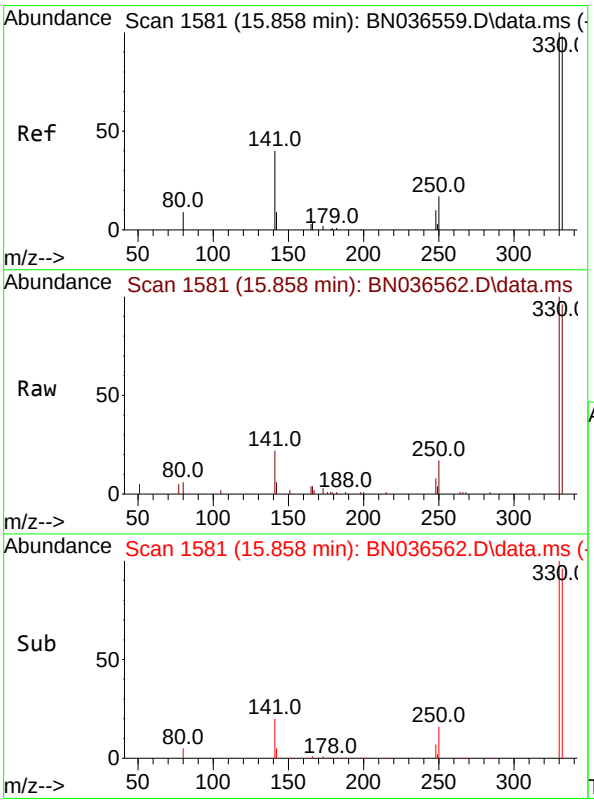
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 3957

Ion	Ratio	Lower	Upper
164	100		
162	107.6	84.2	126.2
160	54.7	42.2	63.2

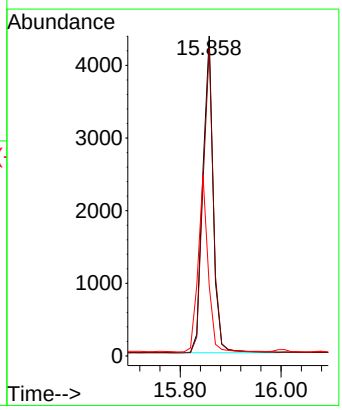


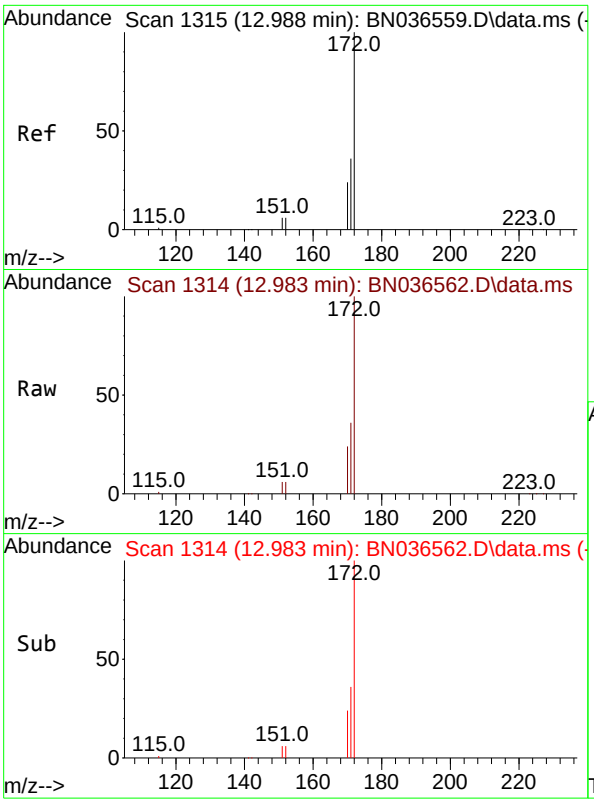


#14
2,4,6-Tribromophenol
Concen: 3.482 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:330 Resp: 6252

Ion	Ratio	Lower	Upper
330	100		
332	96.1	75.2	112.8
141	53.7	43.4	65.2



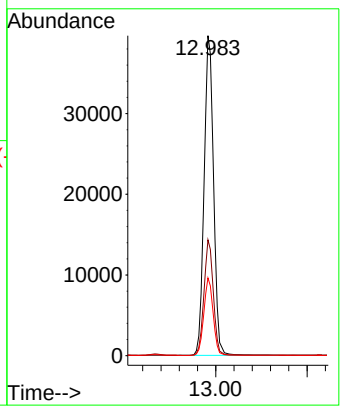


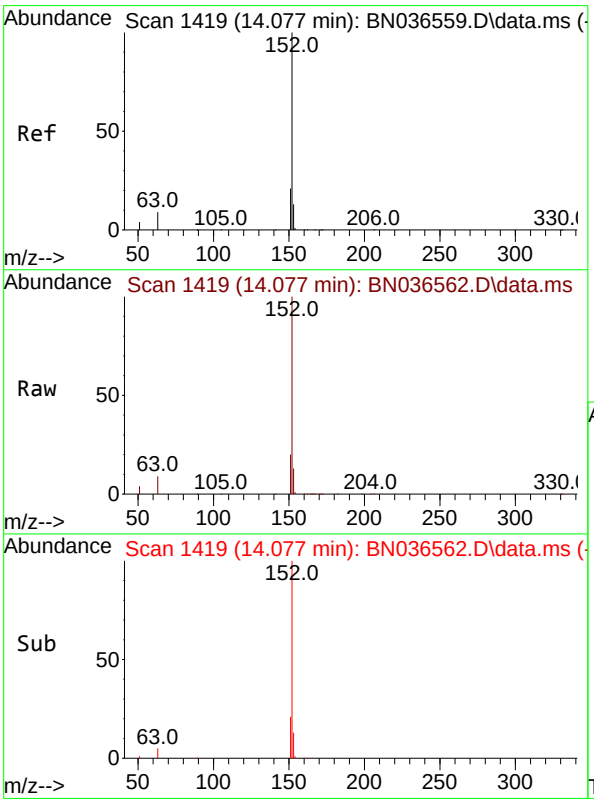
#15
2-Fluorobiphenyl
Concen: 3.529 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 81236

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	24.3	20.2	30.4

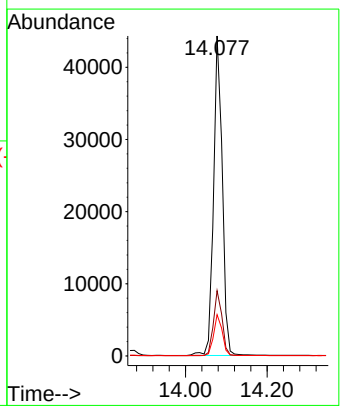


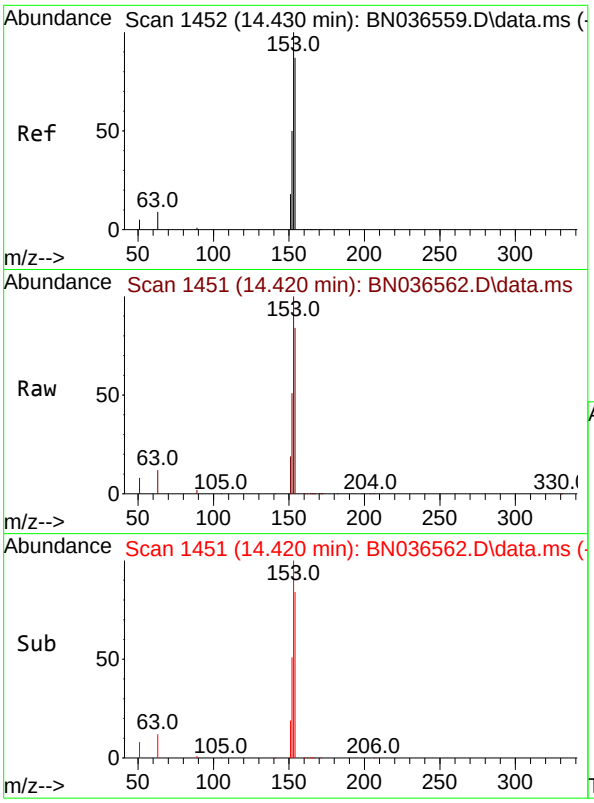


#16
Acenaphthylene
Concen: 3.516 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:152 Resp: 65654

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	12.8	10.6	15.8



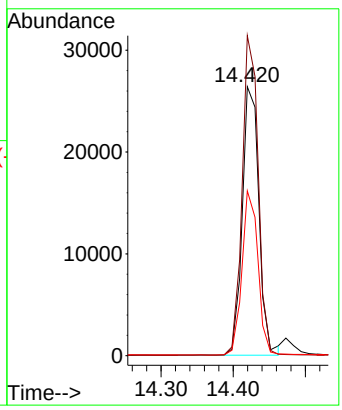


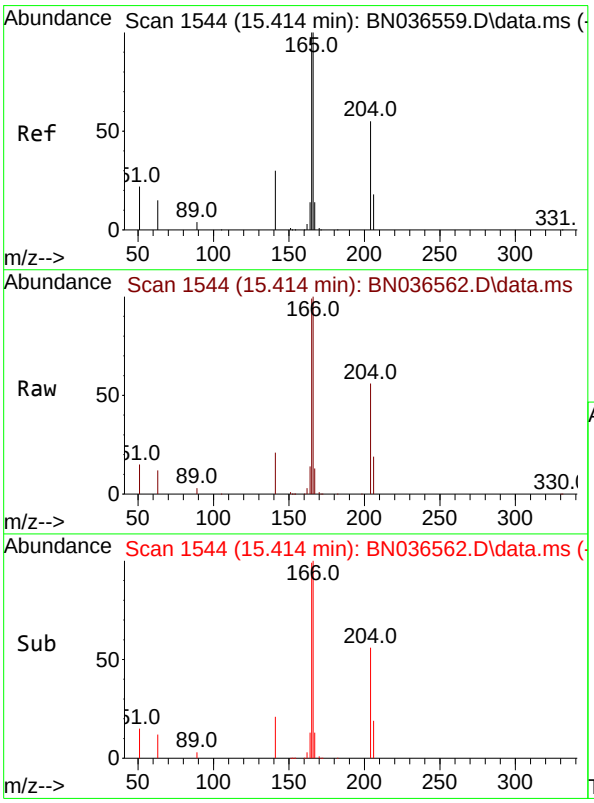
#17
Acenaphthene
Concen: 3.467 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 42378

Ion	Ratio	Lower	Upper
154	100		
153	114.6	94.1	141.1
152	58.9	49.8	74.6

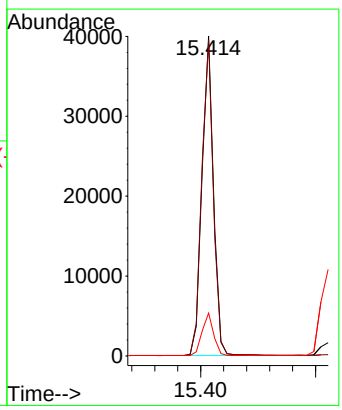


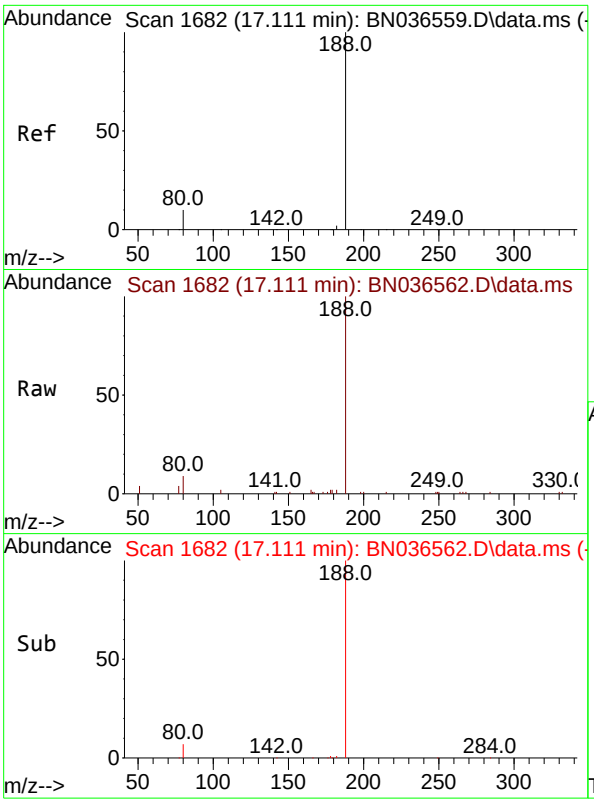


#18
Fluorene
Concen: 3.404 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:166 Resp: 56295

Ion	Ratio	Lower	Upper
166	100		
165	100.2	79.8	119.8
167	13.0	10.6	15.8



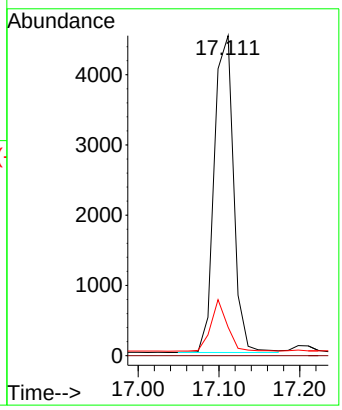


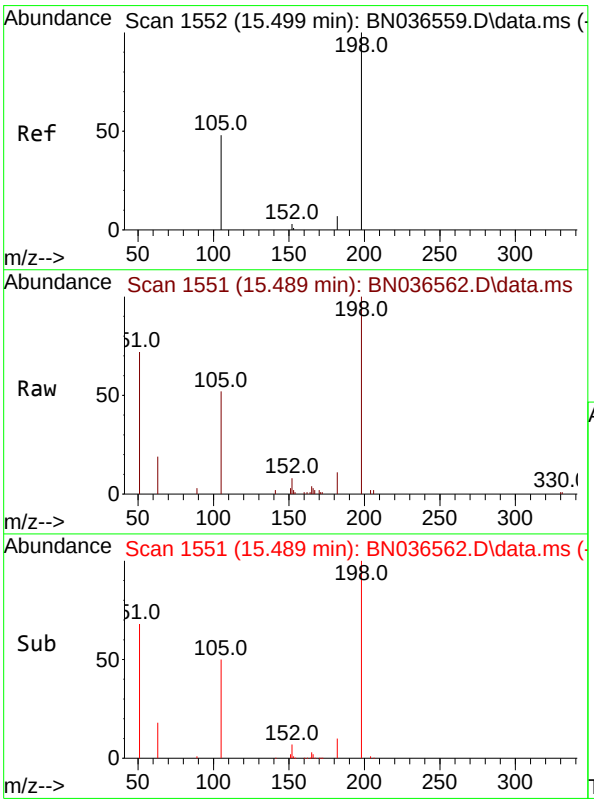
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 7488

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	8.8	13.2

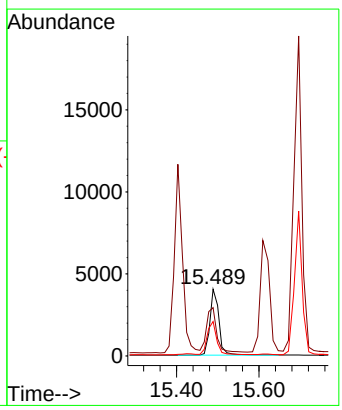


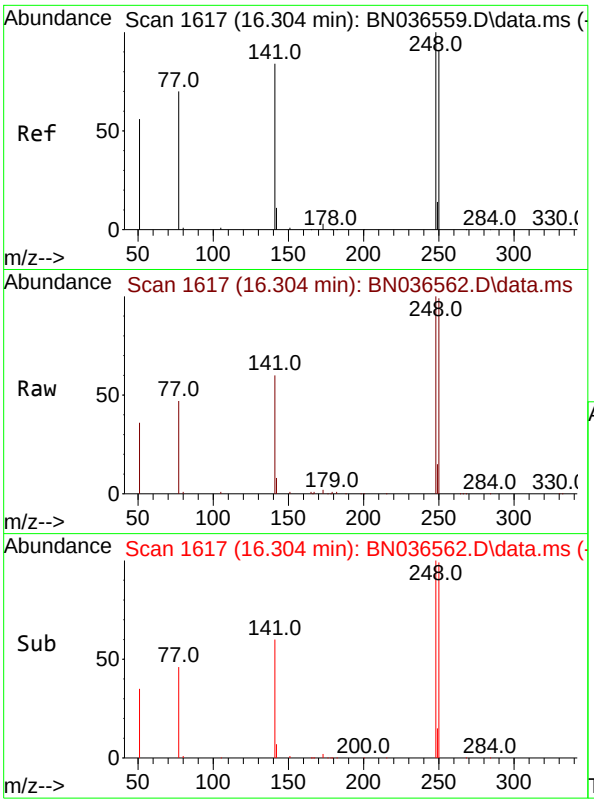


#20
4,6-Dinitro-2-methylphenol
Concen: 3.315 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:198 Resp: 6567

Ion	Ratio	Lower	Upper
198	100		
51	72.3	107.9	161.9#
105	51.5	56.2	84.2#



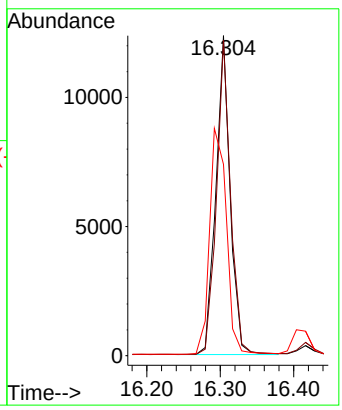


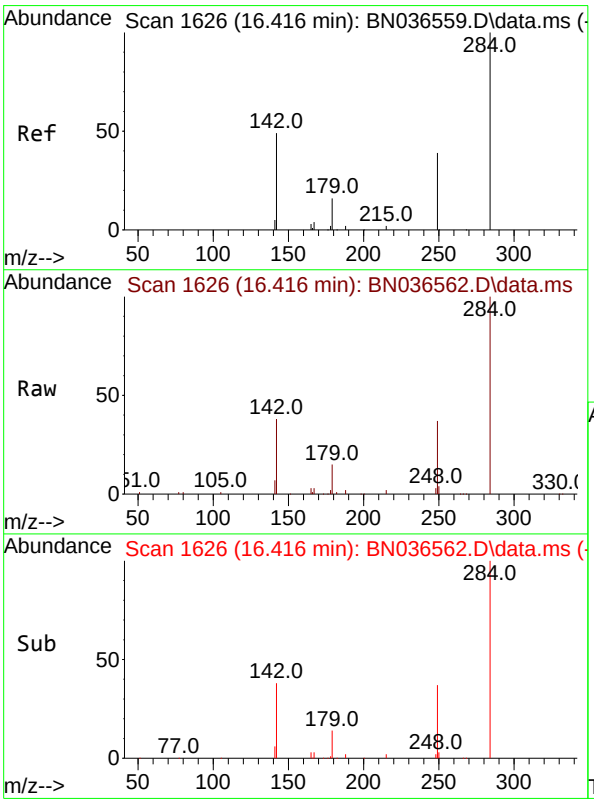
#21
4-Bromophenyl-phenylether
Concen: 3.549 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 16652

Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	59.8	68.6	103.0#

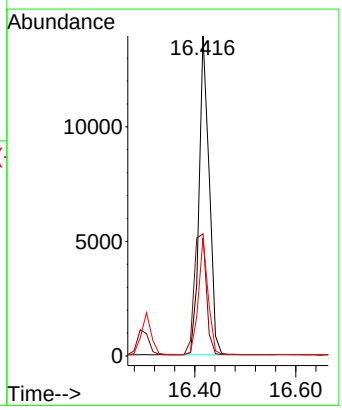


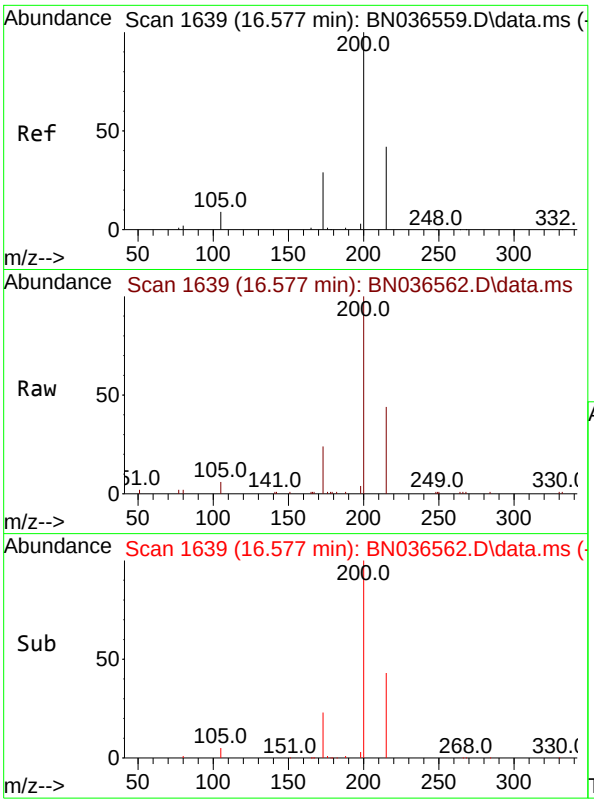


#22
Hexachlorobenzene
Concen: 3.406 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:284 Resp: 19287

Ion	Ratio	Lower	Upper
284	100		
142	46.2	37.0	55.4
249	35.5	28.1	42.1



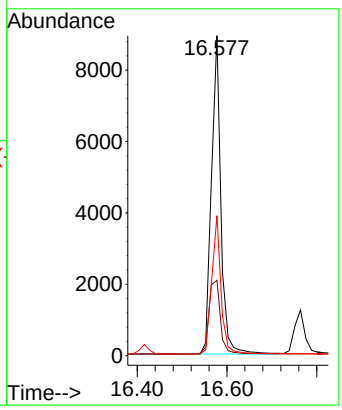


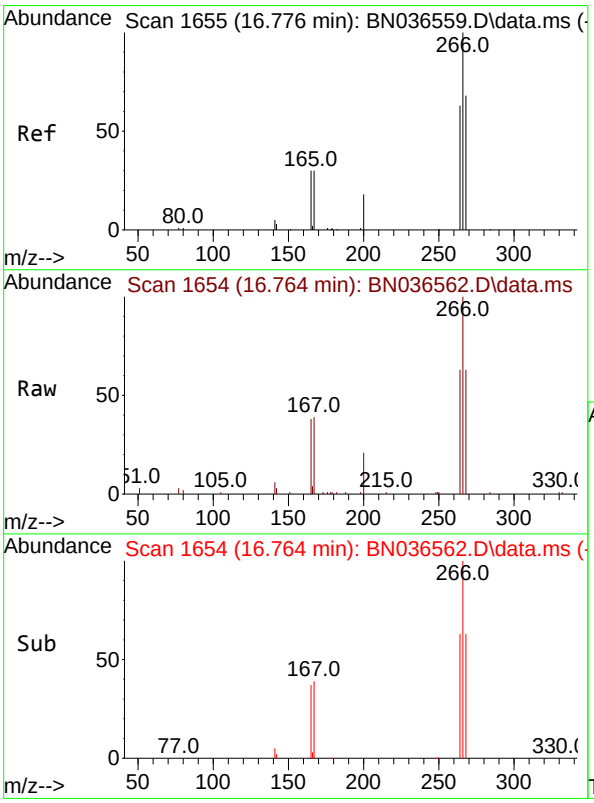
#23
Atrazine
Concen: 3.448 ng
RT: 16.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 12969

Ion	Ratio	Lower	Upper
200	100		
173	23.6	27.3	40.9#
215	43.7	36.8	55.2

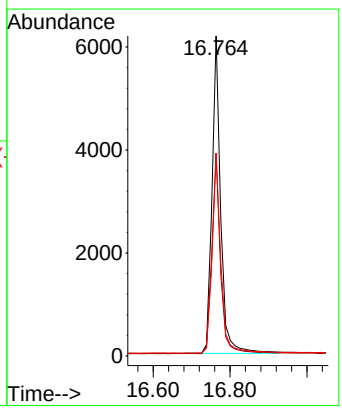


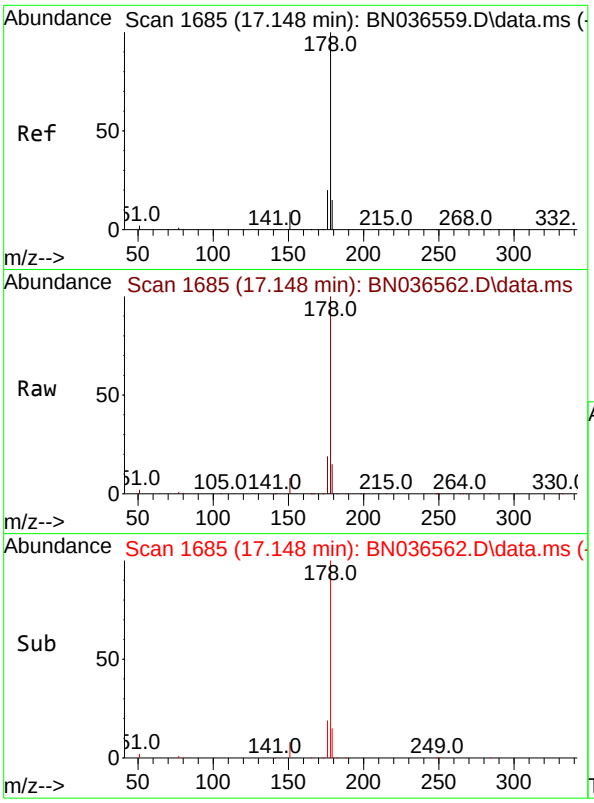


#24
Pentachlorophenol
Concen: 3.726 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:266 Resp: 9625

Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.1	50.9	76.3



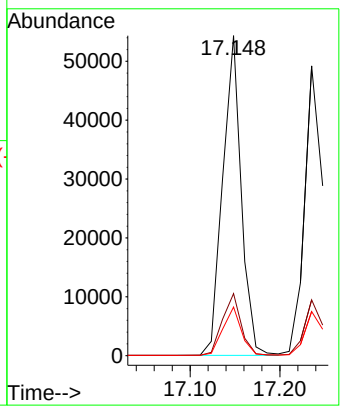


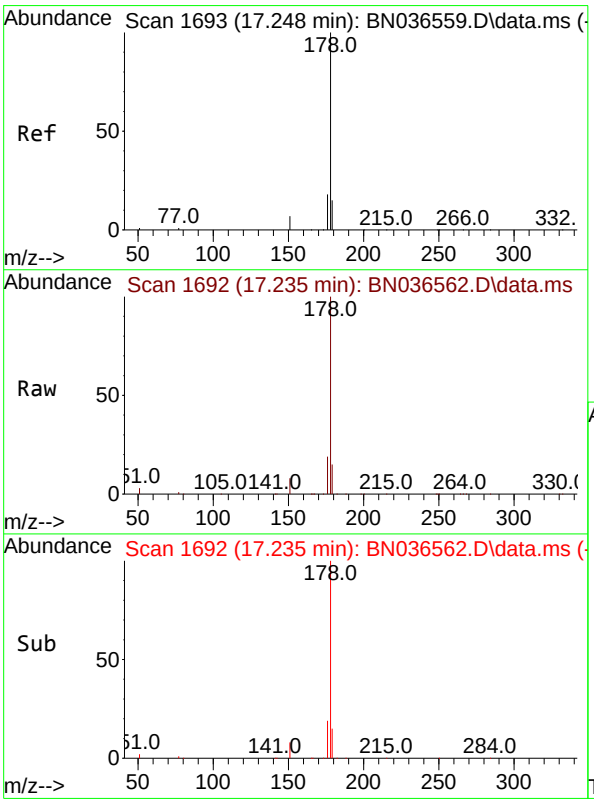
#25
Phenanthrene
Concen: 3.468 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 77903

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.9	23.9
179	15.1	12.2	18.4

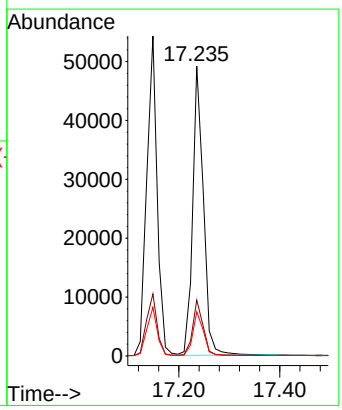


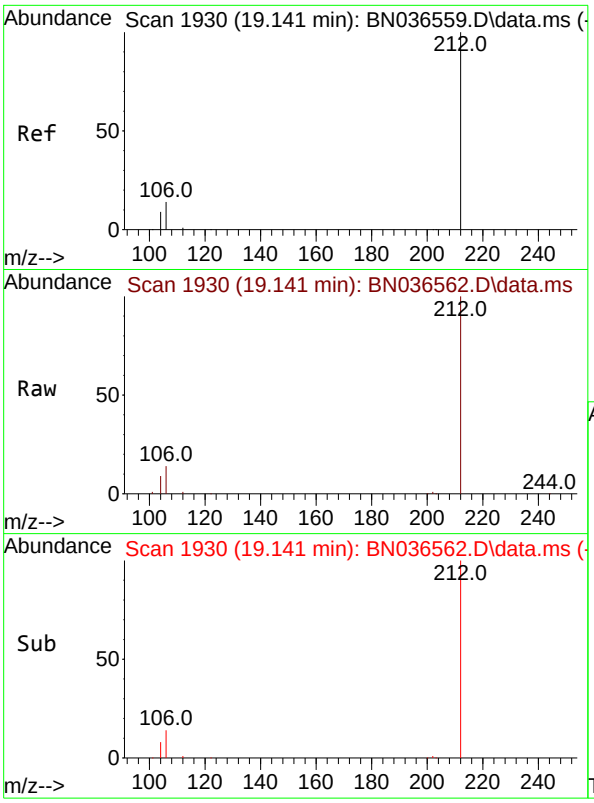


#26
Anthracene
Concen: 3.590 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:178 Resp: 72775

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.2	12.6	18.8



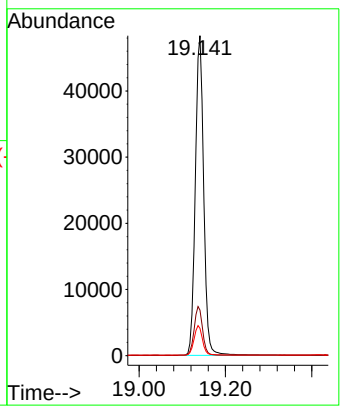


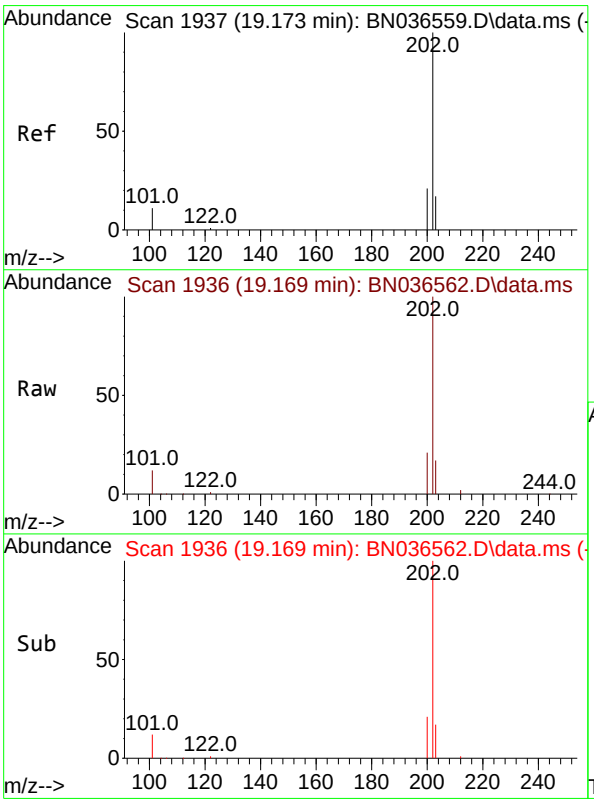
#27
Fluoranthene-d10
Concen: 3.394 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 65134

Ion	Ratio	Lower	Upper
212	100		
106	15.4	11.8	17.6
104	9.2	7.3	10.9

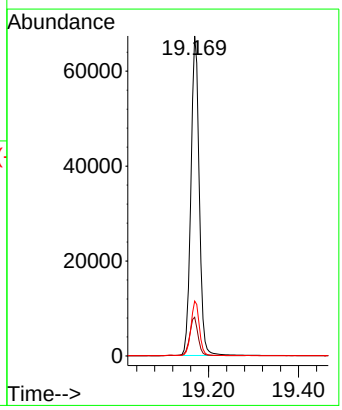


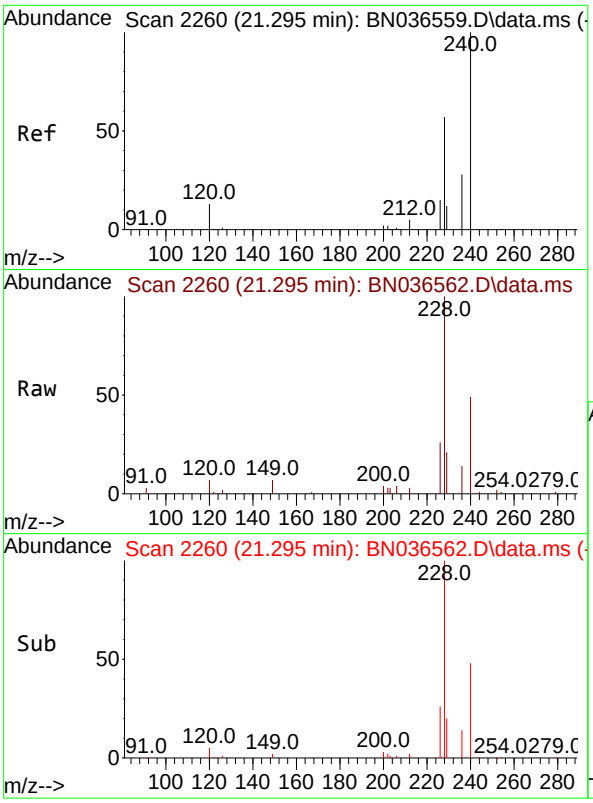


#28
Fluoranthene
Concen: 3.436 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:202 Resp: 86688

Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.4	14.0
203	17.0	13.5	20.3



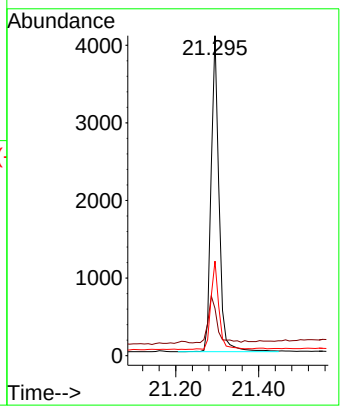


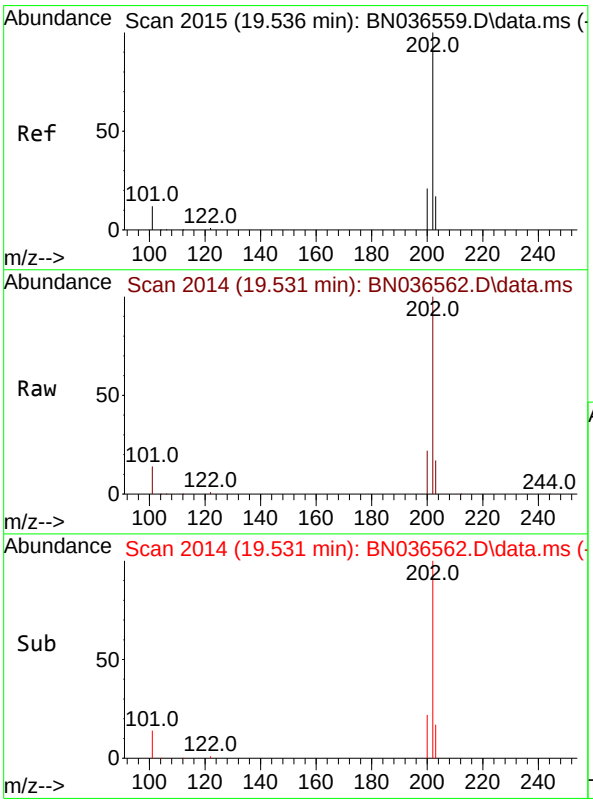
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 5439

Ion	Ratio	Lower	Upper
240	100		
120	14.8	14.6	22.0
236	29.5	24.1	36.1

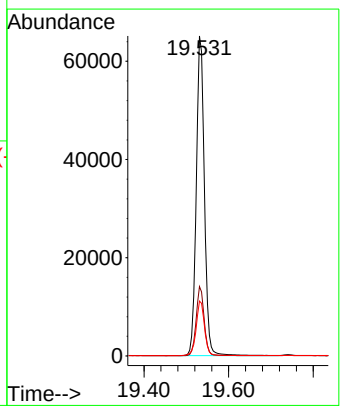


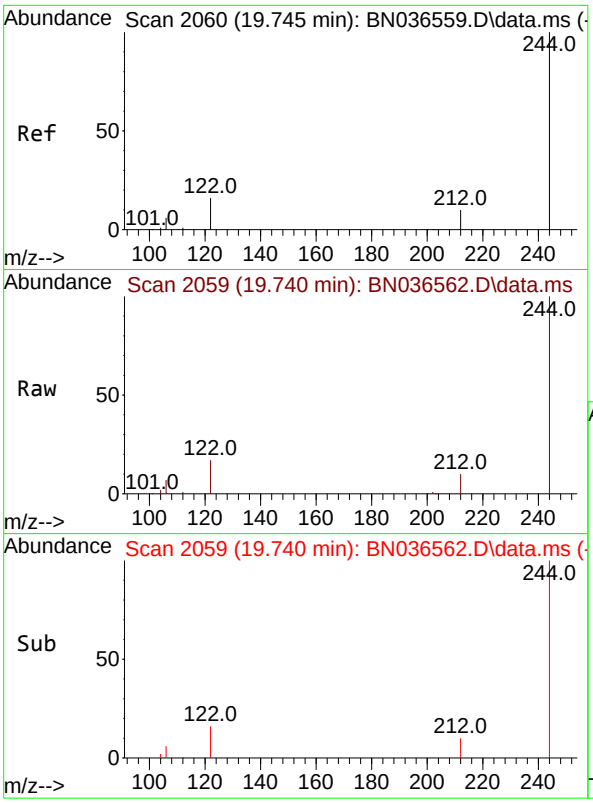


#30
Pyrene
Concen: 3.260 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:202 Resp: 86694

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.6	14.1	21.1



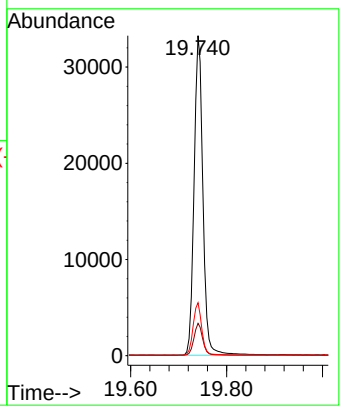


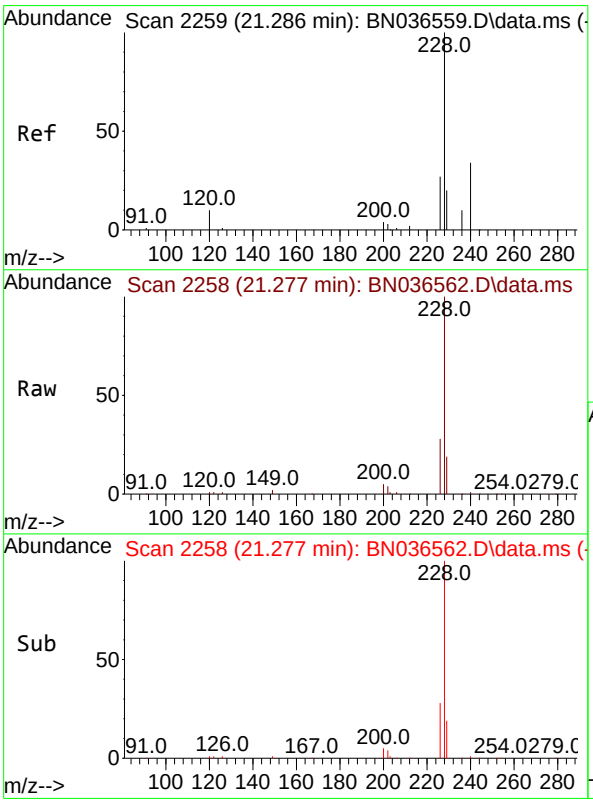
#31
Terphenyl-d14
Concen: 3.297 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 42959

Ion	Ratio	Lower	Upper
244	100		
212	10.1	9.6	14.4
122	16.6	13.9	20.9

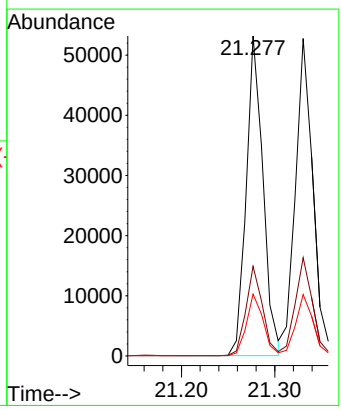


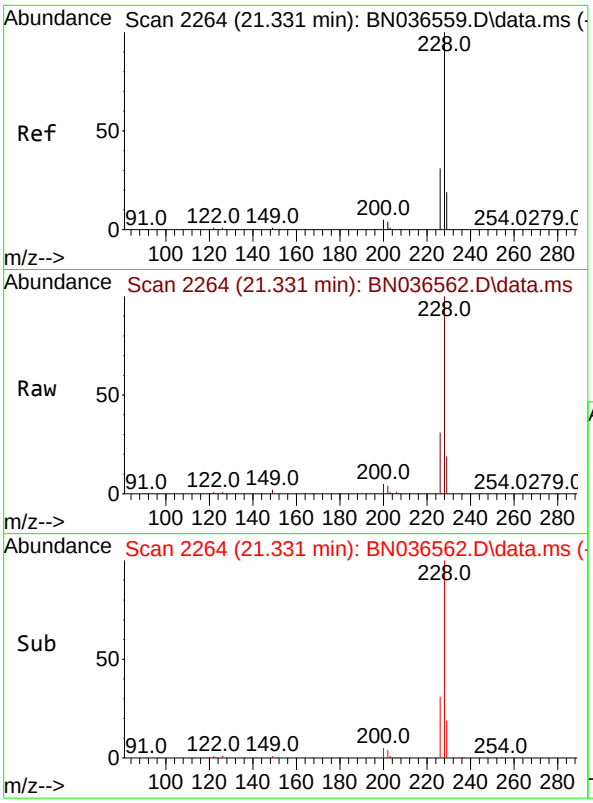


#32
Benzo(a)anthracene
Concen: 3.516 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:228 Resp: 66496

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	19.4	16.6	25.0



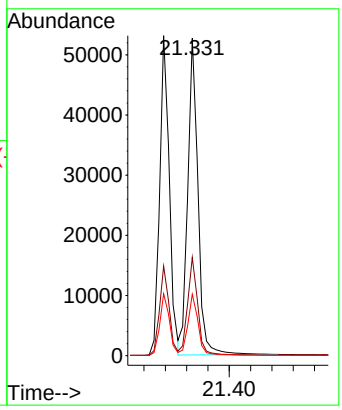


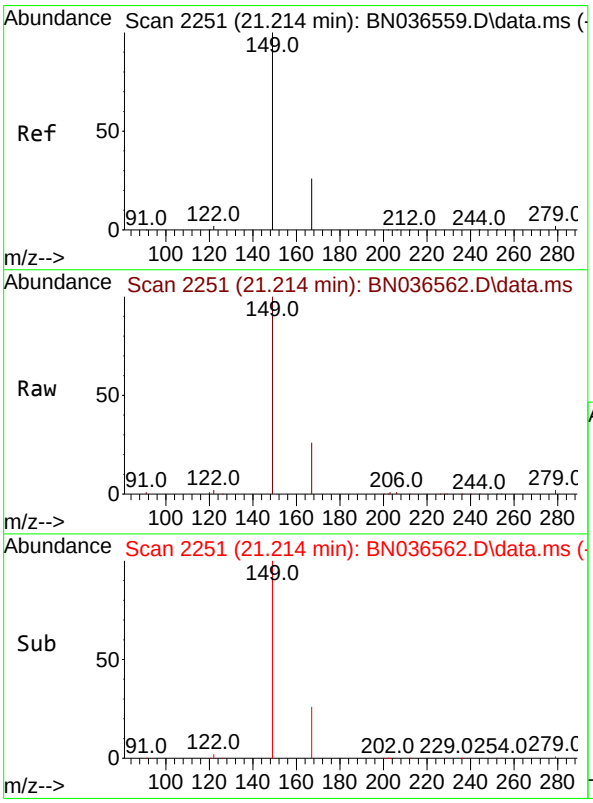
#33
Chrysene
Concen: 3.403 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 70334

Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.3	37.9
229	19.4	15.8	23.8

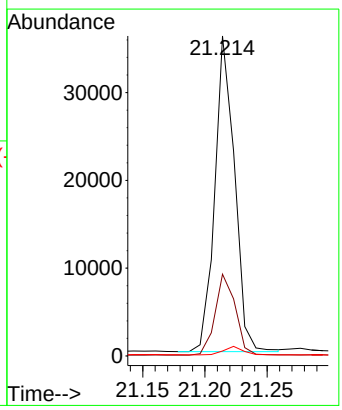


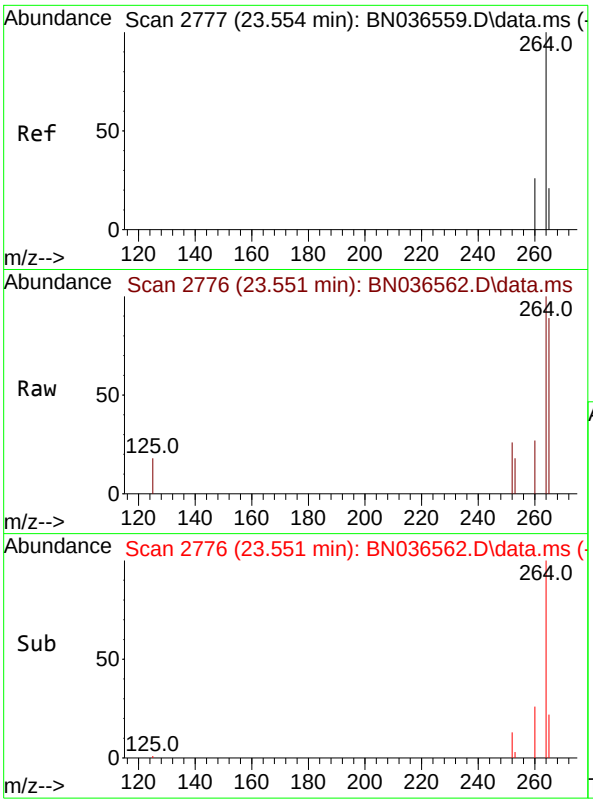


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.947 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:149 Resp: 39682

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.6	3.6	5.4#



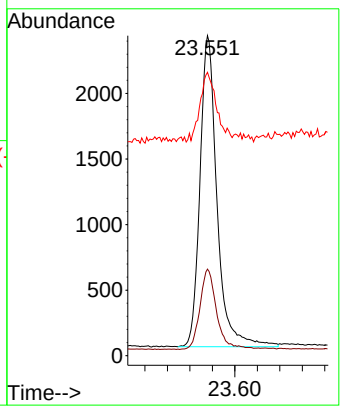


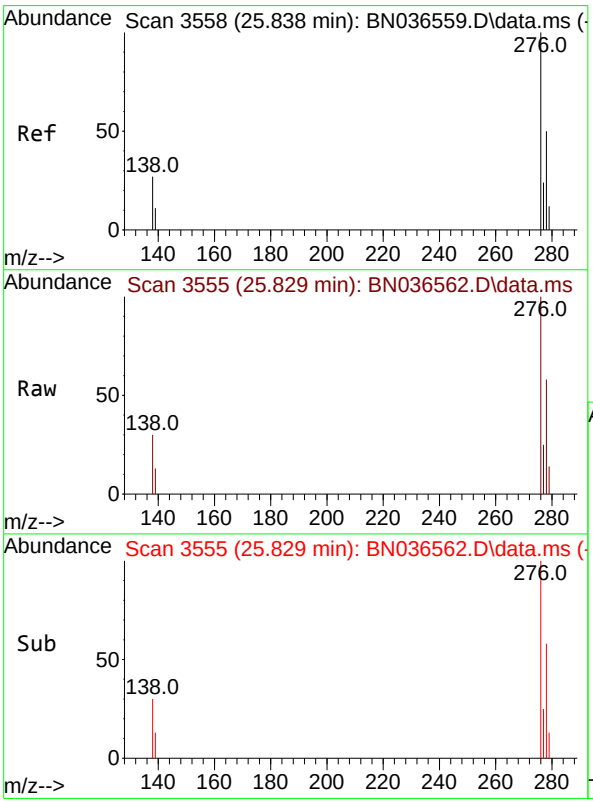
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 5002

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.6	33.8
265	88.6	88.1	132.1

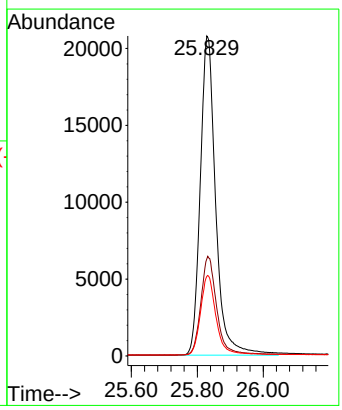


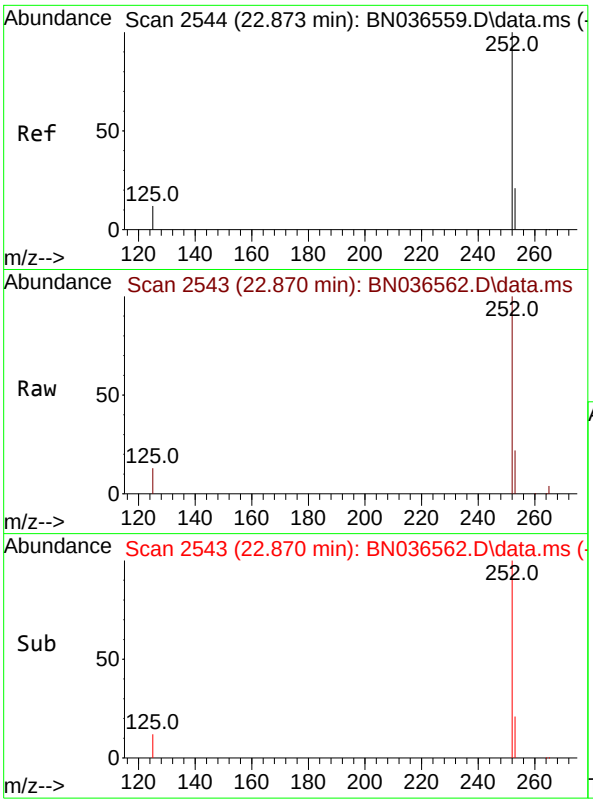


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.754 ng
RT: 25.829 min Scan# 3555
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:276 Resp: 67767

Ion	Ratio	Lower	Upper
276	100		
138	31.3	23.4	35.2
277	24.8	20.0	30.0



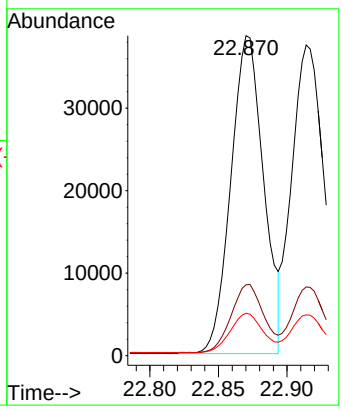


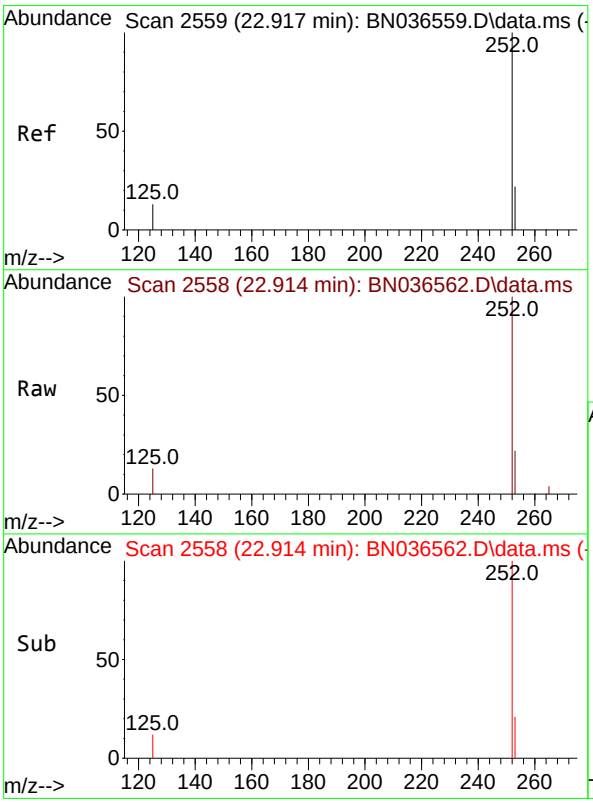
#37
Benzo(b)fluoranthene
Concen: 3.506 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 63823

Ion	Ratio	Lower	Upper
252	100		
253	22.2	23.9	35.9#
125	13.3	17.4	26.2#

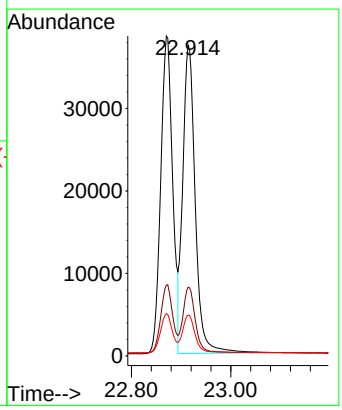


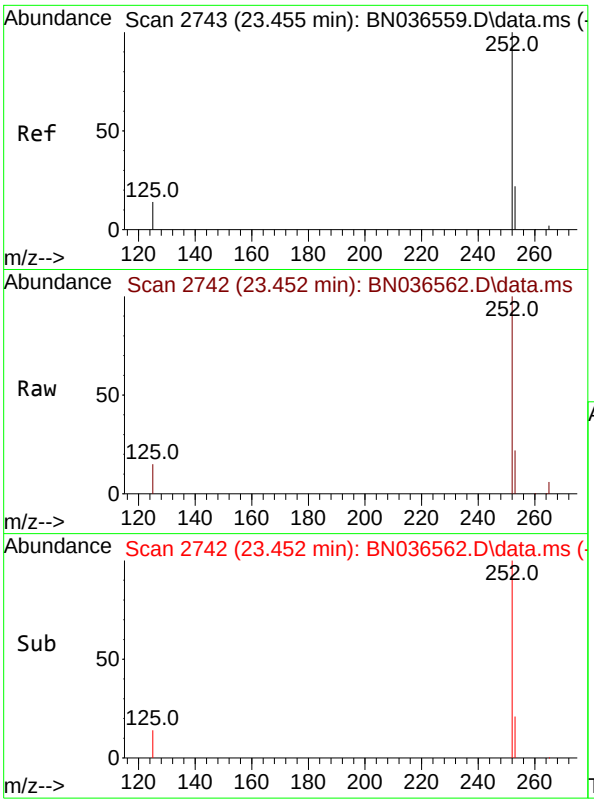


#38
Benzo(k)fluoranthene
Concen: 3.425 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:252 Resp: 65410

Ion	Ratio	Lower	Upper
252	100		
253	22.1	24.6	36.8#
125	13.2	17.8	26.8#



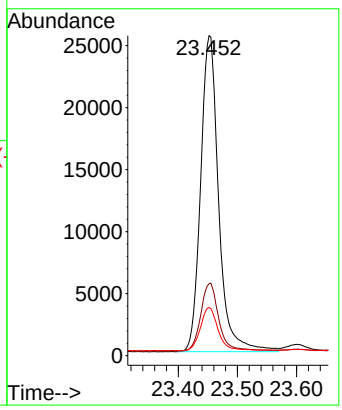


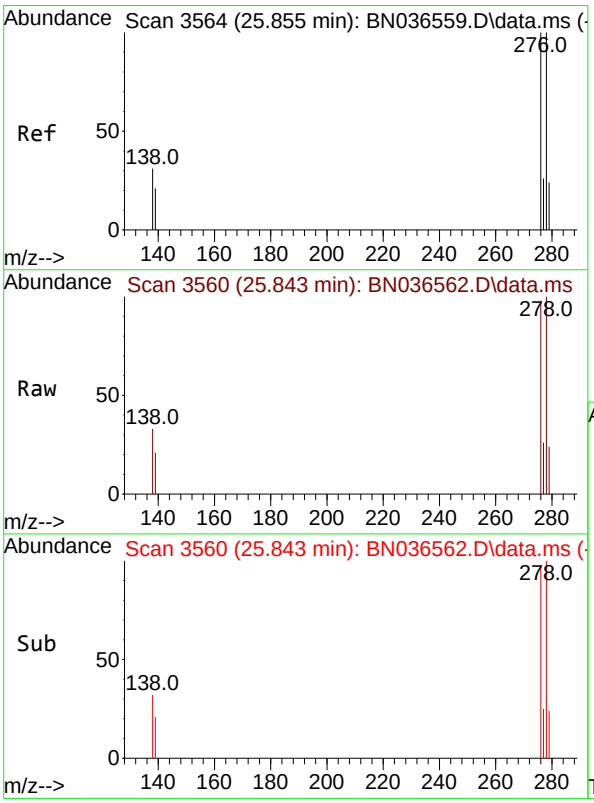
#39
Benzo(a)pyrene
Concen: 3.523 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 54009

Ion	Ratio	Lower	Upper
252	100		
253	22.4	27.8	41.8#
125	15.1	22.7	34.1#

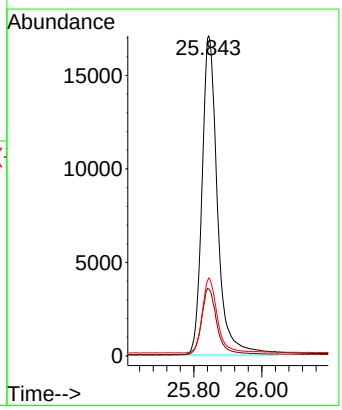


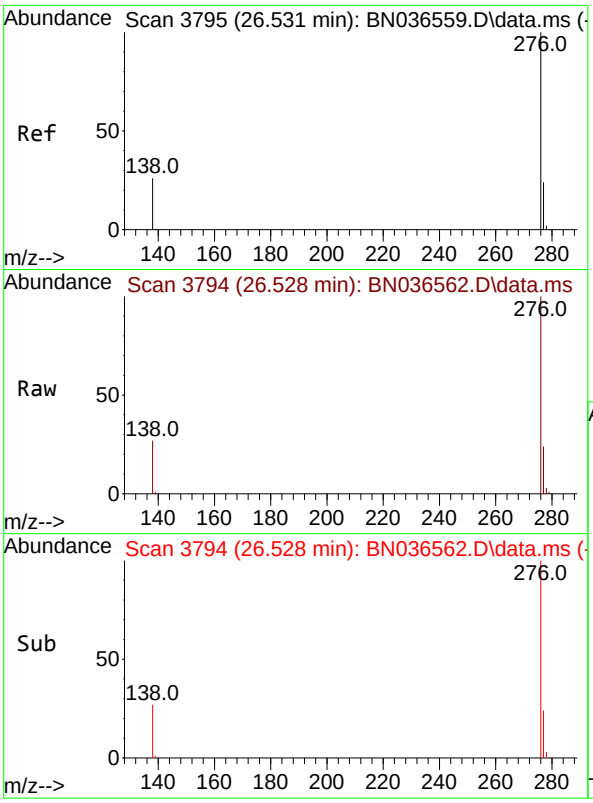


#40
Dibenzo(a,h)anthracene
Concen: 3.846 ng
RT: 25.843 min Scan# 3560
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:278 Resp: 54058

Ion	Ratio	Lower	Upper
278	100		
139	20.9	20.8	31.2
279	24.4	28.8	43.2#



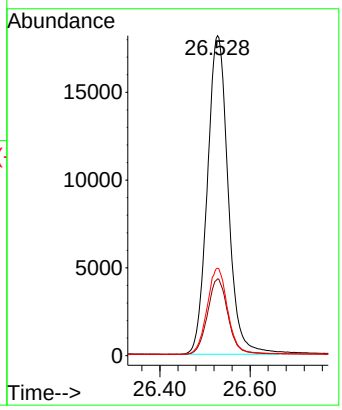


#41
Benzo(g,h,i)perylene
Concen: 3.606 ng
RT: 26.528 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 57986

Ion	Ratio	Lower	Upper
276	100		
277	24.0	22.2	33.4
138	27.4	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036563.D
Acq On : 10 Mar 2025 15:19
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

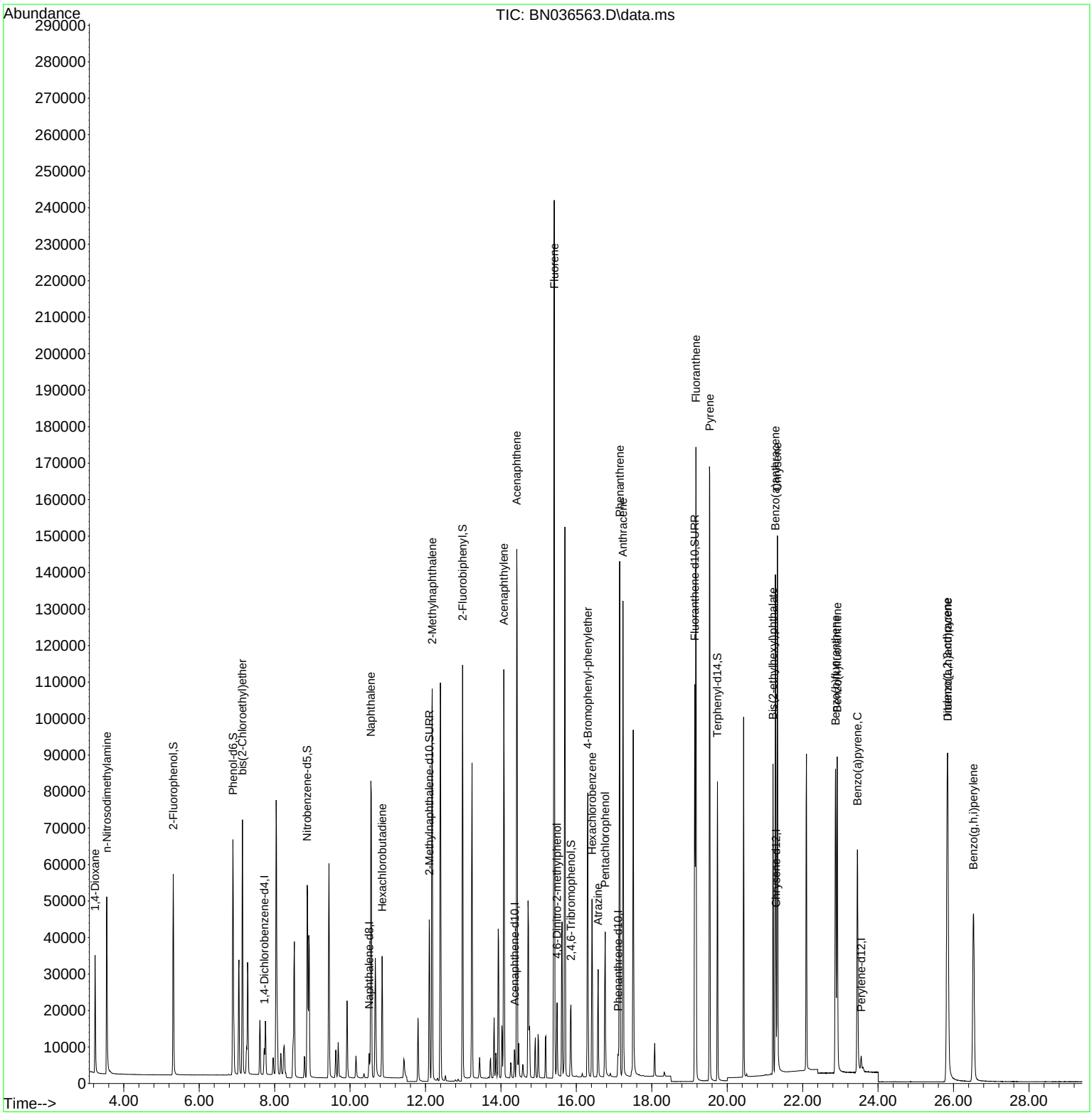
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	3261	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	7995	0.400	ng	# 0.00
13) Acenaphthene-d10	14.366	164	4664	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	9061	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6472	0.400	ng	0.00
35) Perylene-d12	23.551	264	5580	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	37154	4.889	ng	0.00
5) Phenol-d6	6.894	99	48085	5.122	ng	0.00
8) Nitrobenzene-d5	8.864	82	41042	4.719	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	58048	4.881	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	10964	5.181	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	141052	5.199	ng	0.00
27) Fluoranthene-d10	19.141	212	113317	4.879	ng	0.00
31) Terphenyl-d14	19.740	244	74923	4.832	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	16253	4.492	ng	97
3) n-Nitrosodimethylamine	3.550	42	32163	4.395	ng	# 95
6) bis(2-Chloroethyl)ether	7.146	93	44986	4.636	ng	99
9) Naphthalene	10.551	128	109289	4.647	ng	97
10) Hexachlorobutadiene	10.850	225	25105	4.535	ng	# 99
12) 2-Methylnaphthalene	12.177	142	73010	4.879	ng	98
16) Acenaphthylene	14.077	152	112792	5.125	ng	99
17) Acenaphthene	14.420	154	72446	5.028	ng	96
18) Fluorene	15.414	166	96215	4.937	ng	97
20) 4,6-Dinitro-2-methylph...	15.489	198	12627	4.968	ng	# 56
21) 4-Bromophenyl-phenylether	16.304	248	28657	5.048	ng	# 81
22) Hexachlorobenzene	16.416	284	32686	4.770	ng	99
23) Atrazine	16.577	200	22705	4.988	ng	# 90
24) Pentachlorophenol	16.764	266	17612	5.634	ng	99
25) Phenanthrene	17.148	178	135347	4.979	ng	100
26) Anthracene	17.235	178	125954	5.135	ng	99
28) Fluoranthene	19.169	202	149107	4.883	ng	99
30) Pyrene	19.536	202	148584	4.695	ng	100
32) Benzo(a)anthracene	21.277	228	114481	5.087	ng	98
33) Chrysene	21.331	228	117149	4.764	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	70345	4.390	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	109561	5.440	ng	98
37) Benzo(b)fluoranthene	22.873	252	104498	5.146	ng	# 84
38) Benzo(k)fluoranthene	22.917	252	106995	5.022	ng	# 82
39) Benzo(a)pyrene	23.452	252	88413	5.170	ng	# 76
40) Dibenzo(a,h)anthracene	25.846	278	87308	5.568	ng	# 84
41) Benzo(g,h,i)perylene	26.531	276	93067	5.189	ng	93

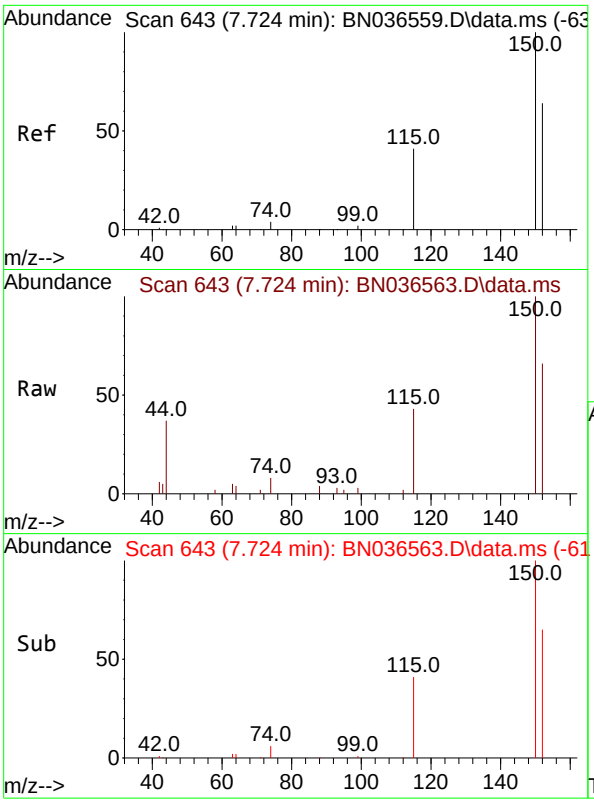
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036563.D
Acq On : 10 Mar 2025 15:19
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



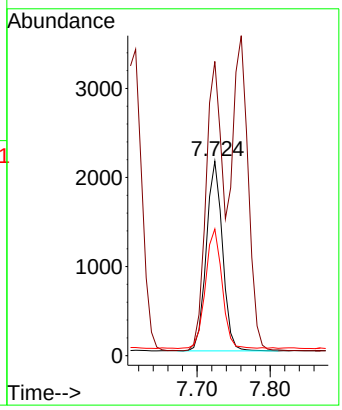


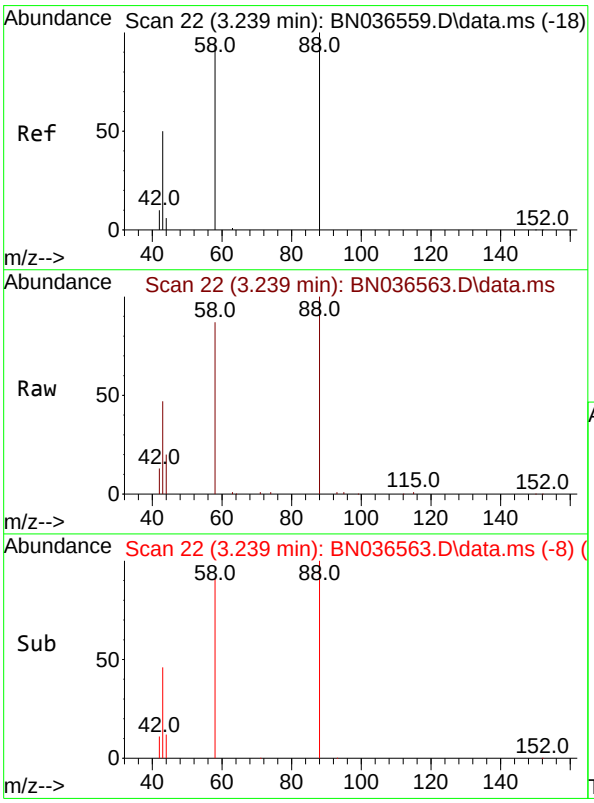
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 3261

Ion	Ratio	Lower	Upper
152	100		
150	151.3	123.7	185.5
115	65.2	54.3	81.5

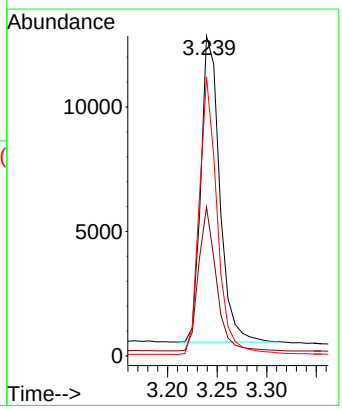


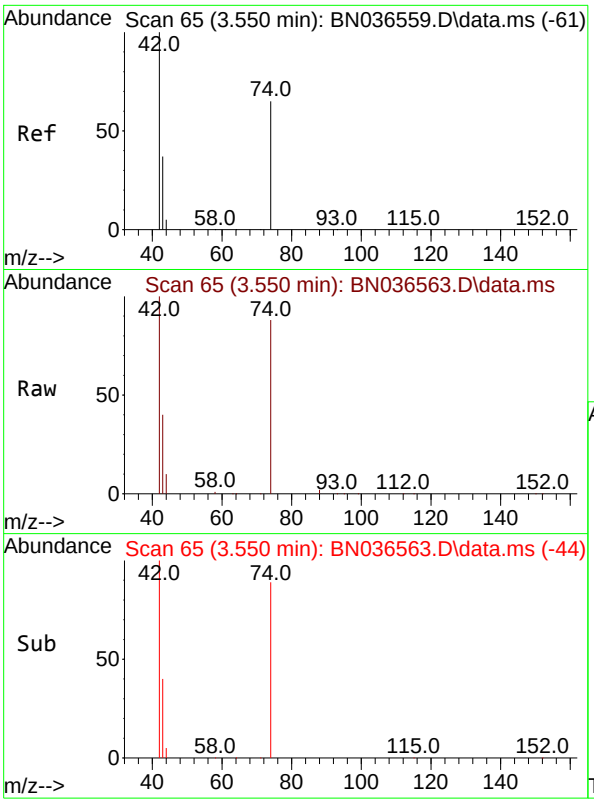


#2
1,4-Dioxane
Concen: 4.492 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 88 Resp: 16253

Ion	Ratio	Lower	Upper
88	100		
43	44.3	37.8	56.8
58	86.4	67.4	101.2



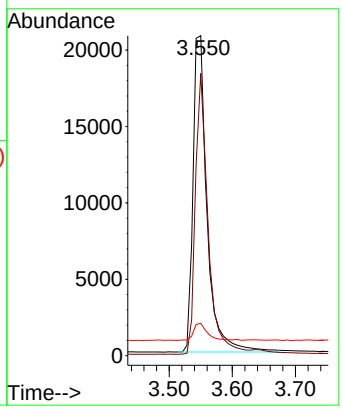


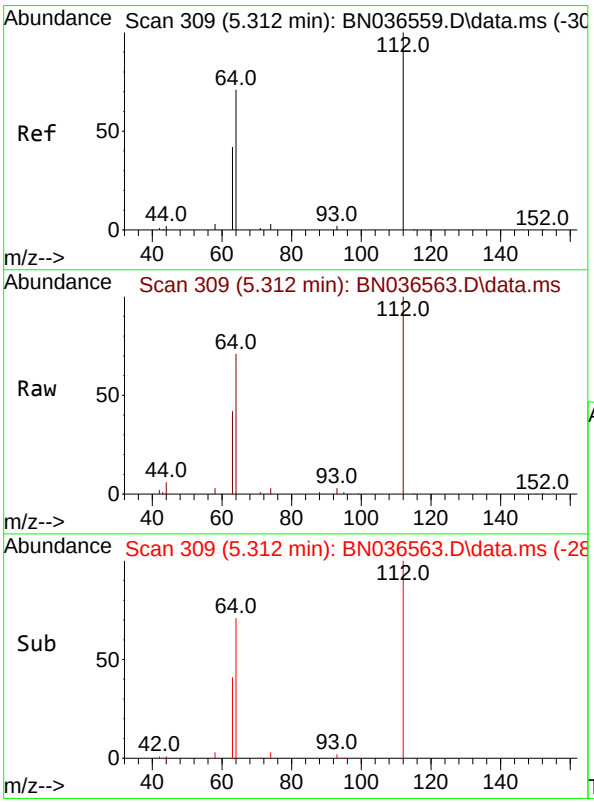
#3
n-Nitrosodimethylamine
Concen: 4.395 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 32163

Ion	Ratio	Lower	Upper
42	100		
74	79.9	60.6	90.8
44	5.3	6.3	9.5#

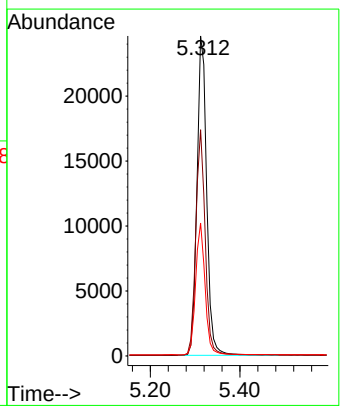


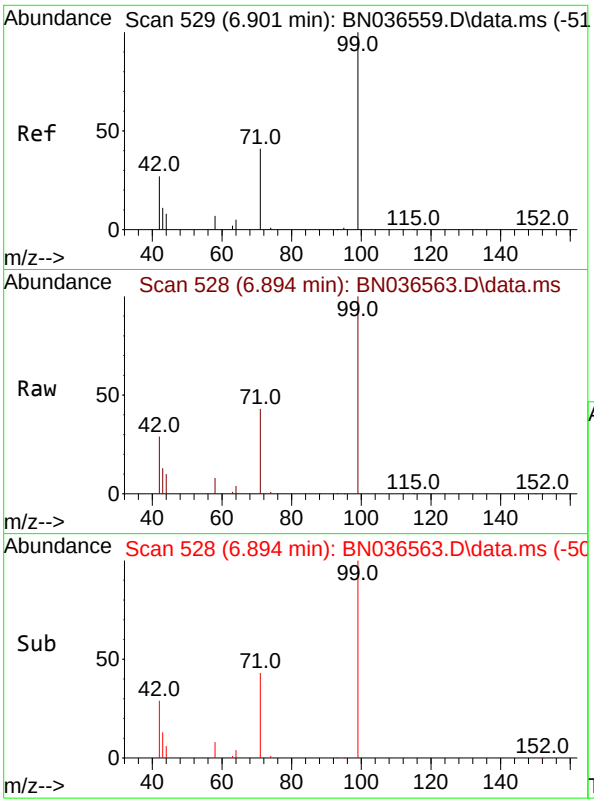


#4
2-Fluorophenol
Concen: 4.889 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:112 Resp: 37154

Ion	Ratio	Lower	Upper
112	100		
64	68.5	53.1	79.7
63	40.1	31.8	47.8



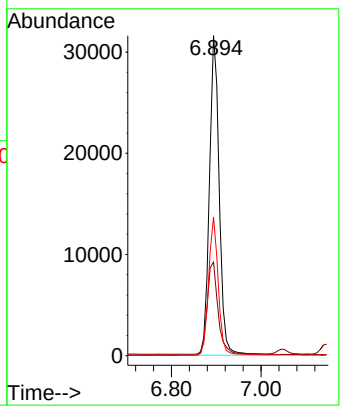


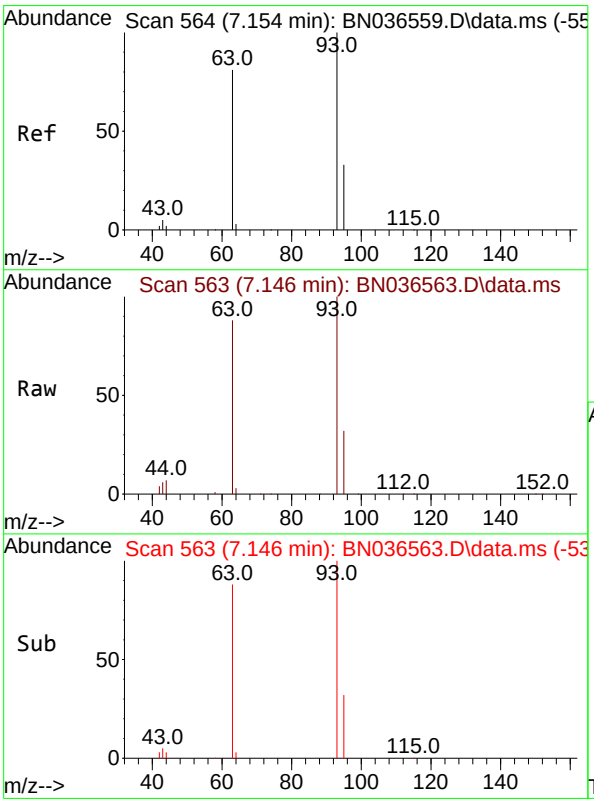
#5
Phenol-d6
Concen: 5.122 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 48085

Ion	Ratio	Lower	Upper
99	100		
42	31.8	26.5	39.7
71	42.6	34.1	51.1

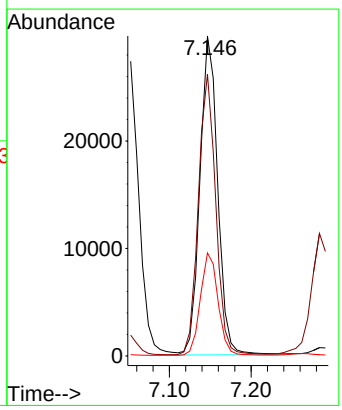


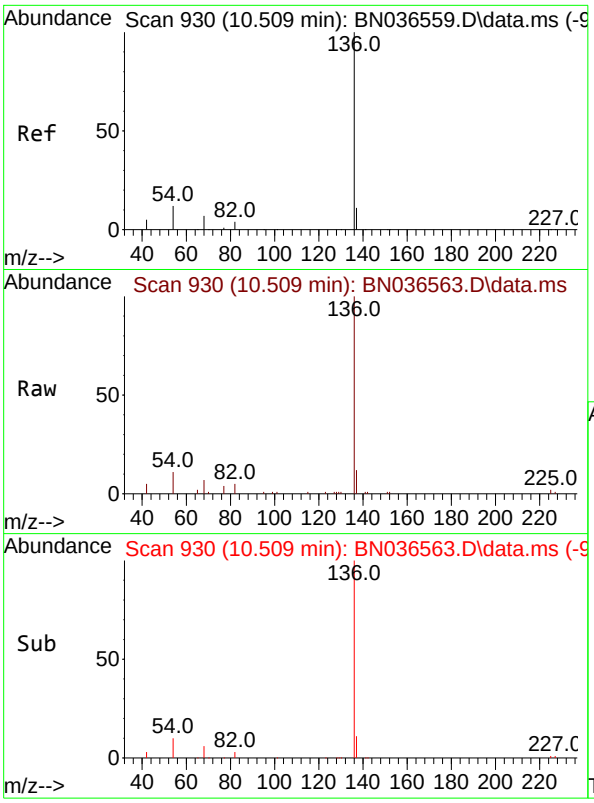


#6
bis(2-Chloroethyl)ether
Concen: 4.636 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 93 Resp: 44986

Ion	Ratio	Lower	Upper
93	100		
63	85.8	67.7	101.5
95	32.0	25.6	38.4



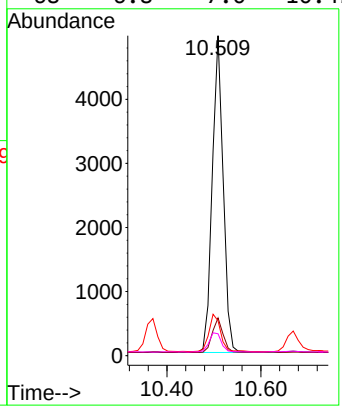


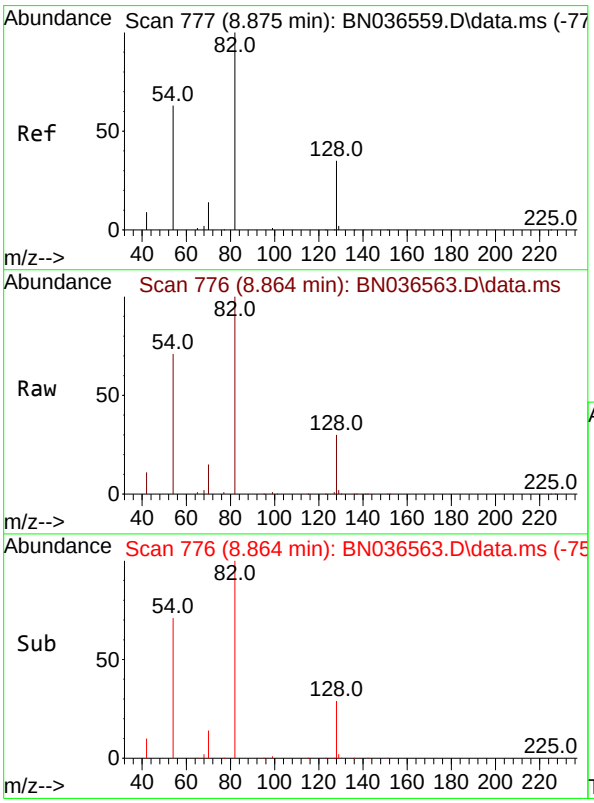
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 7995

Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.3	15.5
54	10.9	11.5	17.3#
68	6.8	7.0	10.4#

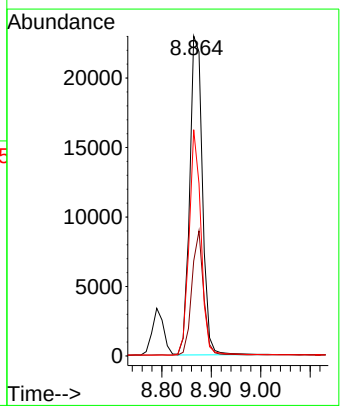


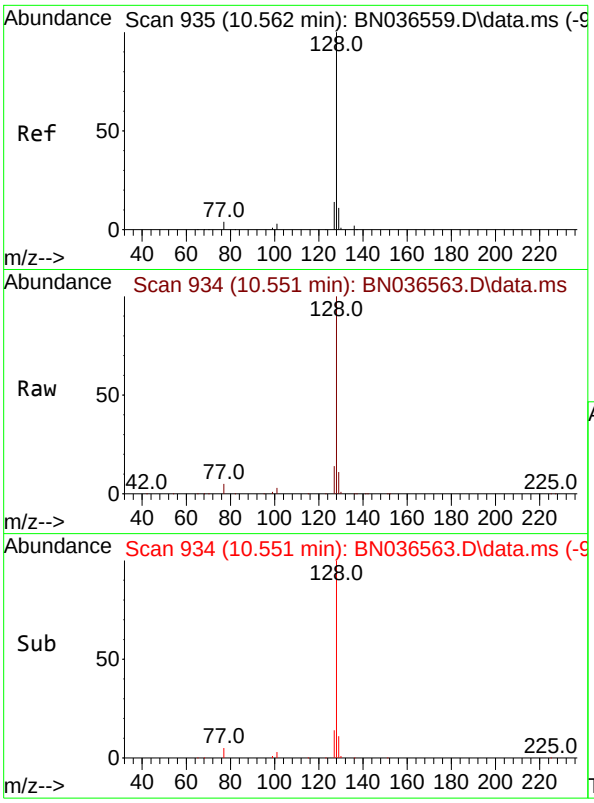


#8
Nitrobenzene-d5
Concen: 4.719 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 82 Resp: 41042

Ion	Ratio	Lower	Upper
82	100		
128	29.7	30.6	45.8#
54	70.7	52.2	78.4



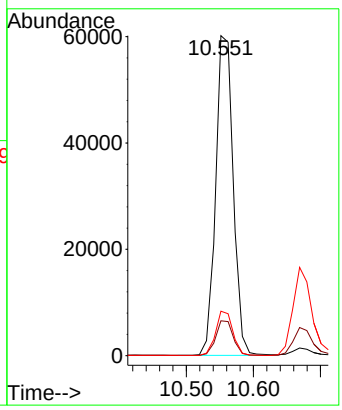


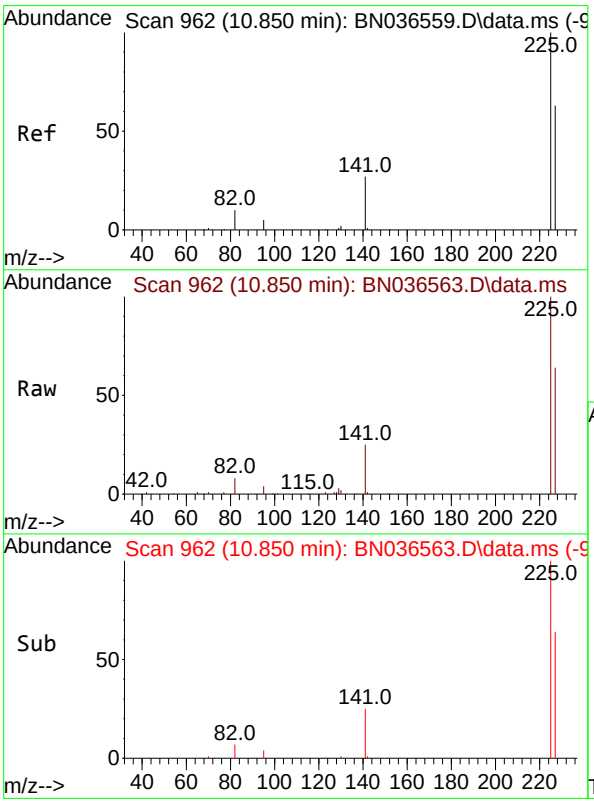
#9
Naphthalene
Concen: 4.647 ng
RT: 10.551 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 109289

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.6
127	13.9	11.8	17.8

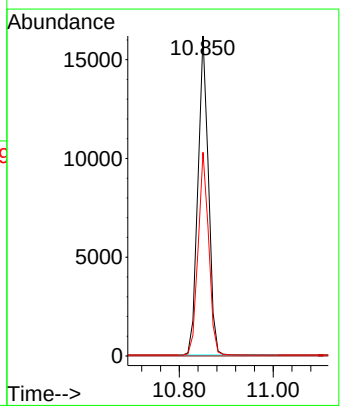


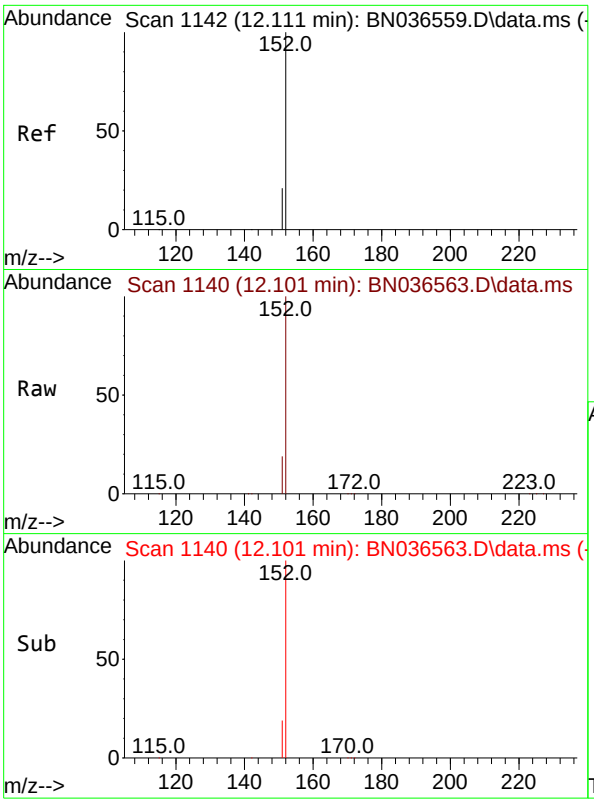


#10
Hexachlorobutadiene
Concen: 4.535 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:225 Resp: 25105

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.8	77.8



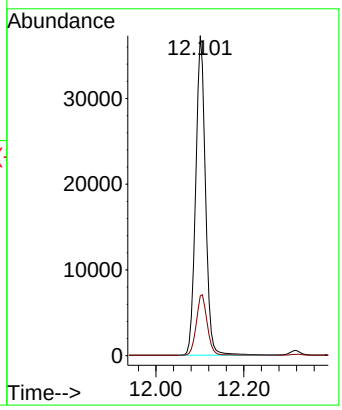


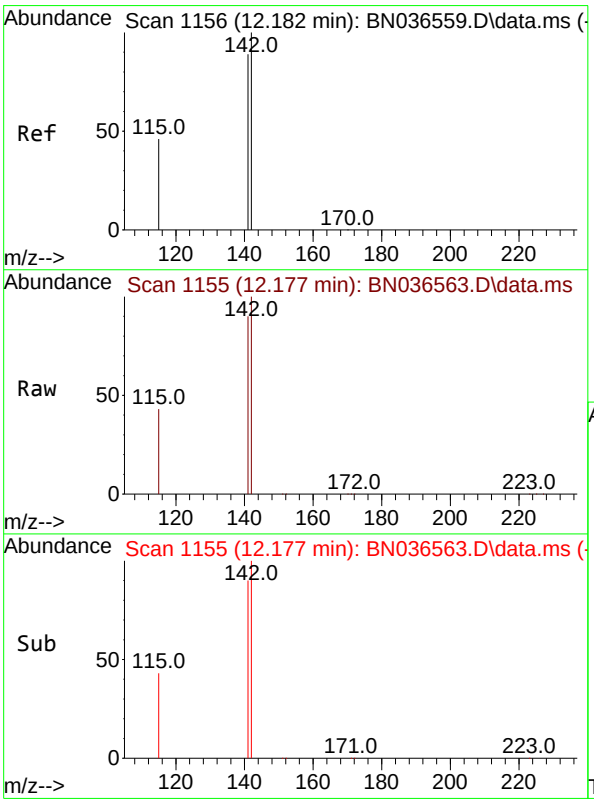
#11
2-Methylnaphthalene-d10
Concen: 4.881 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 58048

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

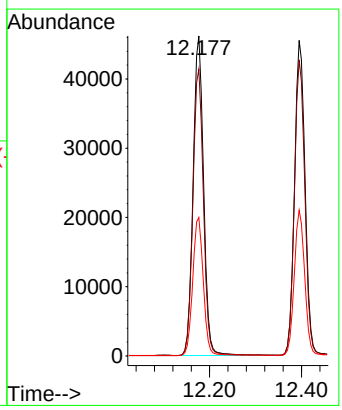


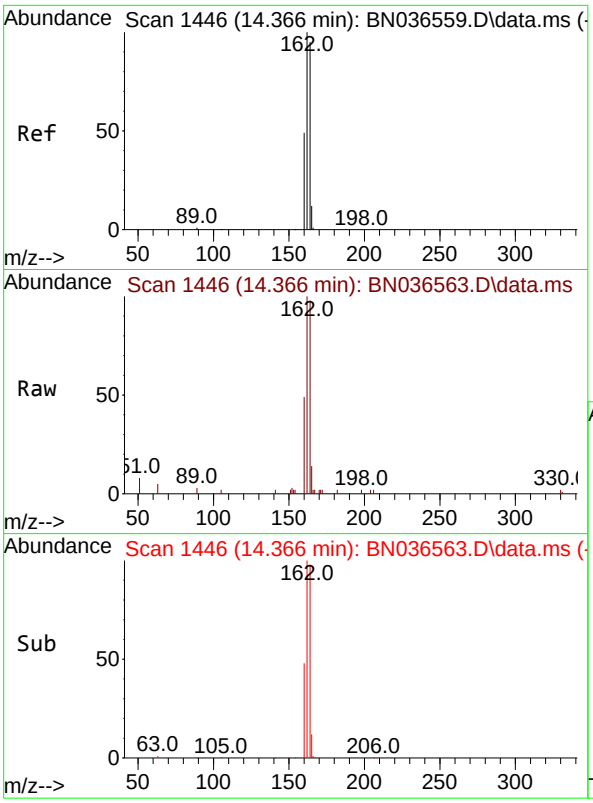


#12
2-Methylnaphthalene
Concen: 4.879 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:142 Resp: 73010

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.7	107.5
115	43.2	38.3	57.5



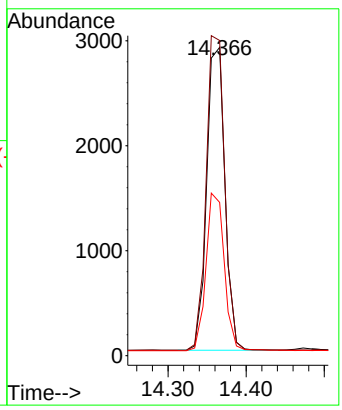


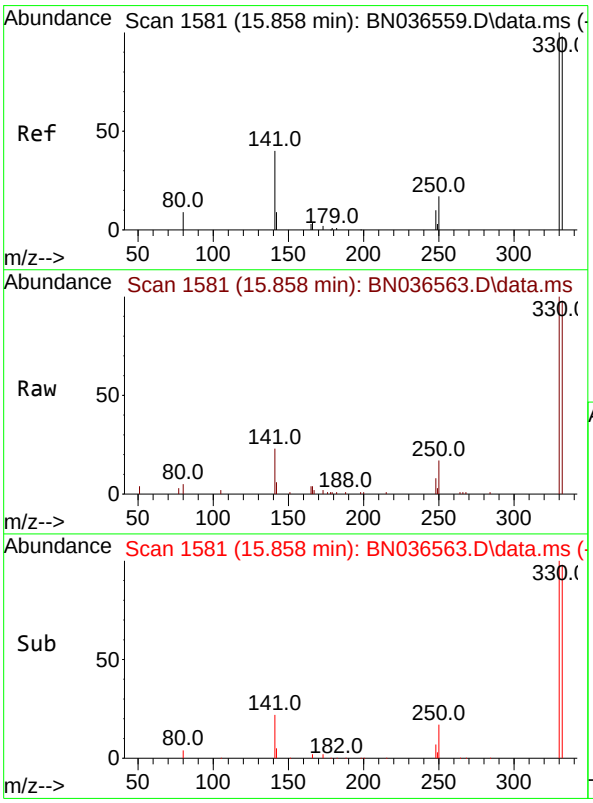
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 4664

Ion	Ratio	Lower	Upper
164	100		
162	102.2	84.2	126.2
160	49.7	42.2	63.2

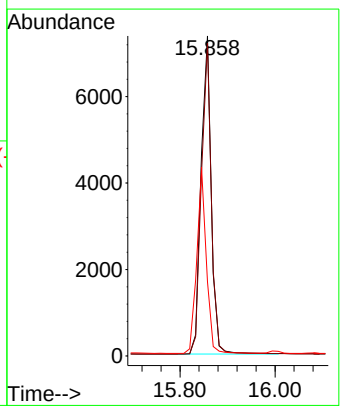


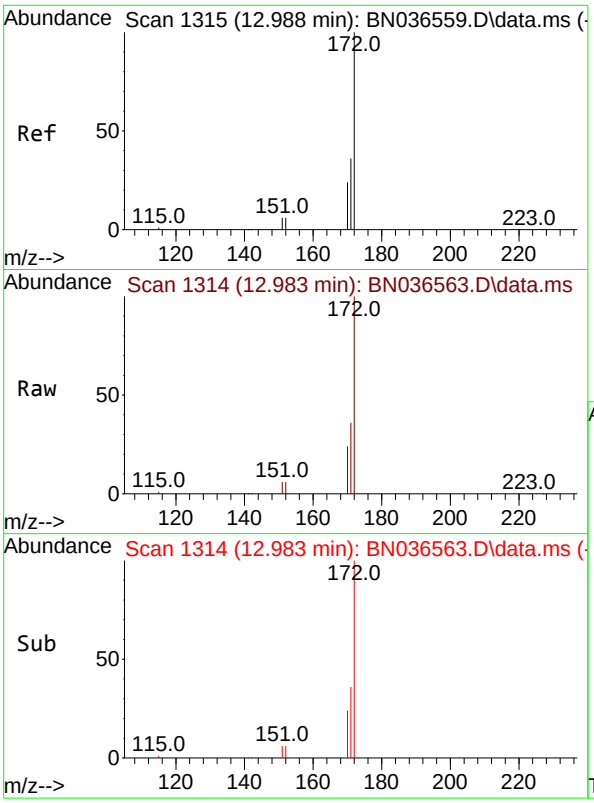


#14
2,4,6-Tribromophenol
Concen: 5.181 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:330 Resp: 10964

Ion	Ratio	Lower	Upper
330	100		
332	95.9	75.2	112.8
141	54.7	43.4	65.2



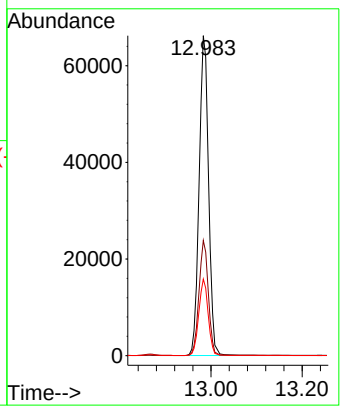


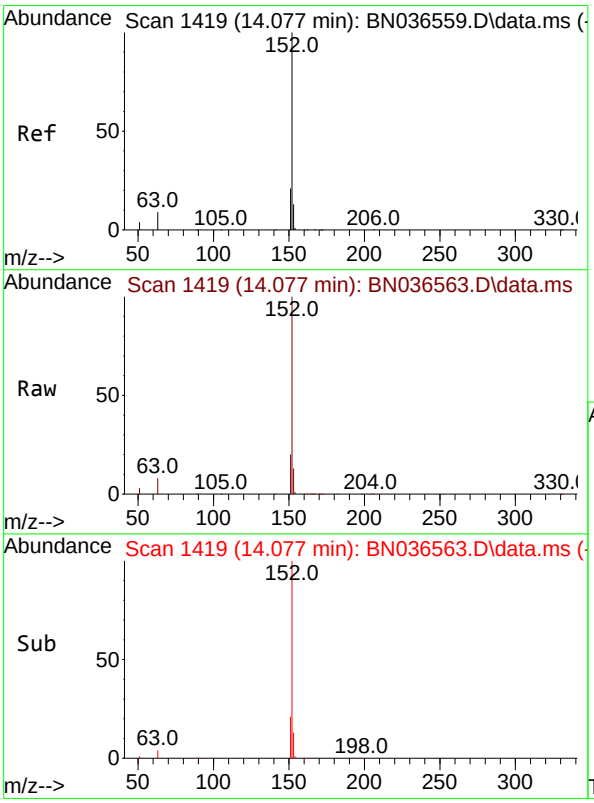
#15
2-Fluorobiphenyl
Concen: 5.199 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 141052

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.5	44.3
170	24.0	20.2	30.4

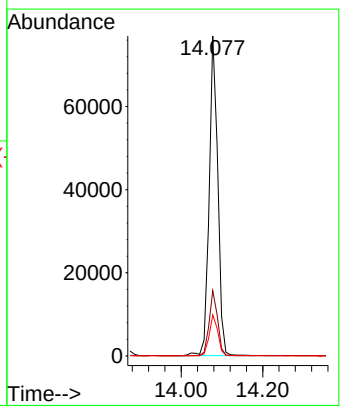


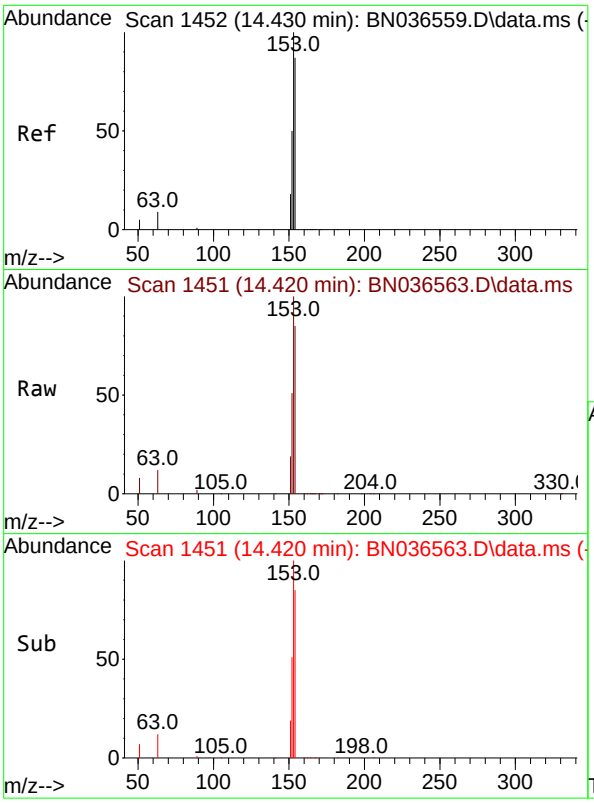


#16
Acenaphthylene
Concen: 5.125 ng
RT: 14.077 min Scan# 1419
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:152 Resp: 112792

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	12.8	10.6	15.8



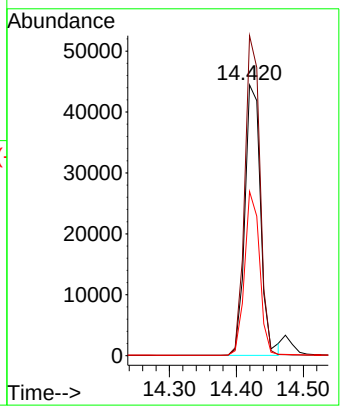


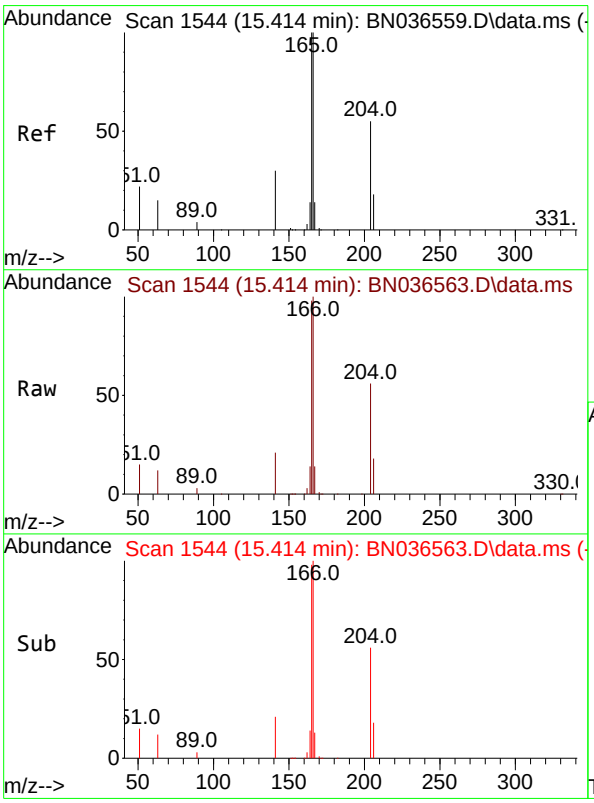
#17
Acenaphthene
Concen: 5.028 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 72446

Ion	Ratio	Lower	Upper
154	100		
153	114.1	94.1	141.1
152	57.7	49.8	74.6

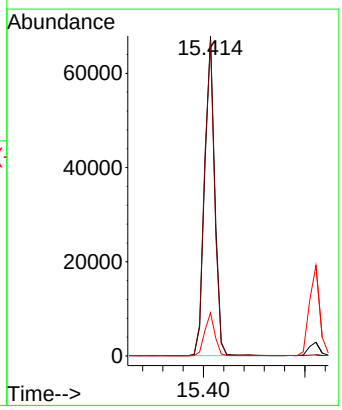


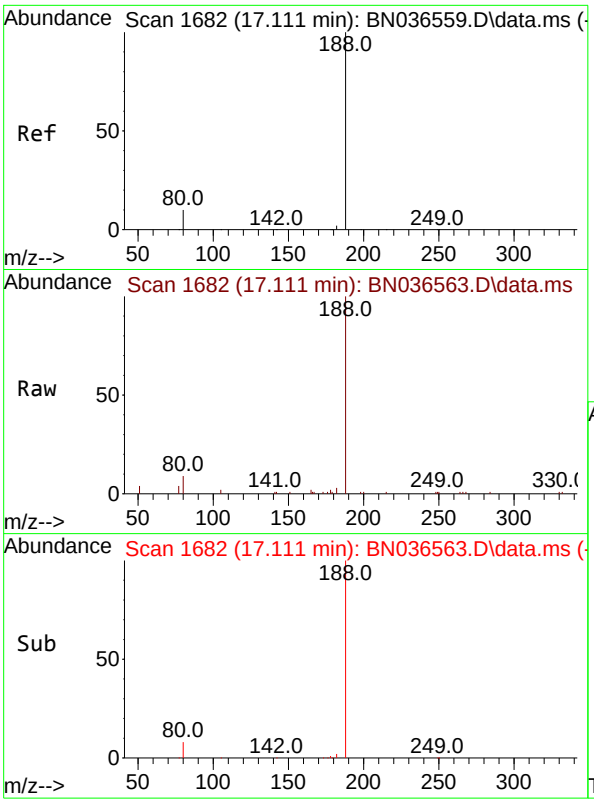


#18
Fluorene
Concen: 4.937 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:166 Resp: 96215

Ion	Ratio	Lower	Upper
166	100		
165	96.5	79.8	119.8
167	13.0	10.6	15.8



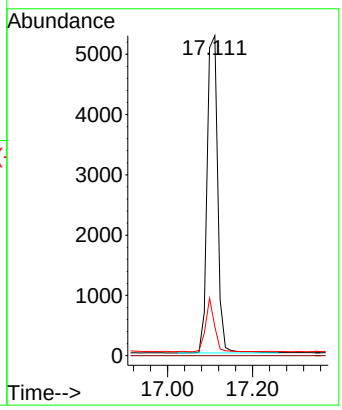


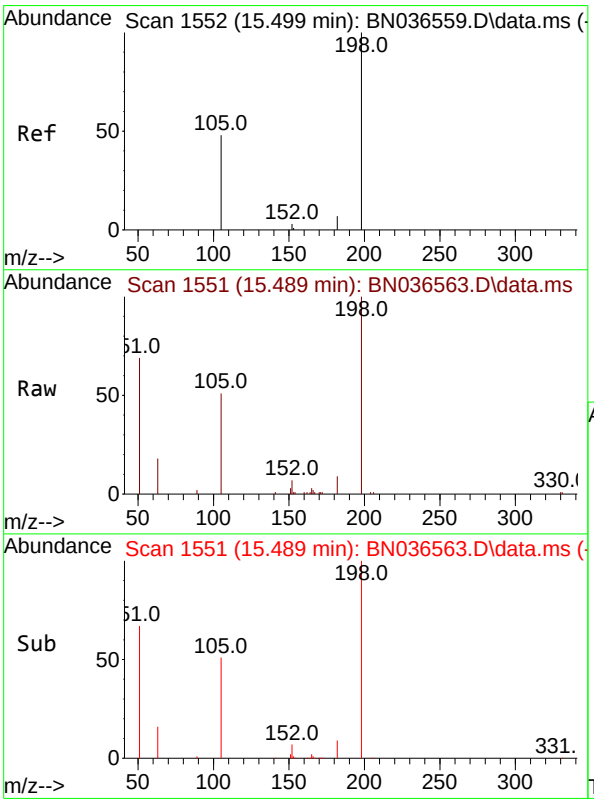
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 9061

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.1	8.8	13.2

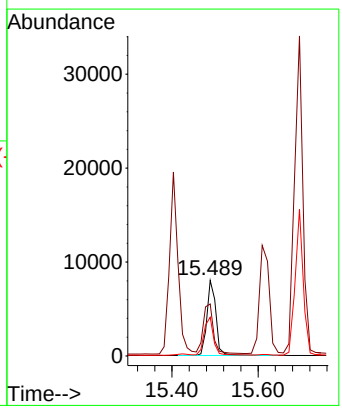


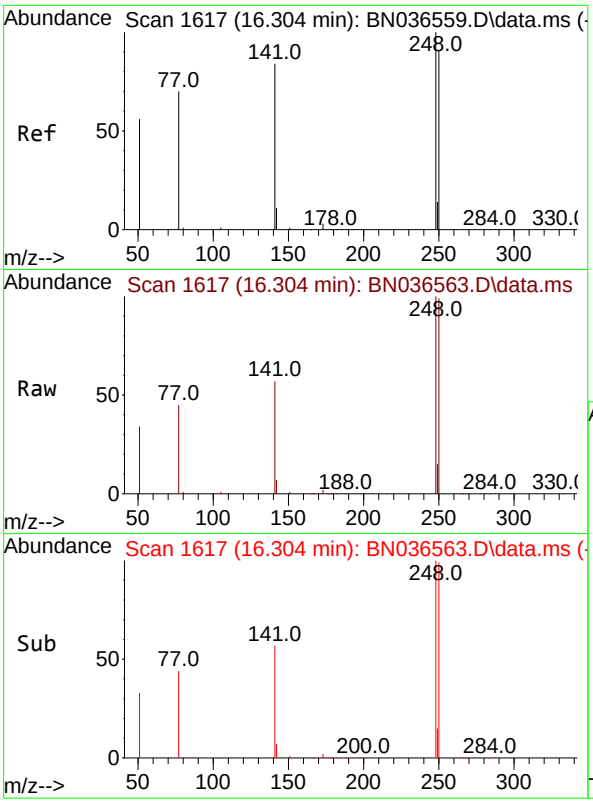


#20
4,6-Dinitro-2-methylphenol
Concen: 4.968 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:198 Resp: 12627

Ion	Ratio	Lower	Upper
198	100		
51	68.9	107.9	161.9#
105	51.3	56.2	84.2#



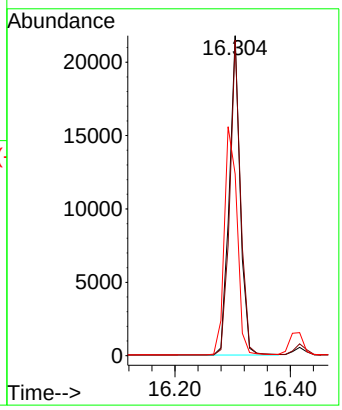


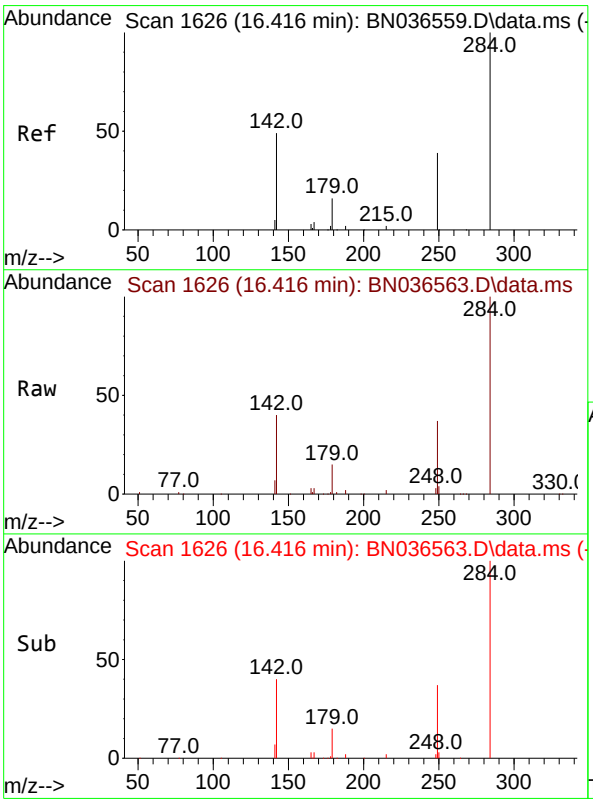
#21
4-Bromophenyl-phenylether
Concen: 5.048 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 28657

Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	56.7	68.6	103.0#

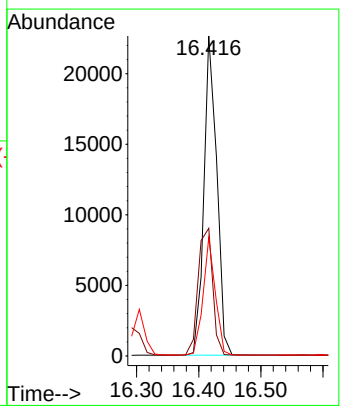


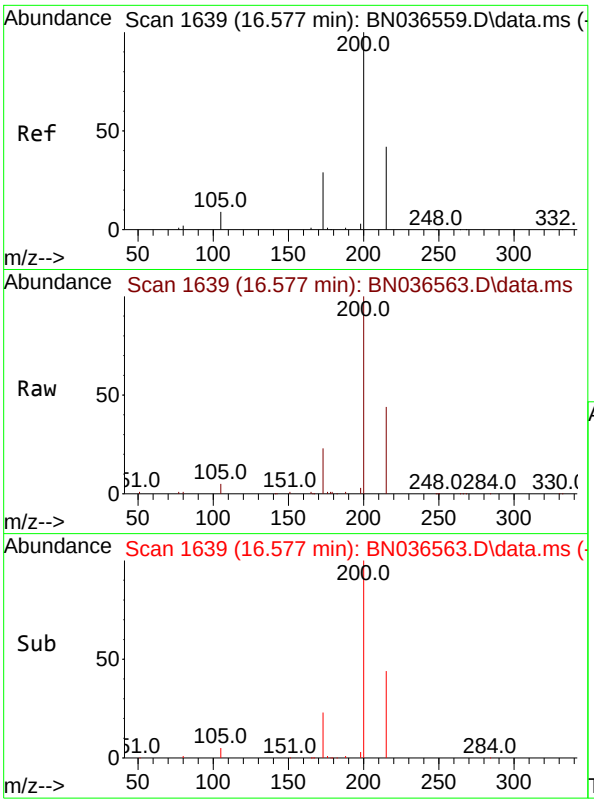


#22
Hexachlorobenzene
Concen: 4.770 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:284 Resp: 32686

Ion	Ratio	Lower	Upper
284	100		
142	45.1	37.0	55.4
249	35.1	28.1	42.1



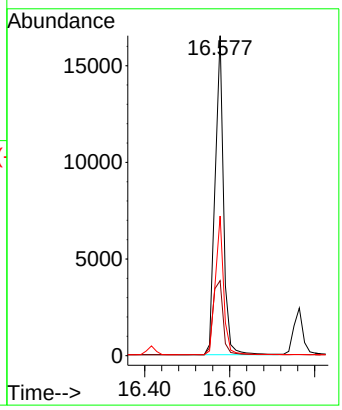


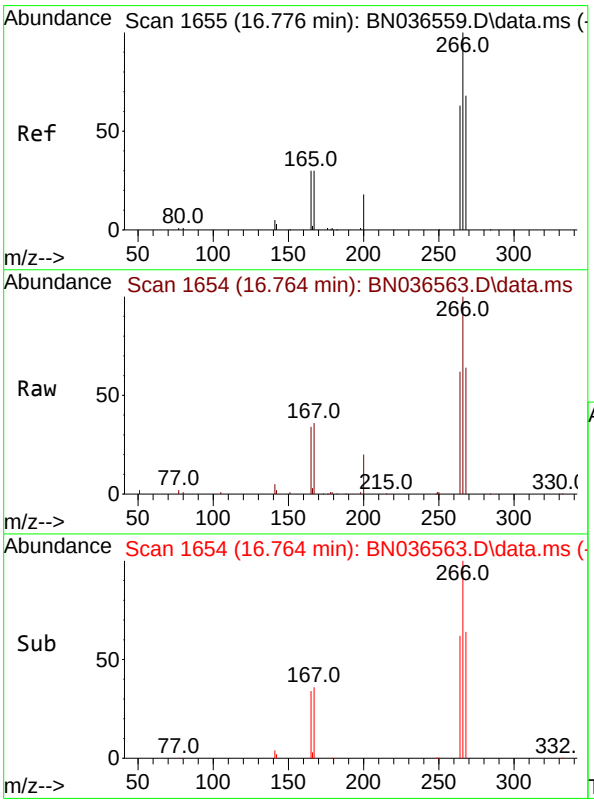
#23
Atrazine
Concen: 4.988 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 22705

Ion	Ratio	Lower	Upper
200	100		
173	23.4	27.3	40.9#
215	43.7	36.8	55.2

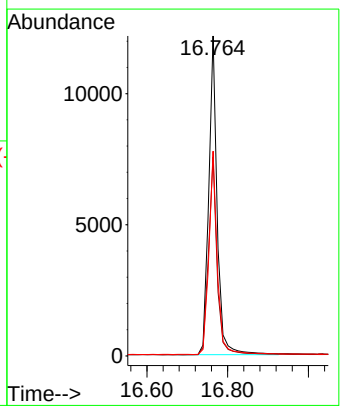


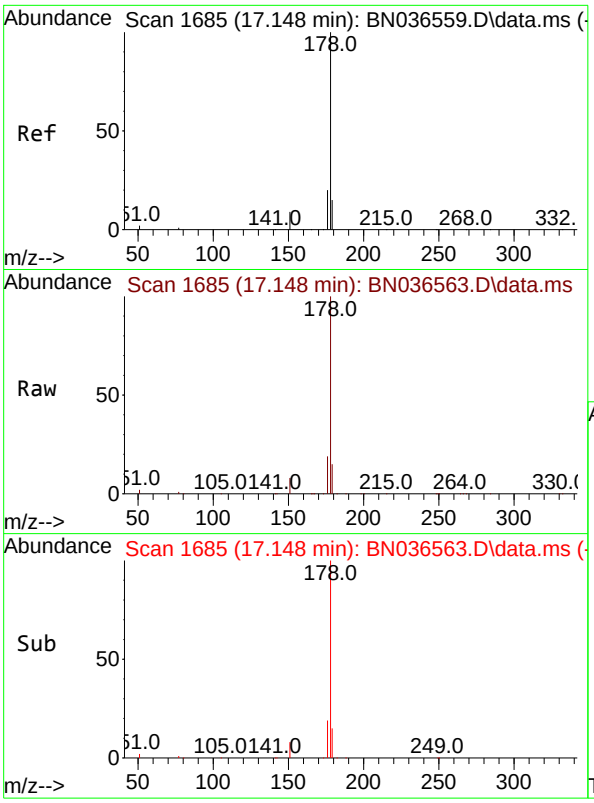


#24
Pentachlorophenol
Concen: 5.634 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:266 Resp: 17612

Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.7	50.9	76.3



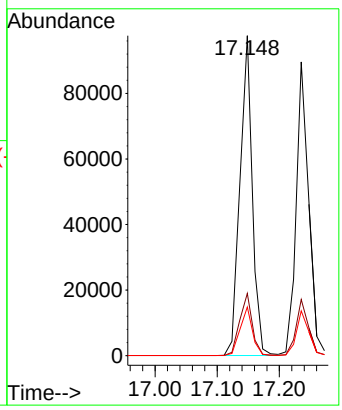


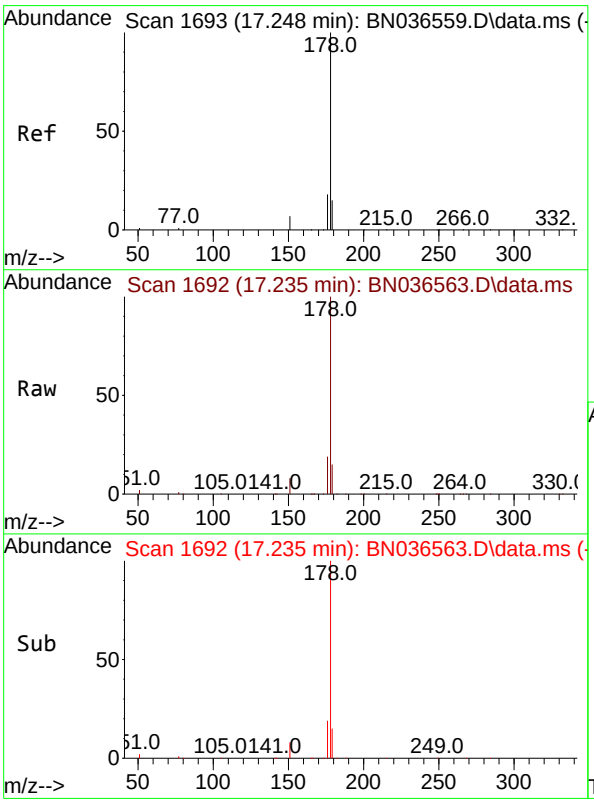
#25
Phenanthrene
Concen: 4.979 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 135347

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.2	12.2	18.4

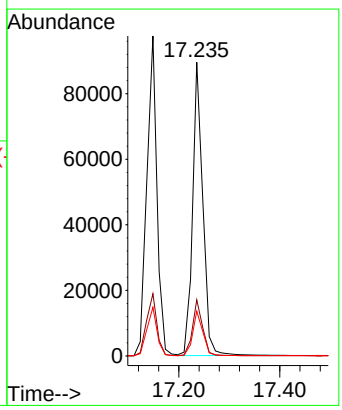


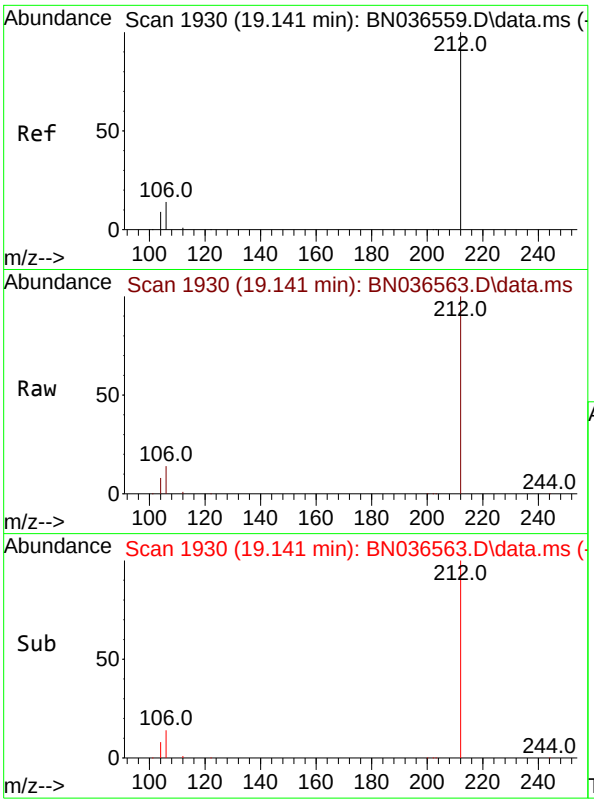


#26
Anthracene
Concen: 5.135 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:178 Resp: 125954

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.2	12.6	18.8



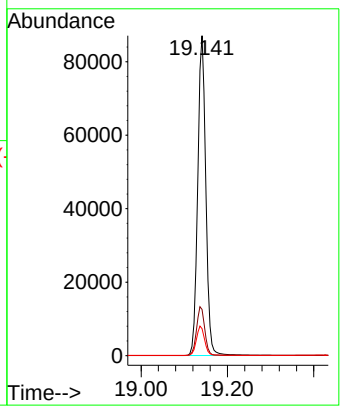


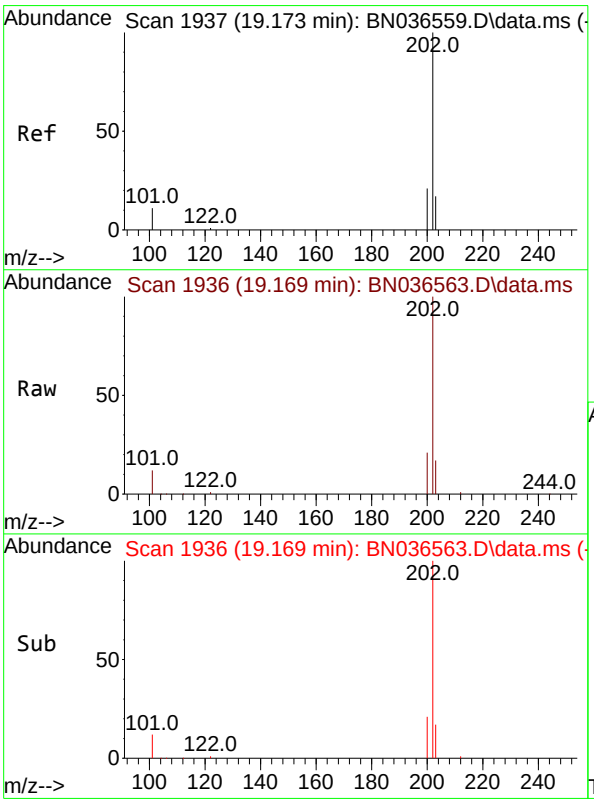
#27
Fluoranthene-d10
Concen: 4.879 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 113317

Ion	Ratio	Lower	Upper
212	100		
106	15.5	11.8	17.6
104	9.2	7.3	10.9

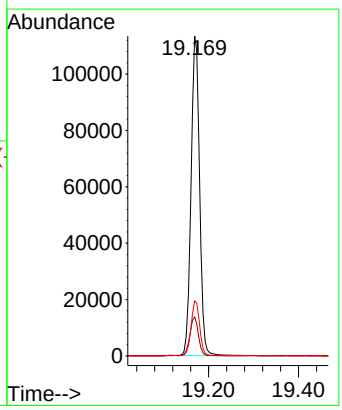


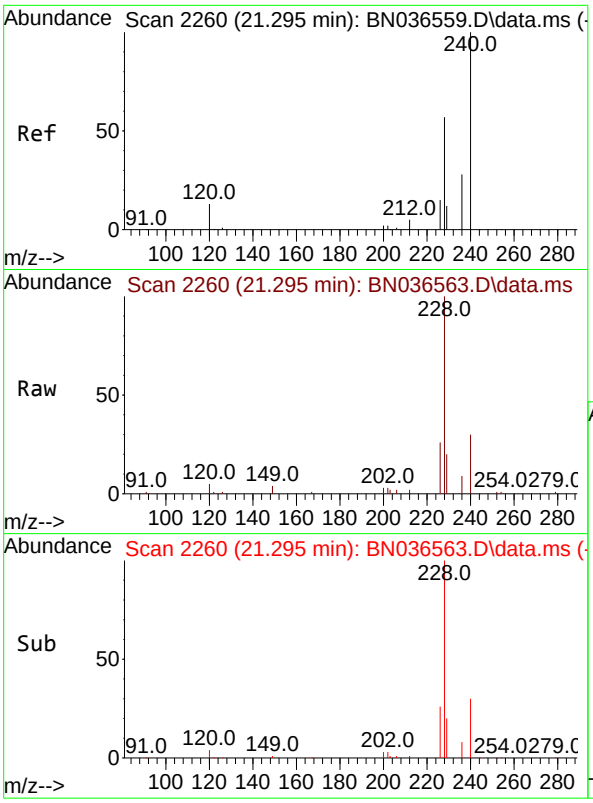


#28
Fluoranthene
Concen: 4.883 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:202 Resp: 149107

Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.4	14.0
203	17.3	13.5	20.3



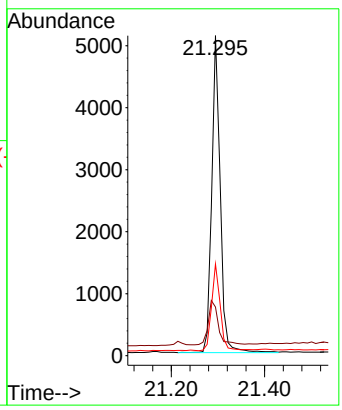


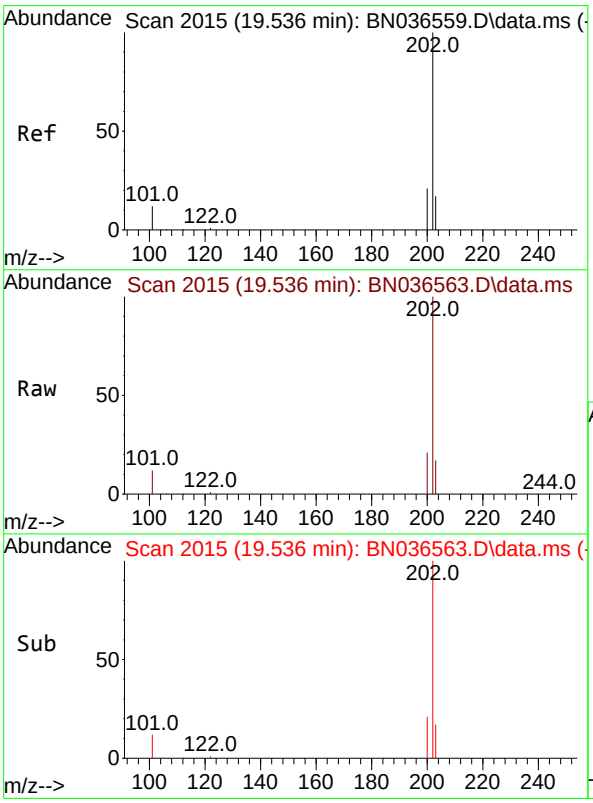
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 6472

Ion	Ratio	Lower	Upper
240	100		
120	15.2	14.6	22.0
236	28.7	24.1	36.1

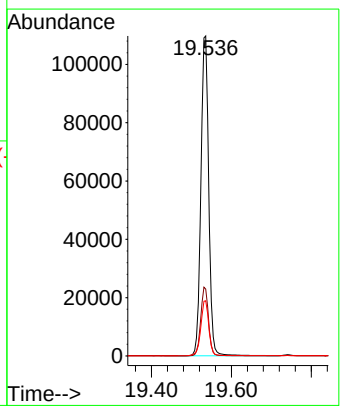


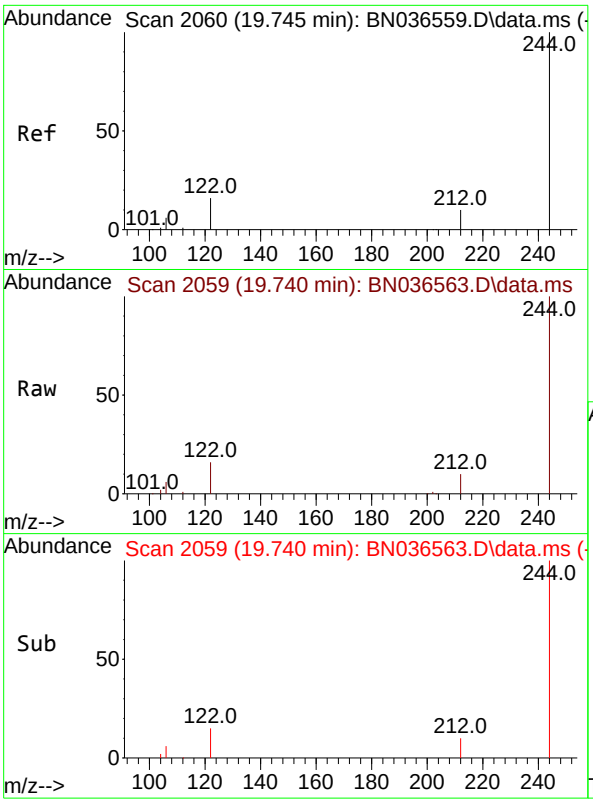


#30
Pyrene
Concen: 4.695 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:202 Resp: 148584

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.7	14.1	21.1



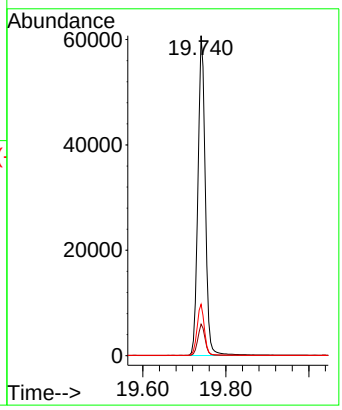


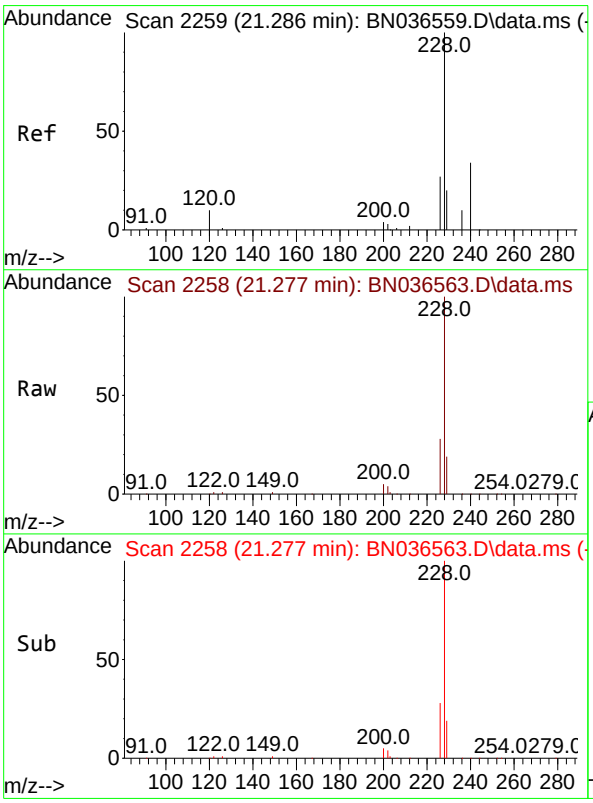
#31
Terphenyl-d14
Concen: 4.832 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 74923

Ion	Ratio	Lower	Upper
244	100		
212	9.9	9.6	14.4
122	16.1	13.9	20.9

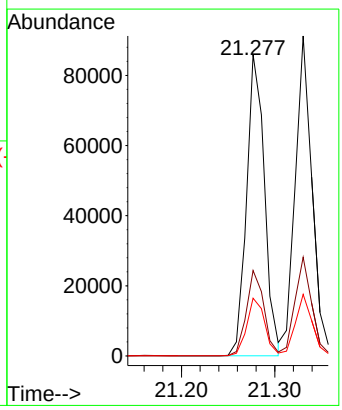


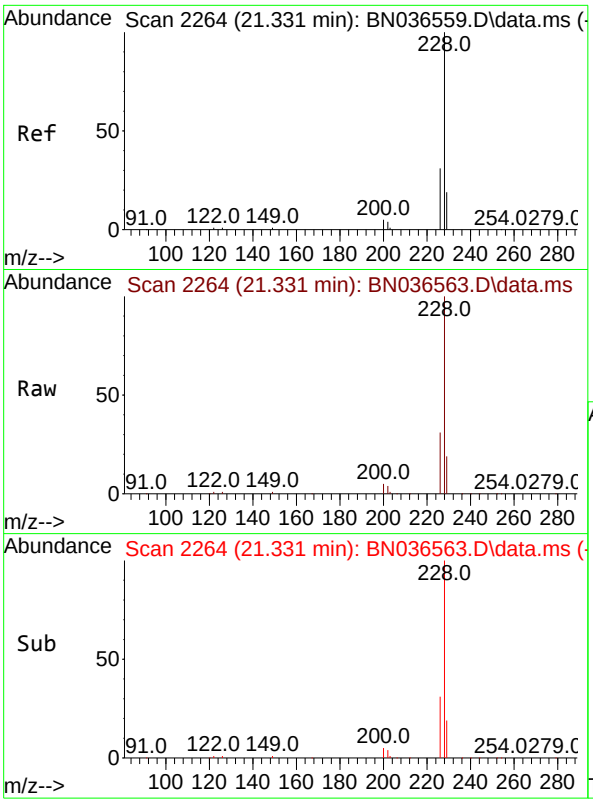


#32
Benzo(a)anthracene
Concen: 5.087 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:228 Resp: 114481

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	19.2	16.6	25.0



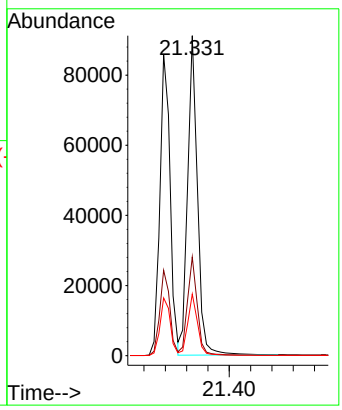


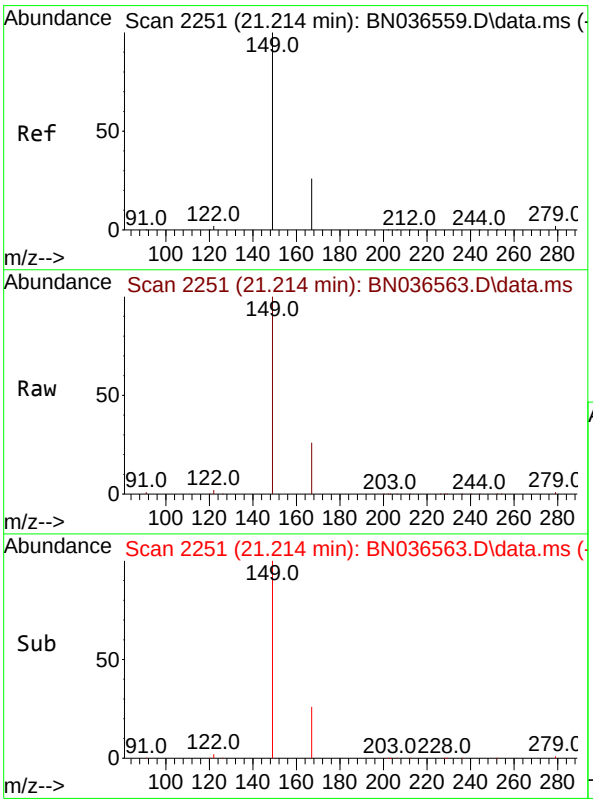
#33
Chrysene
Concen: 4.764 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 117149

Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.3	37.9
229	19.3	15.8	23.8

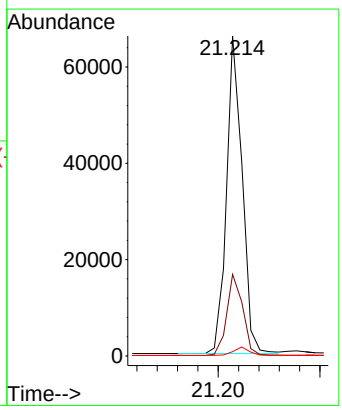


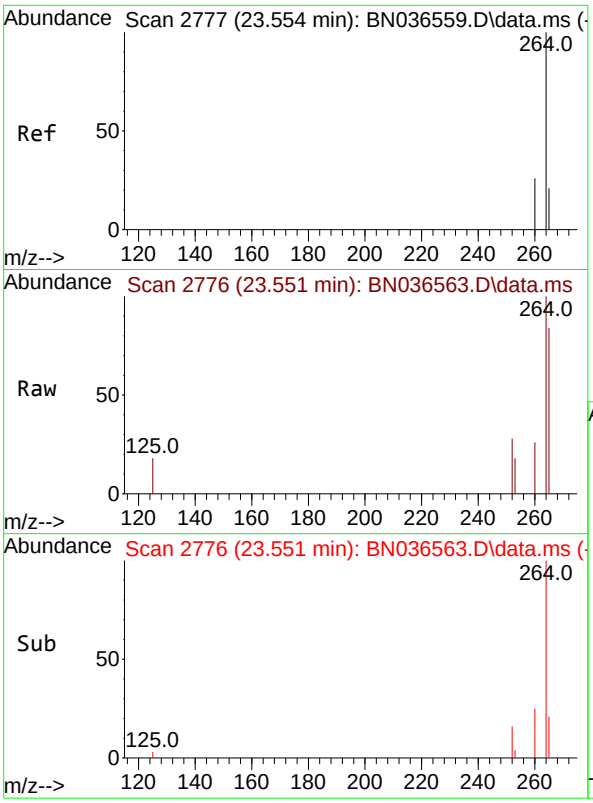


#34
Bis(2-ethylhexyl)phthalate
Concen: 4.390 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:149 Resp: 70345

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.7	31.1
279	2.6	3.6	5.4#



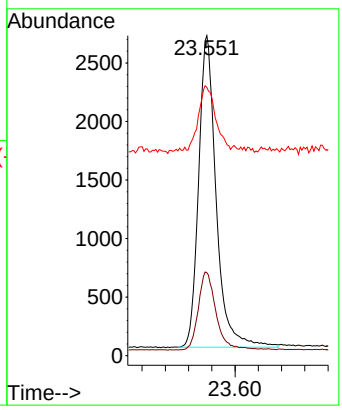


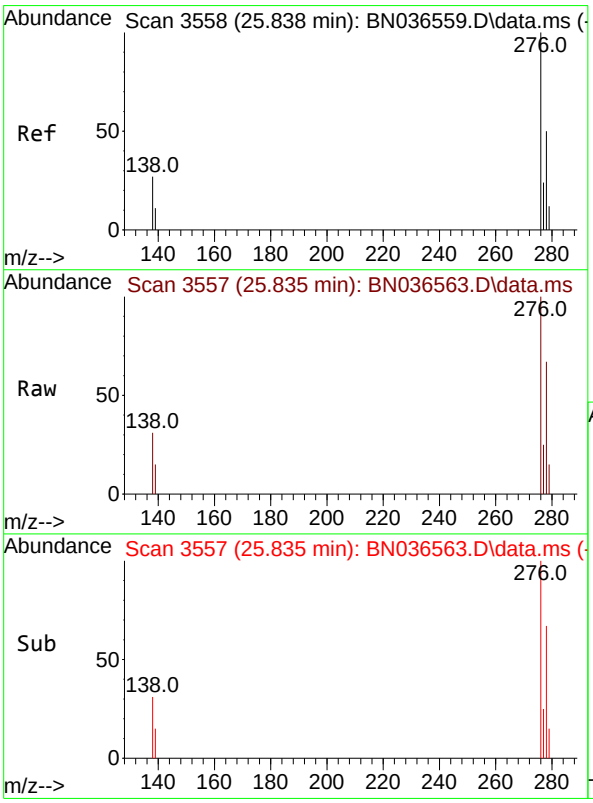
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 5580

Ion	Ratio	Lower	Upper
264	100		
260	25.9	22.6	33.8
265	83.8	88.1	132.1#

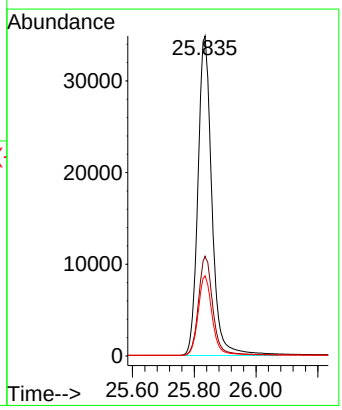


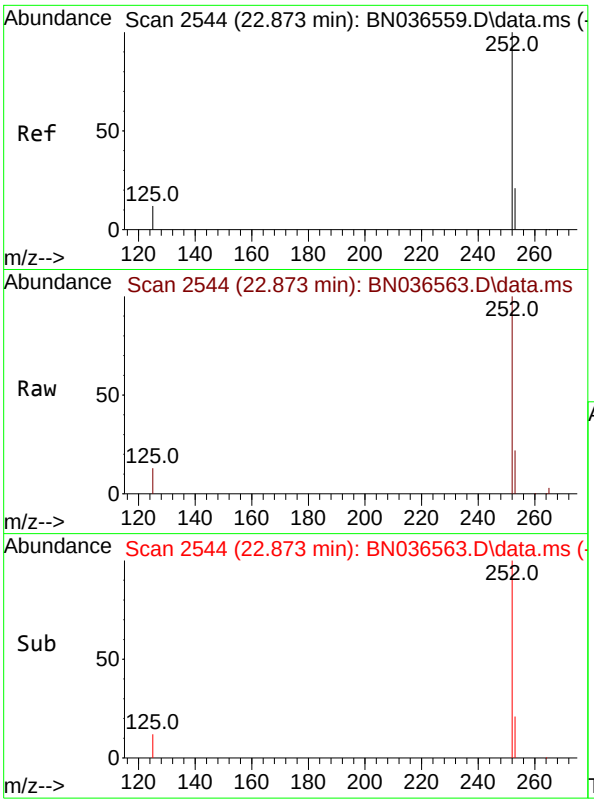


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.440 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:276 Resp: 109561

Ion	Ratio	Lower	Upper
276	100		
138	31.6	23.4	35.2
277	24.9	20.0	30.0



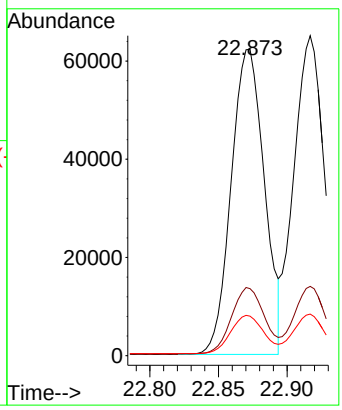


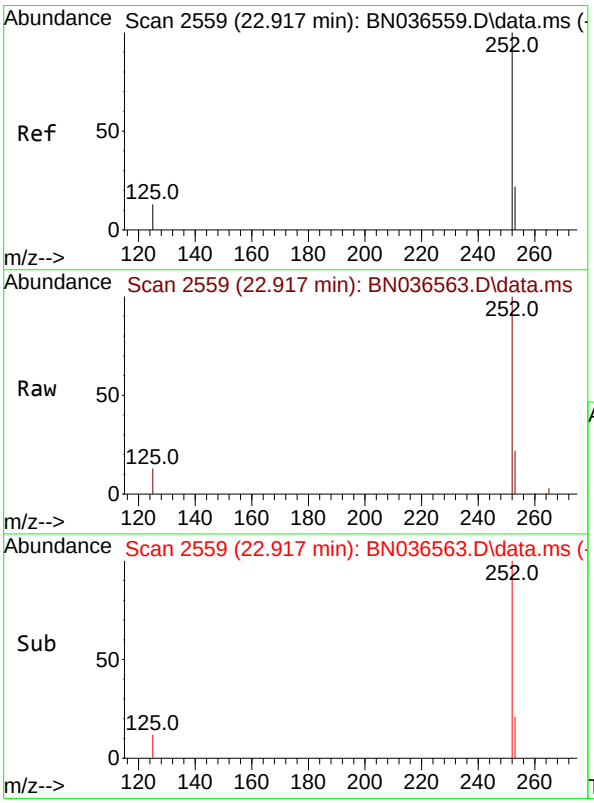
#37
Benzo(b)fluoranthene
Concen: 5.146 ng
RT: 22.873 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 104498

Ion	Ratio	Lower	Upper
252	100		
253	21.9	23.9	35.9#
125	12.9	17.4	26.2#

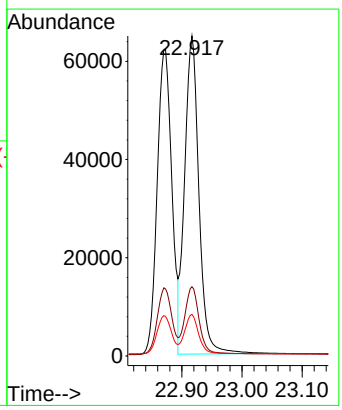


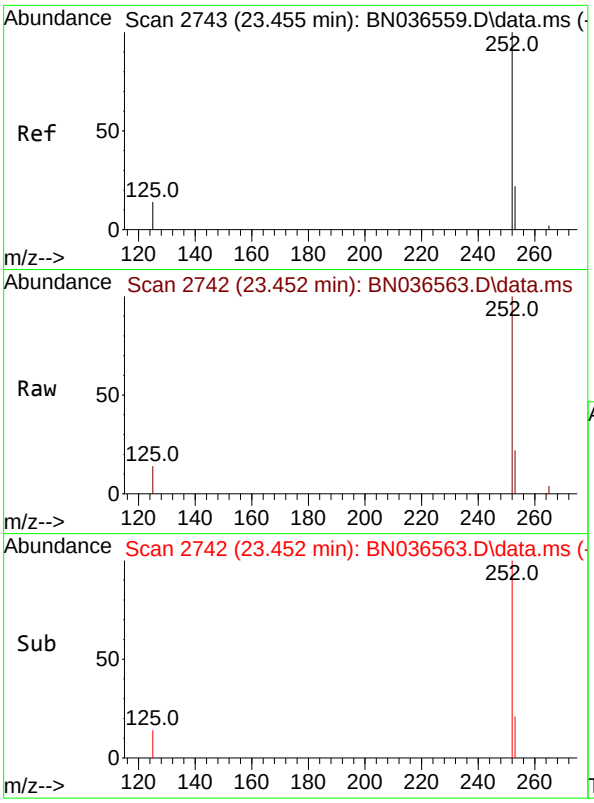


#38
Benzo(k)fluoranthene
Concen: 5.022 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:252 Resp: 106995

Ion	Ratio	Lower	Upper
252	100		
253	21.6	24.6	36.8#
125	13.0	17.8	26.8#



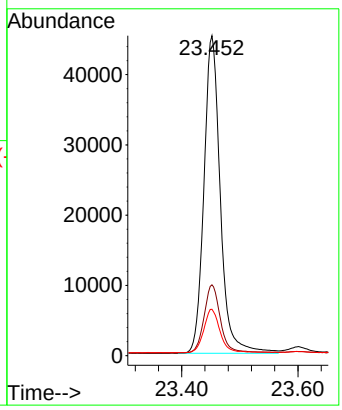


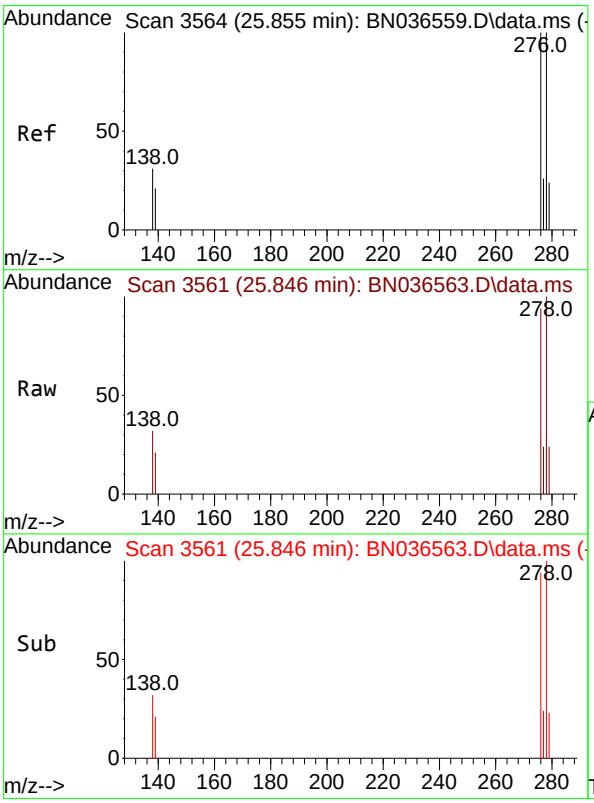
#39
Benzo(a)pyrene
Concen: 5.170 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 88413

Ion	Ratio	Lower	Upper
252	100		
253	22.2	27.8	41.8#
125	14.5	22.7	34.1#

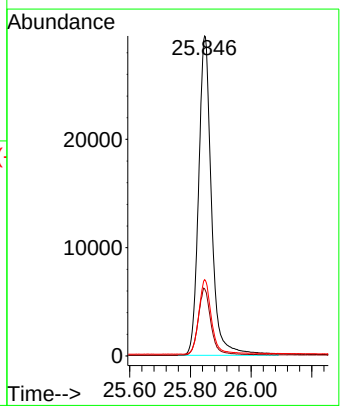


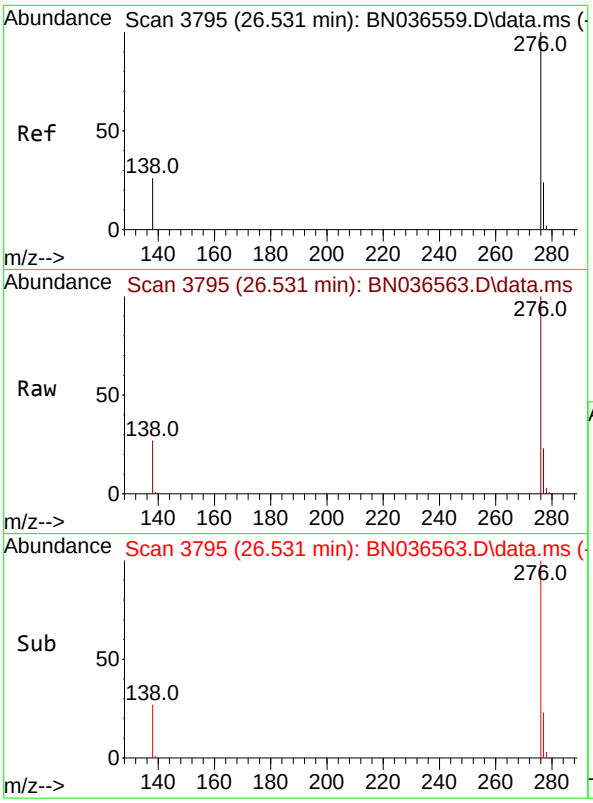


#40
Dibenzo(a,h)anthracene
Concen: 5.568 ng
RT: 25.846 min Scan# 3561
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:278 Resp: 87308

Ion	Ratio	Lower	Upper
278	100		
139	21.0	20.8	31.2
279	23.9	28.8	43.2#



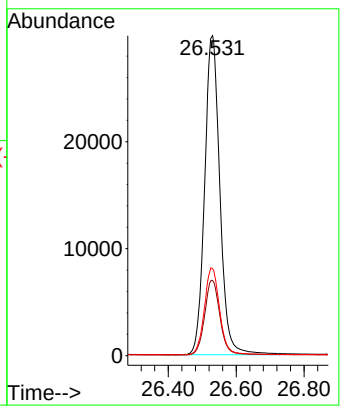


#41
Benzo(g,h,i)perylene
Concen: 5.189 ng
RT: 26.531 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 93067

Ion	Ratio	Lower	Upper
276	100		
277	23.4	22.2	33.4
138	27.1	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

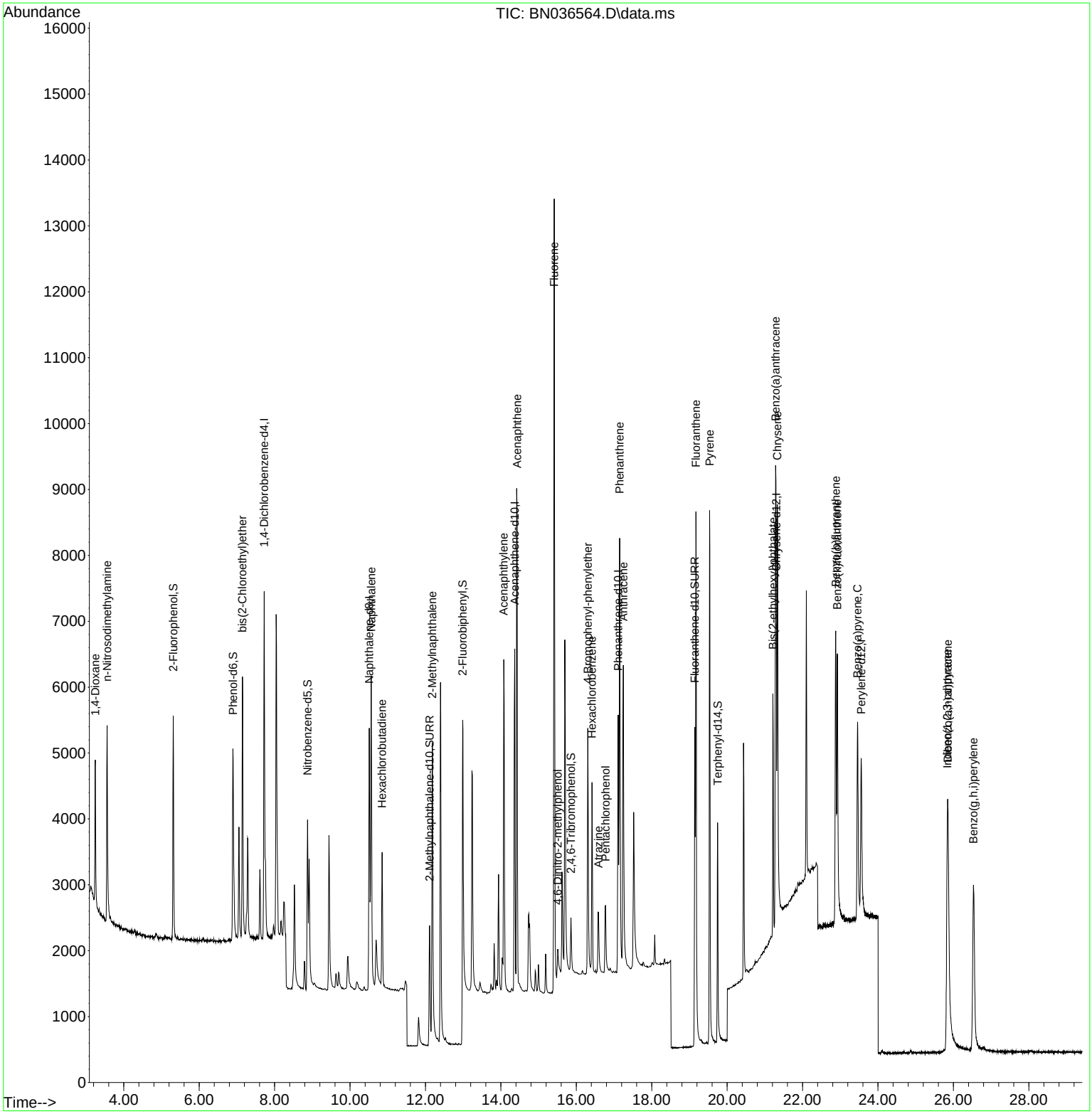
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2488	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5634	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3085	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	5778	0.400	ng		0.00
29) Chrysene-d12	21.304	240	4219	0.400	ng		0.00
35) Perylene-d12	23.554	264	3835	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	2418	0.417	ng		0.00
5) Phenol-d6	6.901	99	2744	0.383	ng		0.00
8) Nitrobenzene-d5	8.875	82	2356	0.384	ng		0.00
11) 2-Methylnaphthalene-d10	12.111	152	3345	0.399	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	511	0.365	ng		0.00
15) 2-Fluorobiphenyl	12.988	172	7753	0.432	ng		0.00
27) Fluoranthene-d10	19.141	212	6152	0.415	ng		0.00
31) Terphenyl-d14	19.750	244	3880	0.384	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	1297	0.470	ng		97
3) n-Nitrosodimethylamine	3.557	42	2284	0.409	ng		96
6) bis(2-Chloroethyl)ether	7.147	93	2945	0.398	ng		100
9) Naphthalene	10.562	128	6710	0.405	ng		99
10) Hexachlorobutadiene	10.850	225	1694	0.434	ng	#	98
12) 2-Methylnaphthalene	12.182	142	4064	0.385	ng		99
16) Acenaphthylene	14.077	152	6059	0.416	ng		99
17) Acenaphthene	14.430	154	4035	0.423	ng		99
18) Fluorene	15.414	166	5226	0.405	ng		99
20) 4,6-Dinitro-2-methylph...	15.510	198	404	0.420	ng		94
21) 4-Bromophenyl-phenylether	16.304	248	1524	0.421	ng		96
22) Hexachlorobenzene	16.416	284	1987	0.455	ng		99
23) Atrazine	16.590	200	1165	0.401	ng		95
24) Pentachlorophenol	16.776	266	699	0.351	ng		95
25) Phenanthrene	17.148	178	7229	0.417	ng		99
26) Anthracene	17.248	178	6358	0.407	ng		99
28) Fluoranthene	19.174	202	8068	0.414	ng		100
30) Pyrene	19.536	202	8156	0.395	ng		100
32) Benzo(a)anthracene	21.286	228	5814	0.396	ng		100
33) Chrysene	21.331	228	6940	0.433	ng		98
34) Bis(2-ethylhexyl)phtha...	21.214	149	3594	0.344	ng		98
36) Indeno(1,2,3-cd)pyrene	25.841	276	6410	0.463	ng		98
37) Benzo(b)fluoranthene	22.879	252	5902	0.423	ng		99
38) Benzo(k)fluoranthene	22.923	252	6286	0.429	ng		98
39) Benzo(a)pyrene	23.458	252	5147	0.438	ng		99
40) Dibenzo(a,h)anthracene	25.855	278	4740	0.440	ng		97
41) Benzo(g,h,i)perylene	26.534	276	5877	0.477	ng		97

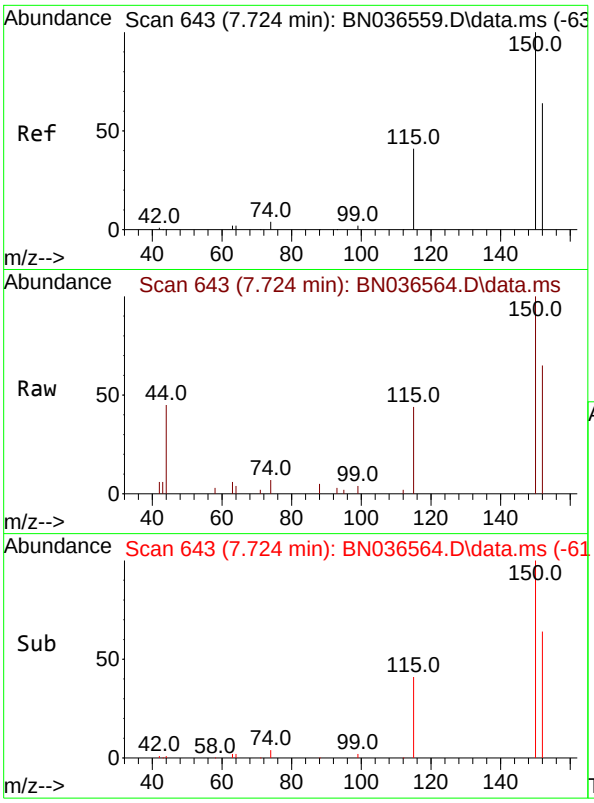
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



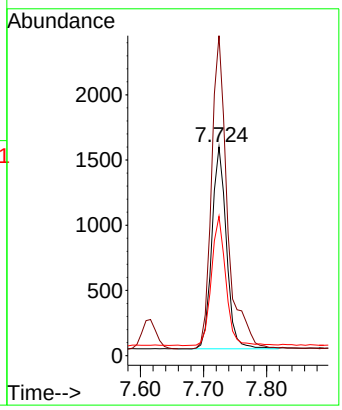


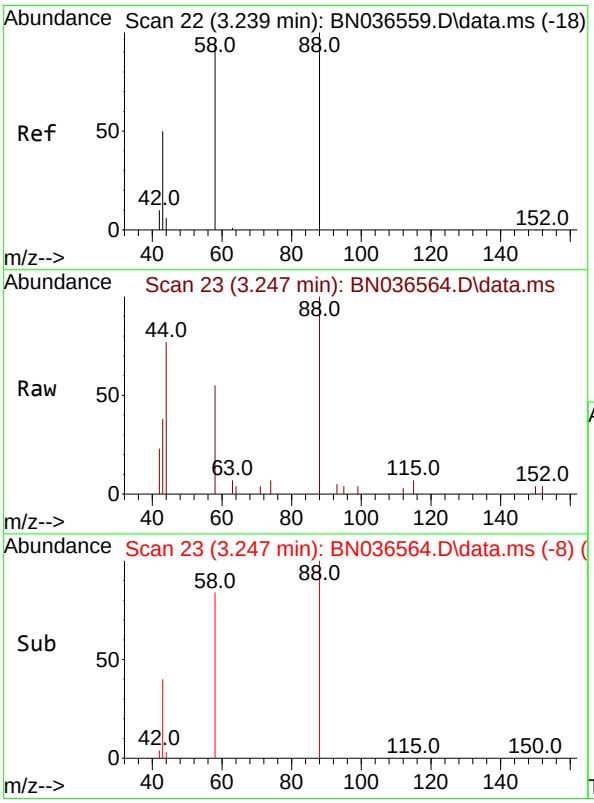
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:152 Resp: 2488

Ion	Ratio	Lower	Upper
152	100		
150	153.3	123.7	185.5
115	66.7	54.3	81.5

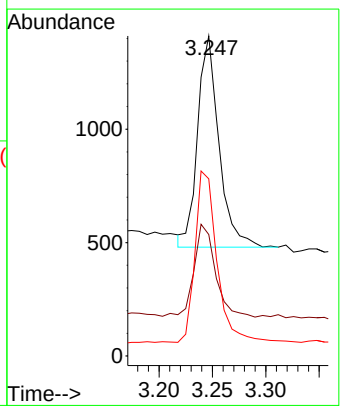


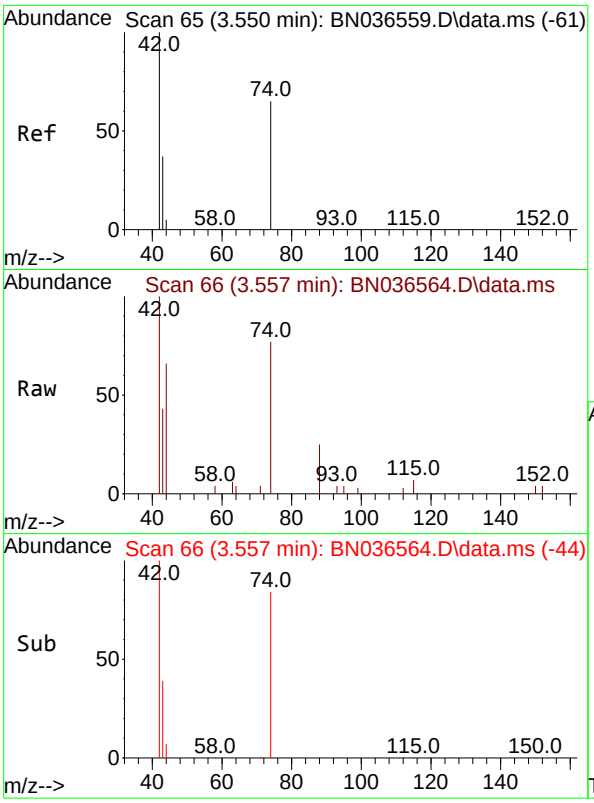


#2
1,4-Dioxane
Concen: 0.470 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 88 Resp: 1297

Ion	Ratio	Lower	Upper
88	100		
43	44.1	37.8	56.8
58	82.4	67.4	101.2



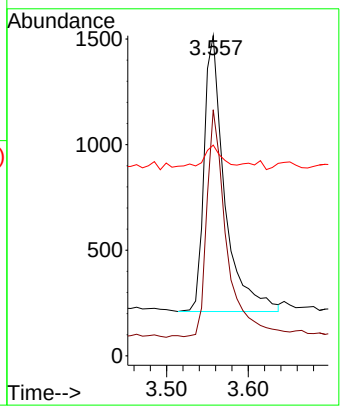


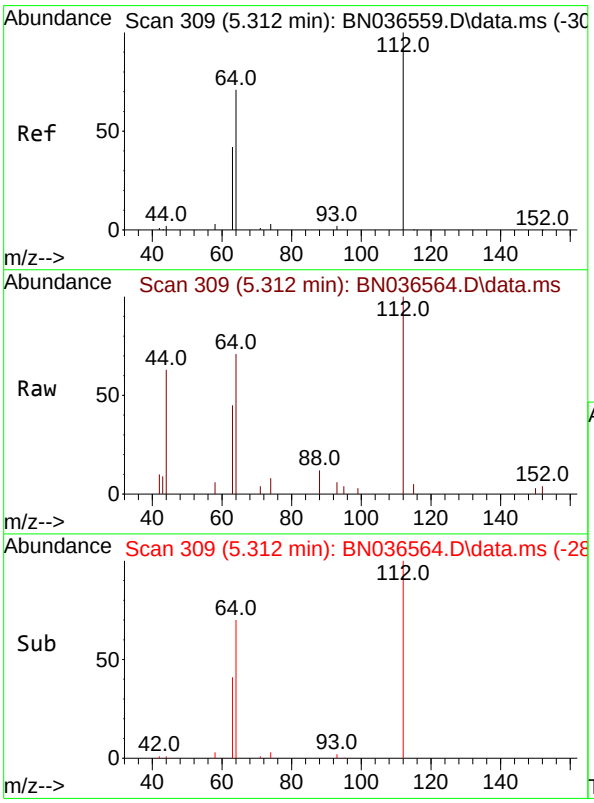
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion: 42 Resp: 2284

Ion	Ratio	Lower	Upper
42	100		
74	79.2	60.6	90.8
44	8.2	6.3	9.5

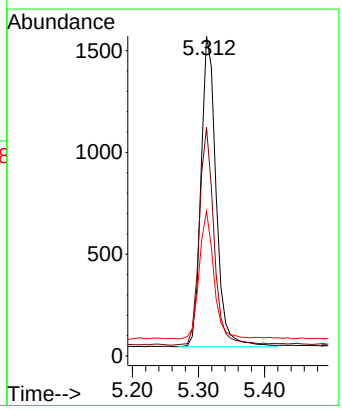


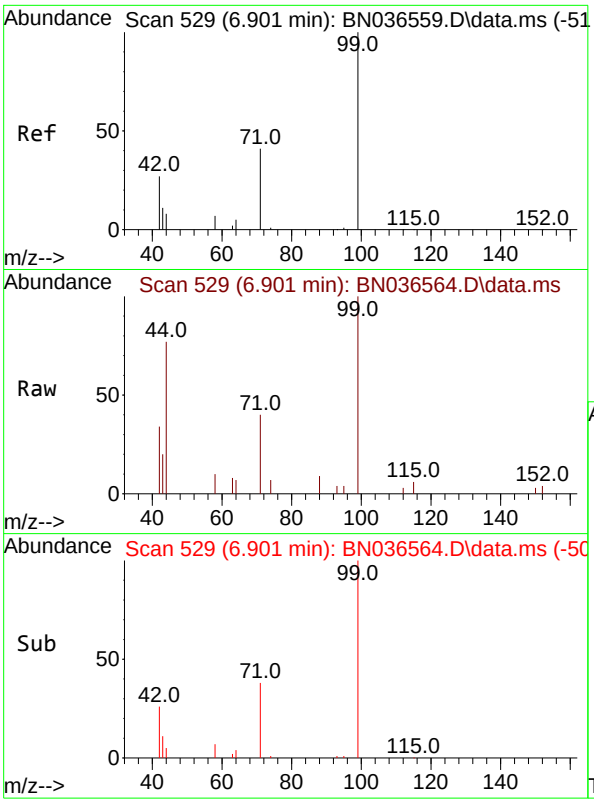


#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:112 Resp: 2418

Ion	Ratio	Lower	Upper
112	100		
64	68.2	53.1	79.7
63	39.8	31.8	47.8



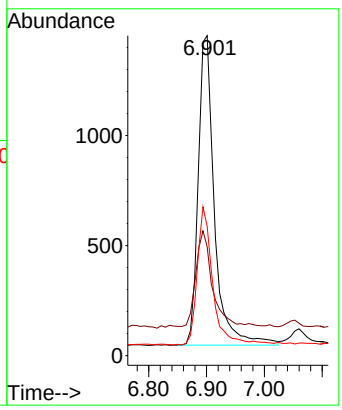


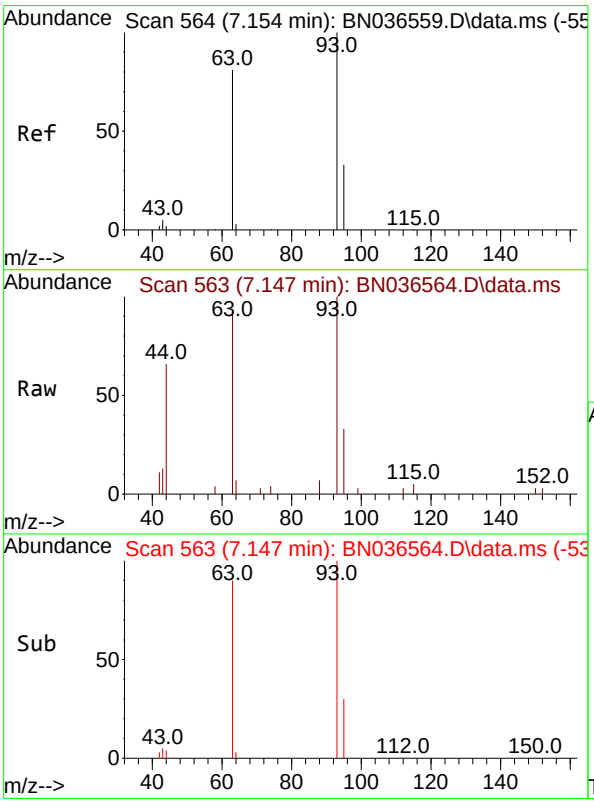
#5
Phenol-d6
Concen: 0.383 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion: 99 Resp: 2744

Ion	Ratio	Lower	Upper
99	100		
42	32.1	26.5	39.7
71	42.9	34.1	51.1

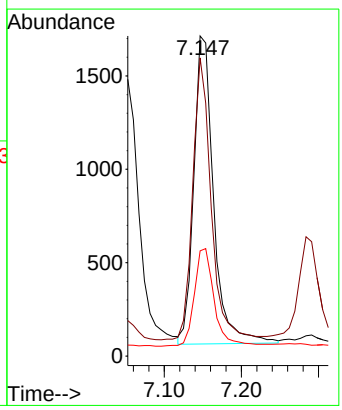


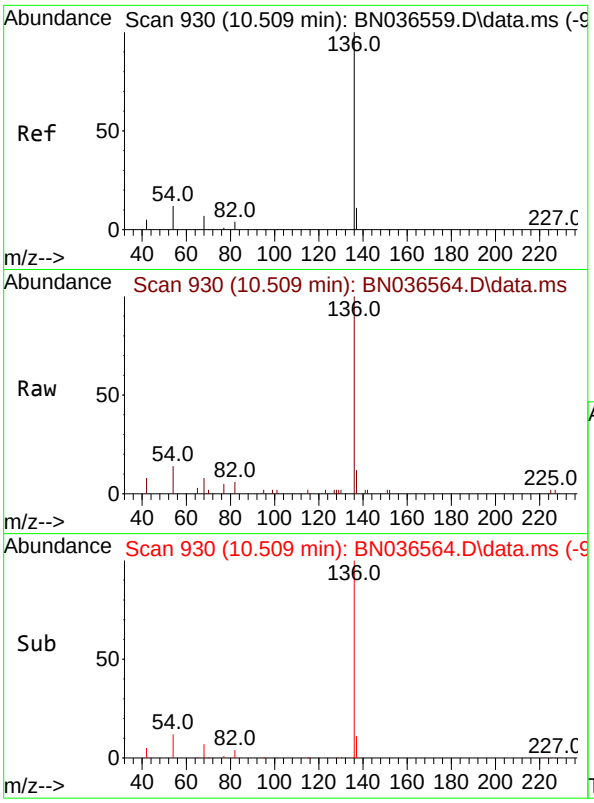


#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 93 Resp: 2945

Ion	Ratio	Lower	Upper
93	100		
63	85.1	67.7	101.5
95	31.7	25.6	38.4



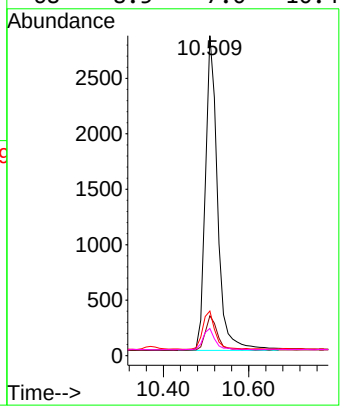


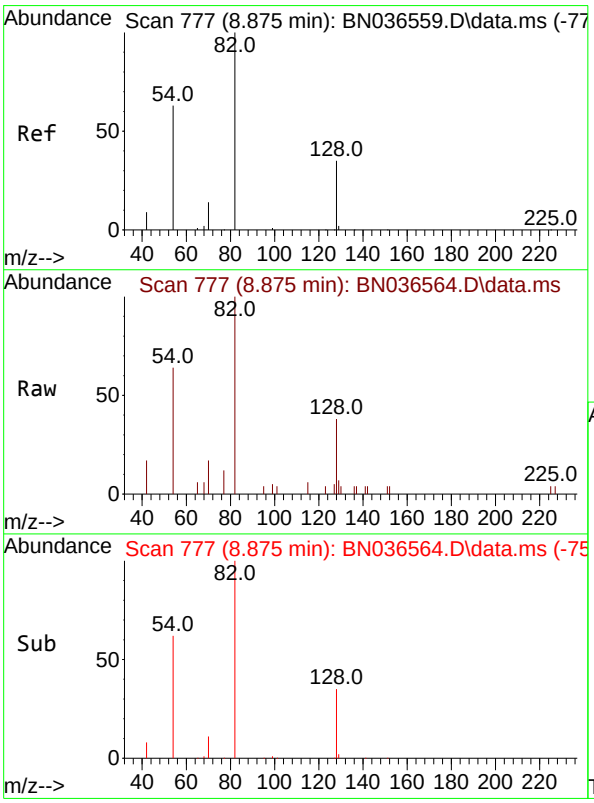
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:136 Resp: 5634

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.9	11.5	17.3
68	8.5	7.0	10.4

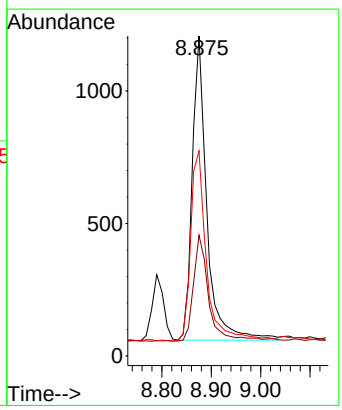


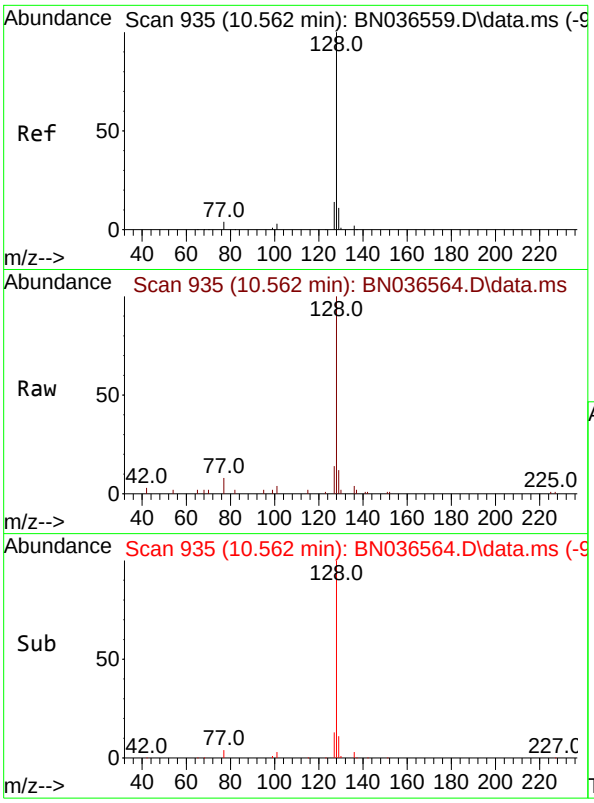


#8
Nitrobenzene-d5
Concen: 0.384 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 82 Resp: 2356

Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.6	45.8
54	64.1	52.2	78.4



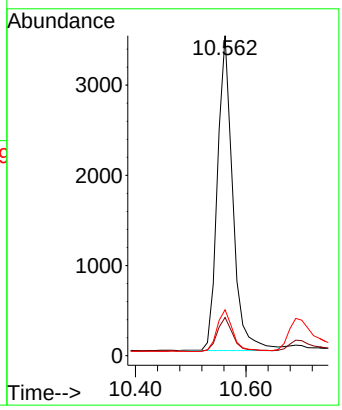


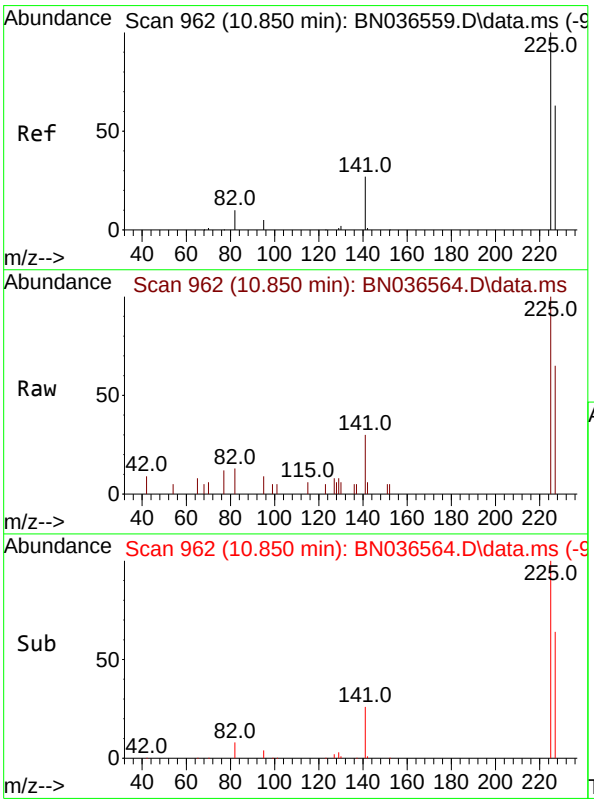
#9
Naphthalene
Concen: 0.405 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:128 Resp: 6710

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.3	11.8	17.8

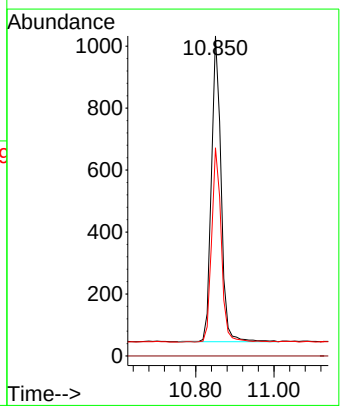


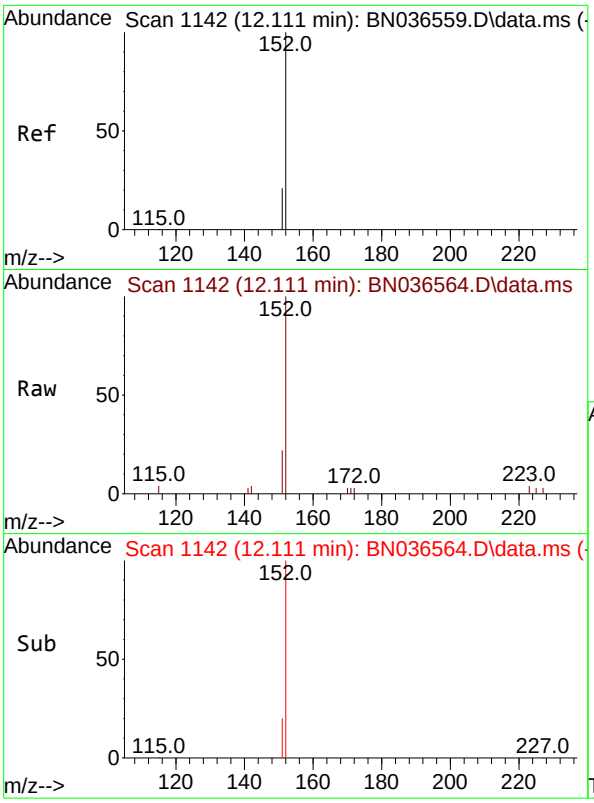


#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:225 Resp: 1694

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.8	77.8



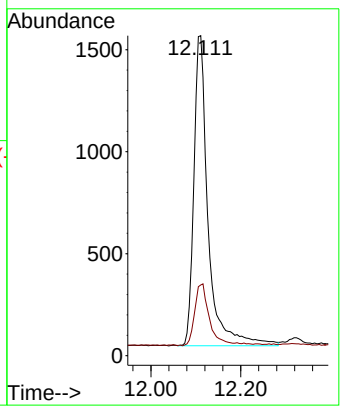


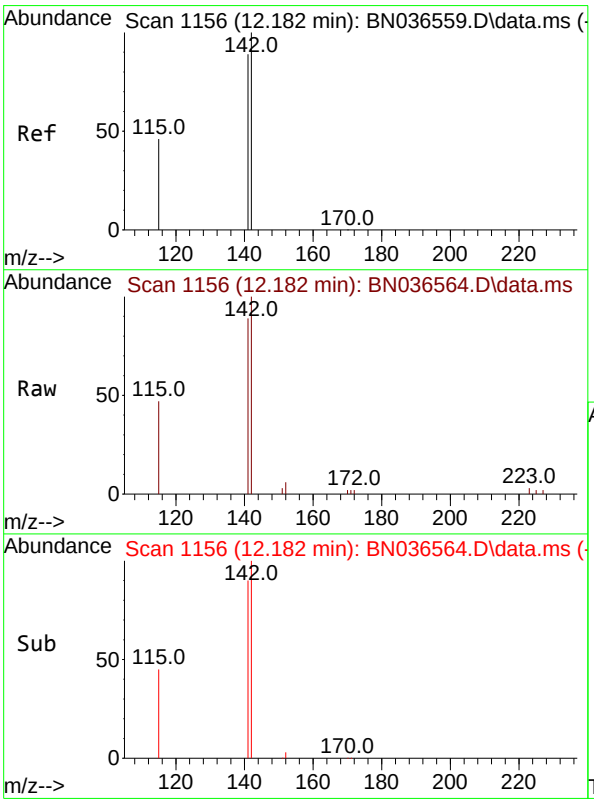
#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:152 Resp: 3345

Ion	Ratio	Lower	Upper
152	100		
151	20.2	17.0	25.6

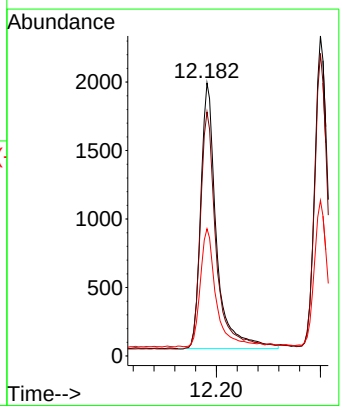


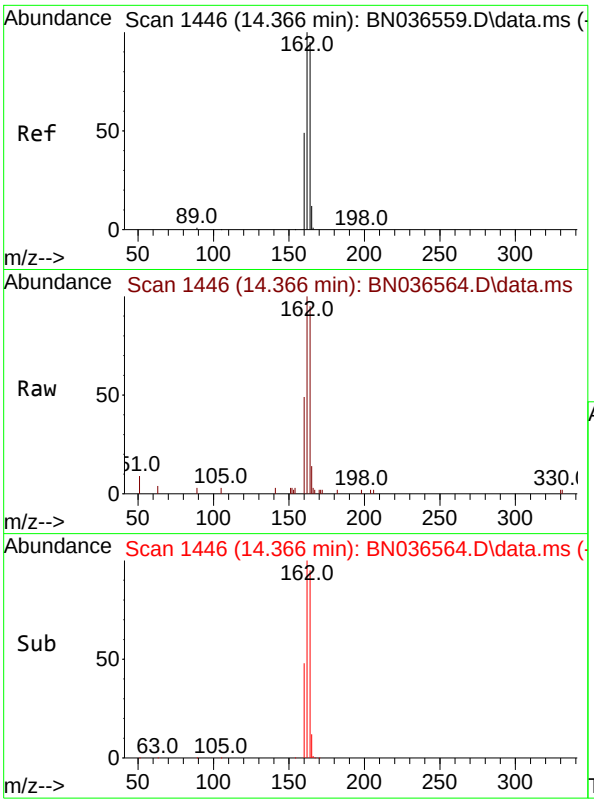


#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:142 Resp: 4064

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.7	107.5
115	46.6	38.3	57.5



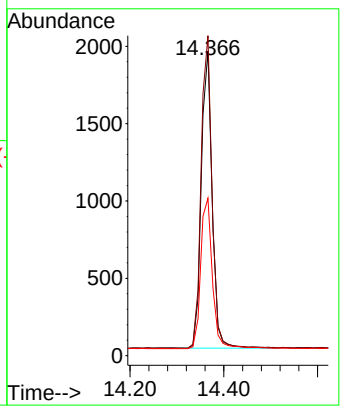


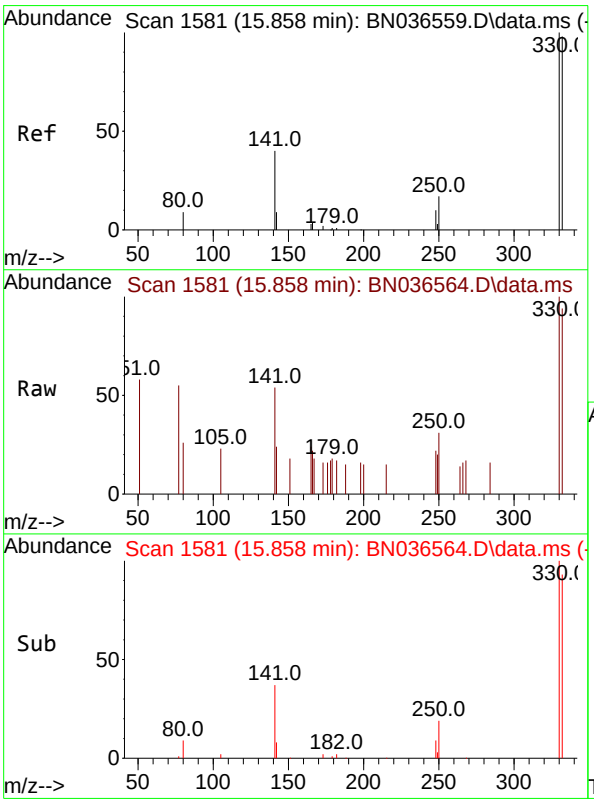
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:164 Resp: 3085

Ion	Ratio	Lower	Upper
164	100		
162	105.0	84.2	126.2
160	51.7	42.2	63.2

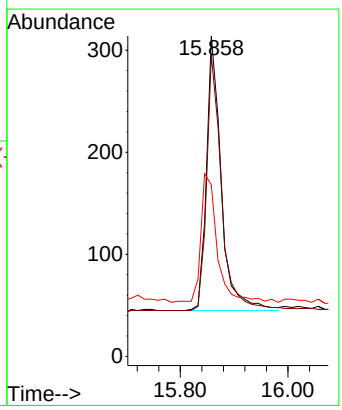


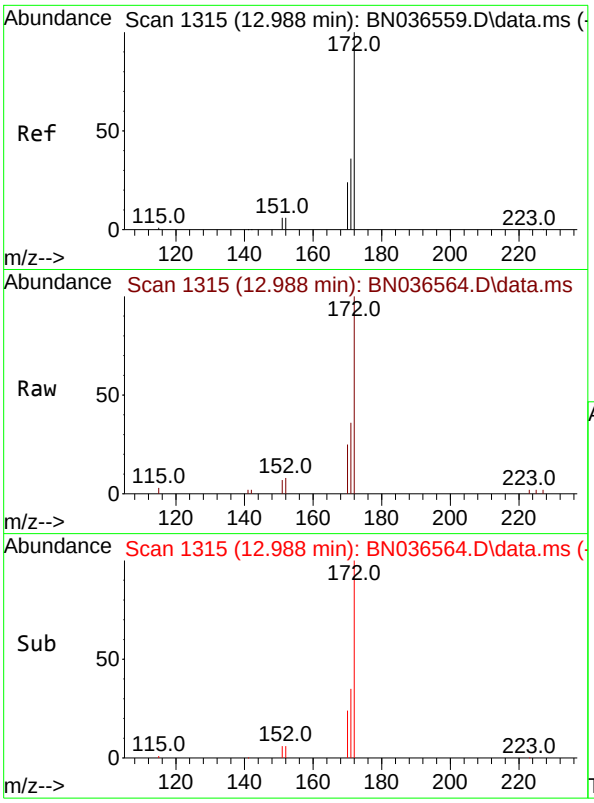


#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:330 Resp: 511

Ion	Ratio	Lower	Upper
330	100		
332	93.9	75.2	112.8
141	51.5	43.4	65.2



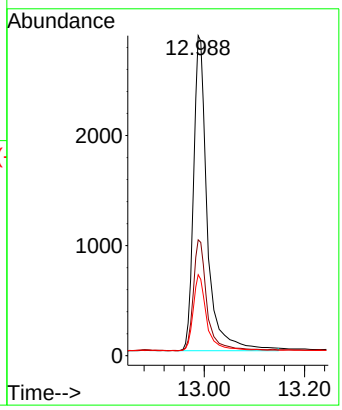


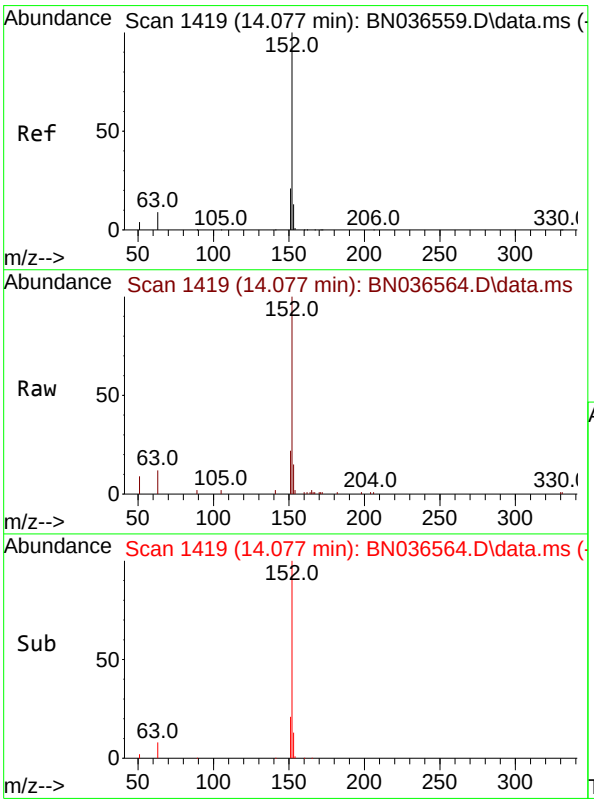
#15
2-Fluorobiphenyl
Concen: 0.432 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:172 Resp: 7753

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	25.3	20.2	30.4

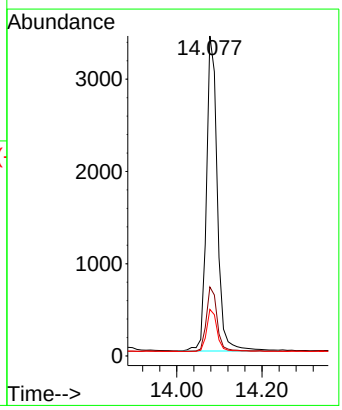


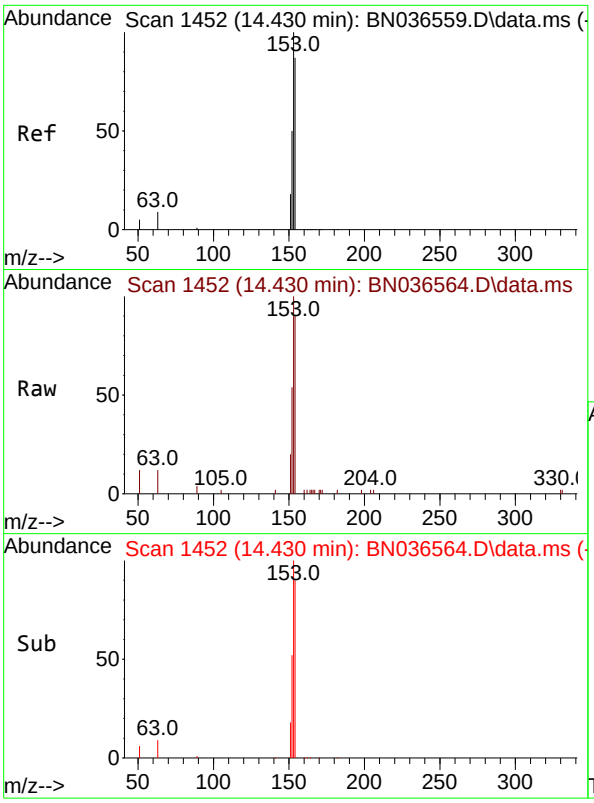


#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:152 Resp: 6059

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	12.9	10.6	15.8



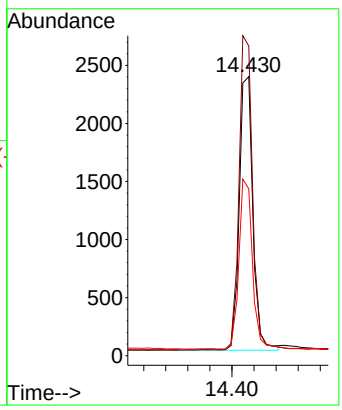


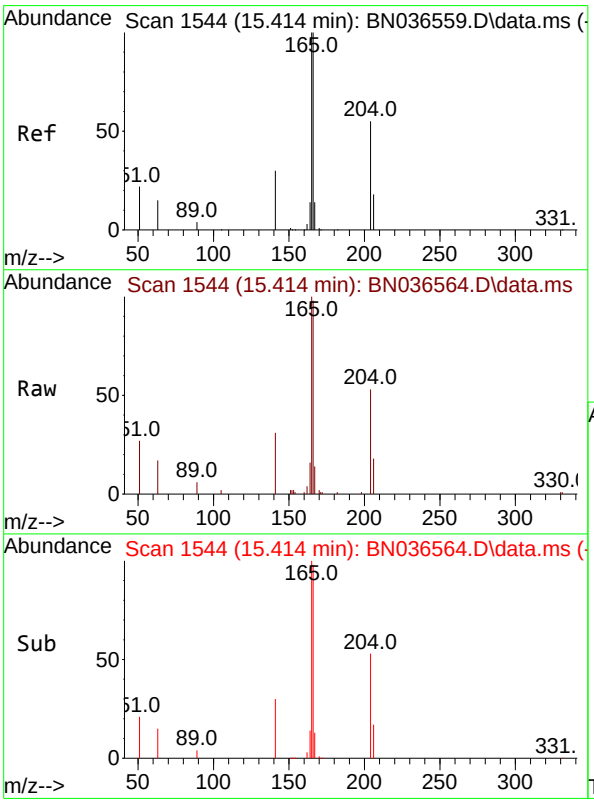
#17
Acenaphthene
Concen: 0.423 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:154 Resp: 4035

Ion	Ratio	Lower	Upper
154	100		
153	115.5	94.1	141.1
152	61.9	49.8	74.6

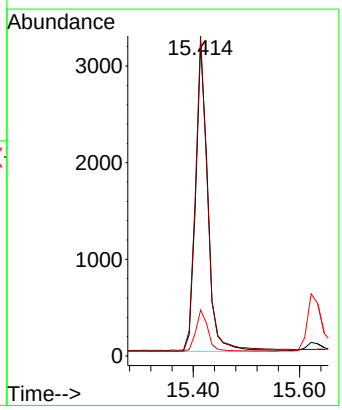


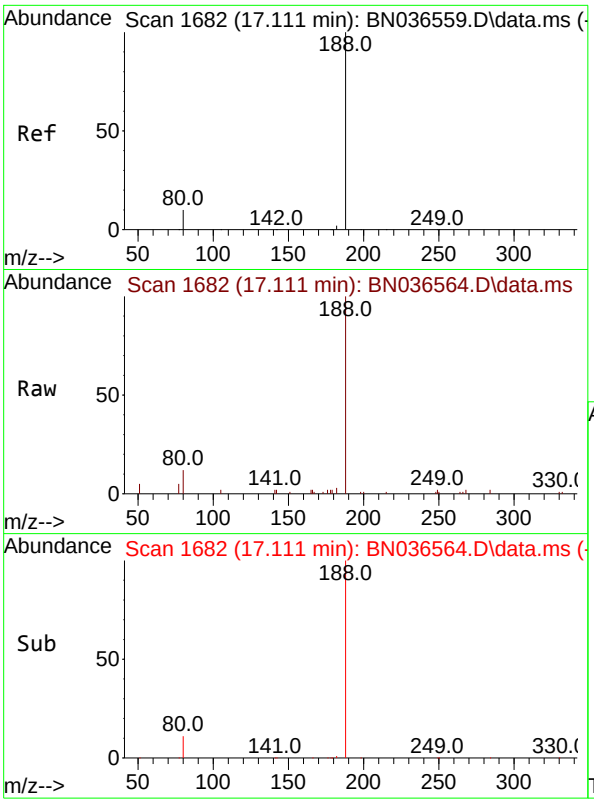


#18
Fluorene
Concen: 0.405 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:166 Resp: 5226

Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.8
167	13.1	10.6	15.8



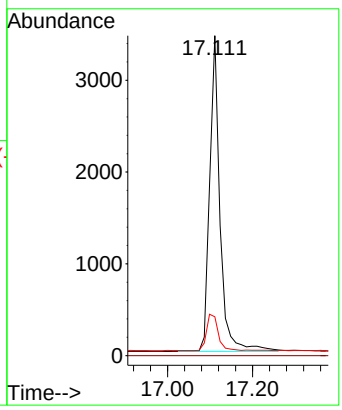


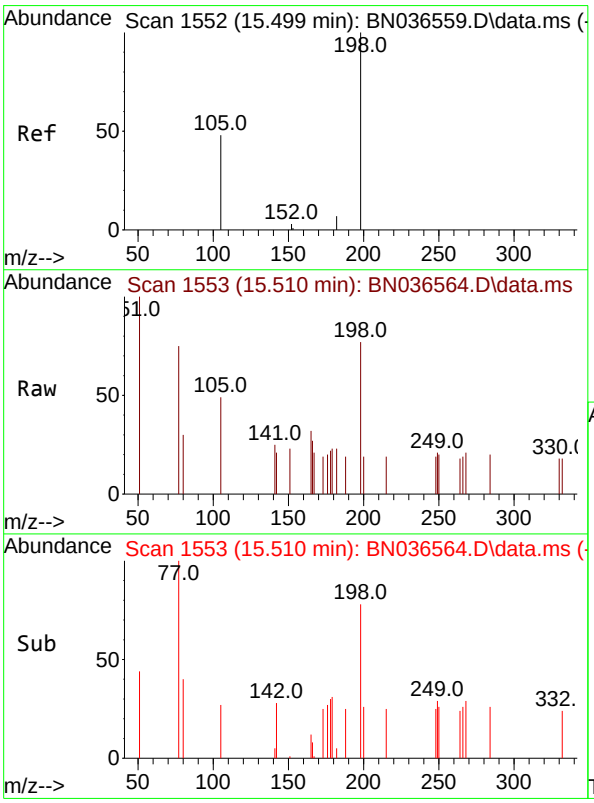
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:188 Resp: 5778

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	8.8	13.2

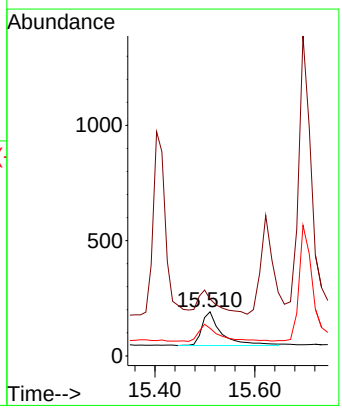


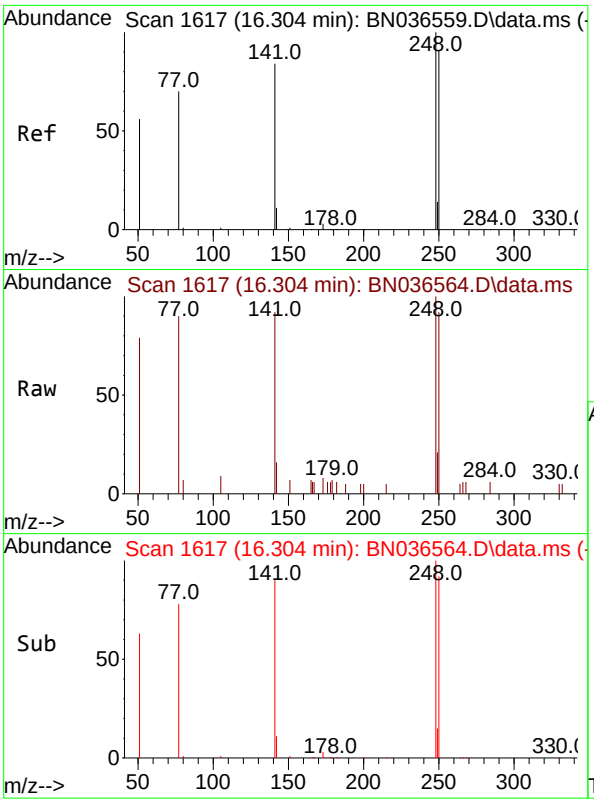


#20
4,6-Dinitro-2-methylphenol
Concen: 0.420 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:198 Resp: 404

Ion	Ratio	Lower	Upper
198	100		
51	129.3	107.9	161.9
105	62.8	56.2	84.2



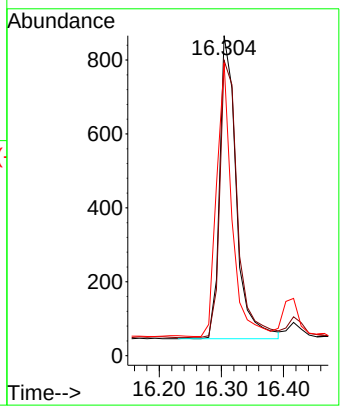


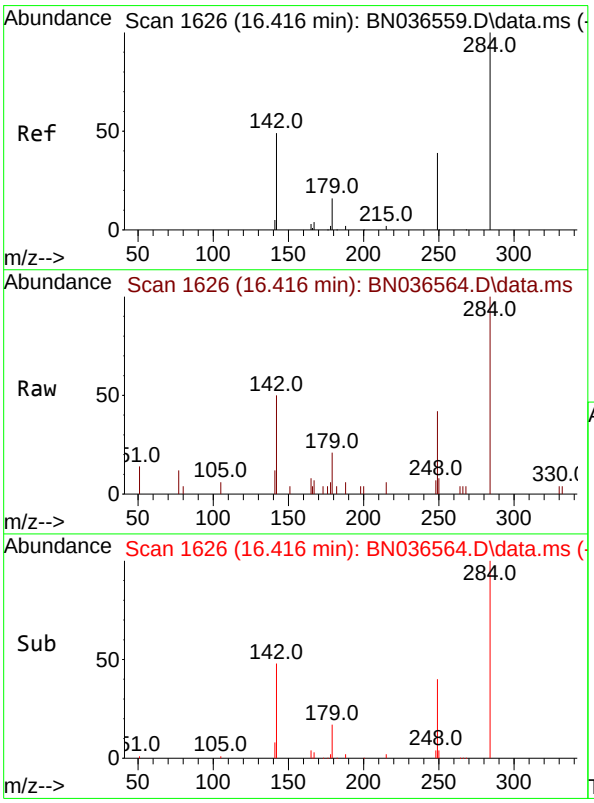
#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:248 Resp: 1524

Ion	Ratio	Lower	Upper
248	100		
250	92.3	73.0	109.6
141	91.6	68.6	103.0

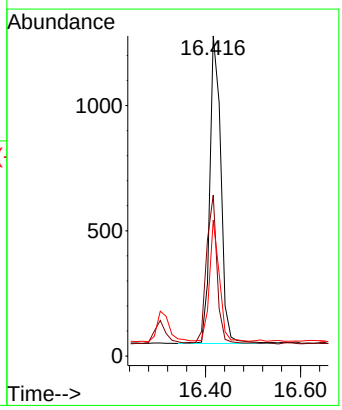


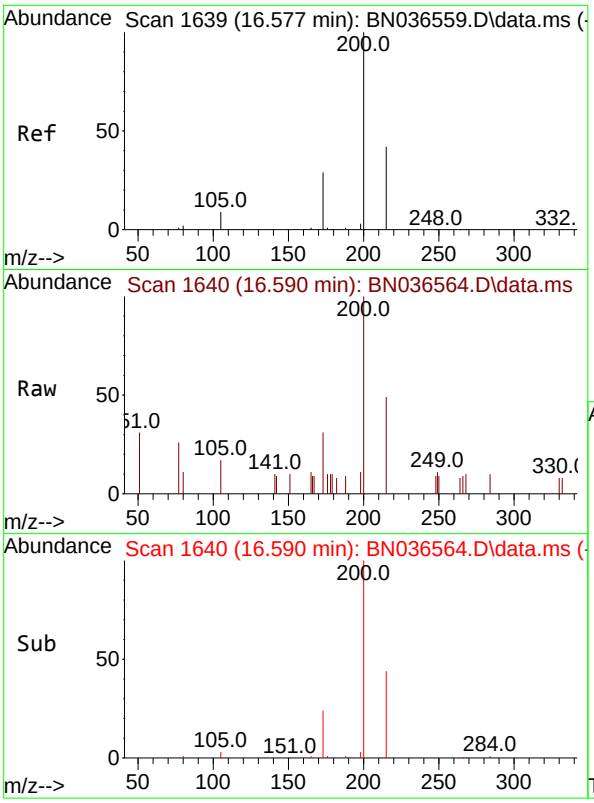


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:284 Resp: 1987

Ion	Ratio	Lower	Upper
284	100		
142	47.5	37.0	55.4
249	34.9	28.1	42.1



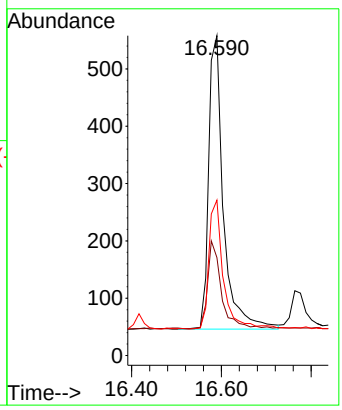


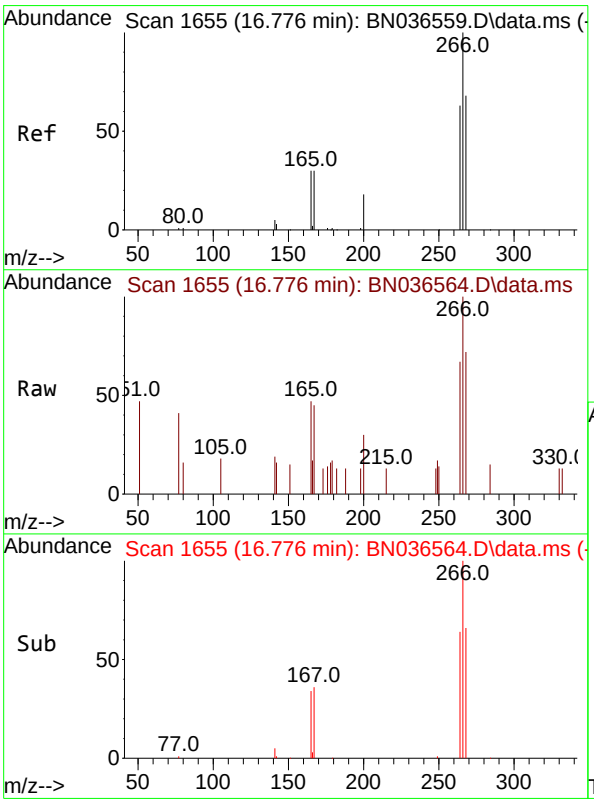
#23
Atrazine
Concen: 0.401 ng
RT: 16.590 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:200 Resp: 1165

Ion	Ratio	Lower	Upper
200	100		
173	30.6	27.3	40.9
215	48.6	36.8	55.2

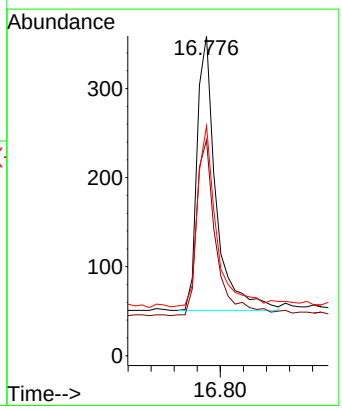


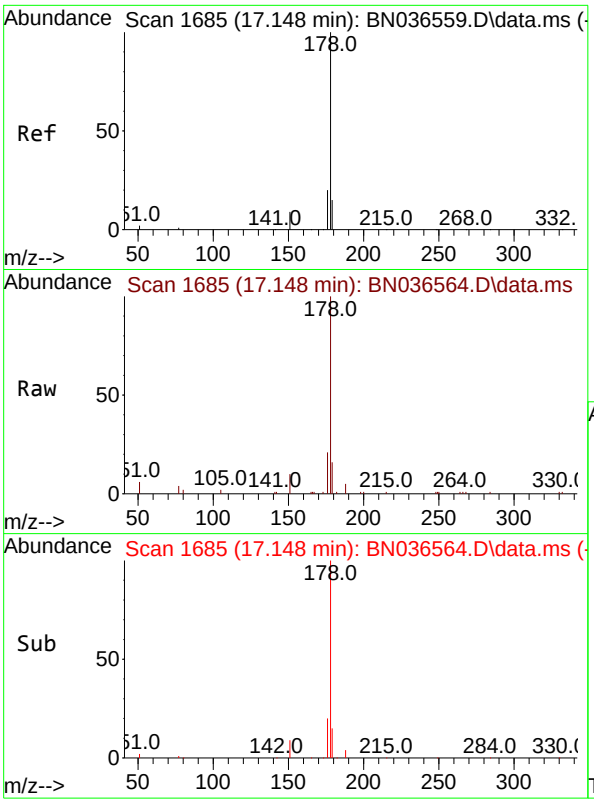


#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:266 Resp: 699

Ion	Ratio	Lower	Upper
266	100		
264	67.1	49.6	74.4
268	66.7	50.9	76.3



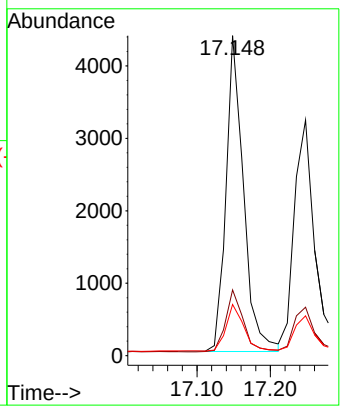


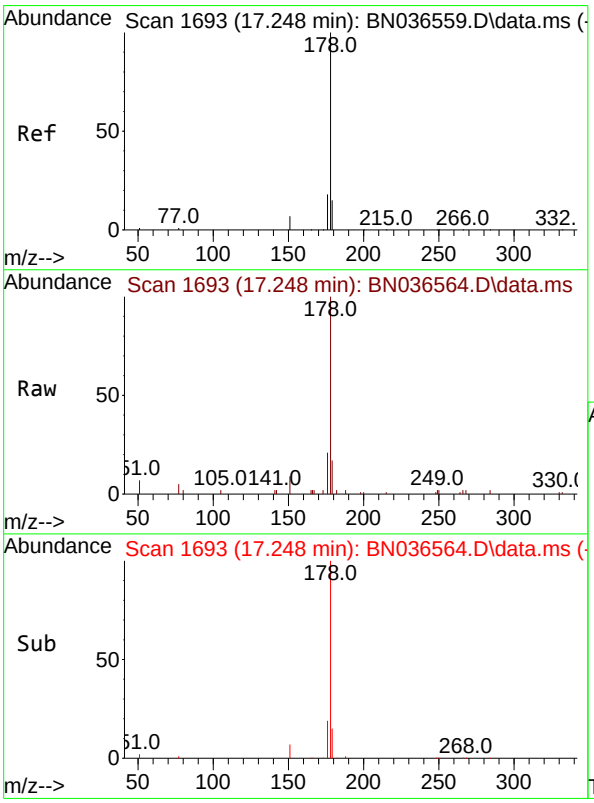
#25
Phenanthrene
Concen: 0.417 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:178 Resp: 7229

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.0	12.2	18.4

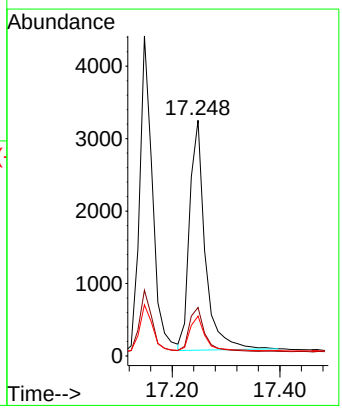


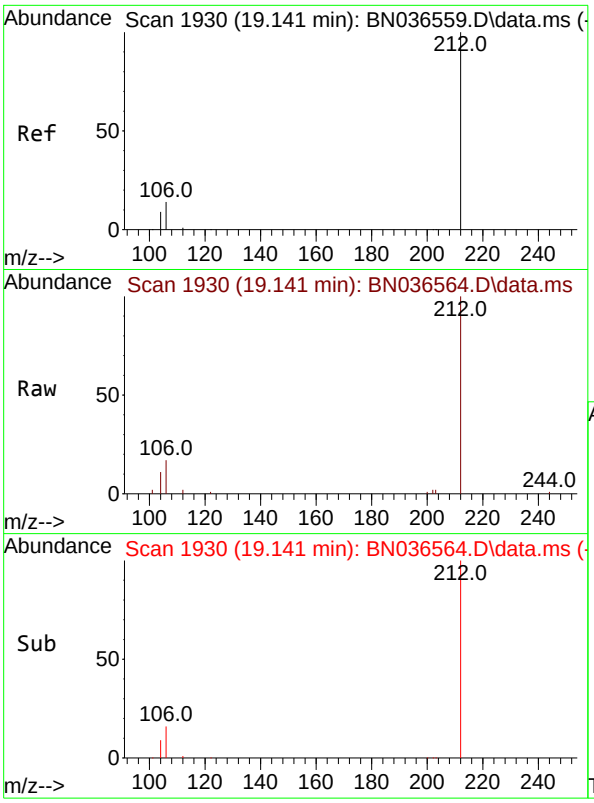


#26
Anthracene
Concen: 0.407 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:178 Resp: 6358

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	14.8	12.6	18.8



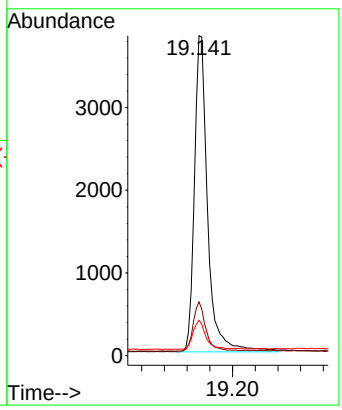


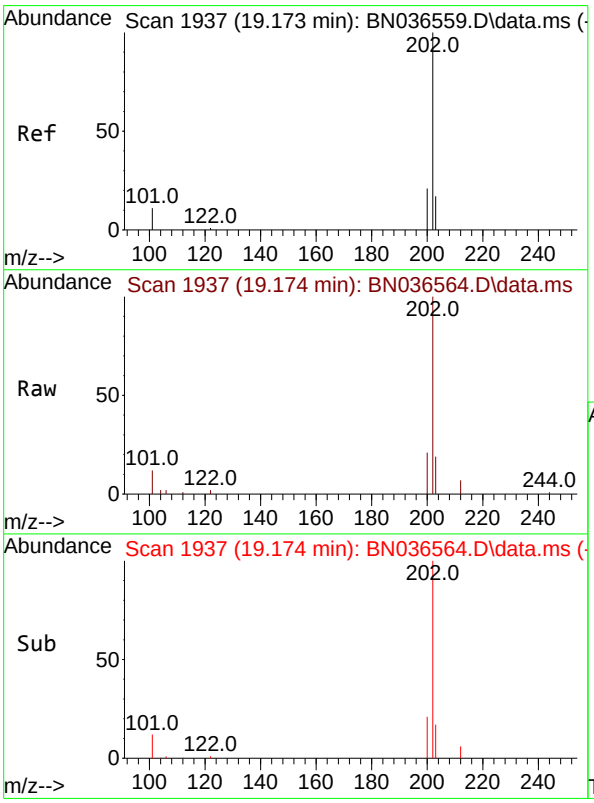
#27
Fluoranthene-d10
Concen: 0.415 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:212 Resp: 6152

Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.8	17.6
104	8.8	7.3	10.9

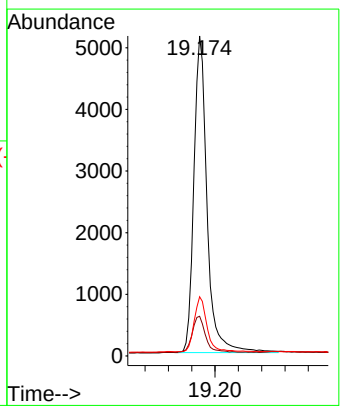


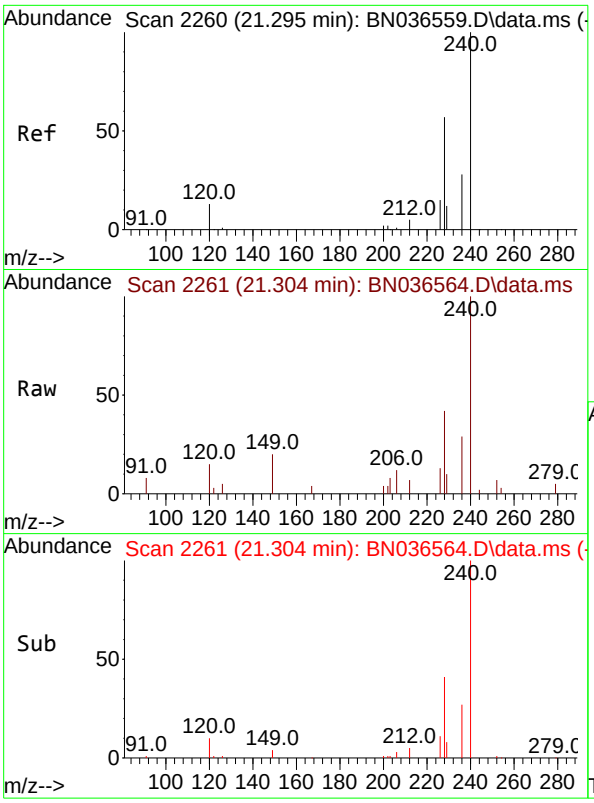


#28
Fluoranthene
Concen: 0.414 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:202 Resp: 8068

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.4	14.0
203	16.8	13.5	20.3



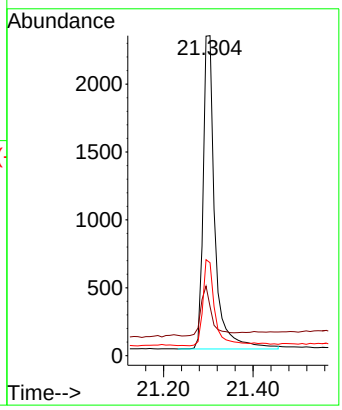


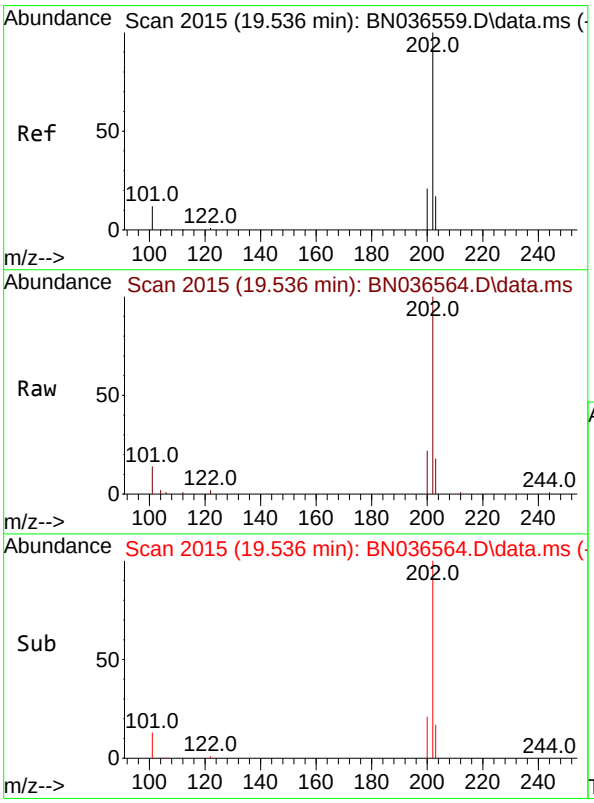
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:240 Resp: 4219

Ion	Ratio	Lower	Upper
240	100		
120	15.4	14.6	22.0
236	29.1	24.1	36.1

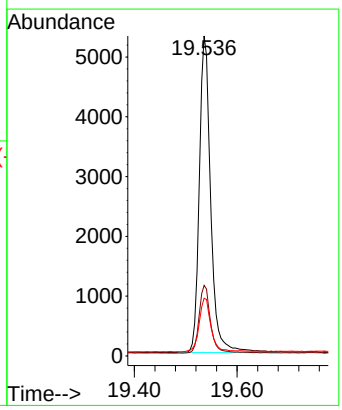


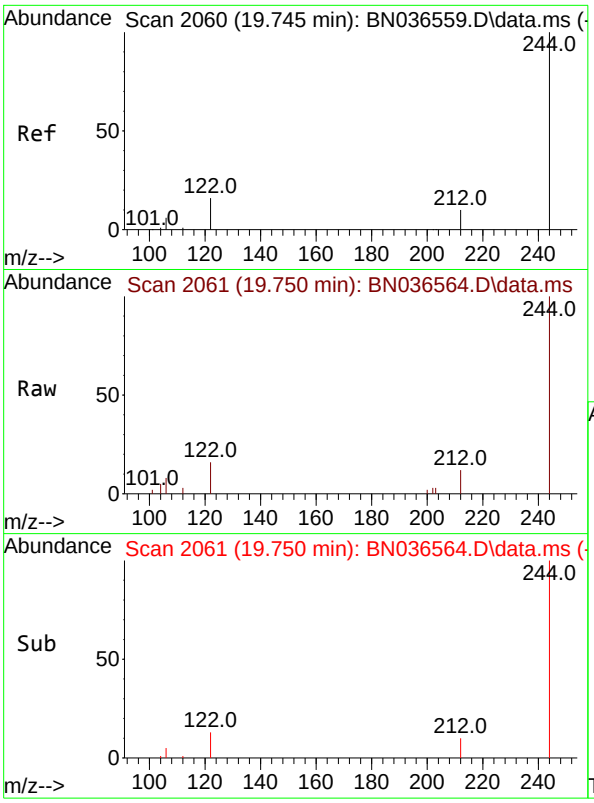


#30
Pyrene
Concen: 0.395 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:202 Resp: 8156

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.4	14.1	21.1



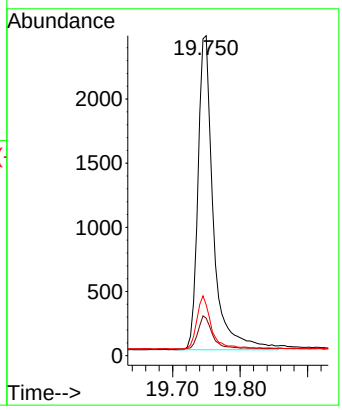


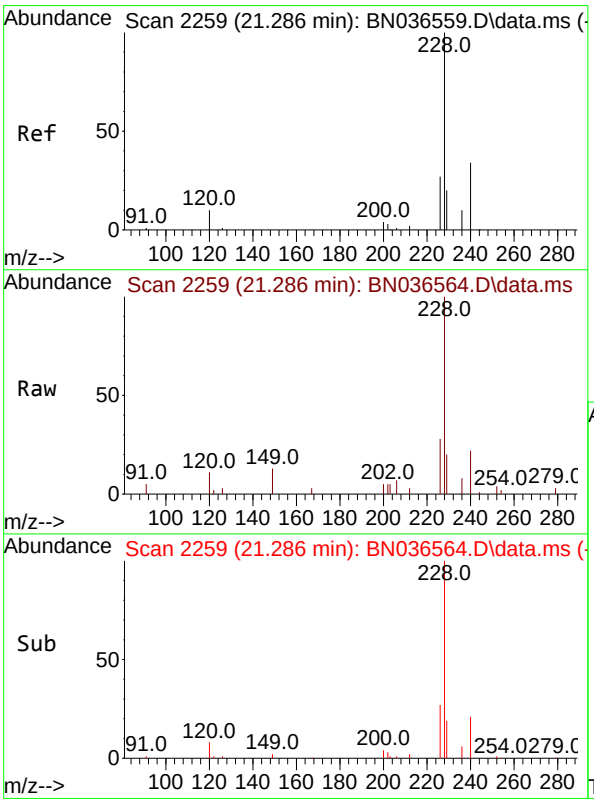
#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.750 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:244 Resp: 3880

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	15.8	13.9	20.9

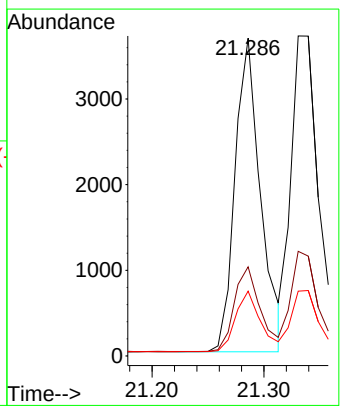


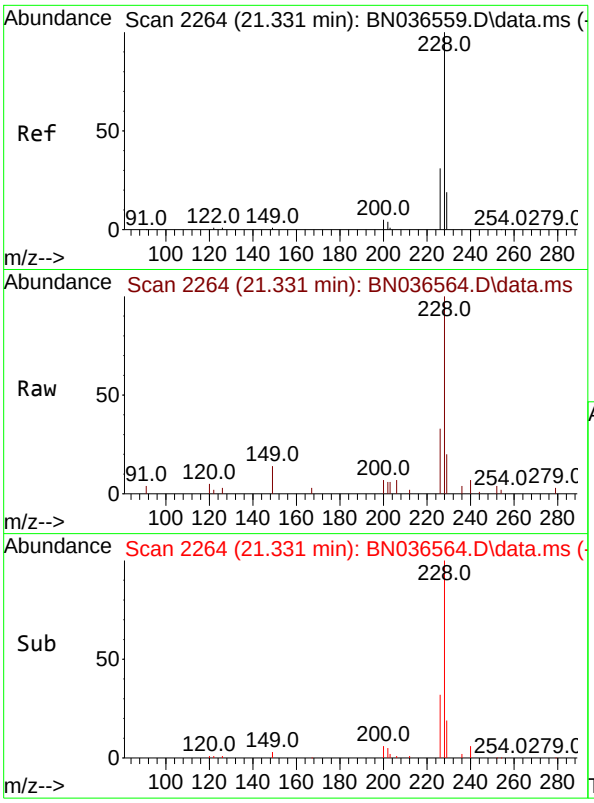


#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:228 Resp: 5814

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.4	16.6	25.0



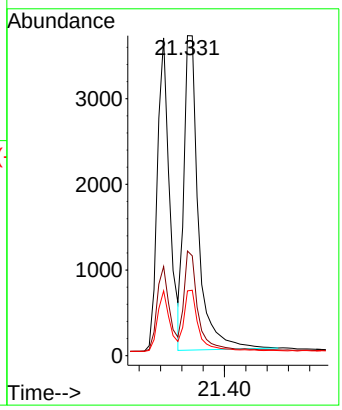


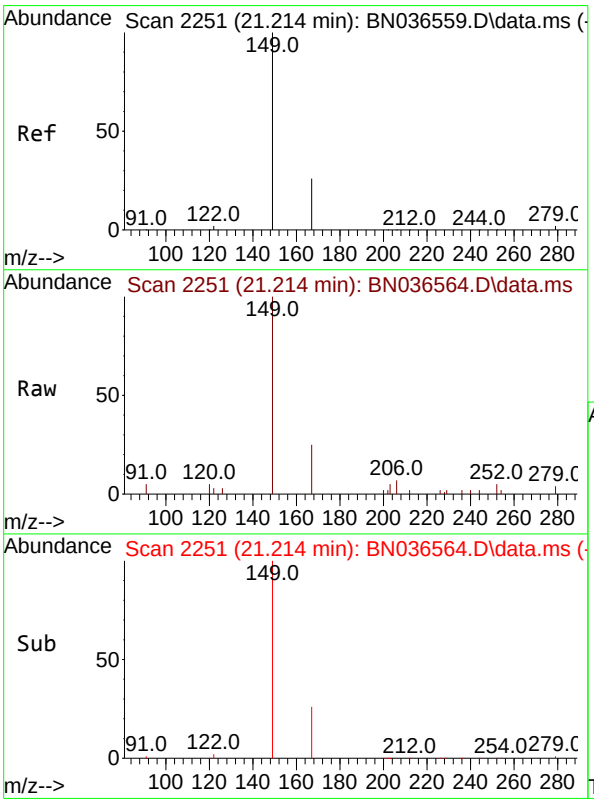
#33
Chrysene
Concen: 0.433 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:228 Resp: 6940

Ion	Ratio	Lower	Upper
228	100		
226	32.7	25.3	37.9
229	20.3	15.8	23.8

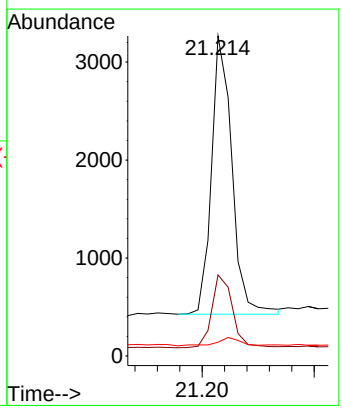


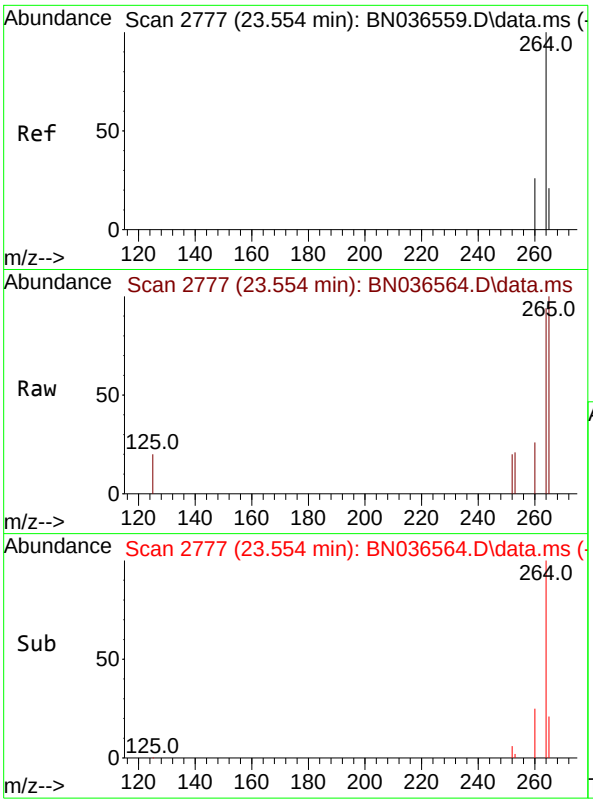


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.344 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:149 Resp: 3594

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.7	3.6	5.4



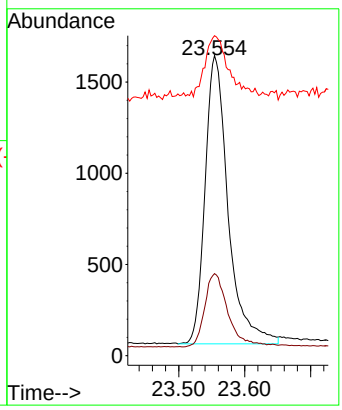


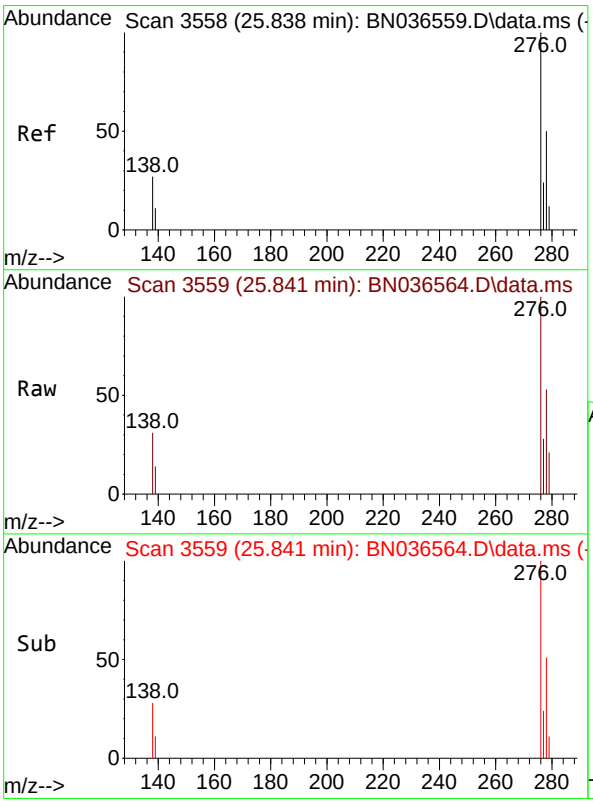
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:264 Resp: 3835

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	106.6	88.1	132.1

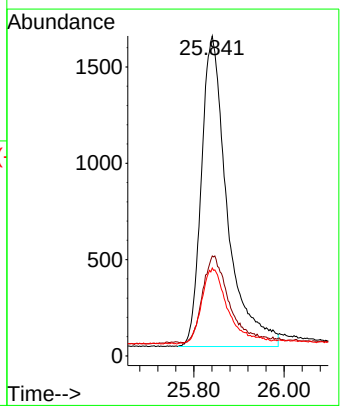


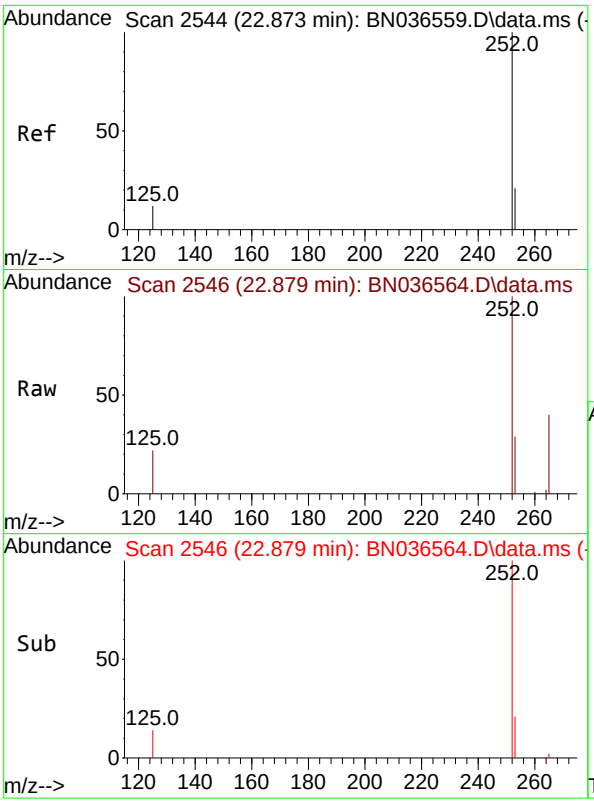


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.463 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:276 Resp: 6410

Ion	Ratio	Lower	Upper
276	100		
138	28.1	23.4	35.2
277	24.5	20.0	30.0



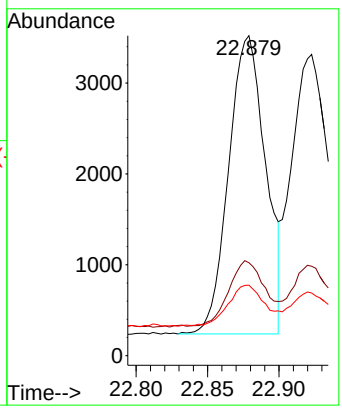


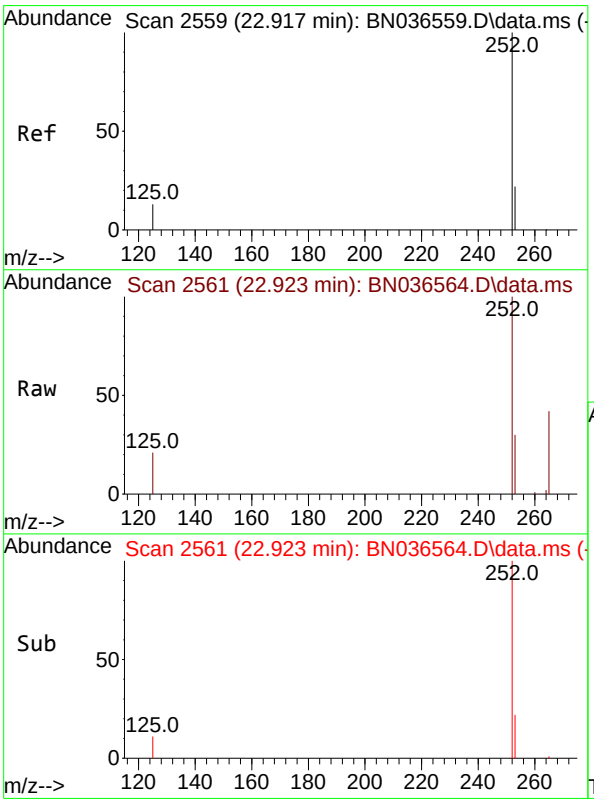
#37
Benzo(b)fluoranthene
Concen: 0.423 ng
RT: 22.879 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:252 Resp: 5902

Ion	Ratio	Lower	Upper
252	100		
253	29.0	23.9	35.9
125	22.1	17.4	26.2

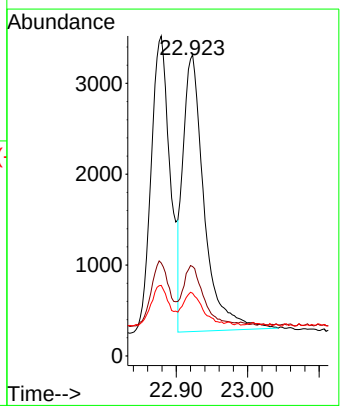


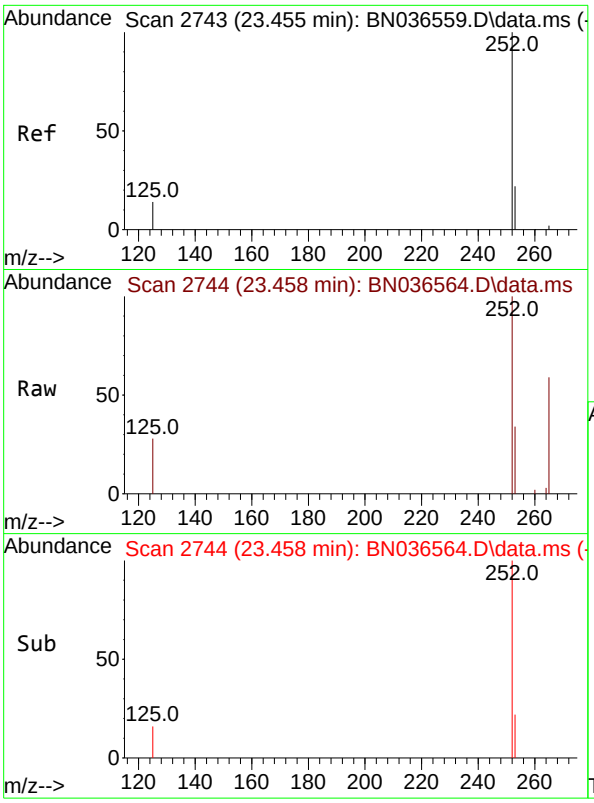


#38
Benzo(k)fluoranthene
Concen: 0.429 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:252 Resp: 6286

Ion	Ratio	Lower	Upper
252	100		
253	29.7	24.6	36.8
125	20.8	17.8	26.8



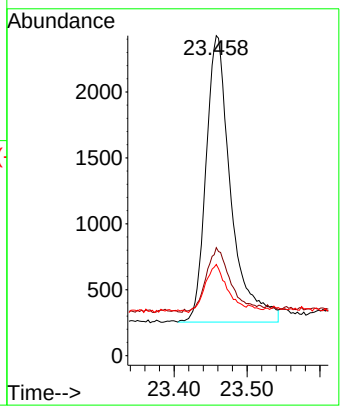


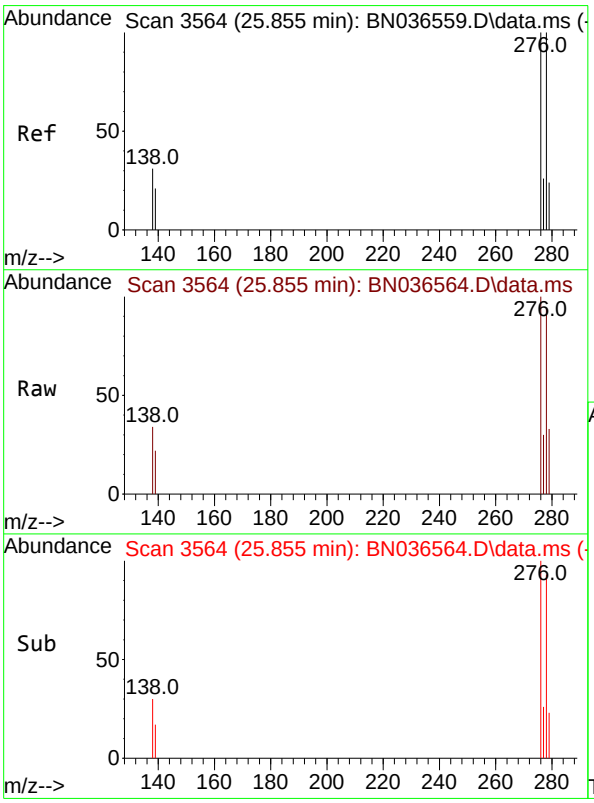
#39
Benzo(a)pyrene
Concen: 0.438 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:252 Resp: 5147

Ion	Ratio	Lower	Upper
252	100		
253	33.7	27.8	41.8
125	28.5	22.7	34.1

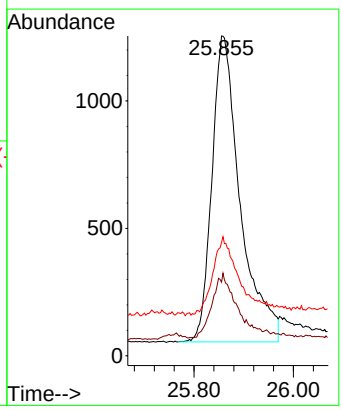


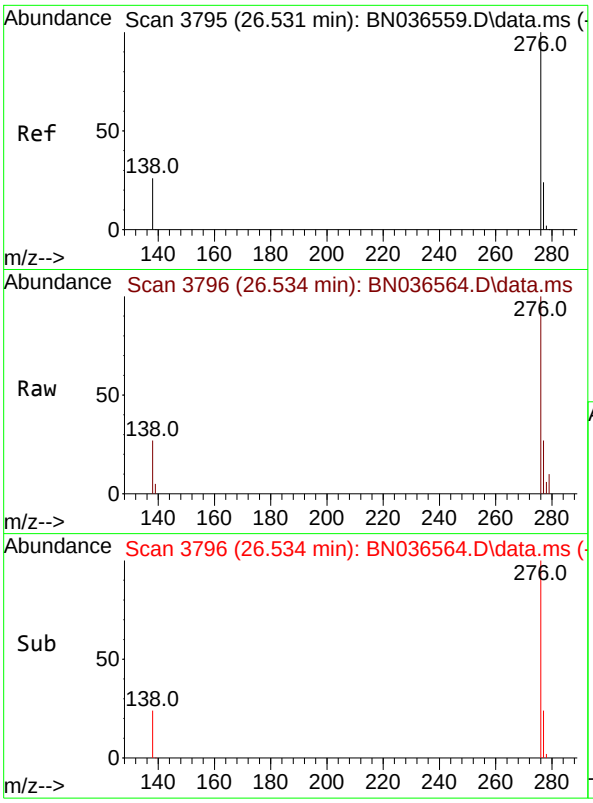


#40
Dibenzo(a,h)anthracene
Concen: 0.440 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:278 Resp: 4740

Ion	Ratio	Lower	Upper
278	100		
139	23.0	20.8	31.2
279	35.5	28.8	43.2



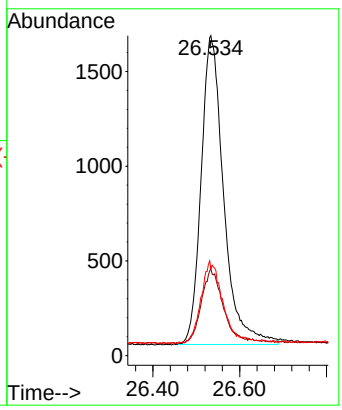


#41
Benzo(g,h,i)perylene
Concen: 0.477 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:276 Resp: 5877

Ion	Ratio	Lower	Upper
276	100		
277	27.2	22.2	33.4
138	27.2	24.1	36.1



Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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	113	0.00
2		1,4-Dioxane	0.444	0.521	-17.3	118	0.00
3		n-Nitrosodimethylamine	0.898	0.918	-2.2	111	0.00
4	S	2-Fluorophenol	0.932	0.972	-4.3	111	0.00
5	S	Phenol-d6	1.152	1.103	4.3	110	0.00
6		bis(2-Chloroethyl)ether	1.190	1.184	0.5	113	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
8	S	Nitrobenzene-d5	0.435	0.418	3.9	112	0.00
9		Naphthalene	1.177	1.191	-1.2	109	0.00
10		Hexachlorobutadiene	0.277	0.301	-8.7	113	0.00
11	SURR	2-Methylnaphthalene-d10	0.595	0.594	0.2	108	0.00
12		2-Methylnaphthalene	0.749	0.721	3.7	104	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14	S	2,4,6-Tribromophenol	0.182	0.166	8.8	90	0.00
15	S	2-Fluorobiphenyl	2.327	2.513	-8.0	107	0.00
16		Acenaphthylene	1.888	1.964	-4.0	103	0.00
17		Acenaphthene	1.236	1.308	-5.8	104	0.00
18		Fluorene	1.672	1.694	-1.3	98	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
20		4,6-Dinitro-2-methylphenol	0.086	0.070	18.6	87	0.01
21		4-Bromophenyl-phenylether	0.251	0.264	-5.2	93	0.00
22		Hexachlorobenzene	0.303	0.344	-13.5	98	0.00
23		Atrazine	0.201	0.202	-0.5	91	0.01
24		Pentachlorophenol	0.138	0.121	12.3	85	0.00
25		Phenanthrene	1.200	1.251	-4.2	93	0.00
26		Anthracene	1.083	1.100	-1.6	92	0.00
27	SURR	Fluoranthene-d10	1.025	1.065	-3.9	92	0.00
28		Fluoranthene	1.348	1.396	-3.6	93	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30		Pyrene	1.956	1.933	1.2	93	0.00
31	S	Terphenyl-d14	0.958	0.920	4.0	92	0.00
32		Benzo(a)anthracene	1.391	1.378	0.9	98	0.00
33		Chrysene	1.520	1.645	-8.2	105	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	0.852	13.9	84	0.00
35	I	Perylene-d12	1.000	1.000	0.0	108	0.00
36		Indeno(1,2,3-cd)pyrene	1.444	1.671	-15.7	117	0.00
37		Benzo(b)fluoranthene	1.456	1.539	-5.7	108	0.00
38		Benzo(k)fluoranthene	1.527	1.639	-7.3	110	0.00
39	C	Benzo(a)pyrene	1.226	1.342	-9.5	112	0.00
40		Dibenzo(a,h)anthracene	1.124	1.236	-10.0	115	0.00
41		Benzo(g,h,i)perylene	1.286	1.532	-19.1	120	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\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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	113	0.00
2		1,4-Dioxane	0.400	0.470	-17.5	118	0.00
3		n-Nitrosodimethylamine	0.400	0.409	-2.2	111	0.00
4	S	2-Fluorophenol	0.400	0.417	-4.2	111	0.00
5	S	Phenol-d6	0.400	0.383	4.3	110	0.00
6		bis(2-Chloroethyl)ether	0.400	0.398	0.5	113	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	111	0.00
8	S	Nitrobenzene-d5	0.400	0.384	4.0	112	0.00
9		Naphthalene	0.400	0.405	-1.3	109	0.00
10		Hexachlorobutadiene	0.400	0.434	-8.5	113	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	108	0.00
12		2-Methylnaphthalene	0.400	0.385	3.8	104	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14	S	2,4,6-Tribromophenol	0.400	0.365	8.8	90	0.00
15	S	2-Fluorobiphenyl	0.400	0.432	-8.0	107	0.00
16		Acenaphthylene	0.400	0.416	-4.0	103	0.00
17		Acenaphthene	0.400	0.423	-5.7	104	0.00
18		Fluorene	0.400	0.405	-1.3	98	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	96	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.420	-5.0	87	0.01
21		4-Bromophenyl-phenylether	0.400	0.421	-5.2	93	0.00
22		Hexachlorobenzene	0.400	0.455	-13.7	98	0.00
23		Atrazine	0.400	0.401	-0.3	91	0.01
24		Pentachlorophenol	0.400	0.351	12.3	85	0.00
25		Phenanthrene	0.400	0.417	-4.2	93	0.00
26		Anthracene	0.400	0.407	-1.7	92	0.00
27	SURR	Fluoranthene-d10	0.400	0.415	-3.7	92	0.00
28		Fluoranthene	0.400	0.414	-3.5	93	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30		Pyrene	0.400	0.395	1.3	93	0.00
31	S	Terphenyl-d14	0.400	0.384	4.0	92	0.00
32		Benzo(a)anthracene	0.400	0.396	1.0	98	0.00
33		Chrysene	0.400	0.433	-8.2	105	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.344	14.0	84	0.00
35	I	Perylene-d12	0.400	0.400	0.0	108	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.463	-15.8	117	0.00
37		Benzo(b)fluoranthene	0.400	0.423	-5.7	108	0.00
38		Benzo(k)fluoranthene	0.400	0.429	-7.2	110	0.00
39	C	Benzo(a)pyrene	0.400	0.438	-9.5	112	0.00
40		Dibenzo(a,h)anthracene	0.400	0.440	-10.0	115	0.00
41		Benzo(g,h,i)perylene	0.400	0.477	-19.2	120	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: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: BNA_N Calibration Date/Time: 03/14/2025 10:09

Lab File ID: BN036601.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.593		-0.3	20.0
Fluoranthene-d10	1.025	1.108		8.1	20.0
2-Fluorophenol	0.932	0.929		-0.3	20.0
Phenol-d6	1.152	1.129		-2.0	20.0
Nitrobenzene-d5	0.435	0.423		-2.8	20.0
2-Fluorobiphenyl	2.327	2.416		3.8	20.0
4,6-Dinitro-2-methylphenol	0.086	0.073		-15.1	20.0
2,4,6-Tribromophenol	0.182	0.184		1.1	20.0
Pentachlorophenol	0.138	0.145		5.1	20.0
Terphenyl-d14	0.958	0.974		1.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036601.D
Acq On : 14 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 14 10:56:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

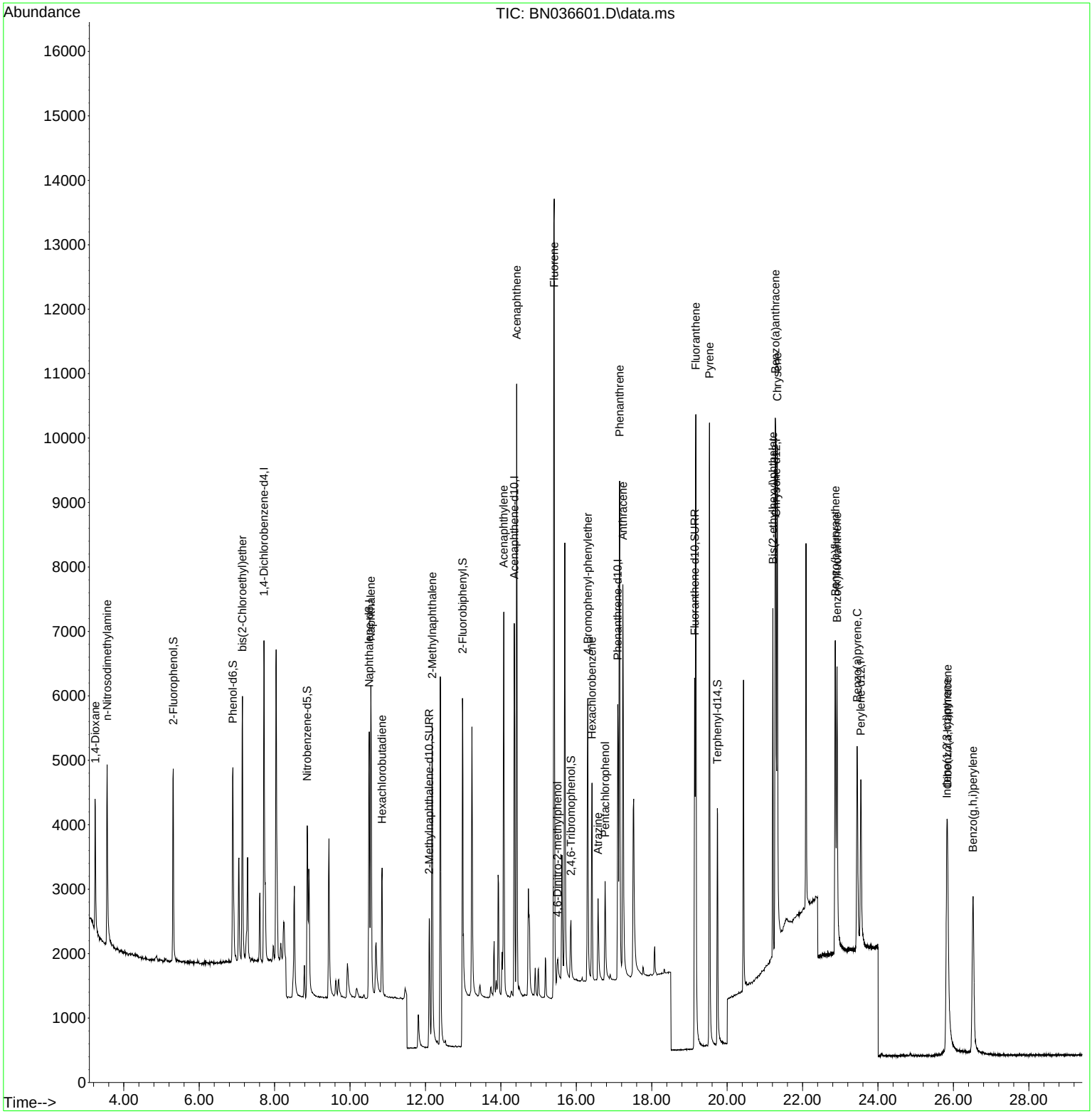
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.717	152	2400	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5723	0.400	ng		# 0.00
13) Acenaphthene-d10	14.355	164	3321	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	6547	0.400	ng		#-0.01
29) Chrysene-d12	21.295	240	4700	0.400	ng		# 0.00
35) Perylene-d12	23.546	264	3986	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	2230	0.399	ng		0.00
5) Phenol-d6	6.894	99	2710	0.392	ng		0.00
8) Nitrobenzene-d5	8.865	82	2420	0.389	ng		-0.01
11) 2-Methylnaphthalene-d10	12.101	152	3394	0.399	ng		-0.01
14) 2,4,6-Tribromophenol	15.858	330	611	0.405	ng		0.00
15) 2-Fluorobiphenyl	12.983	172	8025	0.415	ng		0.00
27) Fluoranthene-d10	19.141	212	7252	0.432	ng		0.00
31) Terphenyl-d14	19.740	244	4580	0.407	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	1261	0.474	ng		97
3) n-Nitrosodimethylamine	3.557	42	2390	0.444	ng	#	94
6) bis(2-Chloroethyl)ether	7.147	93	2922	0.409	ng		99
9) Naphthalene	10.552	128	6916	0.411	ng		100
10) Hexachlorobutadiene	10.850	225	1664	0.420	ng	#	100
12) 2-Methylnaphthalene	12.177	142	4295	0.401	ng		98
16) Acenaphthylene	14.078	152	6530	0.417	ng		100
17) Acenaphthene	14.420	154	4237	0.413	ng		98
18) Fluorene	15.414	166	5927	0.427	ng		100
20) 4,6-Dinitro-2-methylph...	15.499	198	477	0.431	ng		85
21) 4-Bromophenyl-phenylether	16.304	248	1800	0.439	ng	#	88
22) Hexachlorobenzene	16.416	284	2210	0.446	ng		98
23) Atrazine	16.578	200	1367	0.416	ng		97
24) Pentachlorophenol	16.764	266	951	0.421	ng		99
25) Phenanthrene	17.149	178	8657	0.441	ng		100
26) Anthracene	17.235	178	7658	0.432	ng		100
28) Fluoranthene	19.169	202	9780	0.443	ng		100
30) Pyrene	19.531	202	9845	0.428	ng		100
32) Benzo(a)anthracene	21.277	228	6690	0.409	ng		99
33) Chrysene	21.331	228	7857	0.440	ng		100
34) Bis(2-ethylhexyl)phtha...	21.214	149	5063	0.435	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.823	276	6150	0.427	ng		96
37) Benzo(b)fluoranthene	22.867	252	6447	0.444	ng		95
38) Benzo(k)fluoranthene	22.914	252	6700	0.440	ng		94
39) Benzo(a)pyrene	23.446	252	5389	0.441	ng		94
40) Dibenzo(a,h)anthracene	25.844	278	4599	0.411	ng		97
41) Benzo(g,h,i)perylene	26.522	276	5508	0.430	ng		96

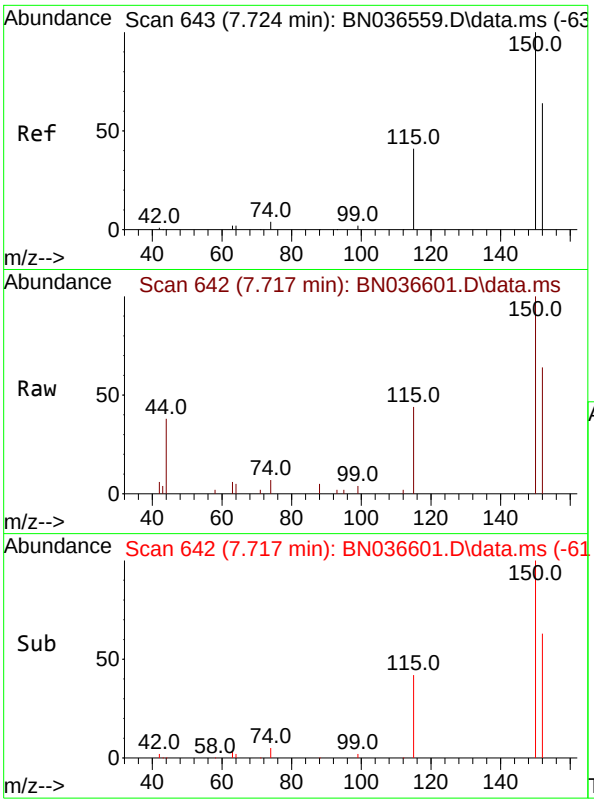
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036601.D
Acq On : 14 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 14 10:56:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



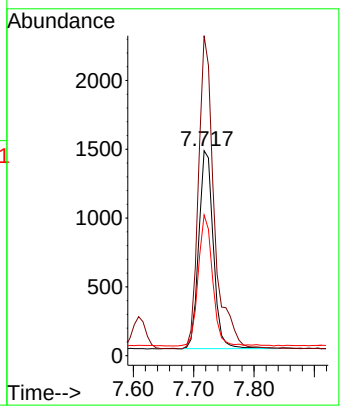


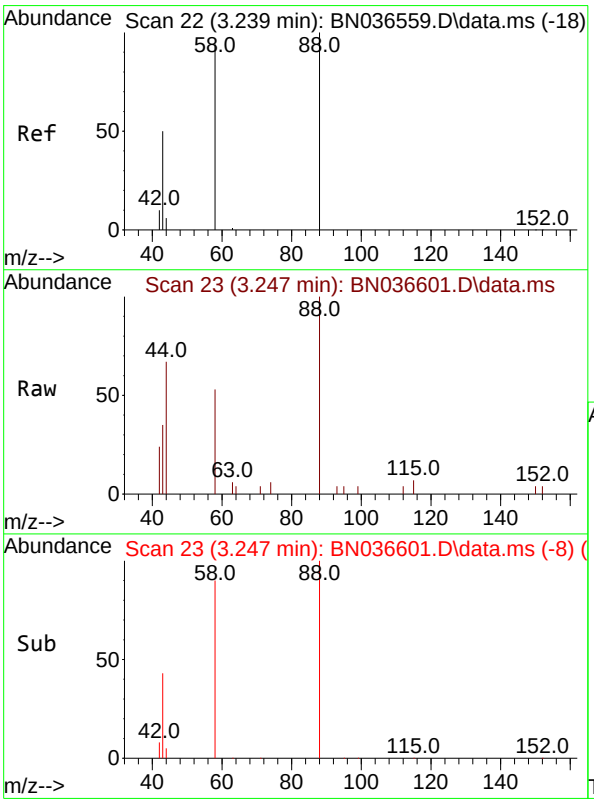
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2400

Ion	Ratio	Lower	Upper
152	100		
150	156.1	123.7	185.5
115	68.7	54.3	81.5

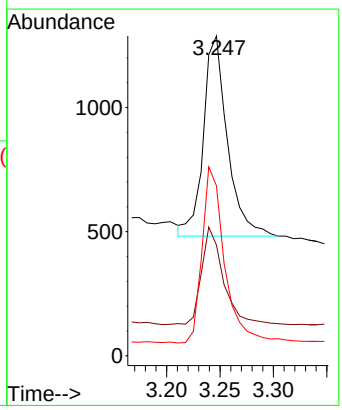


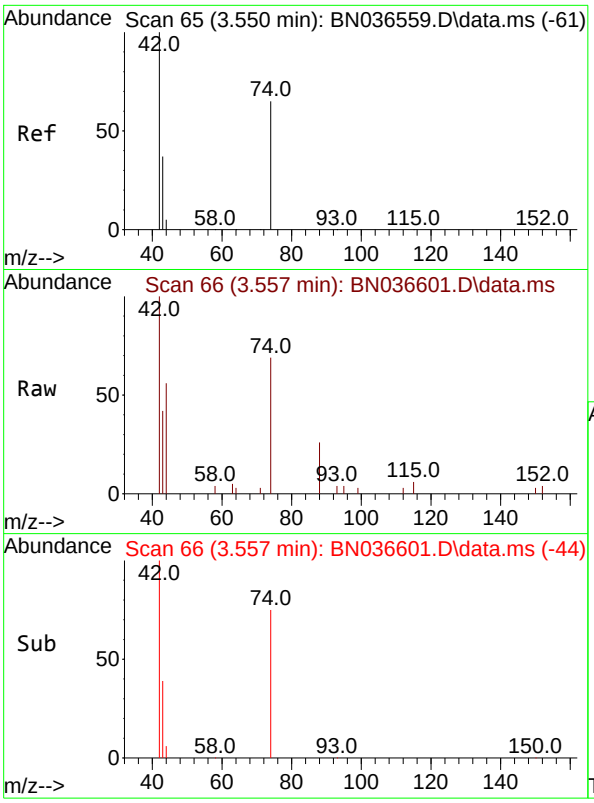


#2
1,4-Dioxane
Concen: 0.474 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion: 88 Resp: 1261

Ion	Ratio	Lower	Upper
88	100		
43	44.3	37.8	56.8
58	82.2	67.4	101.2



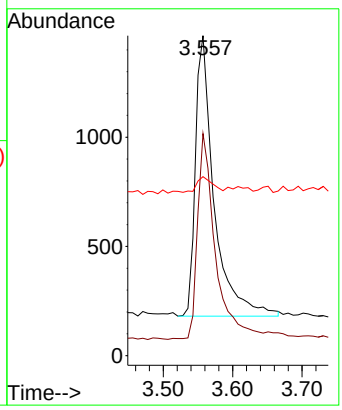


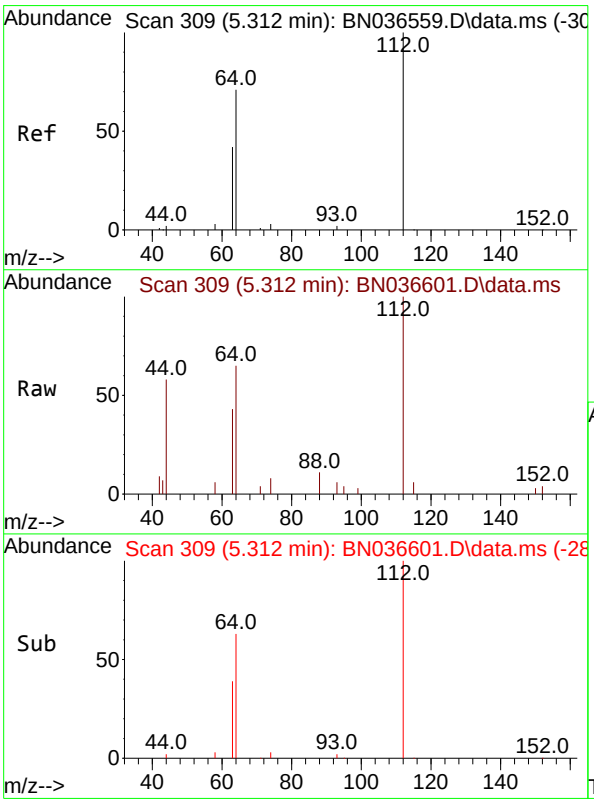
#3
n-Nitrosodimethylamine
Concen: 0.444 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2390

Ion	Ratio	Lower	Upper
42	100		
74	70.5	60.6	90.8
44	5.3	6.3	9.5#

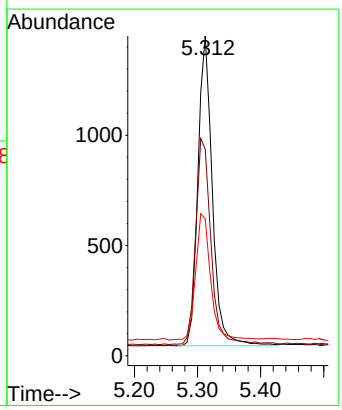


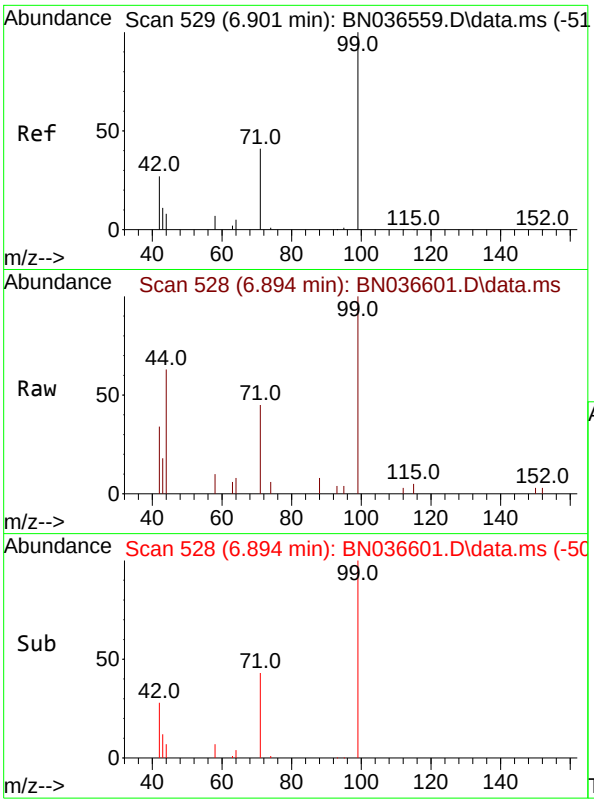


#4
2-Fluorophenol
Concen: 0.399 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:112 Resp: 2230

Ion	Ratio	Lower	Upper
112	100		
64	70.1	53.1	79.7
63	41.6	31.8	47.8



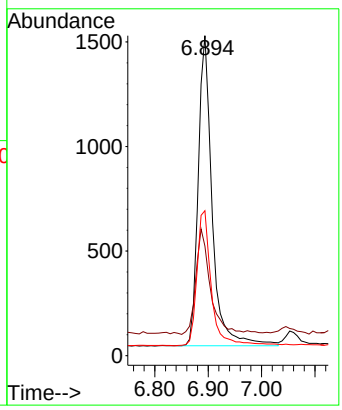


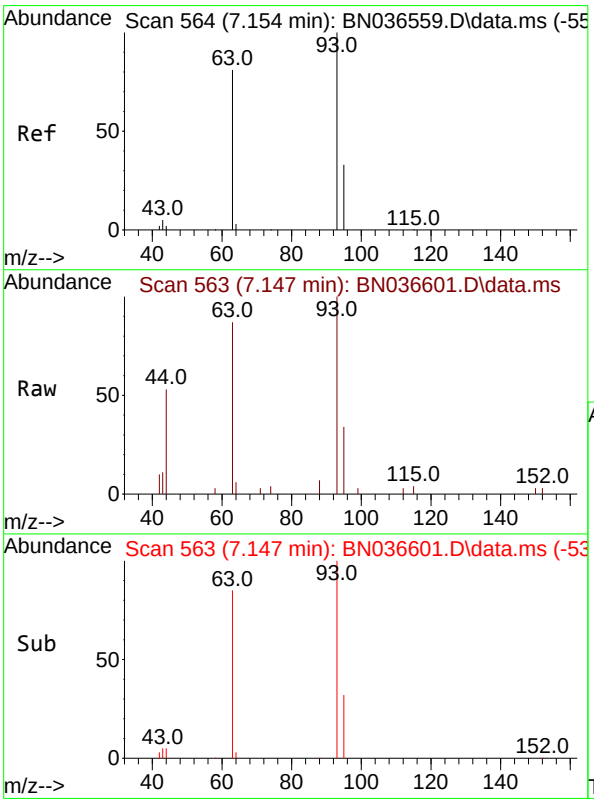
#5
Phenol-d6
Concen: 0.392 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2710

Ion	Ratio	Lower	Upper
99	100		
42	35.0	26.5	39.7
71	45.3	34.1	51.1

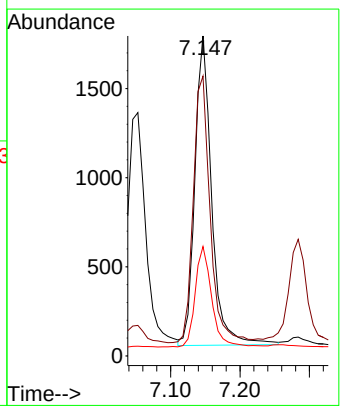


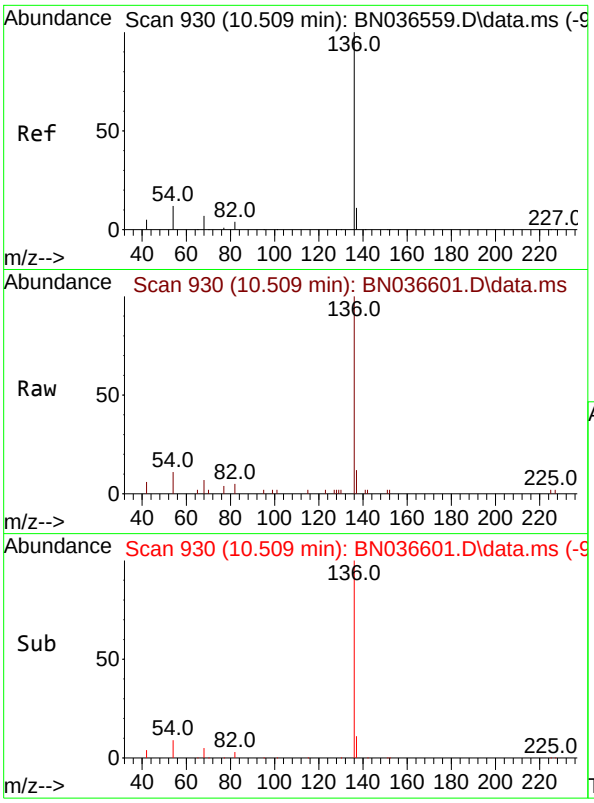


#6
bis(2-Chloroethyl)ether
Concen: 0.409 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion: 93 Resp: 2922

Ion	Ratio	Lower	Upper
93	100		
63	86.3	67.7	101.5
95	32.0	25.6	38.4



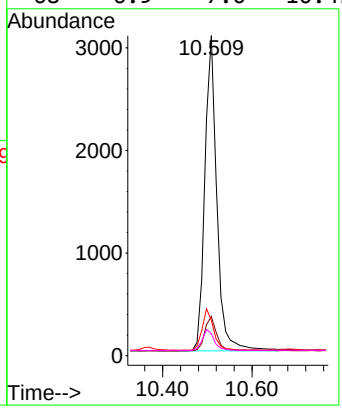


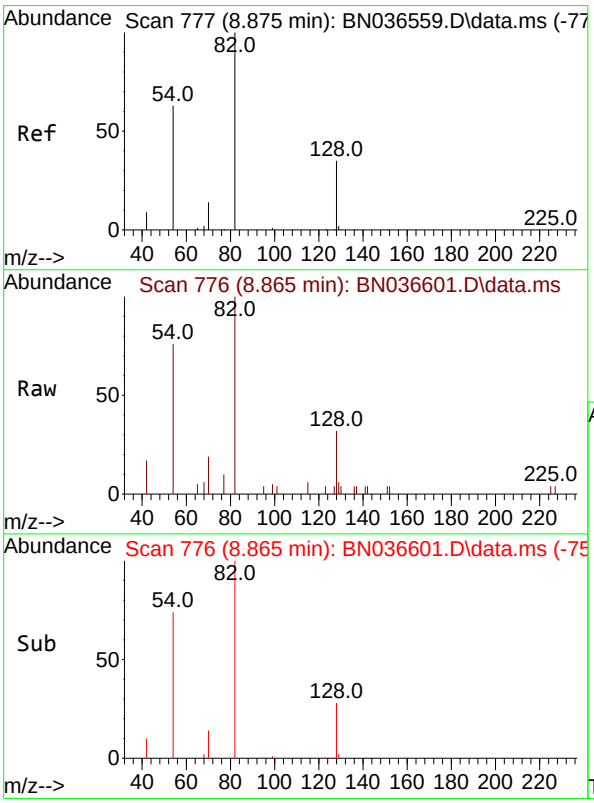
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 5723

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.3	15.5
54	11.0	11.5	17.3#
68	6.9	7.0	10.4#

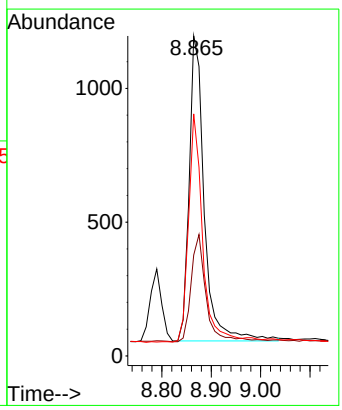


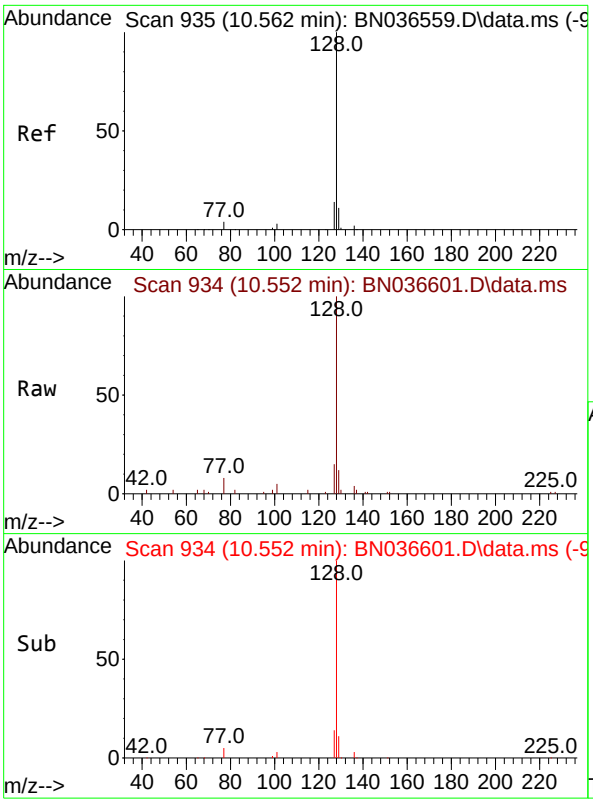


#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion: 82 Resp: 2420

Ion	Ratio	Lower	Upper
82	100		
128	31.5	30.6	45.8
54	75.7	52.2	78.4



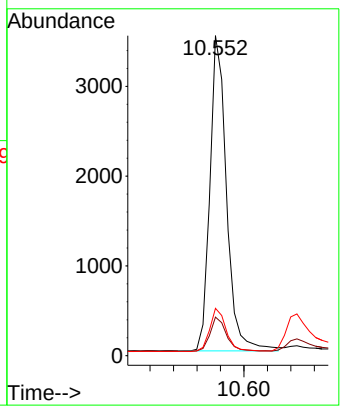


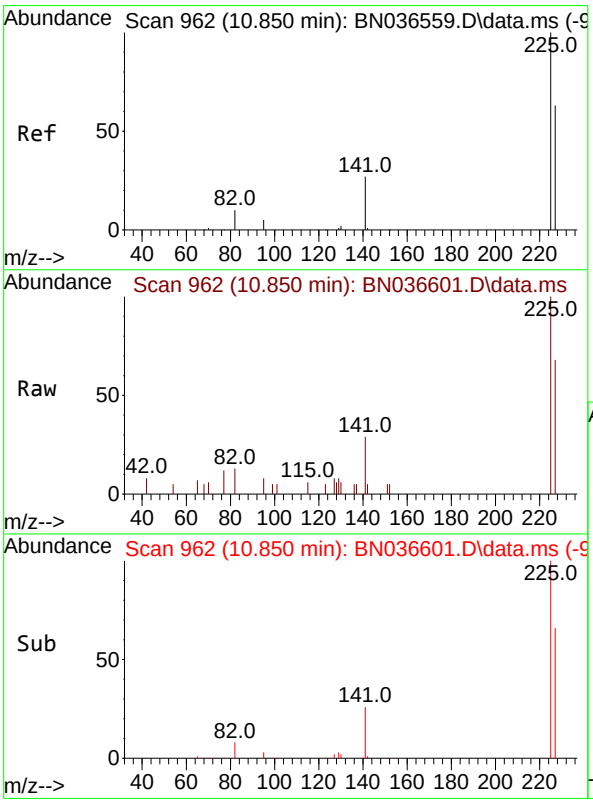
#9
Naphthalene
Concen: 0.411 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 6916

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.8	11.8	17.8

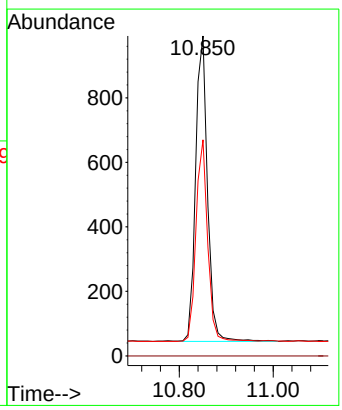


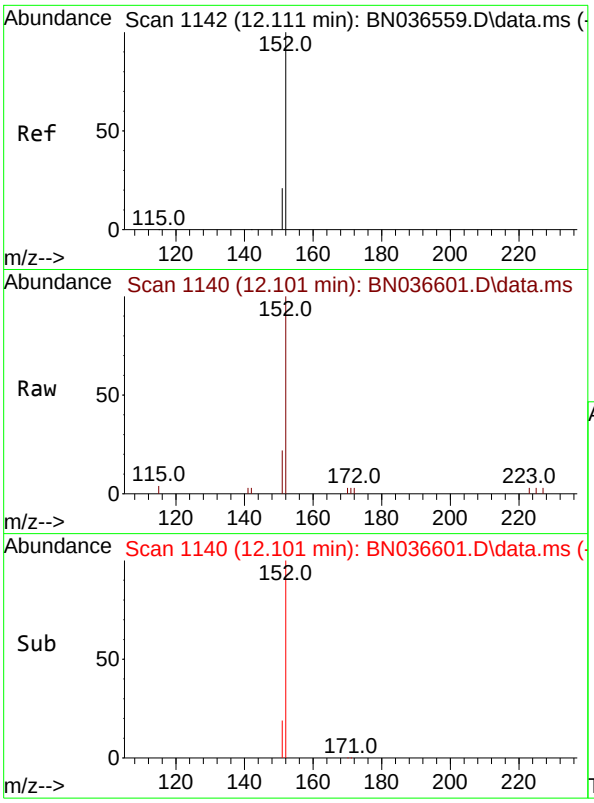


#10
Hexachlorobutadiene
Concen: 0.420 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:225 Resp: 1664

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.8	77.8



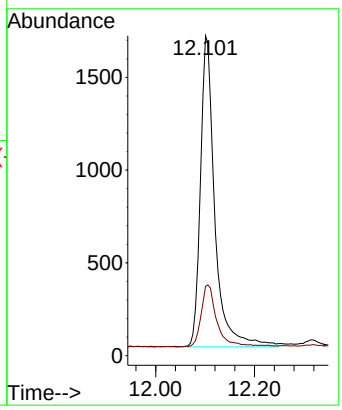


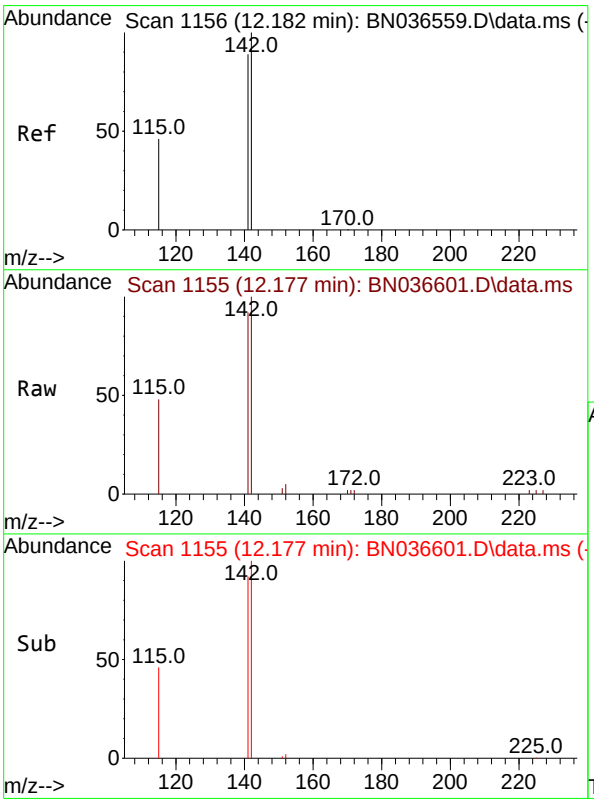
#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3394

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6

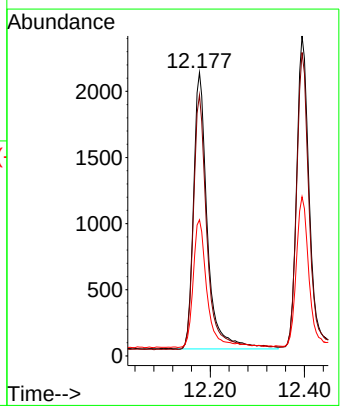


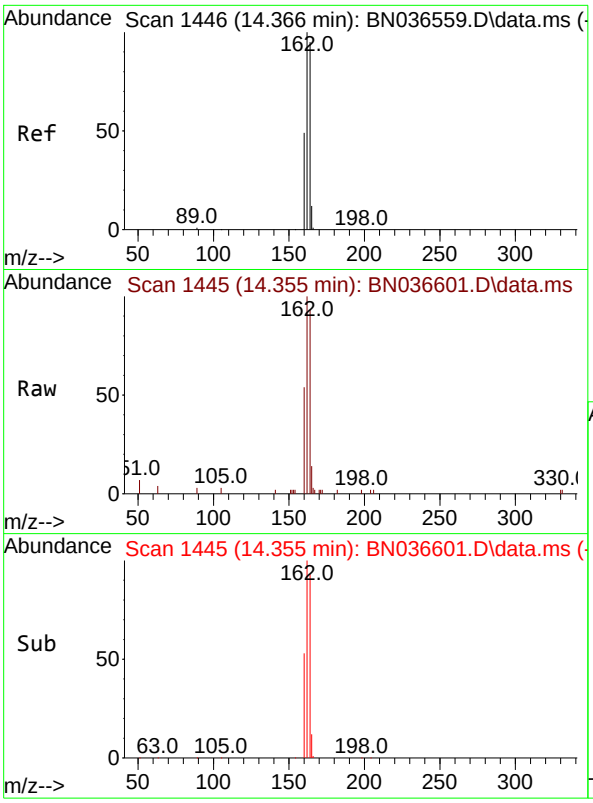


#12
2-Methylnaphthalene
Concen: 0.401 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:142 Resp: 4295

Ion	Ratio	Lower	Upper
142	100		
141	92.1	71.7	107.5
115	48.0	38.3	57.5



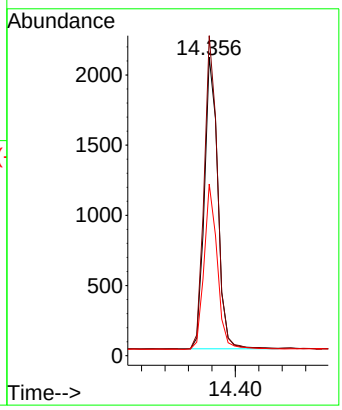


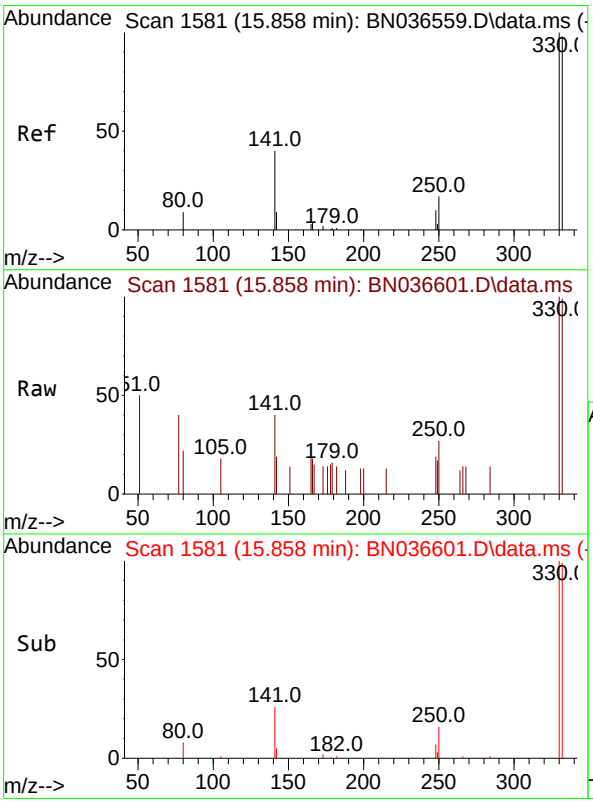
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 3321

Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.2	126.2
160	57.5	42.2	63.2

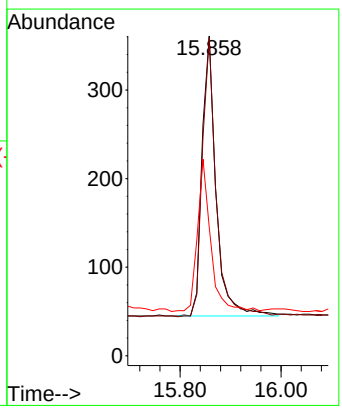


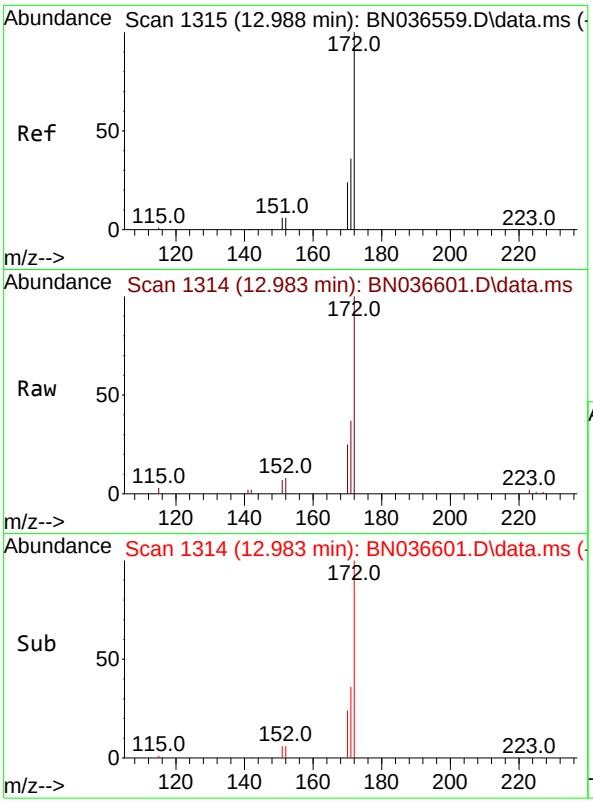


#14
2,4,6-Tribromophenol
Concen: 0.405 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:330 Resp: 611

Ion	Ratio	Lower	Upper
330	100		
332	99.2	75.2	112.8
141	51.6	43.4	65.2



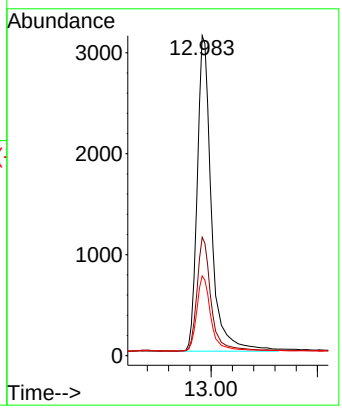


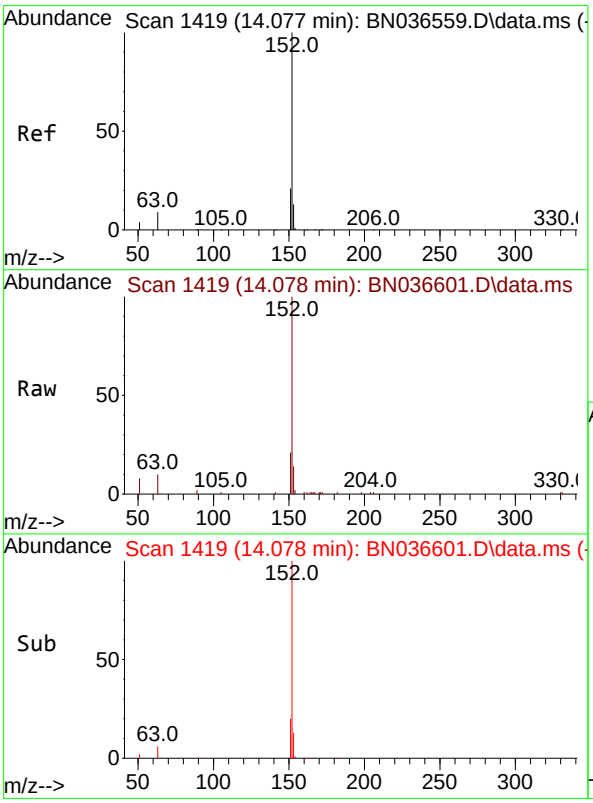
#15
2-Fluorobiphenyl
Concen: 0.415 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 8025

Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.5	44.3
170	24.9	20.2	30.4

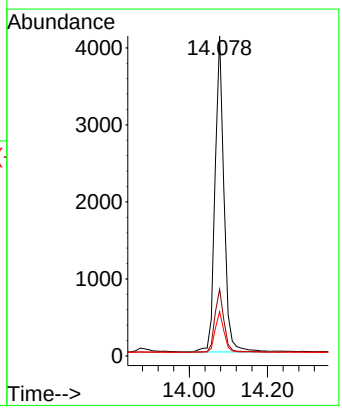


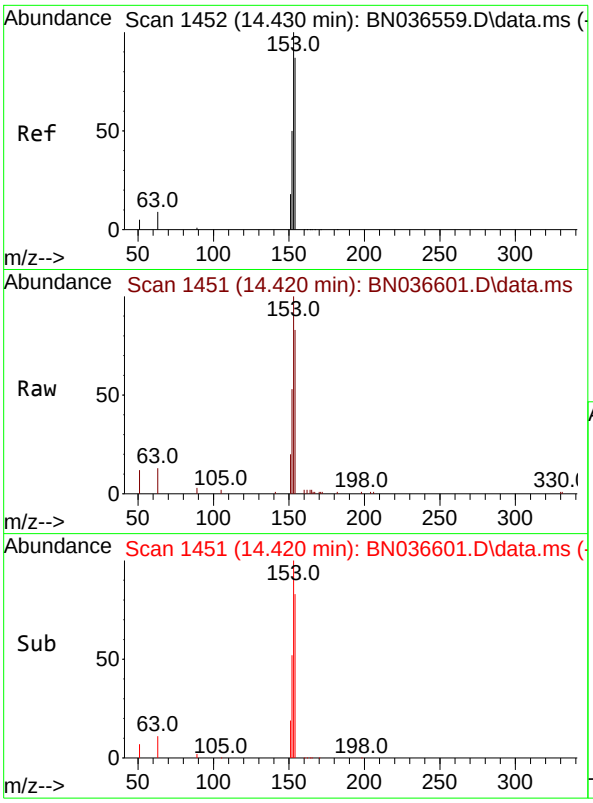


#16
Acenaphthylene
Concen: 0.417 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:152 Resp: 6530

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.1	10.6	15.8



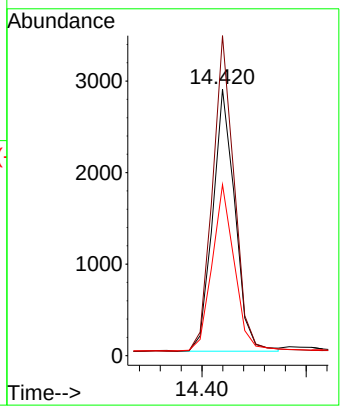


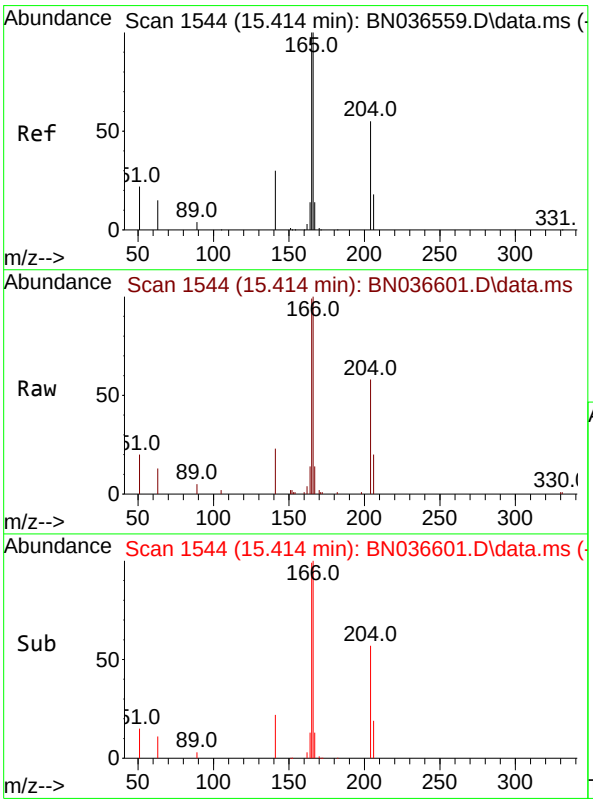
#17
Acenaphthene
Concen: 0.413 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 4237

Ion	Ratio	Lower	Upper
154	100		
153	118.9	94.1	141.1
152	64.1	49.8	74.6

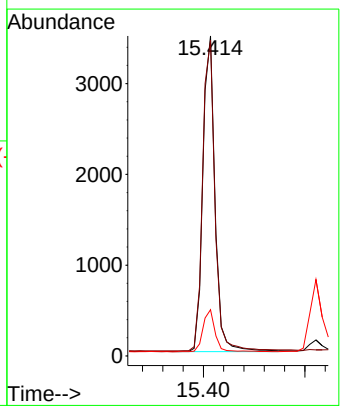


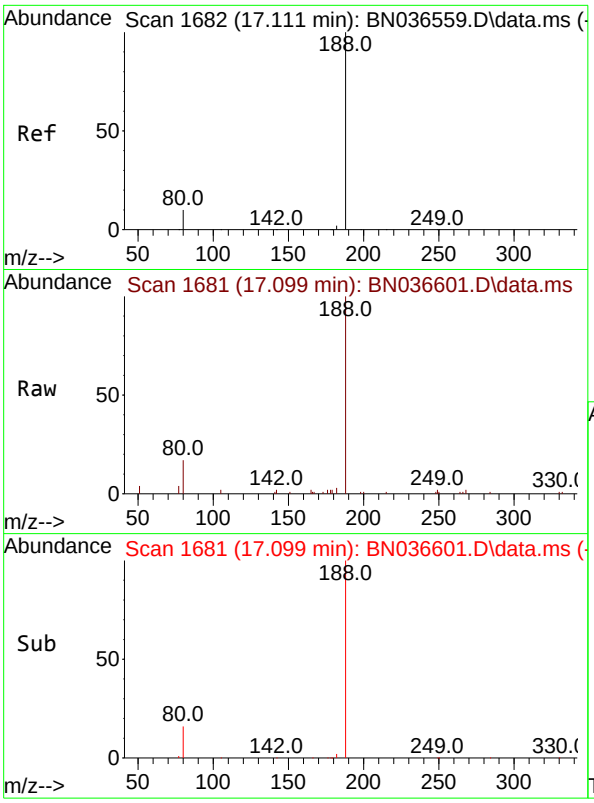


#18
Fluorene
Concen: 0.427 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:166 Resp: 5927

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.8	119.8
167	13.2	10.6	15.8



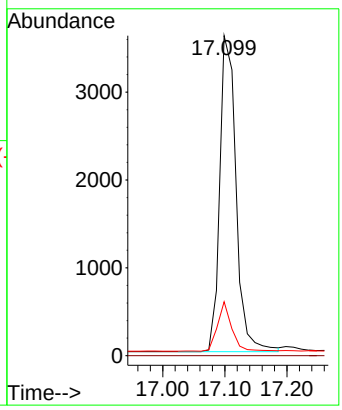


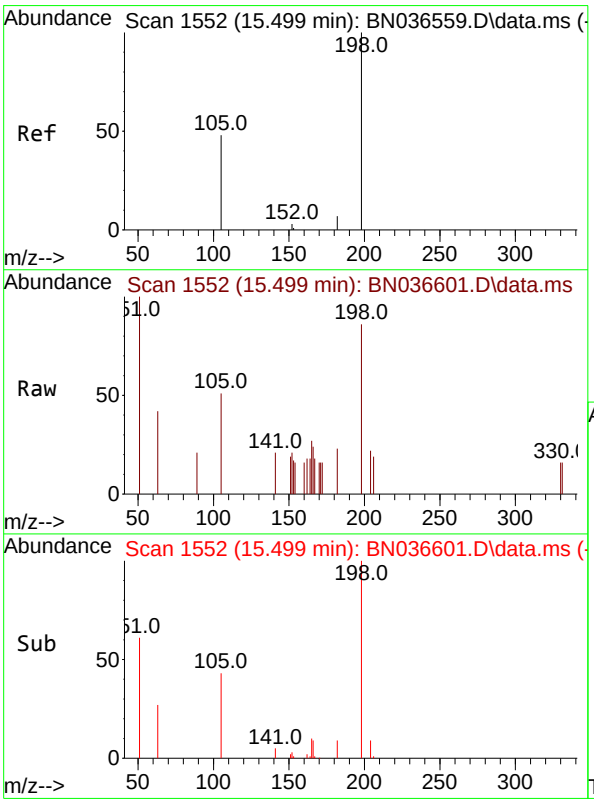
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 6547

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.9	8.8	13.2#

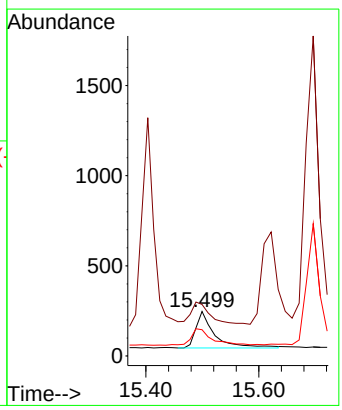


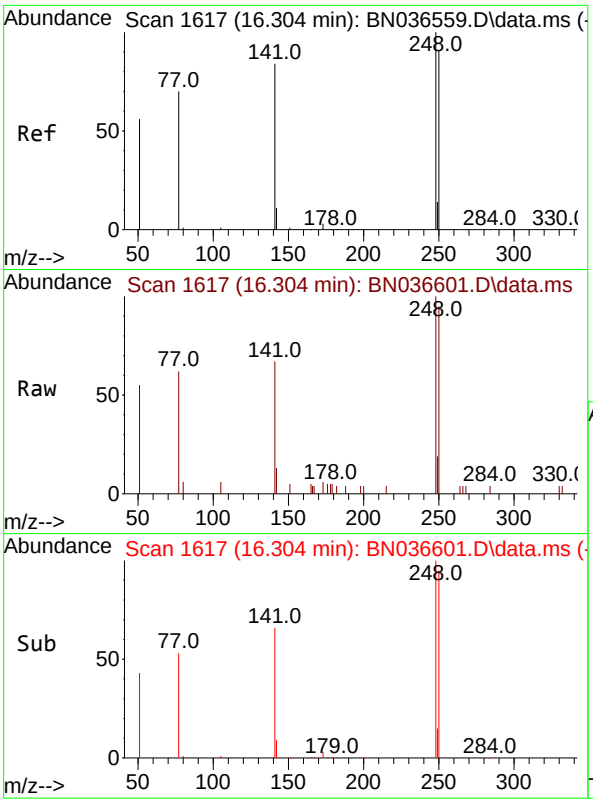


#20
4,6-Dinitro-2-methylphenol
Concen: 0.431 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:198 Resp: 477

Ion	Ratio	Lower	Upper
198	100		
51	115.8	107.9	161.9
105	59.1	56.2	84.2



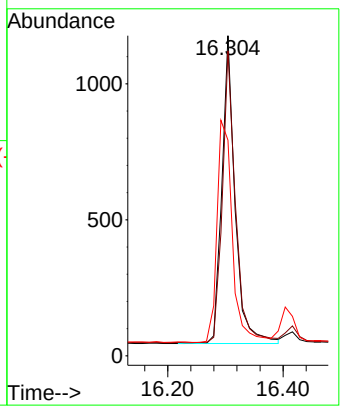


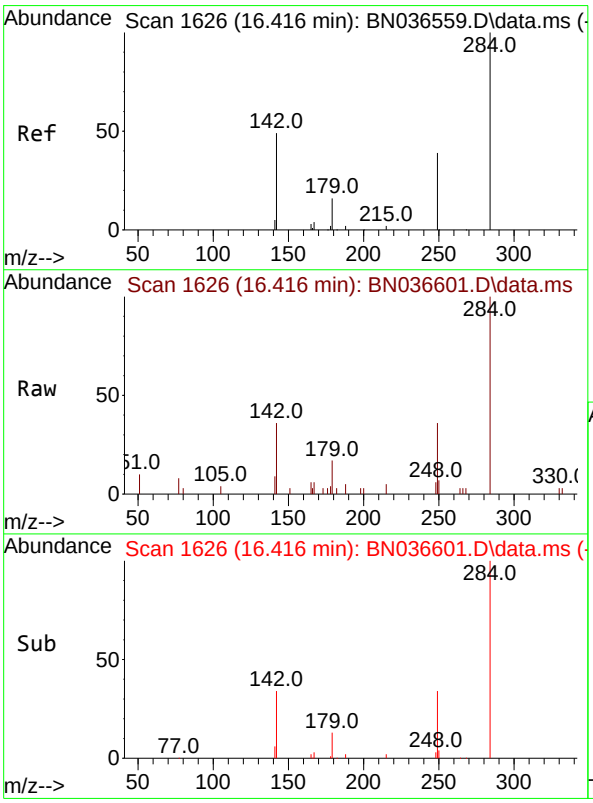
#21
4-Bromophenyl-phenylether
Concen: 0.439 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1800

Ion	Ratio	Lower	Upper
248	100		
250	95.2	73.0	109.6
141	67.4	68.6	103.0#

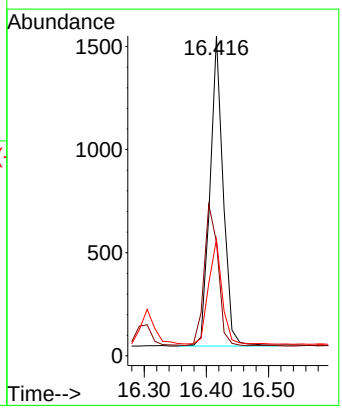


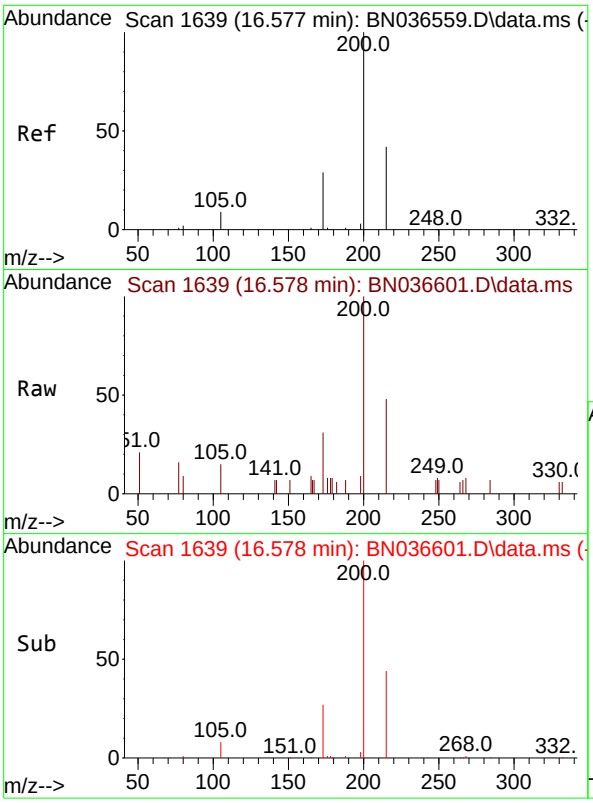


#22
Hexachlorobenzene
Concen: 0.446 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:284 Resp: 2210

Ion	Ratio	Lower	Upper
284	100		
142	48.5	37.0	55.4
249	35.3	28.1	42.1



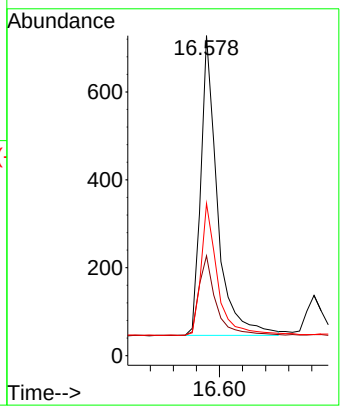


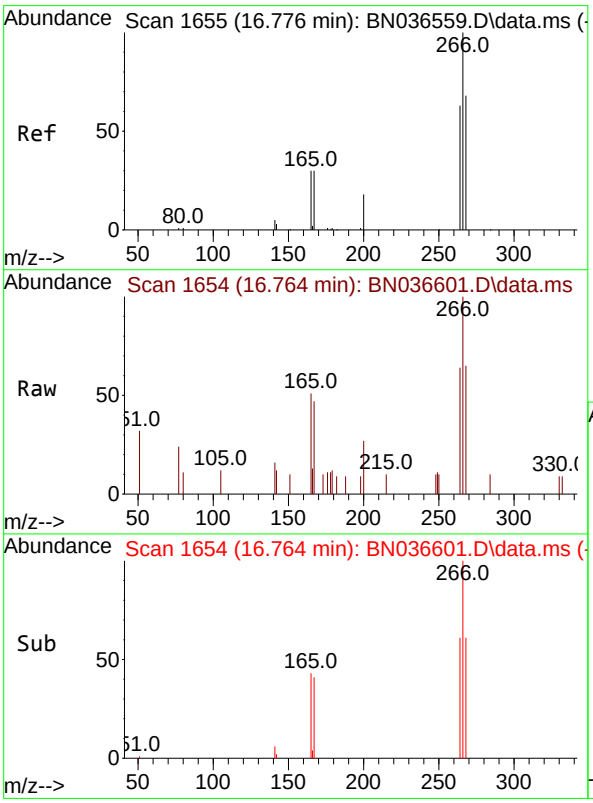
#23
Atrazine
Concen: 0.416 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1367

Ion	Ratio	Lower	Upper
200	100		
173	31.2	27.3	40.9
215	47.5	36.8	55.2

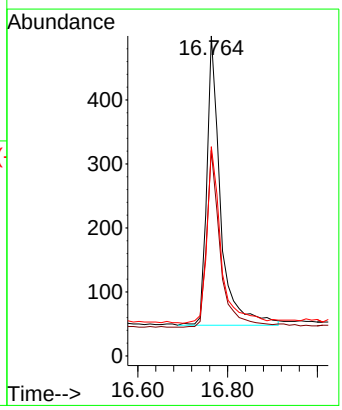


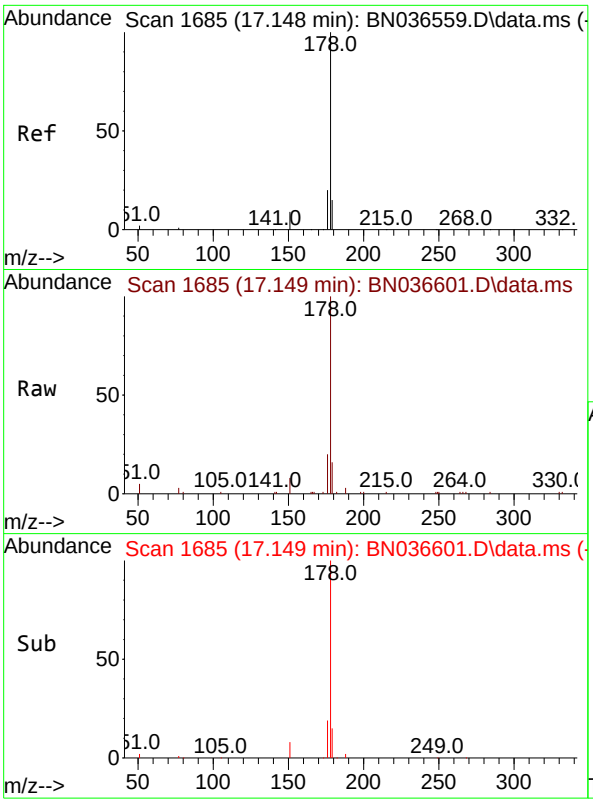


#24
Pentachlorophenol
Concen: 0.421 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:266 Resp: 951

Ion	Ratio	Lower	Upper
266	100		
264	60.9	49.6	74.4
268	62.6	50.9	76.3



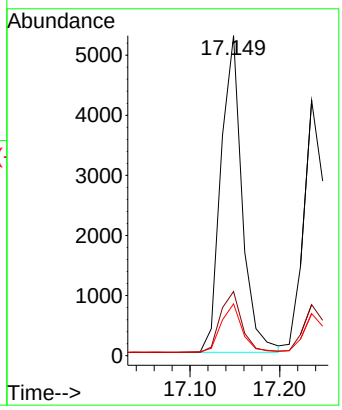


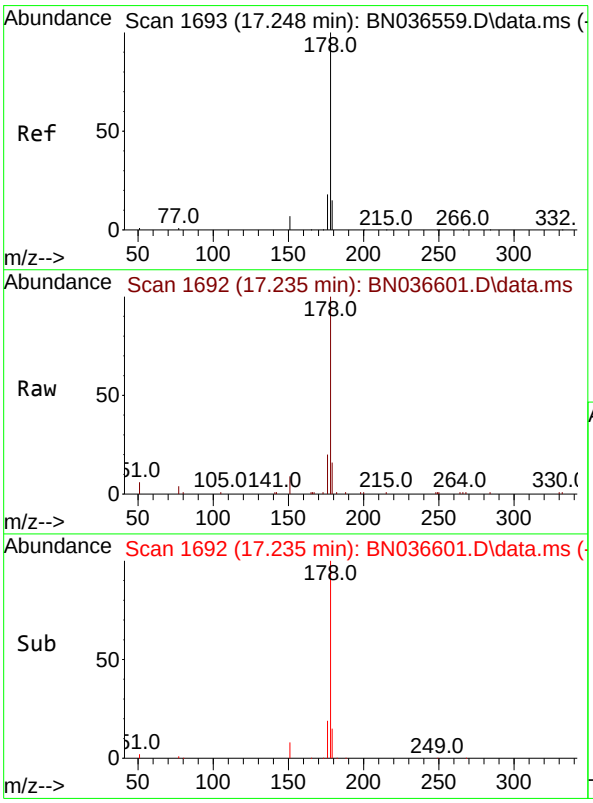
#25
Phenanthrene
Concen: 0.441 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 8657

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.2	12.2	18.4

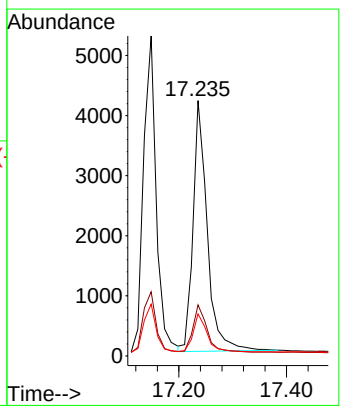


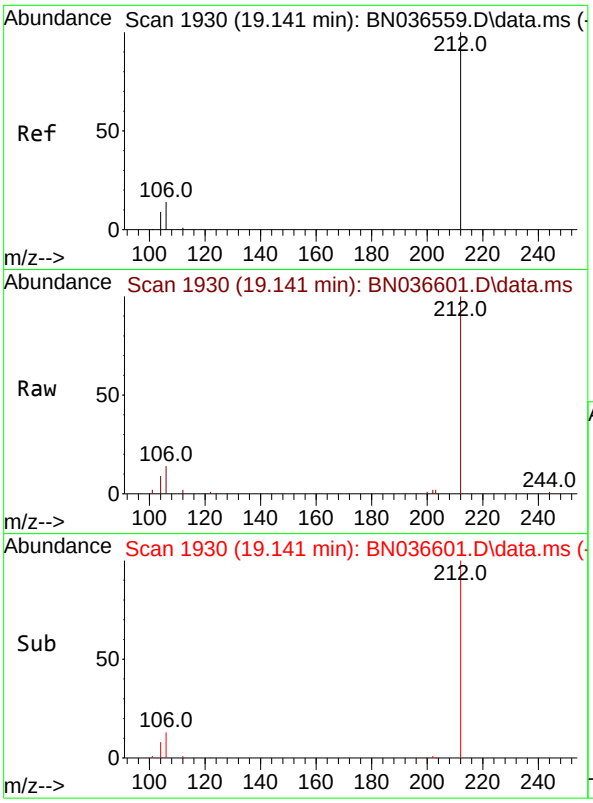


#26
Anthracene
Concen: 0.432 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:178 Resp: 7658

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.6	18.8



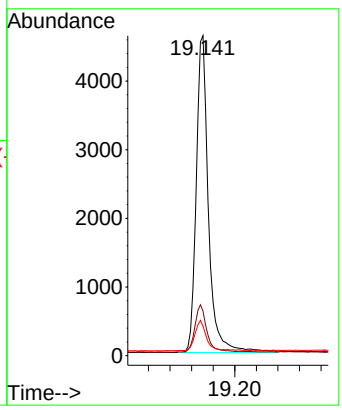


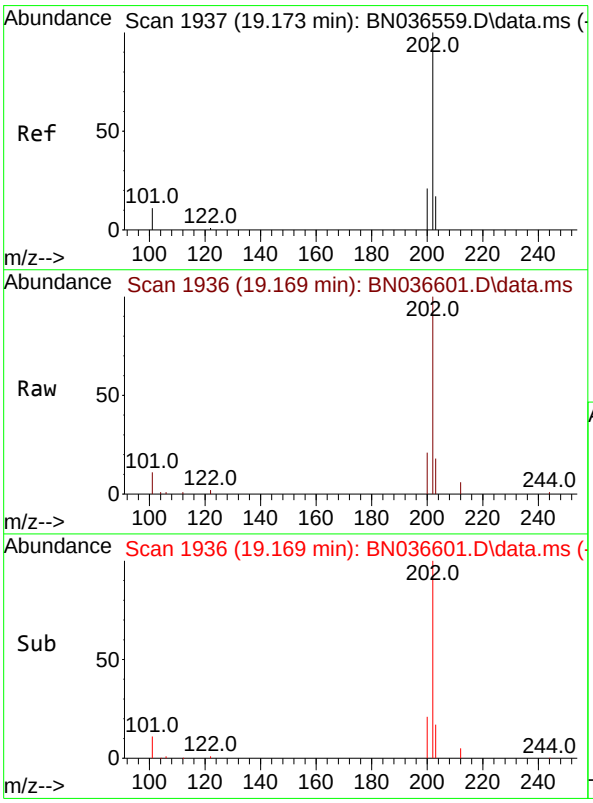
#27
Fluoranthene-d10
Concen: 0.432 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 7252

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	9.1	7.3	10.9

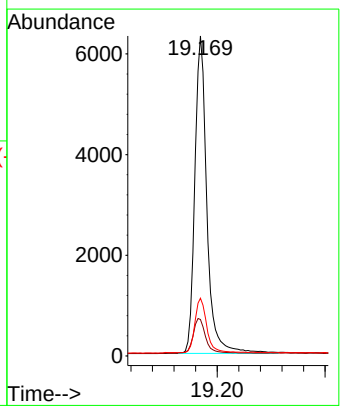


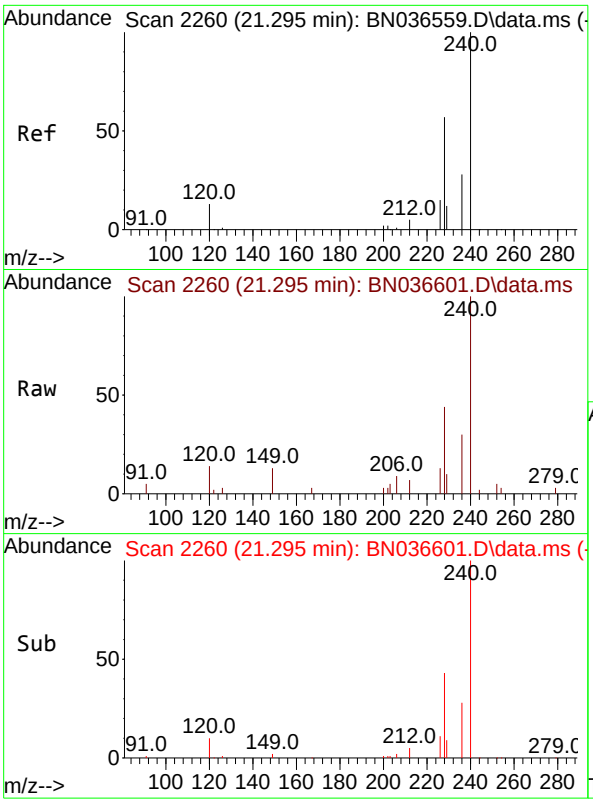


#28
Fluoranthene
Concen: 0.443 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:202 Resp: 9780

Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.4	14.0
203	16.9	13.5	20.3



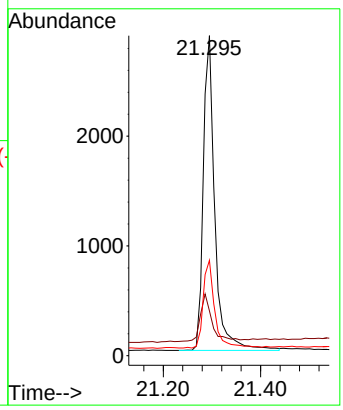


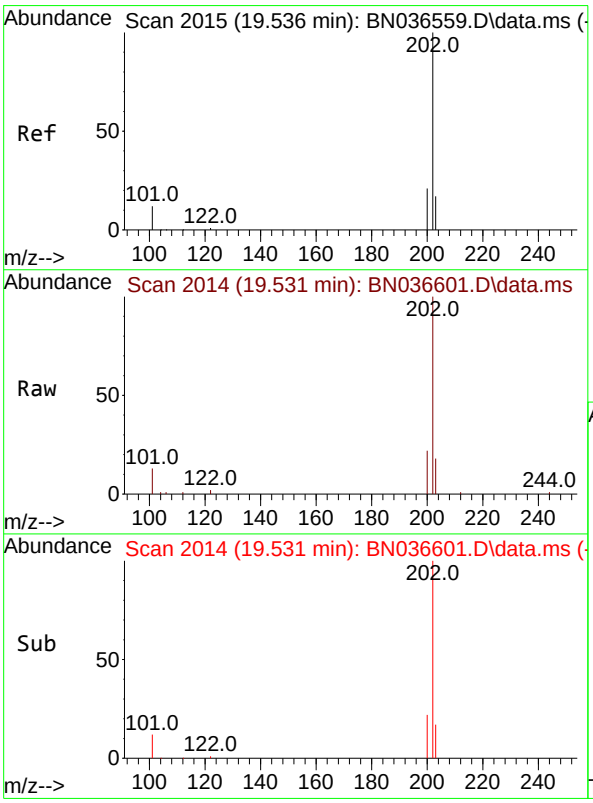
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 4700

Ion	Ratio	Lower	Upper
240	100		
120	14.0	14.6	22.0#
236	29.8	24.1	36.1

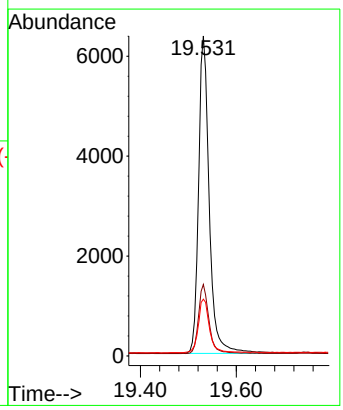


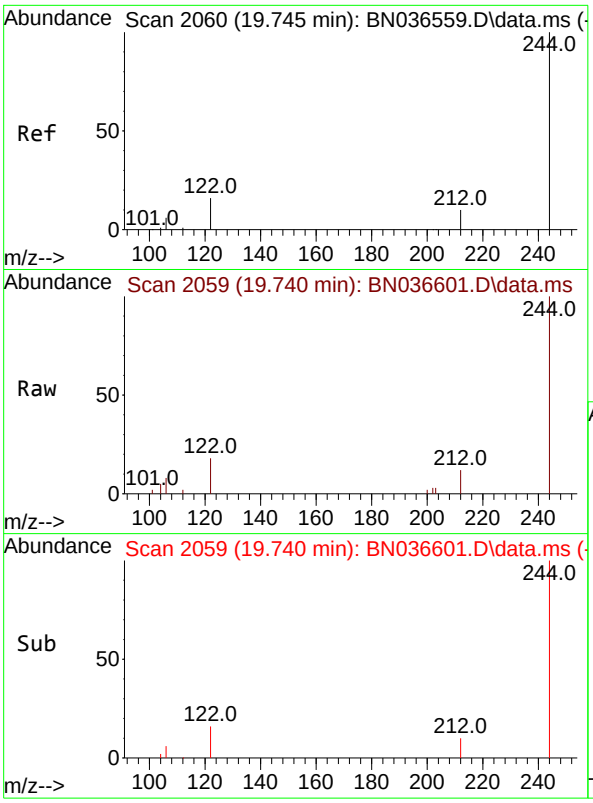


#30
Pyrene
Concen: 0.428 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:202 Resp: 9845

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.6	14.1	21.1



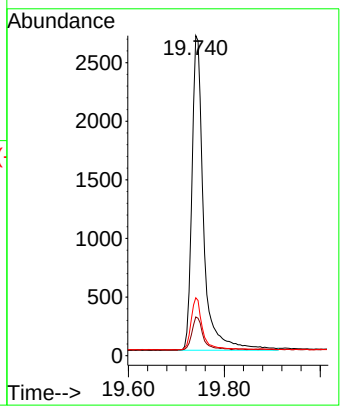


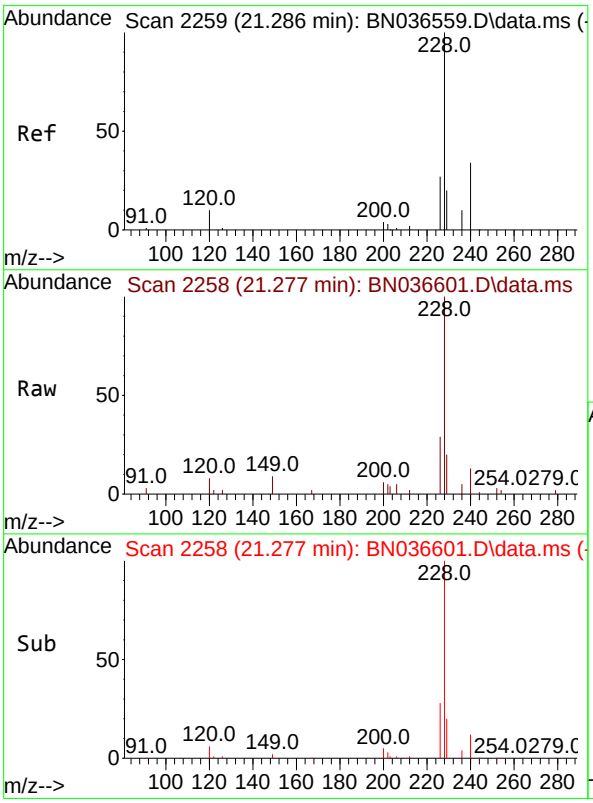
#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 4580

Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.6	14.4
122	18.1	13.9	20.9

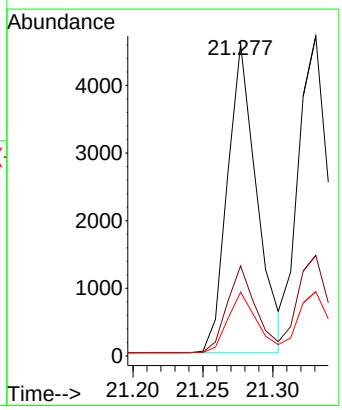


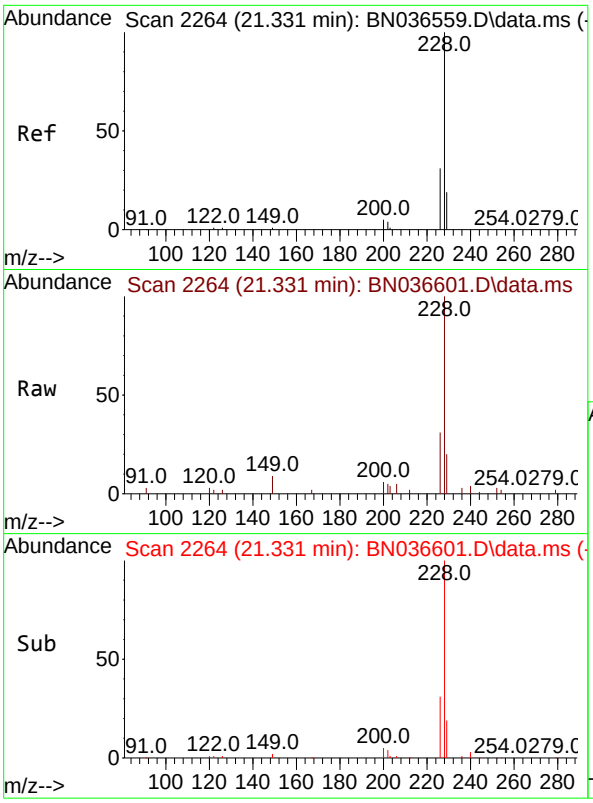


#32
Benzo(a)anthracene
Concen: 0.409 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:228 Resp: 6690

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.5	33.7
229	20.4	16.6	25.0



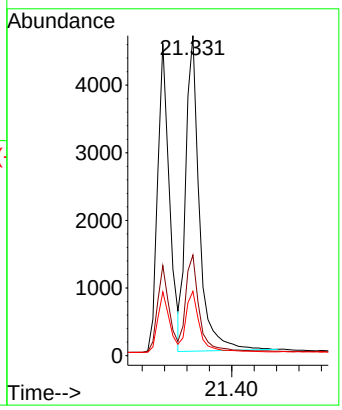


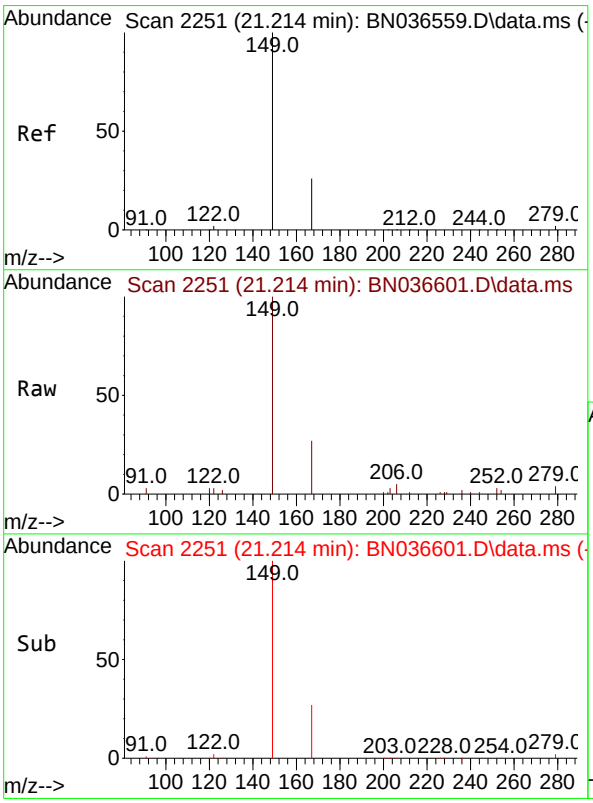
#33
Chrysene
Concen: 0.440 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 7857

Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.3	37.9
229	20.1	15.8	23.8

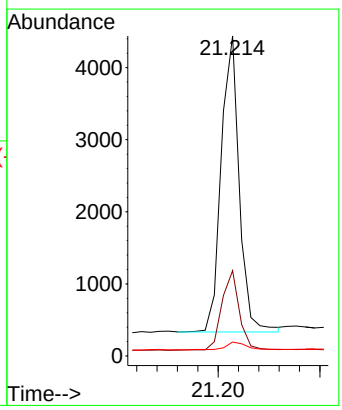


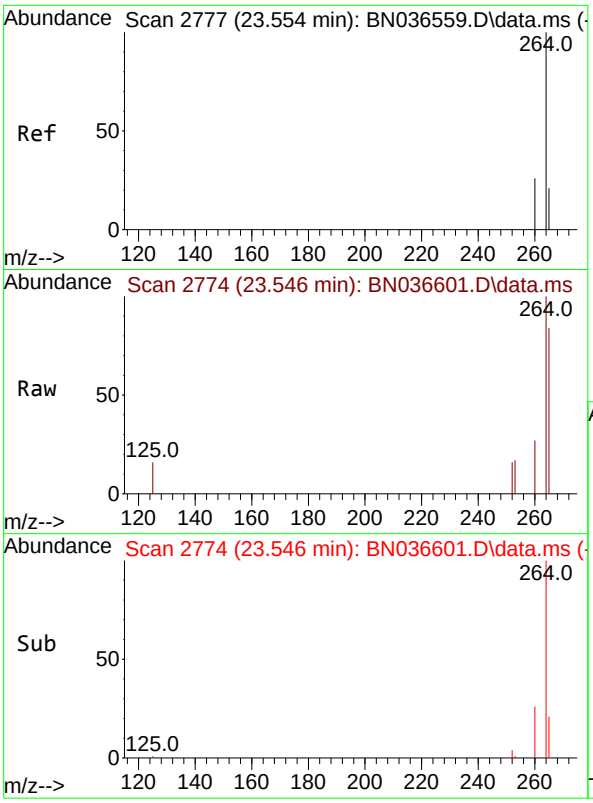


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.435 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:149 Resp: 5063

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	3.2	3.6	5.4#



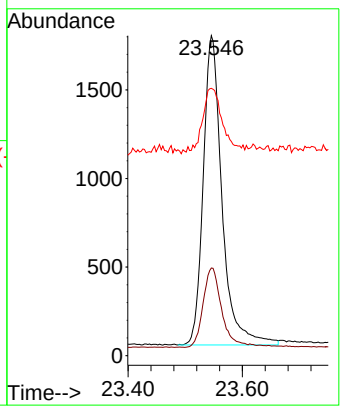


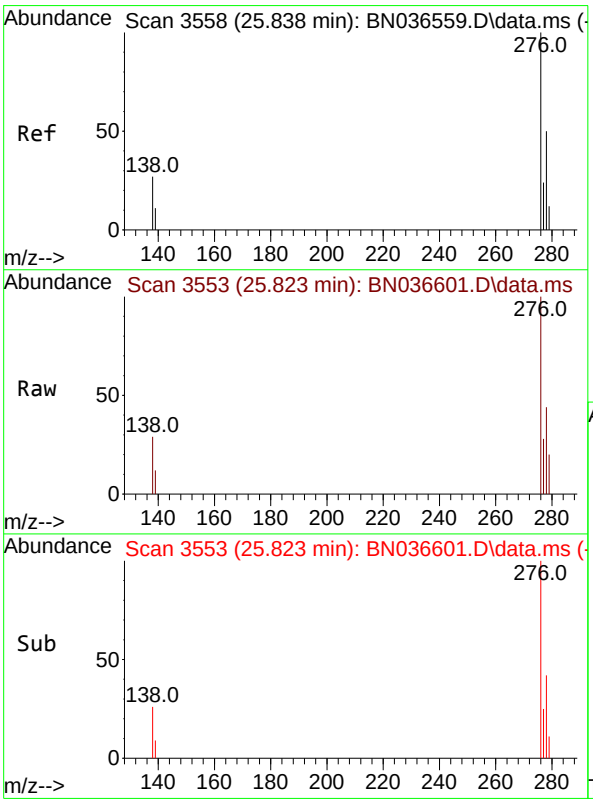
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 3986

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	83.6	88.1	132.1#

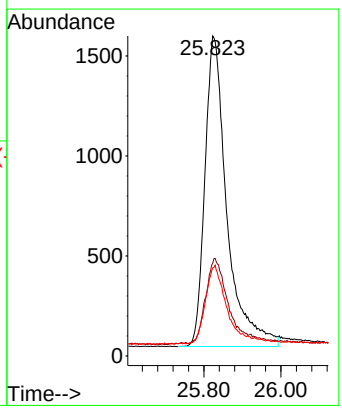


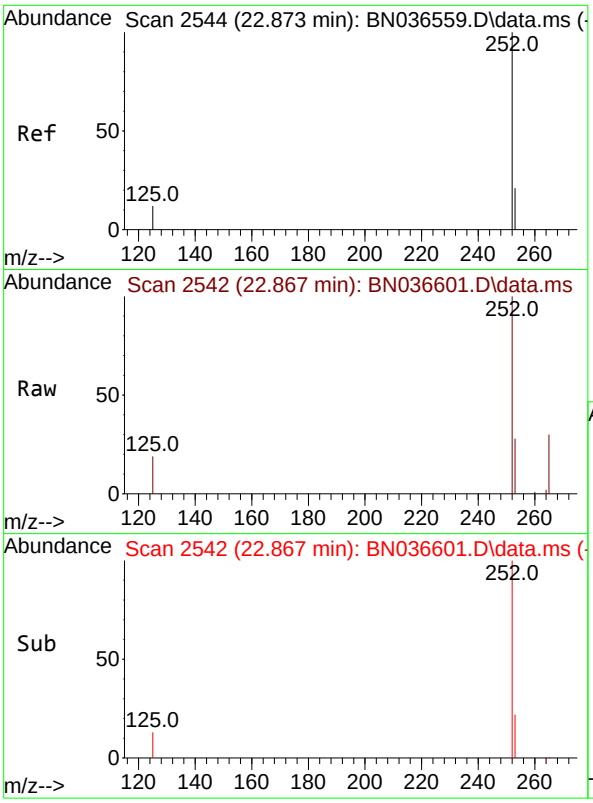


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.427 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.015 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:276 Resp: 6150

Ion	Ratio	Lower	Upper
276	100		
138	27.0	23.4	35.2
277	23.4	20.0	30.0



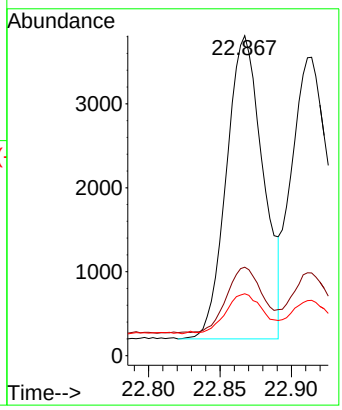


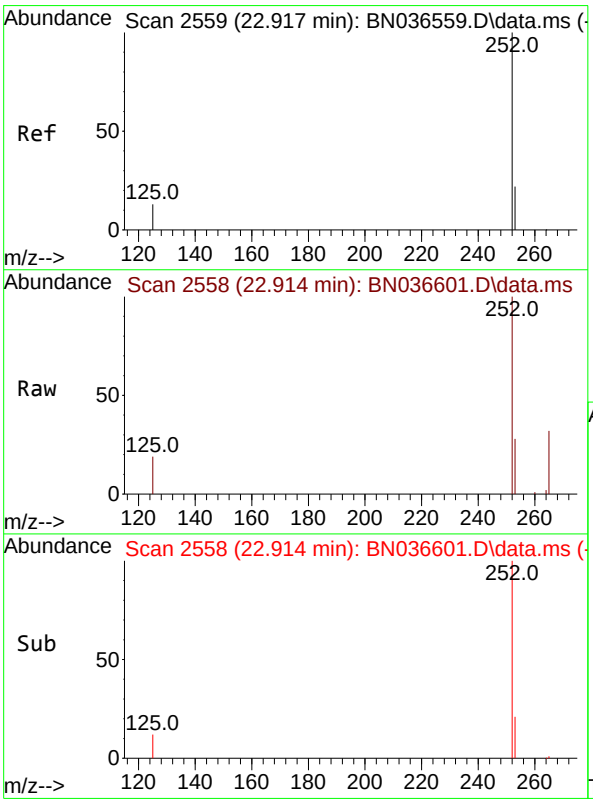
#37
Benzo(b)fluoranthene
Concen: 0.444 ng
RT: 22.867 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 6447

Ion	Ratio	Lower	Upper
252	100		
253	27.7	23.9	35.9
125	19.3	17.4	26.2

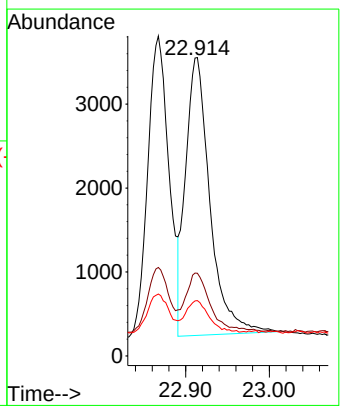


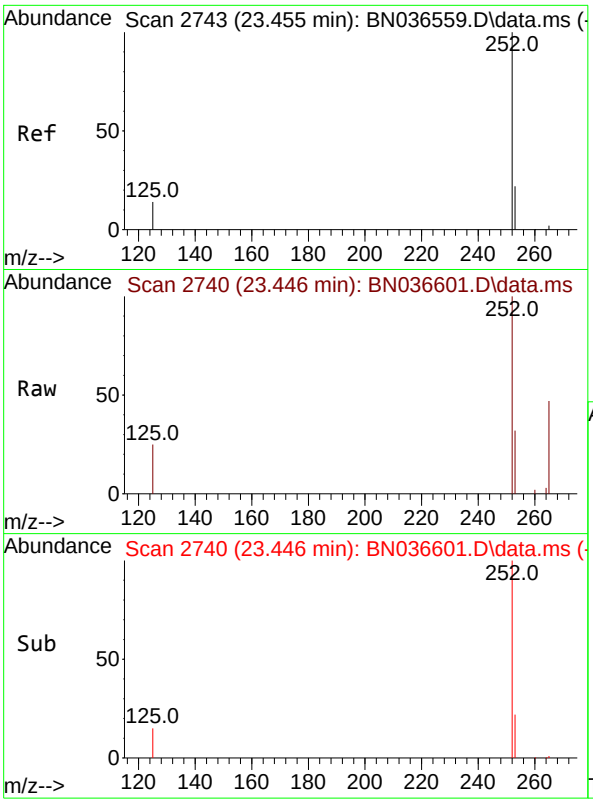


#38
Benzo(k)fluoranthene
Concen: 0.440 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:252 Resp: 6700

Ion	Ratio	Lower	Upper
252	100		
253	27.7	24.6	36.8
125	18.5	17.8	26.8



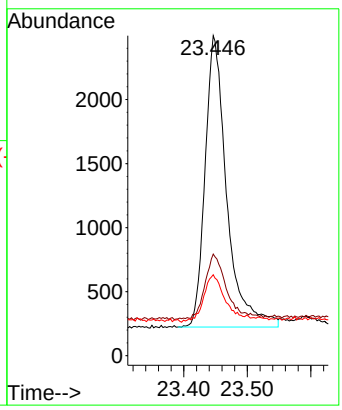


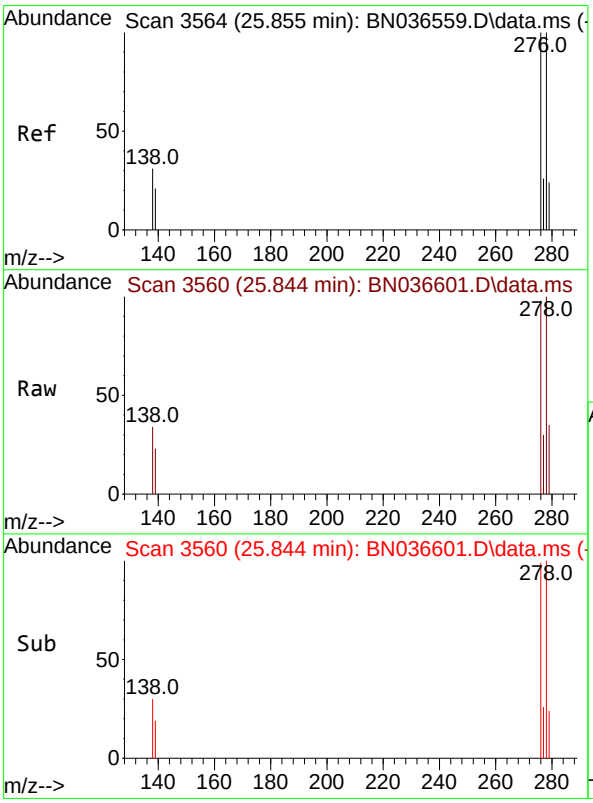
#39
Benzo(a)pyrene
Concen: 0.441 ng
RT: 23.446 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5389

Ion	Ratio	Lower	Upper
252	100		
253	31.7	27.8	41.8
125	25.3	22.7	34.1

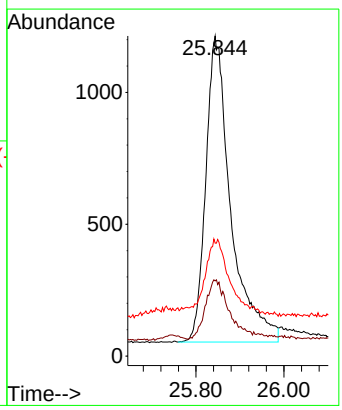


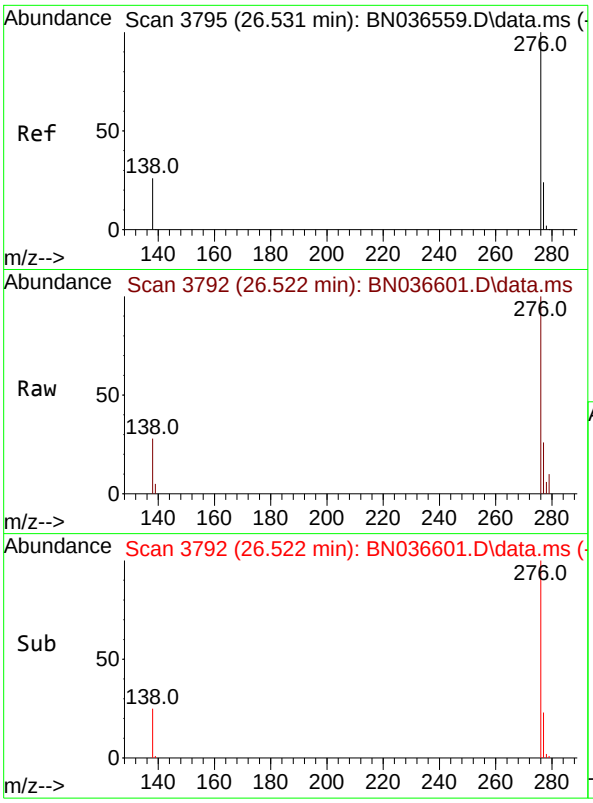


#40
Dibenzo(a,h)anthracene
Concen: 0.411 ng
RT: 25.844 min Scan# 3560
Delta R.T. -0.012 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:278 Resp: 4599

Ion	Ratio	Lower	Upper
278	100		
139	23.5	20.8	31.2
279	35.3	28.8	43.2



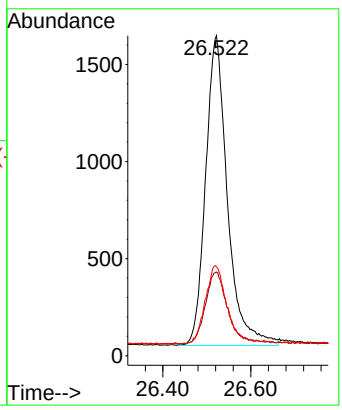


#41
Benzo(g,h,i)perylene
Concen: 0.430 ng
RT: 26.522 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 5508

Ion	Ratio	Lower	Upper
276	100		
277	26.2	22.2	33.4
138	27.8	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036601.D
Acq On : 14 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 14 10:56:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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	109	0.00
2		1,4-Dioxane	0.444	0.525	-18.2	115	0.00
3		n-Nitrosodimethylamine	0.898	0.996	-10.9	116	0.00
4	S	2-Fluorophenol	0.932	0.929	0.3	102	0.00
5	S	Phenol-d6	1.152	1.129	2.0	109	0.00
6		bis(2-Chloroethyl)ether	1.190	1.218	-2.4	112	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	112	0.00
8	S	Nitrobenzene-d5	0.435	0.423	2.8	115	-0.01
9		Naphthalene	1.177	1.208	-2.6	113	-0.01
10		Hexachlorobutadiene	0.277	0.291	-5.1	111	0.00
11	SURR	2-Methylnaphthalene-d10	0.595	0.593	0.3	110	-0.01
12		2-Methylnaphthalene	0.749	0.750	-0.1	110	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	110	-0.01
14	S	2,4,6-Tribromophenol	0.182	0.184	-1.1	108	0.00
15	S	2-Fluorobiphenyl	2.327	2.416	-3.8	111	0.00
16		Acenaphthylene	1.888	1.966	-4.1	111	0.00
17		Acenaphthene	1.236	1.276	-3.2	109	-0.01
18		Fluorene	1.672	1.785	-6.8	111	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	109	-0.01
20		4,6-Dinitro-2-methylphenol	0.086	0.073	15.1	103	0.00
21		4-Bromophenyl-phenylether	0.251	0.275	-9.6	109	0.00
22		Hexachlorobenzene	0.303	0.338	-11.6	110	0.00
23		Atrazine	0.201	0.209	-4.0	107	0.00
24		Pentachlorophenol	0.138	0.145	-5.1	116	-0.01
25		Phenanthrene	1.200	1.322	-10.2	111	0.00
26		Anthracene	1.083	1.170	-8.0	111	-0.01
27	SURR	Fluoranthene-d10	1.025	1.108	-8.1	108	0.00
28		Fluoranthene	1.348	1.494	-10.8	112	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	114	0.00
30		Pyrene	1.956	2.095	-7.1	112	0.00
31	S	Terphenyl-d14	0.958	0.974	-1.7	108	0.00
32		Benzo(a)anthracene	1.391	1.423	-2.3	113	0.00
33		Chrysene	1.520	1.672	-10.0	119	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	1.077	-8.8	118	0.00
35	I	Perylene-d12	1.000	1.000	0.0	113	0.00
36		Indeno(1,2,3-cd)pyrene	1.444	1.543	-6.9	112	-0.01
37		Benzo(b)fluoranthene	1.456	1.617	-11.1	118	0.00
38		Benzo(k)fluoranthene	1.527	1.681	-10.1	117	0.00
39	C	Benzo(a)pyrene	1.226	1.352	-10.3	117	0.00
40		Dibenzo(a,h)anthracene	1.124	1.154	-2.7	112	-0.01
41		Benzo(g,h,i)perylene	1.286	1.382	-7.5	113	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036601.D
Acq On : 14 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 14 10:56:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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	109	0.00
2		1,4-Dioxane	0.400	0.474	-18.5	115	0.00
3		n-Nitrosodimethylamine	0.400	0.444	-11.0	116	0.00
4	S	2-Fluorophenol	0.400	0.399	0.3	102	0.00
5	S	Phenol-d6	0.400	0.392	2.0	109	0.00
6		bis(2-Chloroethyl)ether	0.400	0.409	-2.2	112	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	112	0.00
8	S	Nitrobenzene-d5	0.400	0.389	2.8	115	-0.01
9		Naphthalene	0.400	0.411	-2.7	113	-0.01
10		Hexachlorobutadiene	0.400	0.420	-5.0	111	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	110	-0.01
12		2-Methylnaphthalene	0.400	0.401	-0.3	110	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	110	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.405	-1.3	108	0.00
15	S	2-Fluorobiphenyl	0.400	0.415	-3.7	111	0.00
16		Acenaphthylene	0.400	0.417	-4.2	111	0.00
17		Acenaphthene	0.400	0.413	-3.2	109	-0.01
18		Fluorene	0.400	0.427	-6.7	111	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	109	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.431	-7.7	103	0.00
21		4-Bromophenyl-phenylether	0.400	0.439	-9.7	109	0.00
22		Hexachlorobenzene	0.400	0.446	-11.5	110	0.00
23		Atrazine	0.400	0.416	-4.0	107	0.00
24		Pentachlorophenol	0.400	0.421	-5.2	116	-0.01
25		Phenanthrene	0.400	0.441	-10.2	111	0.00
26		Anthracene	0.400	0.432	-8.0	111	-0.01
27	SURR	Fluoranthene-d10	0.400	0.432	-8.0	108	0.00
28		Fluoranthene	0.400	0.443	-10.7	112	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	114	0.00
30		Pyrene	0.400	0.428	-7.0	112	0.00
31	S	Terphenyl-d14	0.400	0.407	-1.7	108	0.00
32		Benzo(a)anthracene	0.400	0.409	-2.2	113	0.00
33		Chrysene	0.400	0.440	-10.0	119	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.435	-8.7	118	0.00
35	I	Perylene-d12	0.400	0.400	0.0	113	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.427	-6.7	112	-0.01
37		Benzo(b)fluoranthene	0.400	0.444	-11.0	118	0.00
38		Benzo(k)fluoranthene	0.400	0.440	-10.0	117	0.00
39	C	Benzo(a)pyrene	0.400	0.441	-10.2	117	0.00
40		Dibenzo(a,h)anthracene	0.400	0.411	-2.7	112	-0.01
41		Benzo(g,h,i)perylene	0.400	0.430	-7.5	113	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: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: BNA_N Calibration Date/Time: 03/14/2025 20:30

Lab File ID: BN036615.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.605		1.7	20.0
Fluoranthene-d10	1.025	1.072		4.6	20.0
2-Fluorophenol	0.932	0.927		-0.5	20.0
Phenol-d6	1.152	1.120		-2.8	20.0
Nitrobenzene-d5	0.435	0.416		-4.4	20.0
2-Fluorobiphenyl	2.327	2.425		4.2	20.0
4,6-Dinitro-2-methylphenol	0.086	0.067		-22.1	20.0
2,4,6-Tribromophenol	0.182	0.184		1.1	20.0
Pentachlorophenol	0.138	0.129		-6.5	20.0
Terphenyl-d14	0.958	0.981		2.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036615.D
Acq On : 14 Mar 2025 20:30
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 14 23:41:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

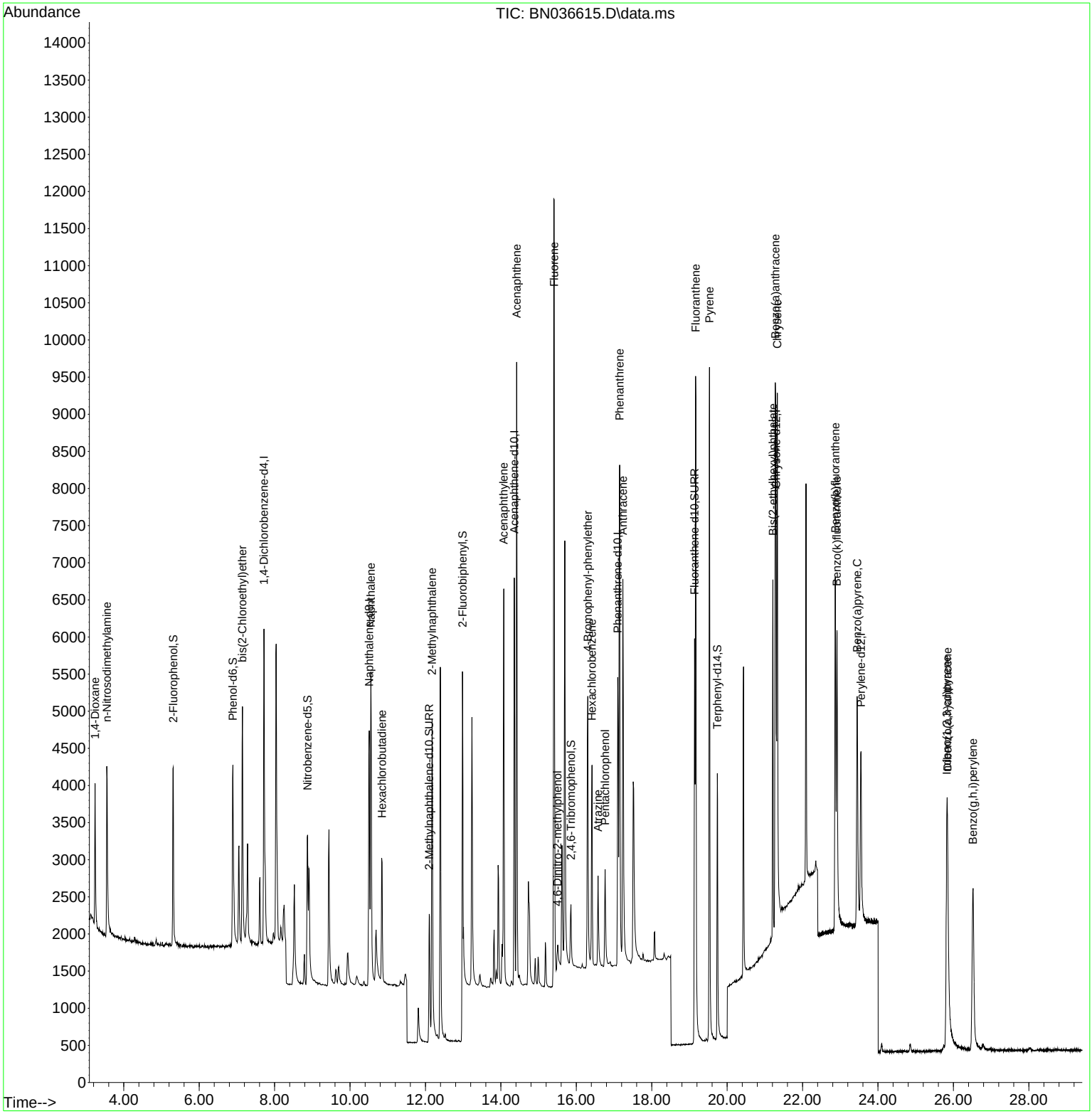
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.717	152	2093	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5069	0.400	ng	#	0.00
13) Acenaphthene-d10	14.355	164	2917	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	6068	0.400	ng	#	-0.01
29) Chrysene-d12	21.295	240	4261	0.400	ng	#	0.00
35) Perylene-d12	23.548	264	3574	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	1940	0.398	ng		0.00
5) Phenol-d6	6.894	99	2344	0.389	ng		0.00
8) Nitrobenzene-d5	8.875	82	2108	0.382	ng		0.00
11) 2-Methylnaphthalene-d10	12.101	152	3069	0.407	ng		-0.01
14) 2,4,6-Tribromophenol	15.858	330	536	0.405	ng		0.00
15) 2-Fluorobiphenyl	12.983	172	7075	0.417	ng		0.00
27) Fluoranthene-d10	19.136	212	6502	0.418	ng		0.00
31) Terphenyl-d14	19.740	244	4181	0.410	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	1072	0.462	ng		99
3) n-Nitrosodimethylamine	3.550	42	2018	0.430	ng		99
6) bis(2-Chloroethyl)ether	7.147	93	2373	0.381	ng		94
9) Naphthalene	10.551	128	6081	0.408	ng		100
10) Hexachlorobutadiene	10.850	225	1464	0.417	ng	#	99
12) 2-Methylnaphthalene	12.177	142	3809	0.401	ng		98
16) Acenaphthylene	14.077	152	5849	0.425	ng		99
17) Acenaphthene	14.420	154	3789	0.420	ng		98
18) Fluorene	15.414	166	5219	0.428	ng		99
20) 4,6-Dinitro-2-methylph...	15.499	198	409	0.410	ng		86
21) 4-Bromophenyl-phenylether	16.304	248	1591	0.418	ng	#	83
22) Hexachlorobenzene	16.416	284	1956	0.426	ng		98
23) Atrazine	16.577	200	1246	0.409	ng		95
24) Pentachlorophenol	16.764	266	782	0.374	ng		99
25) Phenanthrene	17.148	178	7689	0.422	ng		100
26) Anthracene	17.235	178	6726	0.409	ng		99
28) Fluoranthene	19.164	202	8879	0.434	ng		100
30) Pyrene	19.531	202	8929	0.429	ng		99
32) Benzo(a)anthracene	21.277	228	6022	0.406	ng		99
33) Chrysene	21.331	228	7230	0.447	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	4732	0.449	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.823	276	5391	0.418	ng		97
37) Benzo(b)fluoranthene	22.867	252	5957	0.458	ng		98
38) Benzo(k)fluoranthene	22.911	252	6070	0.445	ng		96
39) Benzo(a)pyrene	23.446	252	4994	0.456	ng		94
40) Dibenzo(a,h)anthracene	25.844	278	4159	0.414	ng		100
41) Benzo(g,h,i)perylene	26.522	276	4897	0.426	ng		99

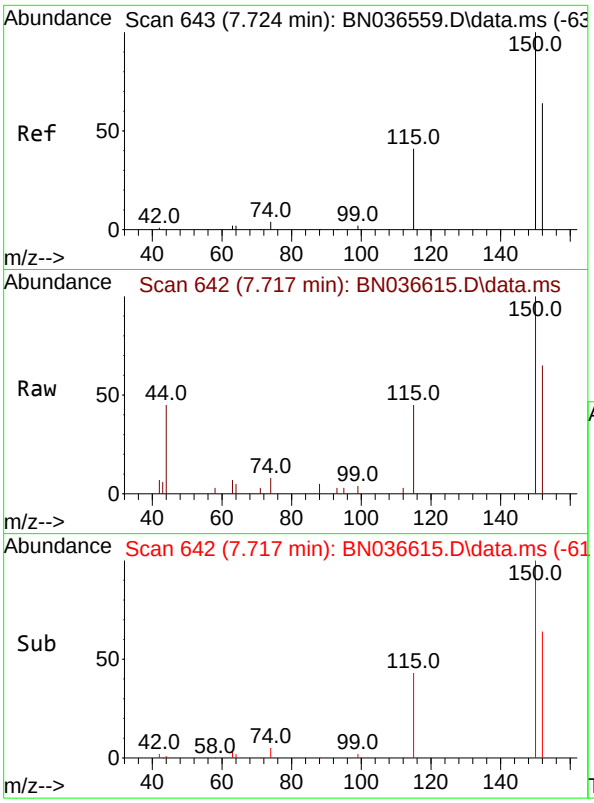
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036615.D
Acq On : 14 Mar 2025 20:30
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 14 23:41:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



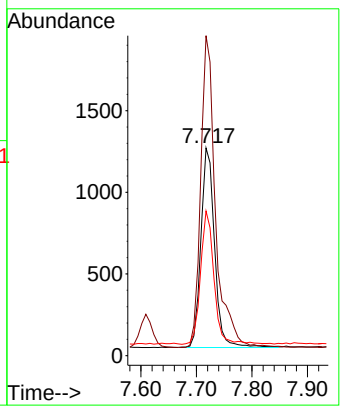


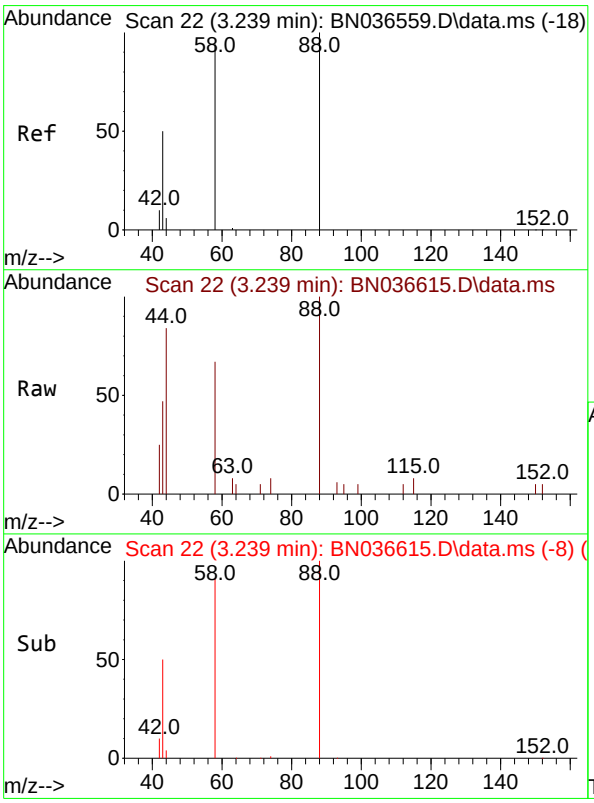
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2093

Ion	Ratio	Lower	Upper
152	100		
150	154.1	123.7	185.5
115	69.6	54.3	81.5

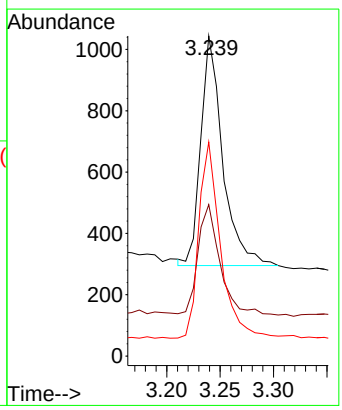


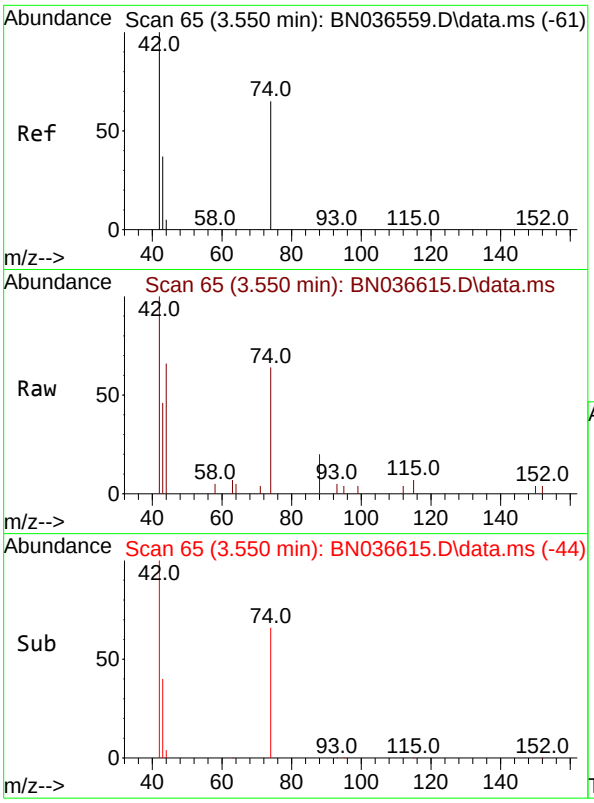


#2
1,4-Dioxane
Concen: 0.462 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion: 88 Resp: 1072

Ion	Ratio	Lower	Upper
88	100		
43	48.2	37.8	56.8
58	84.6	67.4	101.2



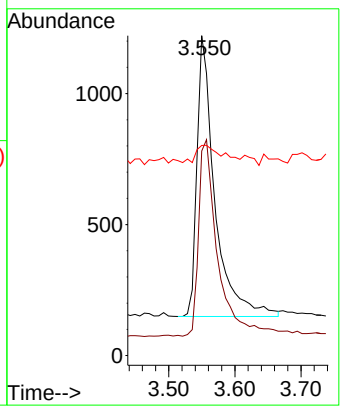


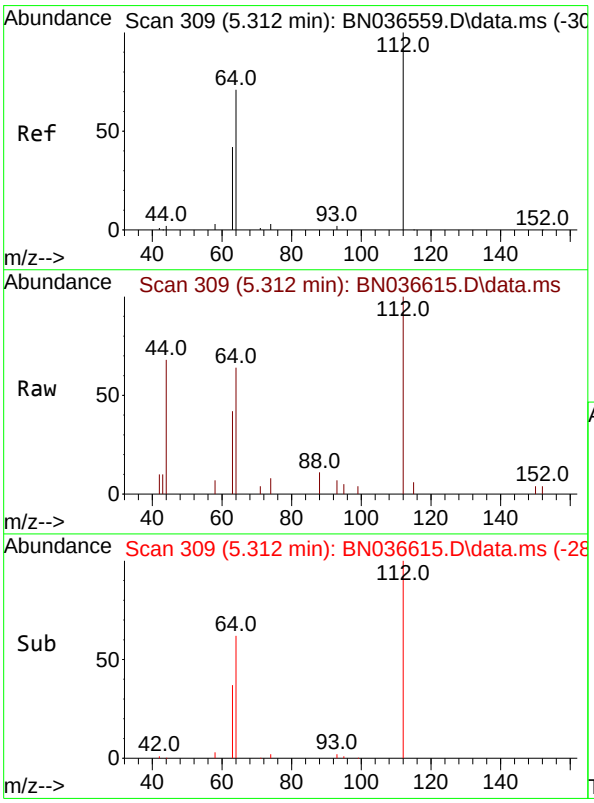
#3
n-Nitrosodimethylamine
Concen: 0.430 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2018

Ion	Ratio	Lower	Upper
42	100		
74	74.8	60.6	90.8
44	8.5	6.3	9.5

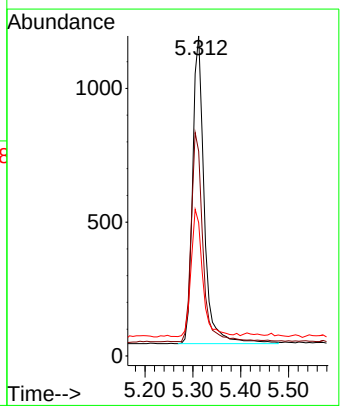


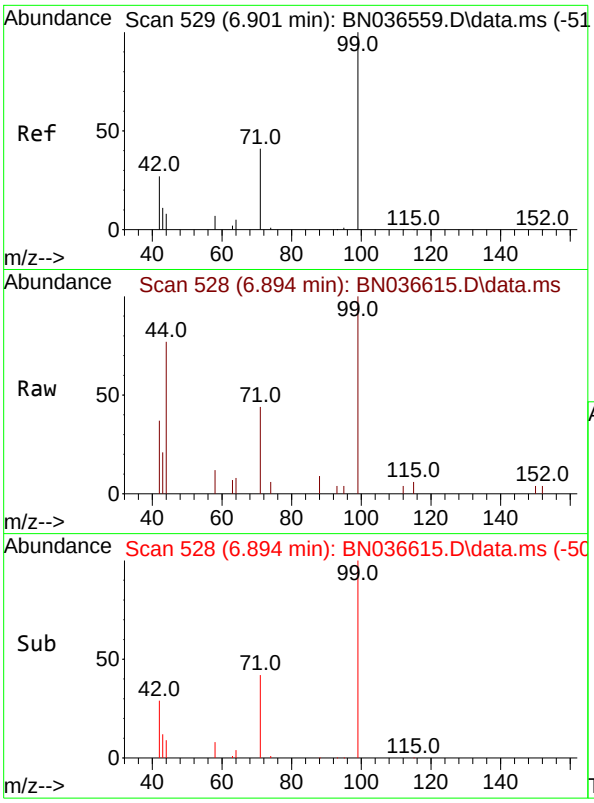


#4
2-Fluorophenol
Concen: 0.398 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:112 Resp: 1940

Ion	Ratio	Lower	Upper
112	100		
64	67.7	53.1	79.7
63	41.3	31.8	47.8



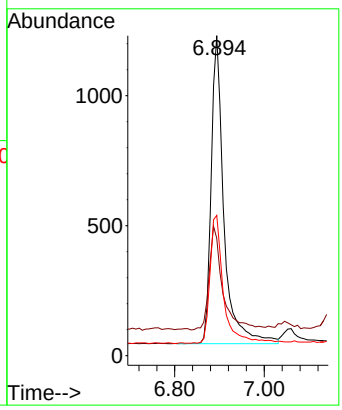


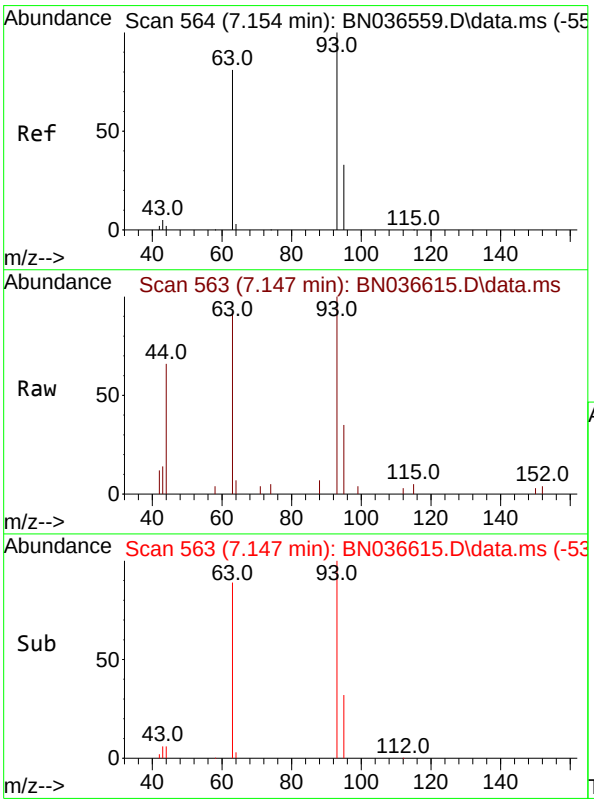
#5
Phenol-d6
Concen: 0.389 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2344

Ion	Ratio	Lower	Upper
99	100		
42	35.9	26.5	39.7
71	44.0	34.1	51.1

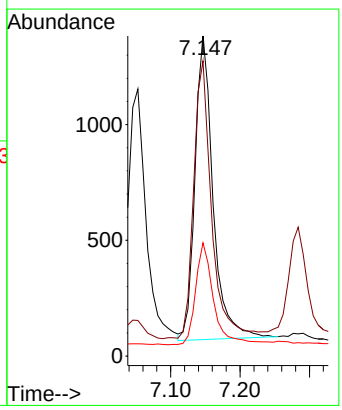


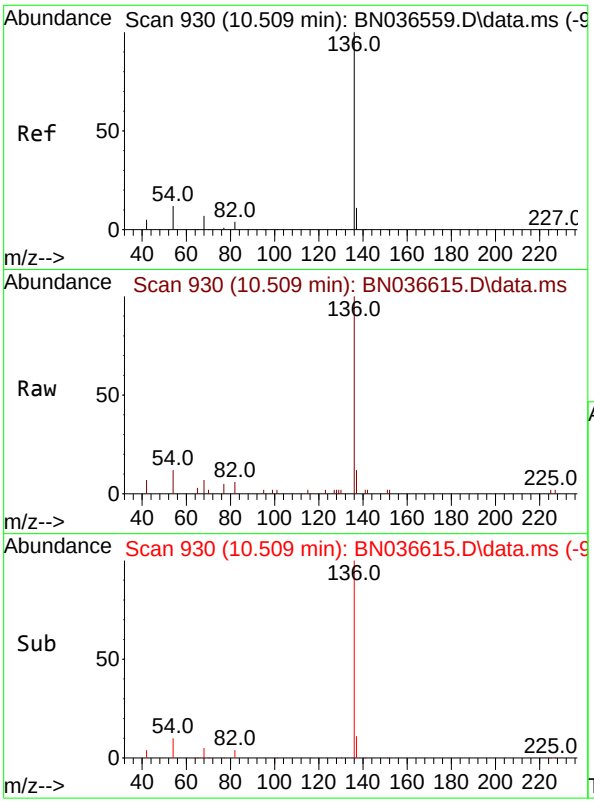


#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion: 93 Resp: 2373

Ion	Ratio	Lower	Upper
93	100		
63	91.2	67.7	101.5
95	33.8	25.6	38.4



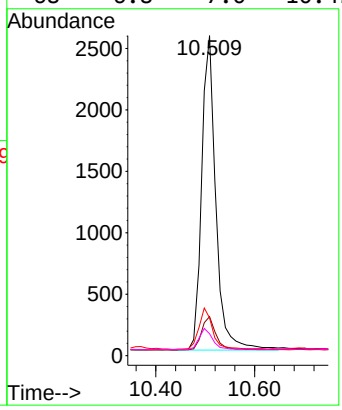


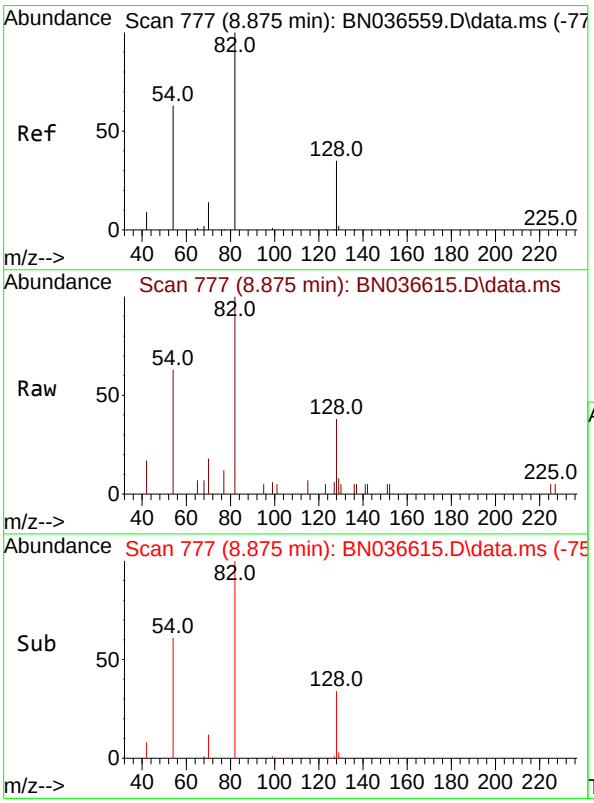
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 5069

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.3	15.5
54	11.8	11.5	17.3
68	6.8	7.0	10.4#

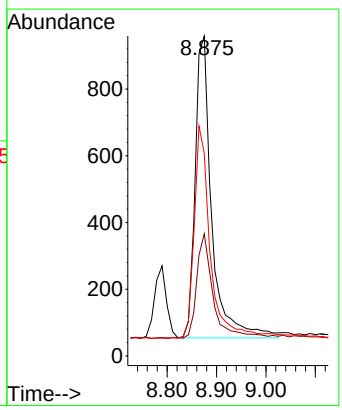


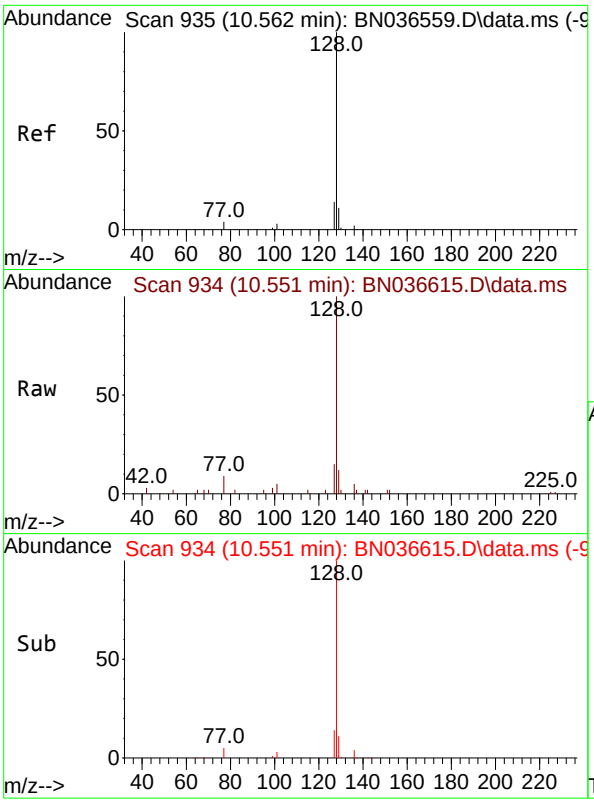


#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion: 82 Resp: 2108

Ion	Ratio	Lower	Upper
82	100		
128	38.2	30.6	45.8
54	63.3	52.2	78.4



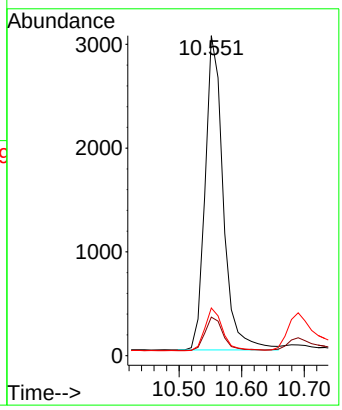


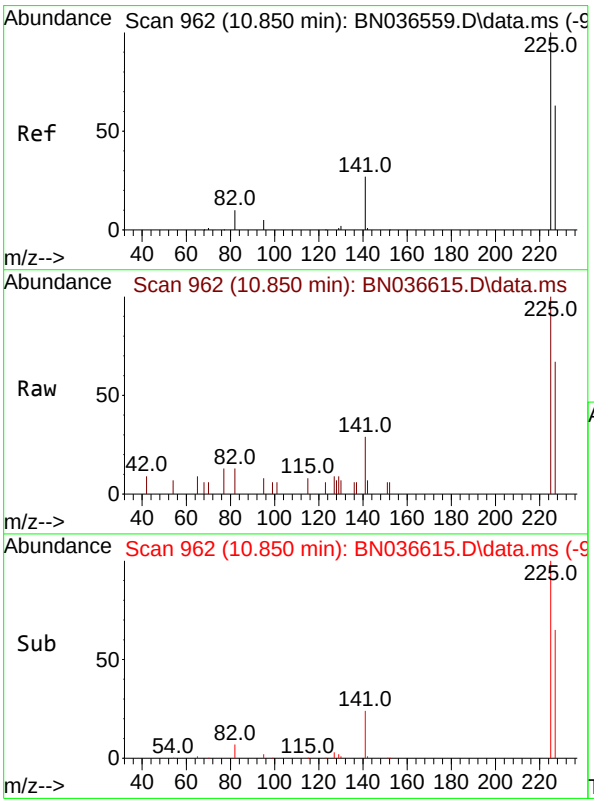
#9
Naphthalene
Concen: 0.408 ng
RT: 10.551 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 6081

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.9	11.8	17.8

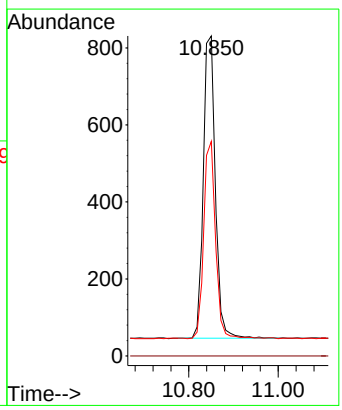


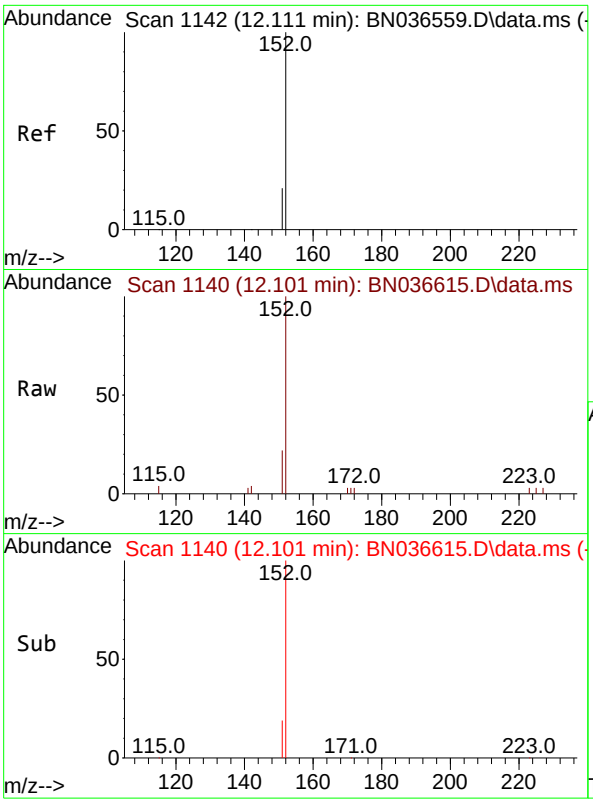


#10
Hexachlorobutadiene
Concen: 0.417 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:225 Resp: 1464

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.8	77.8



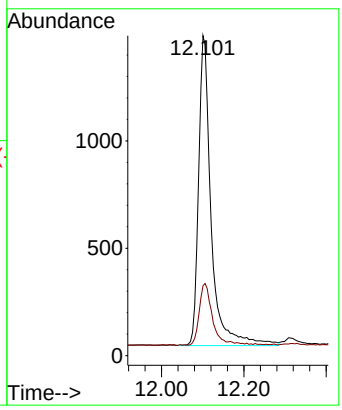


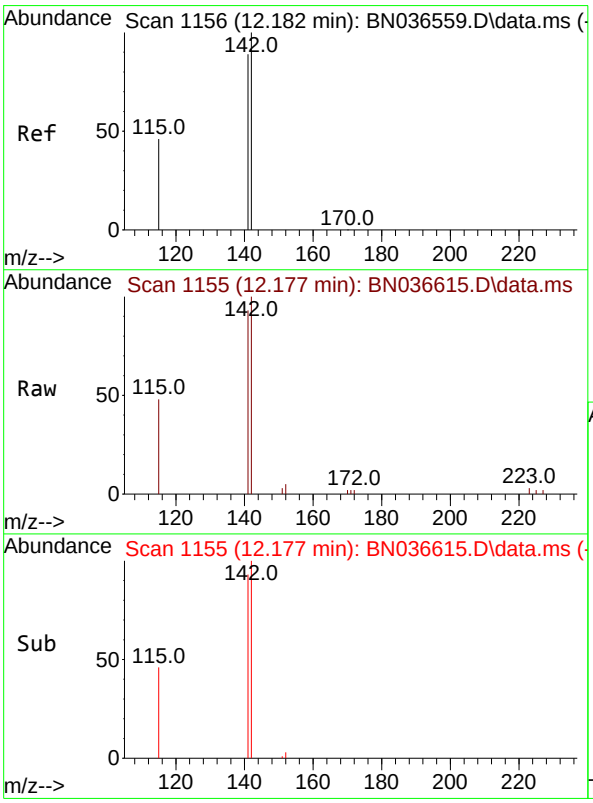
#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3069

Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.0	25.6

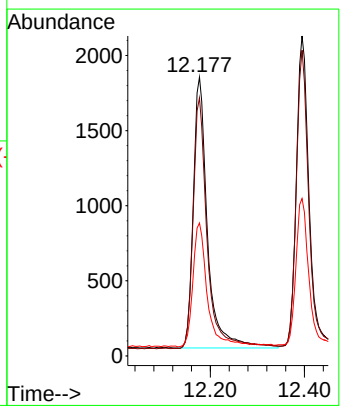


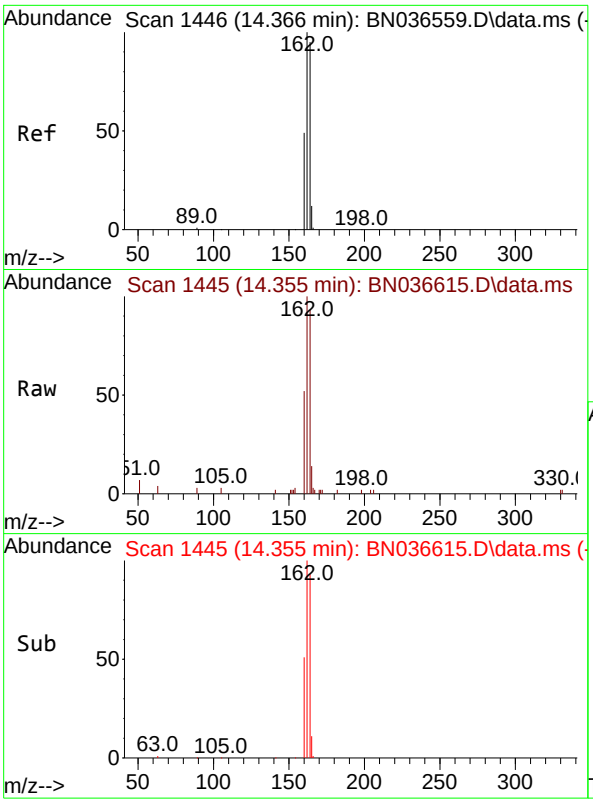


#12
2-Methylnaphthalene
Concen: 0.401 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:142 Resp: 3809

Ion	Ratio	Lower	Upper
142	100		
141	92.6	71.7	107.5
115	47.7	38.3	57.5



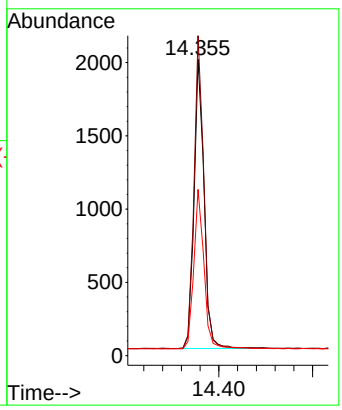


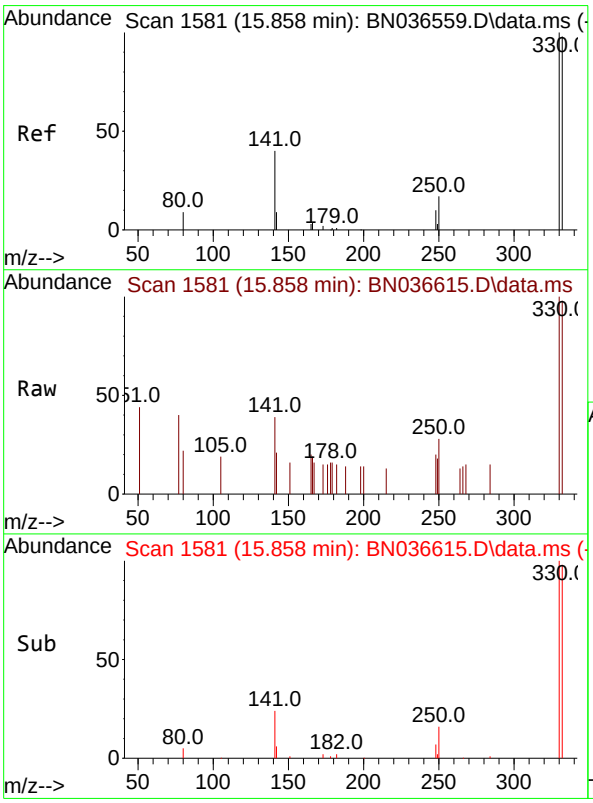
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2917

Ion	Ratio	Lower	Upper
164	100		
162	107.9	84.2	126.2
160	56.0	42.2	63.2

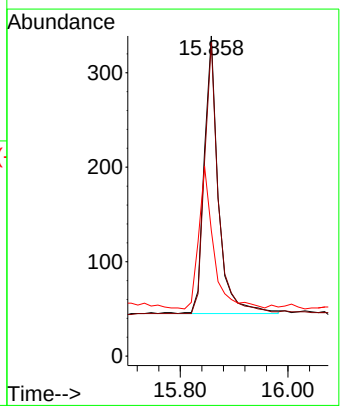


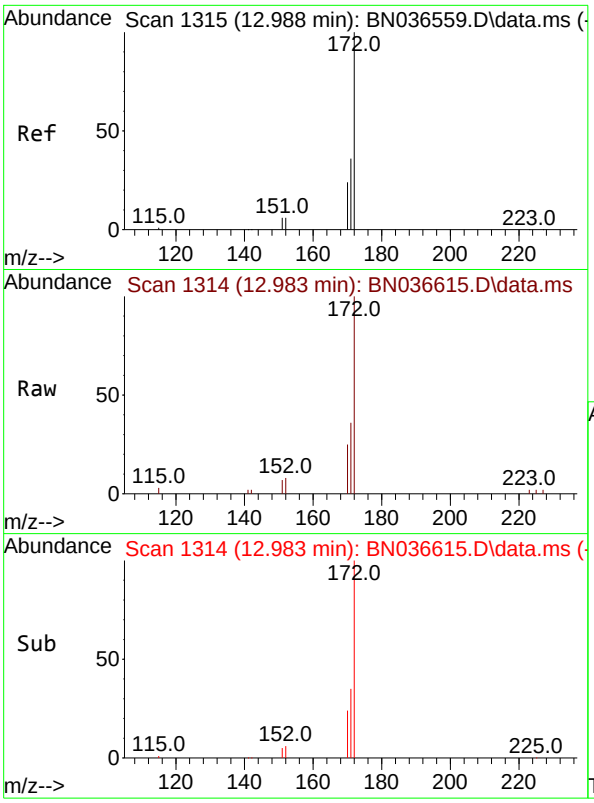


#14
2,4,6-Tribromophenol
Concen: 0.405 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:330 Resp: 536

Ion	Ratio	Lower	Upper
330	100		
332	96.6	75.2	112.8
141	52.2	43.4	65.2



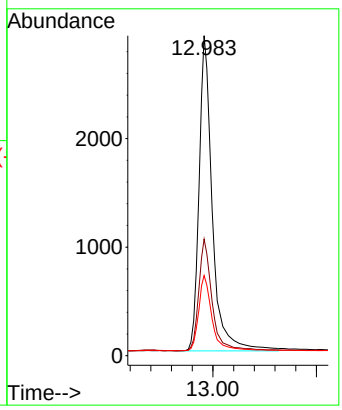


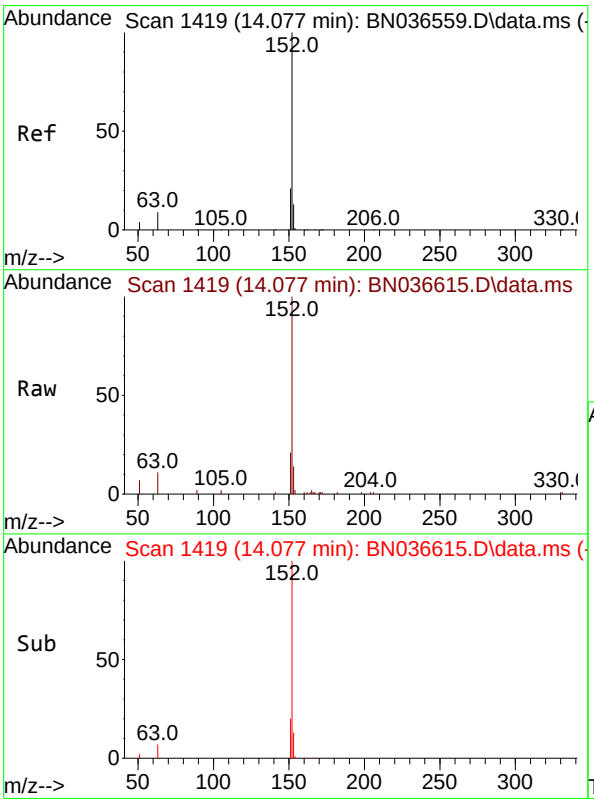
#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 7075

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.5	44.3
170	25.1	20.2	30.4

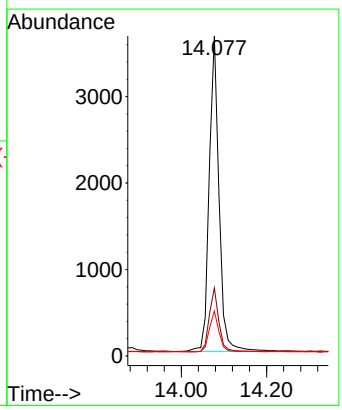


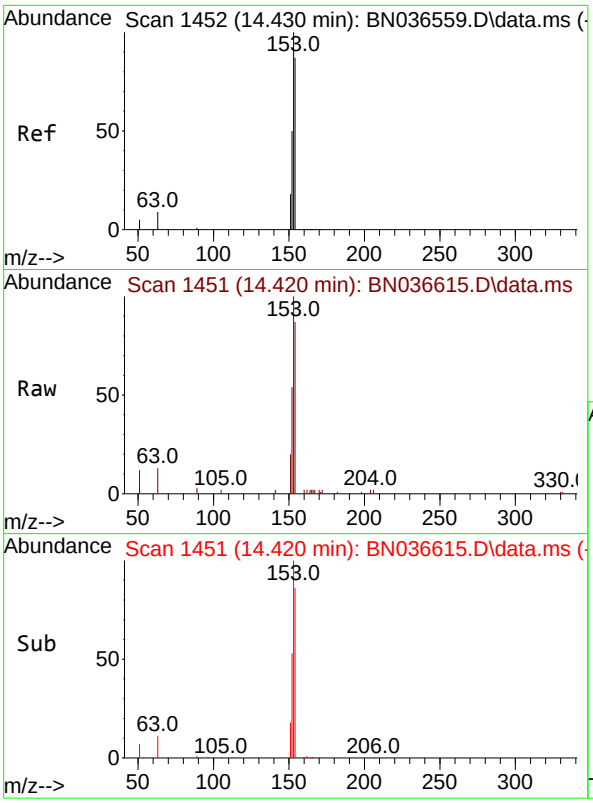


#16
Acenaphthylene
Concen: 0.425 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:152 Resp: 5849

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.4
153	12.7	10.6	15.8



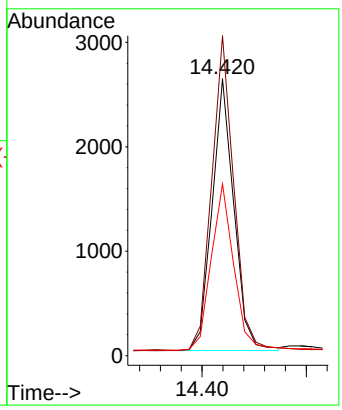


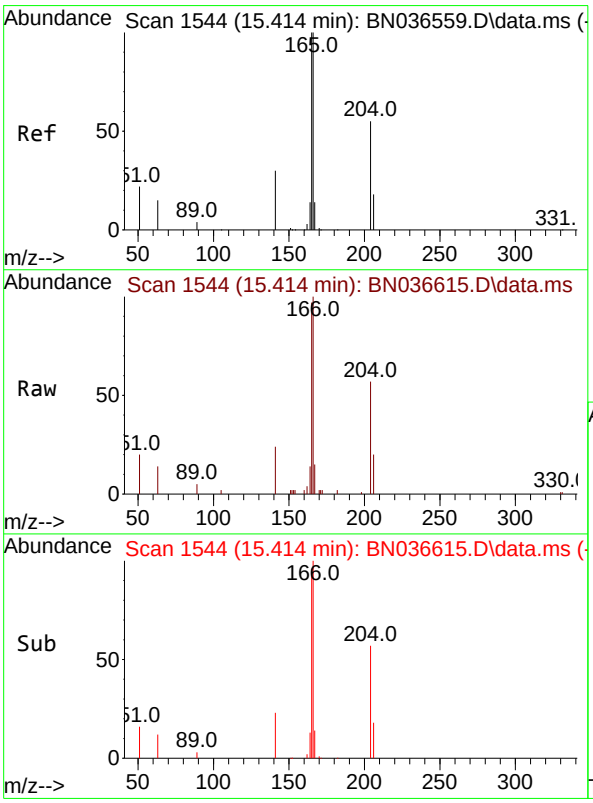
#17
Acenaphthene
Concen: 0.420 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 3789

Ion	Ratio	Lower	Upper
154	100		
153	118.4	94.1	141.1
152	64.4	49.8	74.6

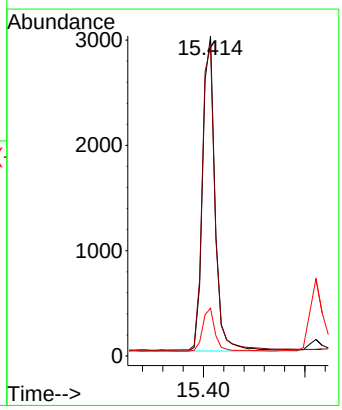


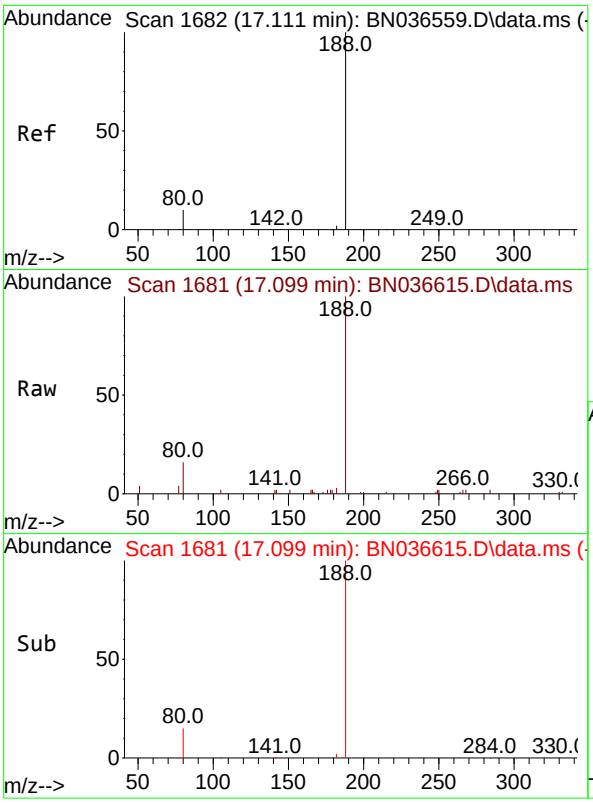


#18
Fluorene
Concen: 0.428 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:166 Resp: 5219

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.8	119.8
167	13.5	10.6	15.8



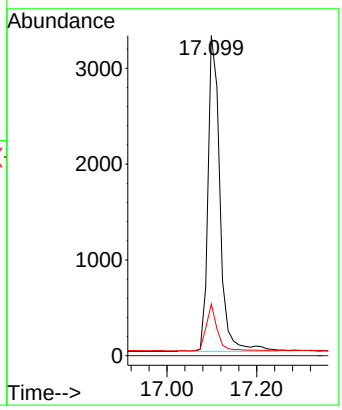


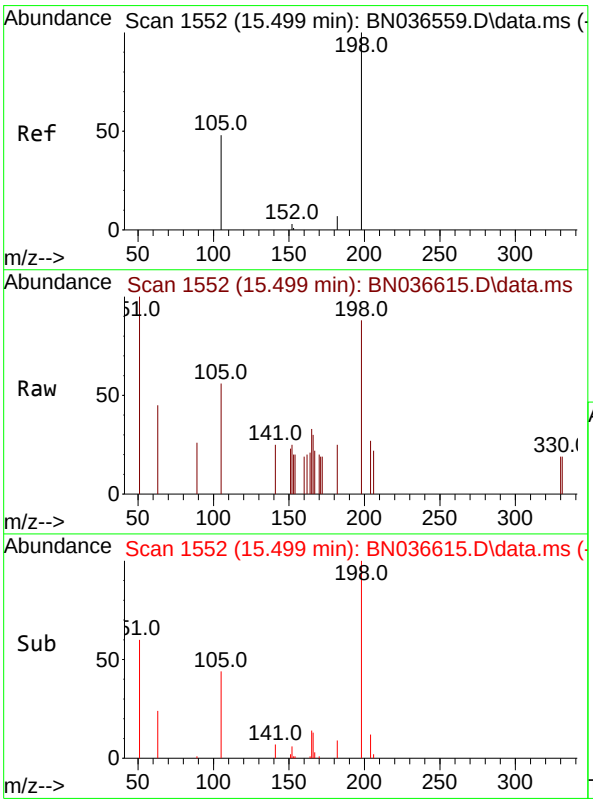
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 6068

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.1	8.8	13.2#

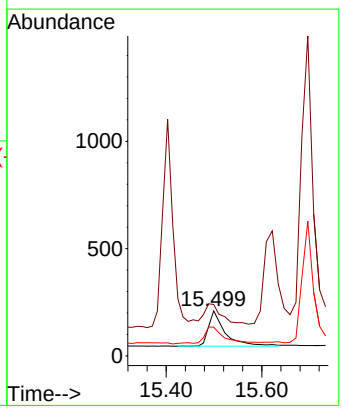


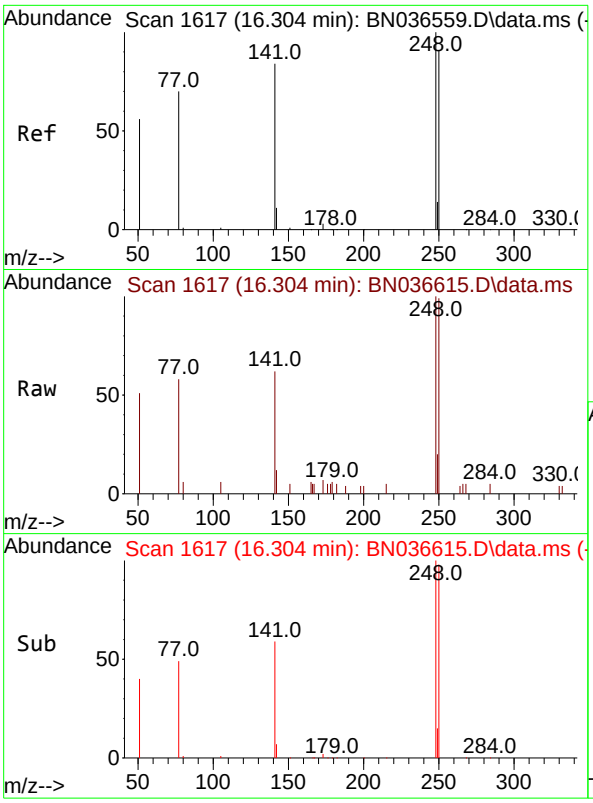


#20
4,6-Dinitro-2-methylphenol
Concen: 0.410 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:198 Resp: 409

Ion	Ratio	Lower	Upper
198	100		
51	114.3	107.9	161.9
105	63.8	56.2	84.2



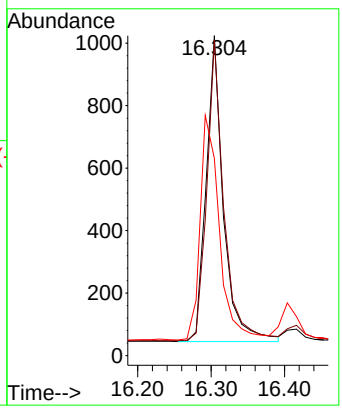


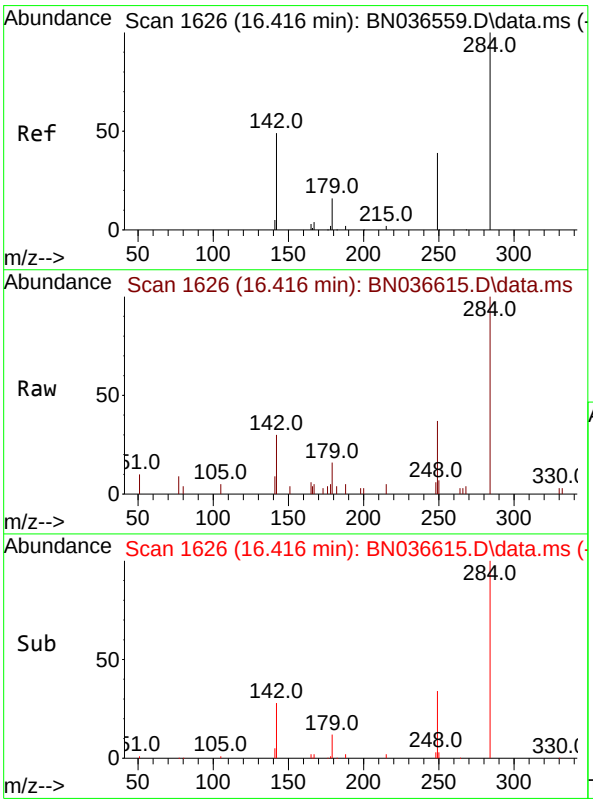
#21
4-Bromophenyl-phenylether
Concen: 0.418 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1591

Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	61.6	68.6	103.0#

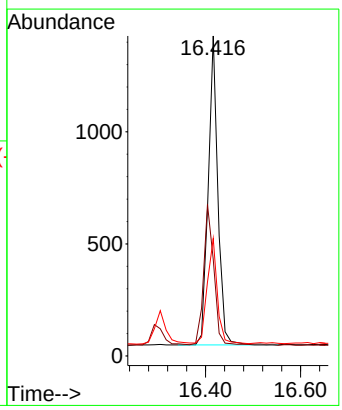


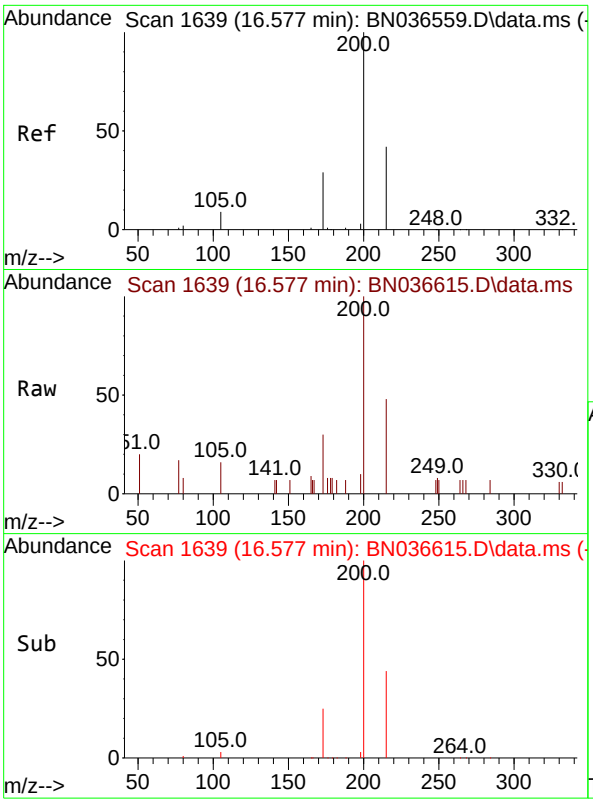


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:284 Resp: 1956

Ion	Ratio	Lower	Upper
284	100		
142	48.3	37.0	55.4
249	35.6	28.1	42.1



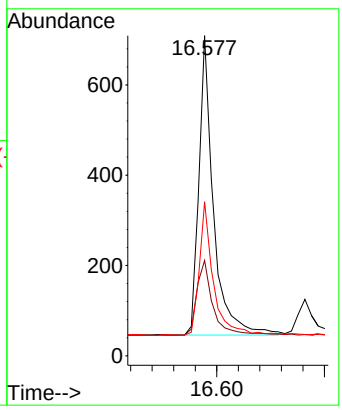


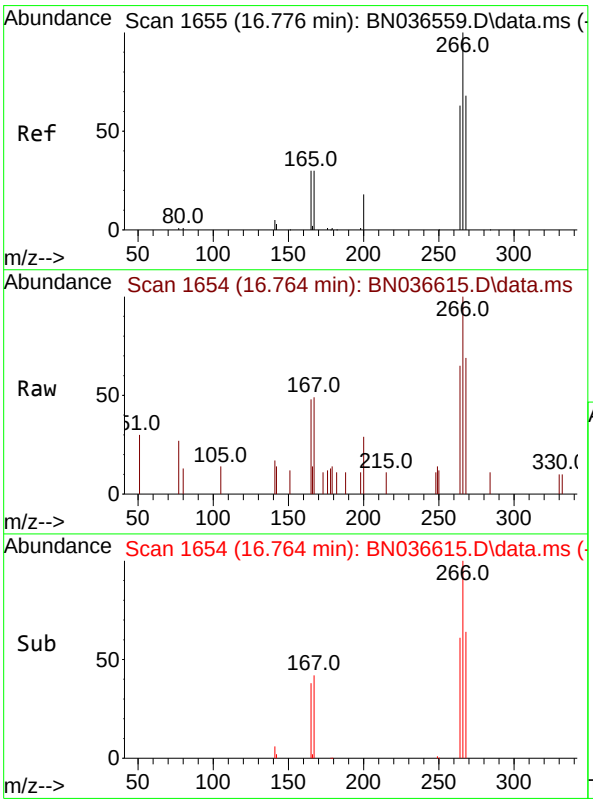
#23
Atrazine
Concen: 0.409 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1246

Ion	Ratio	Lower	Upper
200	100		
173	29.8	27.3	40.9
215	48.1	36.8	55.2

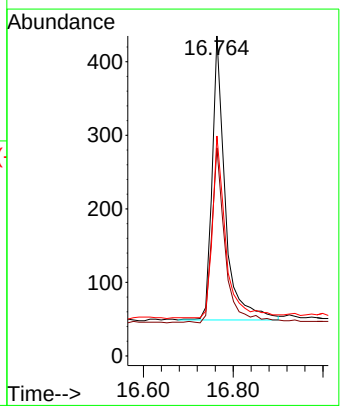


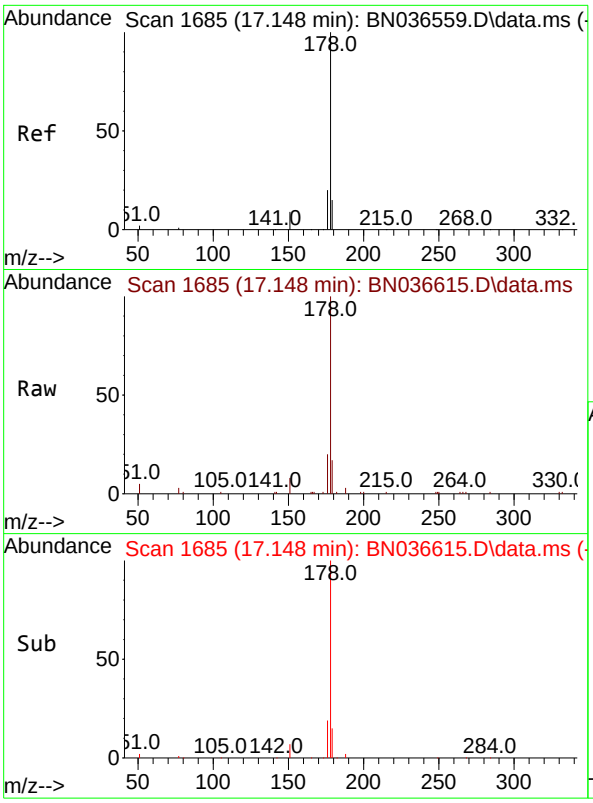


#24
Pentachlorophenol
Concen: 0.374 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:266 Resp: 782

Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.6	74.4
268	64.5	50.9	76.3



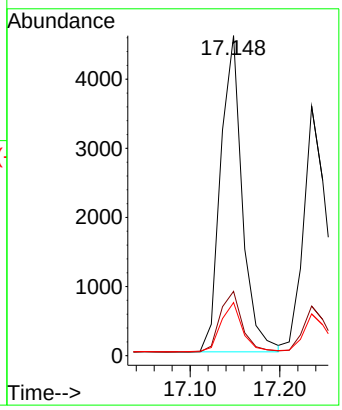


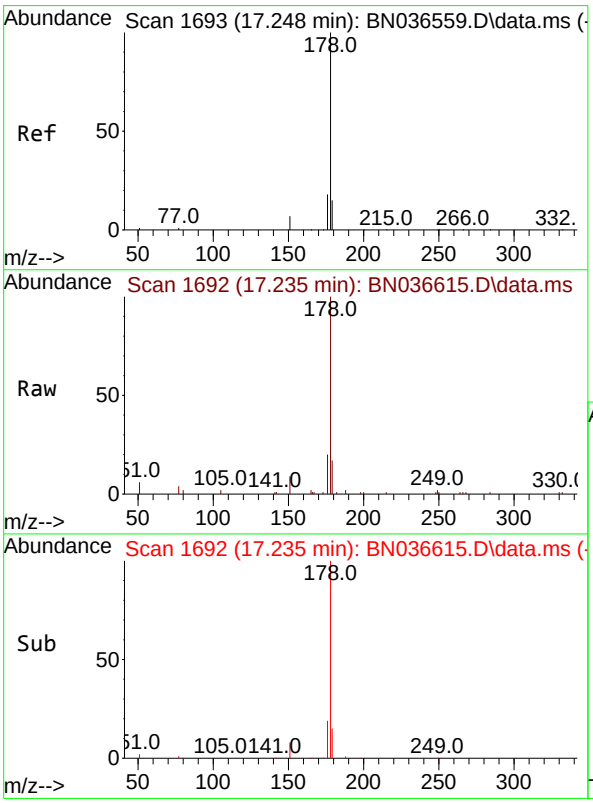
#25
Phenanthrene
Concen: 0.422 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 7689

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.4	12.2	18.4

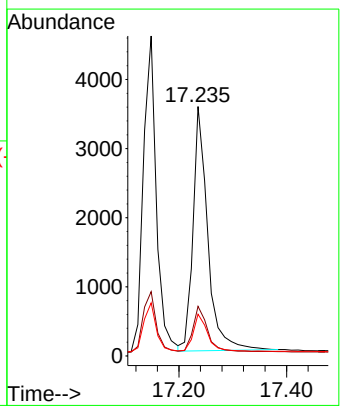


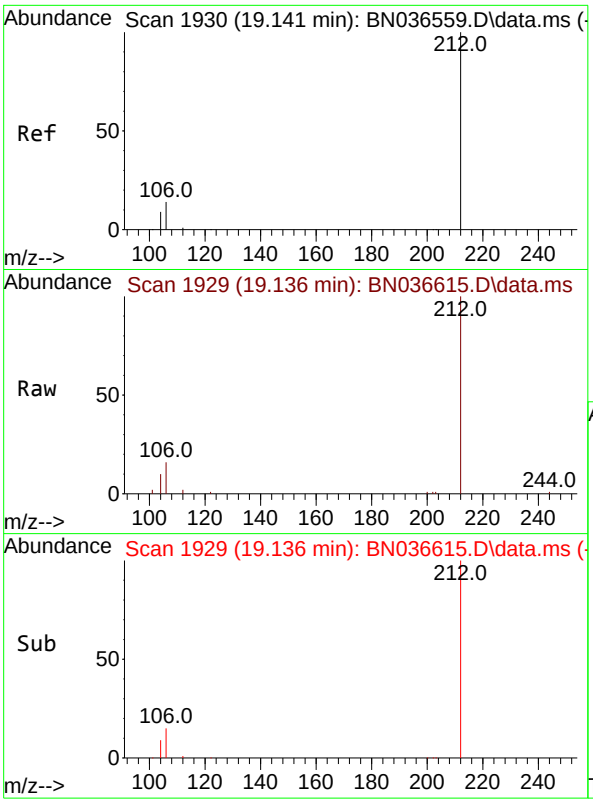


#26
Anthracene
Concen: 0.409 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:178 Resp: 6726

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.2	12.6	18.8



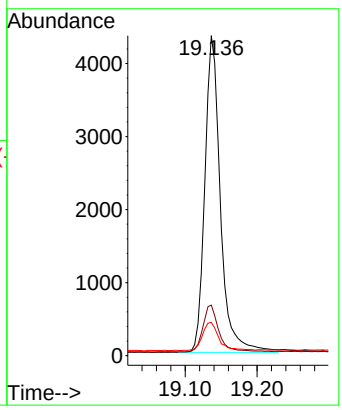


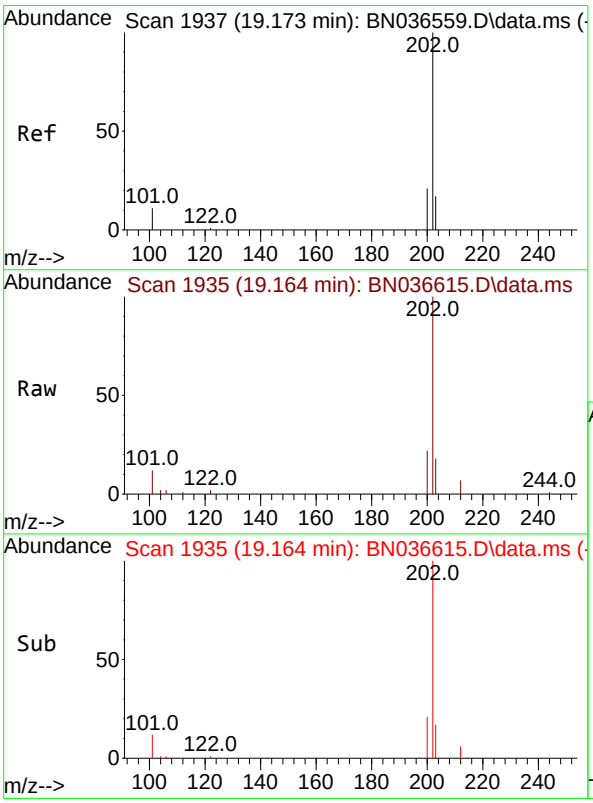
#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 19.136 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 6502

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.4	7.3	10.9

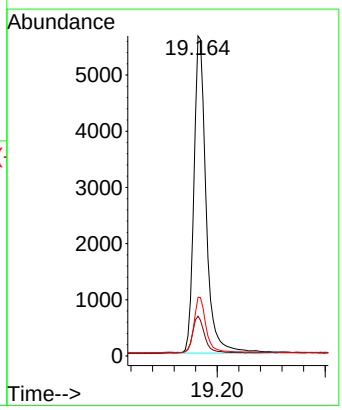


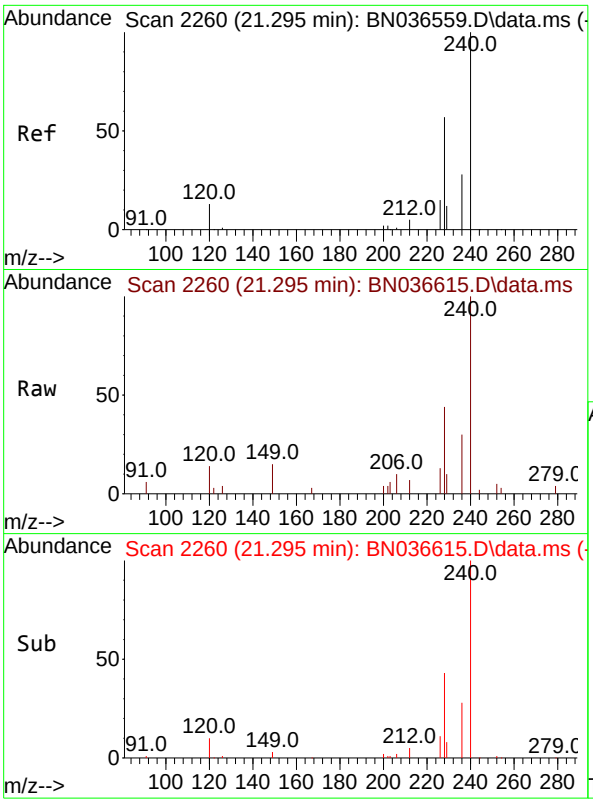


#28
Fluoranthene
Concen: 0.434 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:202 Resp: 8879

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.4	14.0
203	17.2	13.5	20.3



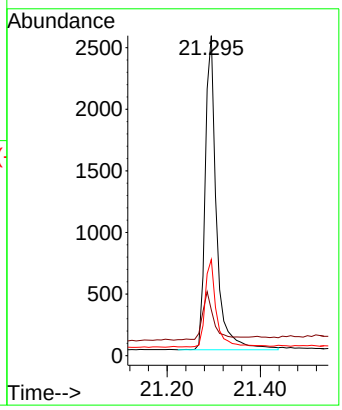


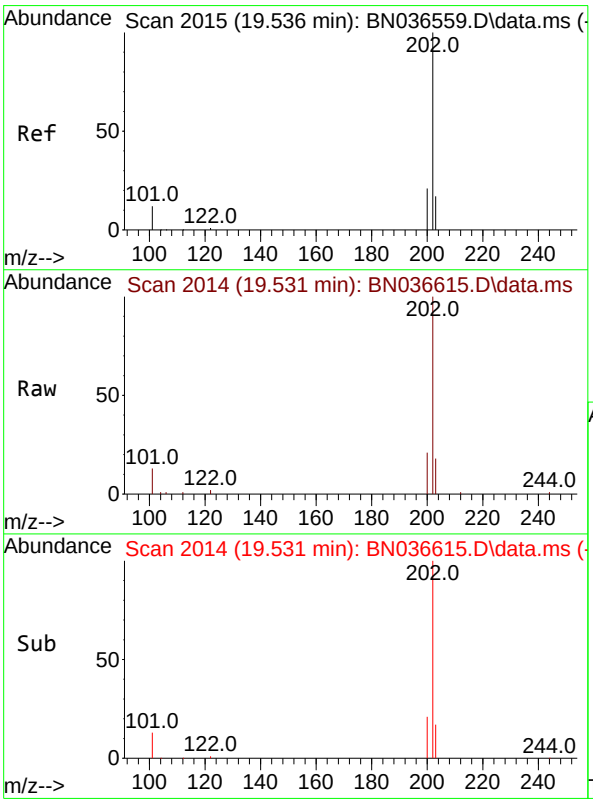
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 4261

Ion	Ratio	Lower	Upper
240	100		
120	14.3	14.6	22.0#
236	30.1	24.1	36.1

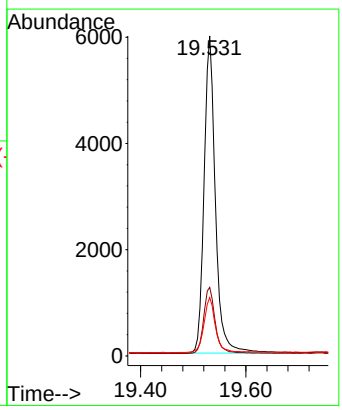


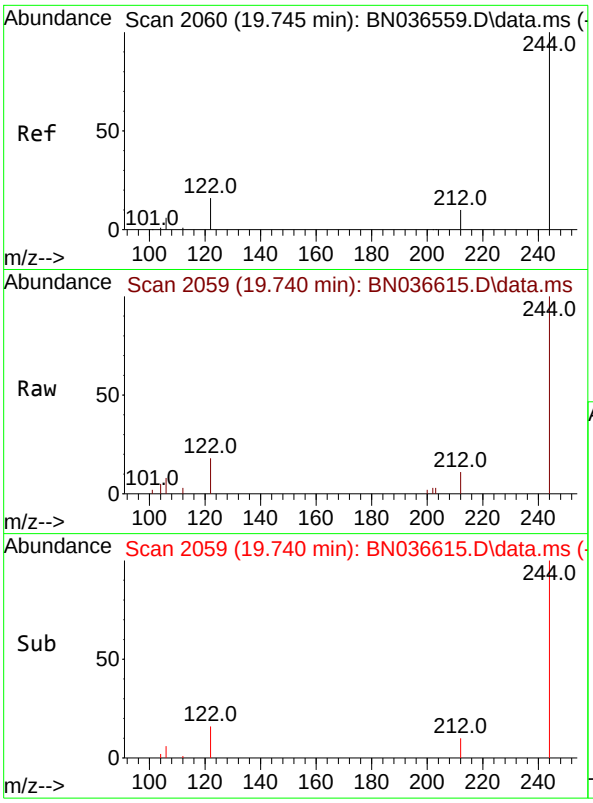


#30
Pyrene
Concen: 0.429 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:202 Resp: 8929

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	18.0	14.1	21.1



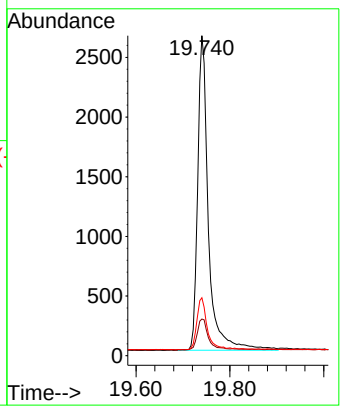


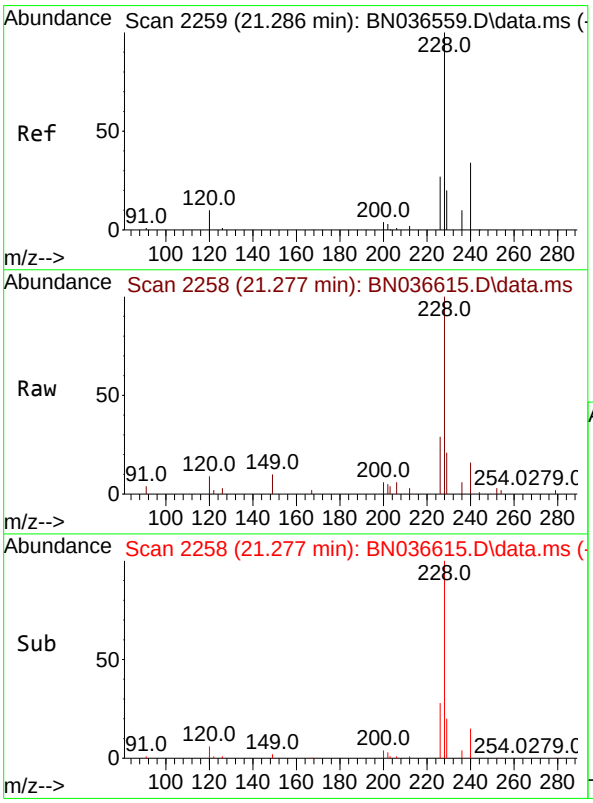
#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 4181

Ion	Ratio	Lower	Upper
244	100		
212	11.4	9.6	14.4
122	18.1	13.9	20.9

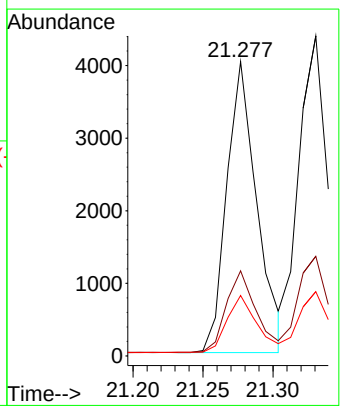


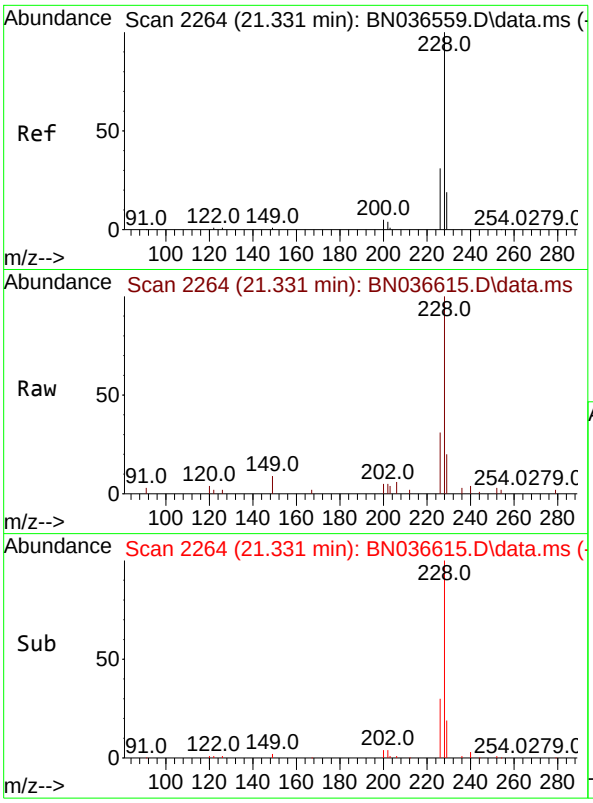


#32
Benzo(a)anthracene
Concen: 0.406 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:228 Resp: 6022

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.5	33.7
229	20.5	16.6	25.0



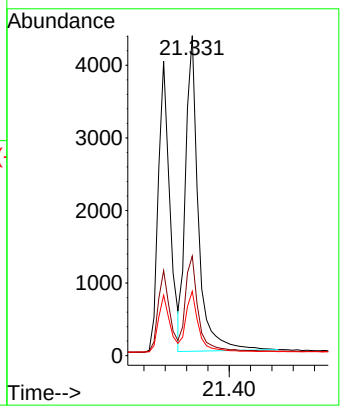


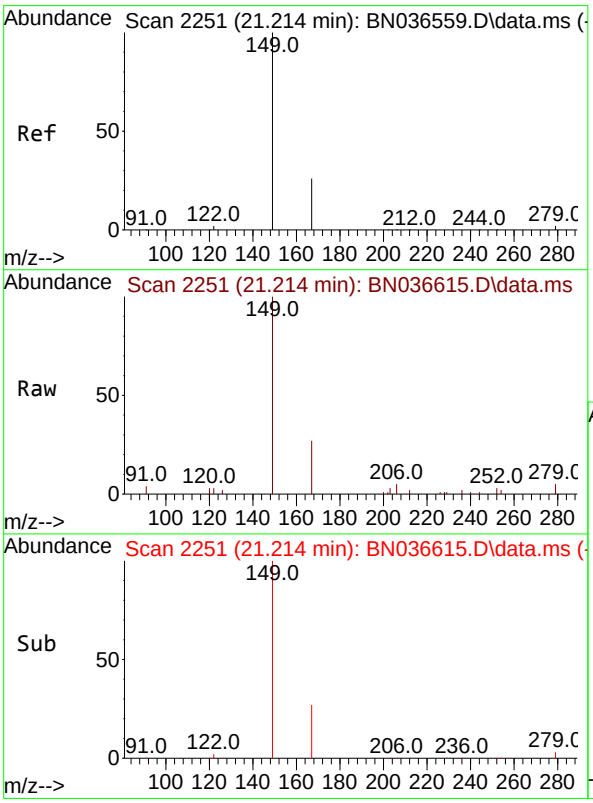
#33
Chrysene
Concen: 0.447 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 7230

Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.3	37.9
229	20.1	15.8	23.8

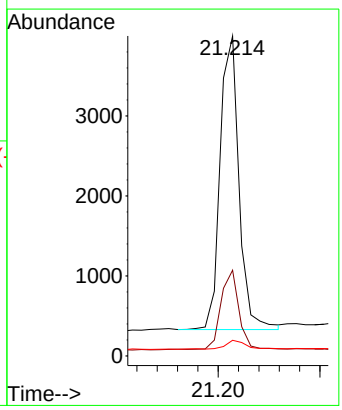


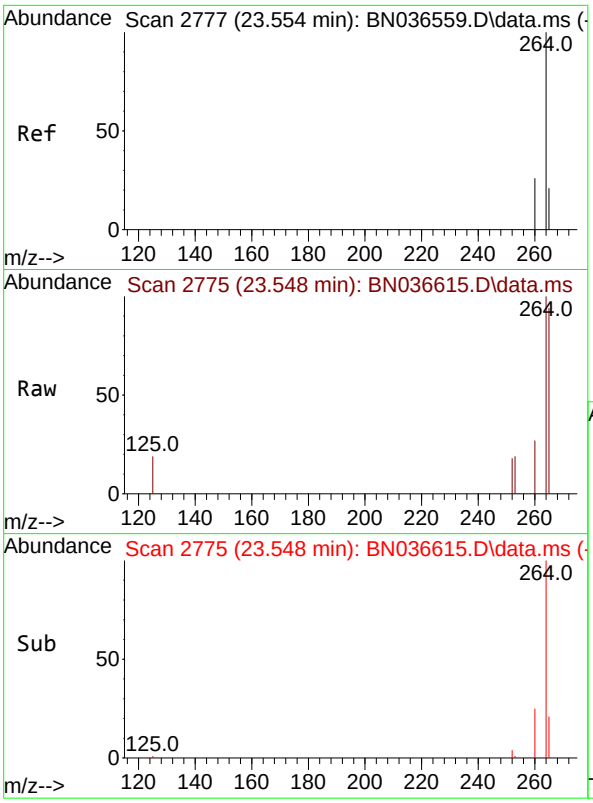


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.449 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:149 Resp: 4732

Ion	Ratio	Lower	Upper
149	100		
167	25.4	20.7	31.1
279	3.4	3.6	5.4#



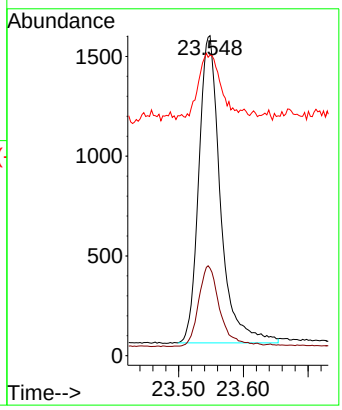


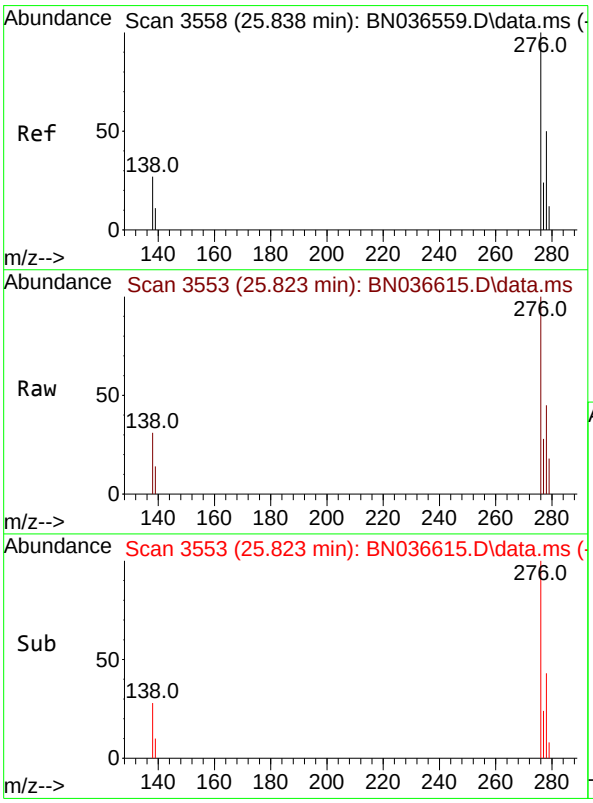
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.548 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 3574

Ion	Ratio	Lower	Upper
264	100		
260	27.3	22.6	33.8
265	94.0	88.1	132.1

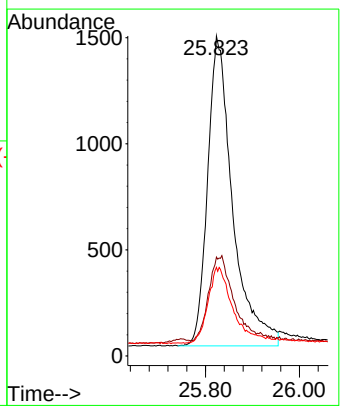


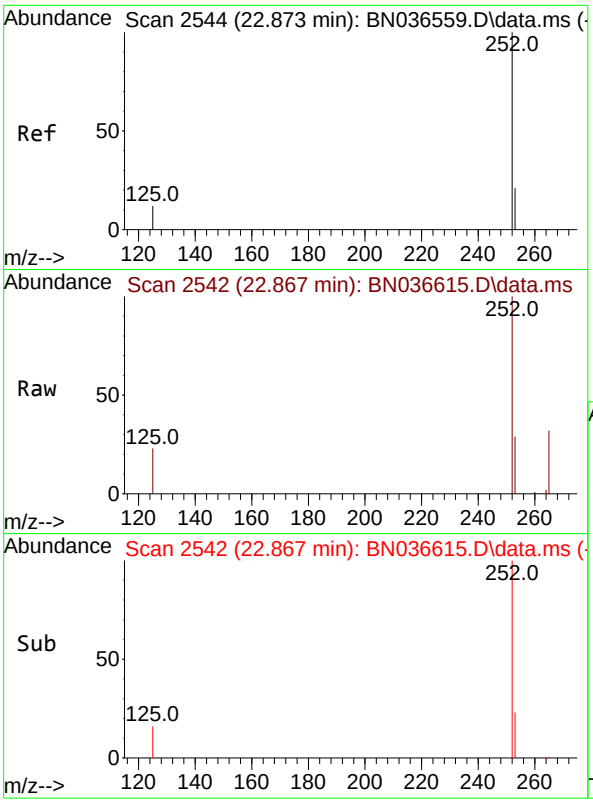


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.418 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.015 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:276 Resp: 5391

Ion	Ratio	Lower	Upper
276	100		
138	26.8	23.4	35.2
277	24.3	20.0	30.0



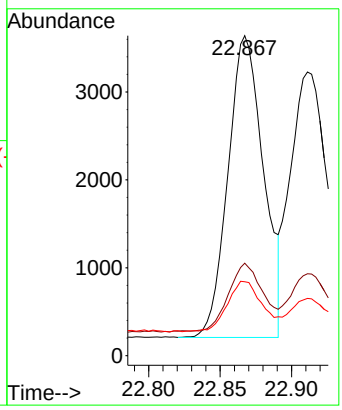


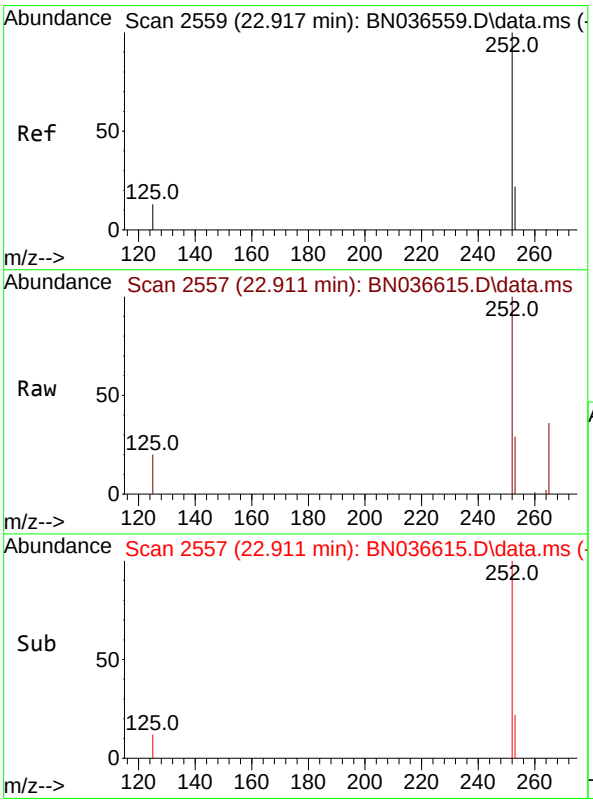
#37
Benzo(b)fluoranthene
Concen: 0.458 ng
RT: 22.867 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5957

Ion	Ratio	Lower	Upper
252	100		
253	28.9	23.9	35.9
125	23.1	17.4	26.2

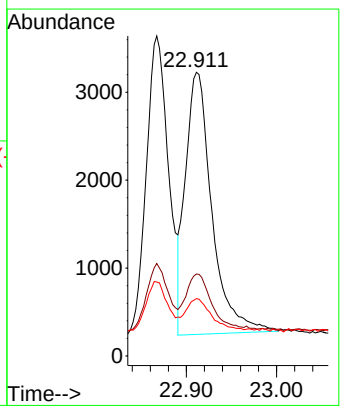


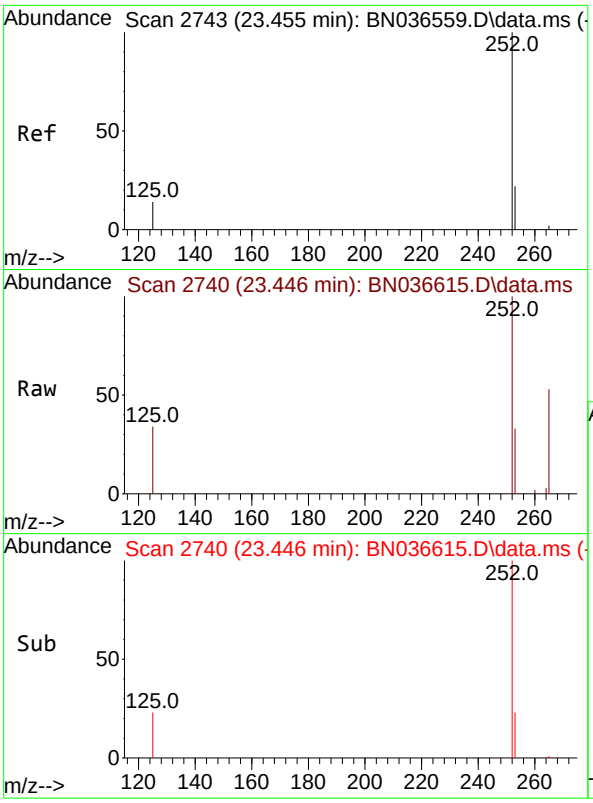


#38
Benzo(k)fluoranthene
Concen: 0.445 ng
RT: 22.911 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:252 Resp: 6070

Ion	Ratio	Lower	Upper
252	100		
253	28.9	24.6	36.8
125	20.2	17.8	26.8



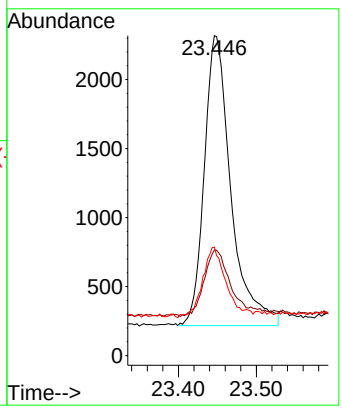


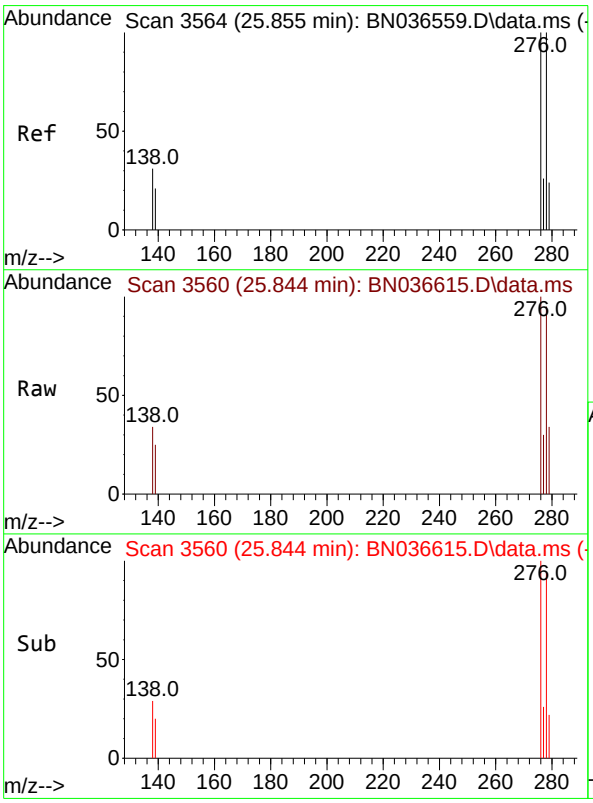
#39
Benzo(a)pyrene
Concen: 0.456 ng
RT: 23.446 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4994

Ion	Ratio	Lower	Upper
252	100		
253	33.0	27.8	41.8
125	33.9	22.7	34.1

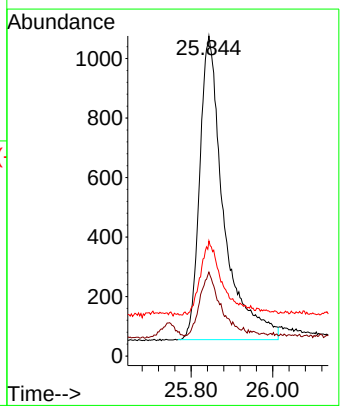


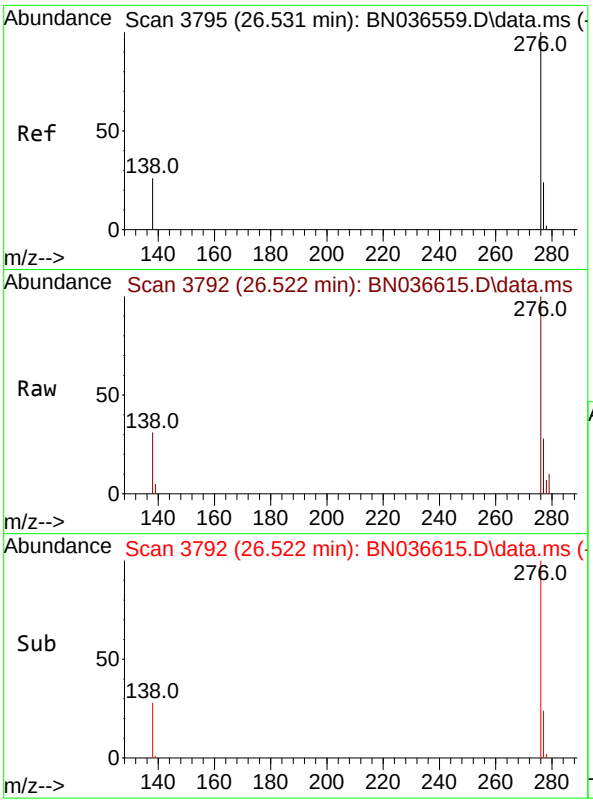


#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.844 min Scan# 3560
Delta R.T. -0.012 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:278 Resp: 4159

Ion	Ratio	Lower	Upper
278	100		
139	26.2	20.8	31.2
279	36.0	28.8	43.2



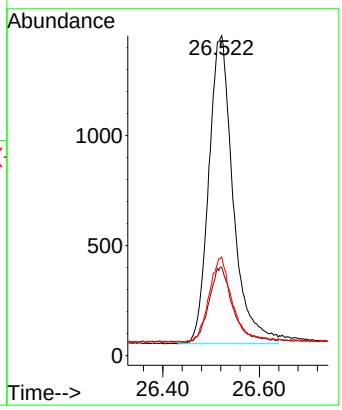


#41
Benzo(g,h,i)perylene
Concen: 0.426 ng
RT: 26.522 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 4897

Ion	Ratio	Lower	Upper
276	100		
277	27.6	22.2	33.4
138	30.8	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036615.D
Acq On : 14 Mar 2025 20:30
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 14 23:41:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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	95	0.00
2		1,4-Dioxane	0.444	0.512	-15.3	98	0.00
3		n-Nitrosodimethylamine	0.898	0.964	-7.3	98	0.00
4	S	2-Fluorophenol	0.932	0.927	0.5	89	0.00
5	S	Phenol-d6	1.152	1.120	2.8	94	0.00
6		bis(2-Chloroethyl)ether	1.190	1.134	4.7	91	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
8	S	Nitrobenzene-d5	0.435	0.416	4.4	100	0.00
9		Naphthalene	1.177	1.200	-2.0	99	-0.01
10		Hexachlorobutadiene	0.277	0.289	-4.3	98	0.00
11	SURR	2-Methylnaphthalene-d10	0.595	0.605	-1.7	99	-0.01
12		2-Methylnaphthalene	0.749	0.751	-0.3	98	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	96	-0.01
14	S	2,4,6-Tribromophenol	0.182	0.184	-1.1	95	0.00
15	S	2-Fluorobiphenyl	2.327	2.425	-4.2	97	0.00
16		Acenaphthylene	1.888	2.005	-6.2	100	0.00
17		Acenaphthene	1.236	1.299	-5.1	98	-0.01
18		Fluorene	1.672	1.789	-7.0	98	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	101	-0.01
20		4,6-Dinitro-2-methylphenol	0.086	0.067	22.1	89	0.00
21		4-Bromophenyl-phenylether	0.251	0.262	-4.4	97	0.00
22		Hexachlorobenzene	0.303	0.322	-6.3	97	0.00
23		Atrazine	0.201	0.205	-2.0	97	0.00
24		Pentachlorophenol	0.138	0.129	6.5	95	-0.01
25		Phenanthrene	1.200	1.267	-5.6	99	0.00
26		Anthracene	1.083	1.108	-2.3	98	-0.01
27	SURR	Fluoranthene-d10	1.025	1.072	-4.6	97	0.00
28		Fluoranthene	1.348	1.463	-8.5	102	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	104	0.00
30		Pyrene	1.956	2.096	-7.2	102	0.00
31	S	Terphenyl-d14	0.958	0.981	-2.4	99	0.00
32		Benzo(a)anthracene	1.391	1.413	-1.6	102	0.00
33		Chrysene	1.520	1.697	-11.6	109	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	1.111	-12.2	110	0.00
35	I	Perylene-d12	1.000	1.000	0.0	101	0.00
36		Indeno(1,2,3-cd)pyrene	1.444	1.508	-4.4	99	-0.01
37		Benzo(b)fluoranthene	1.456	1.667	-14.5	109	0.00
38		Benzo(k)fluoranthene	1.527	1.698	-11.2	106	0.00
39	C	Benzo(a)pyrene	1.226	1.397	-13.9	108	0.00
40		Dibenzo(a,h)anthracene	1.124	1.164	-3.6	101	-0.01
41		Benzo(g,h,i)perylene	1.286	1.370	-6.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036615.D
Acq On : 14 Mar 2025 20:30
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 14 23:41:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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	95	0.00
2		1,4-Dioxane	0.400	0.462	-15.5	98	0.00
3		n-Nitrosodimethylamine	0.400	0.430	-7.5	98	0.00
4	S	2-Fluorophenol	0.400	0.398	0.5	89	0.00
5	S	Phenol-d6	0.400	0.389	2.8	94	0.00
6		bis(2-Chloroethyl)ether	0.400	0.381	4.8	91	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	100	0.00
8	S	Nitrobenzene-d5	0.400	0.382	4.5	100	0.00
9		Naphthalene	0.400	0.408	-2.0	99	-0.01
10		Hexachlorobutadiene	0.400	0.417	-4.2	98	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.407	-1.7	99	-0.01
12		2-Methylnaphthalene	0.400	0.401	-0.3	98	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	96	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.405	-1.3	95	0.00
15	S	2-Fluorobiphenyl	0.400	0.417	-4.2	97	0.00
16		Acenaphthylene	0.400	0.425	-6.2	100	0.00
17		Acenaphthene	0.400	0.420	-5.0	98	-0.01
18		Fluorene	0.400	0.428	-7.0	98	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	101	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.410	-2.5	89	0.00
21		4-Bromophenyl-phenylether	0.400	0.418	-4.5	97	0.00
22		Hexachlorobenzene	0.400	0.426	-6.5	97	0.00
23		Atrazine	0.400	0.409	-2.2	97	0.00
24		Pentachlorophenol	0.400	0.374	6.5	95	-0.01
25		Phenanthrene	0.400	0.422	-5.5	99	0.00
26		Anthracene	0.400	0.409	-2.2	98	-0.01
27	SURR	Fluoranthene-d10	0.400	0.418	-4.5	97	0.00
28		Fluoranthene	0.400	0.434	-8.5	102	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	104	0.00
30		Pyrene	0.400	0.429	-7.2	102	0.00
31	S	Terphenyl-d14	0.400	0.410	-2.5	99	0.00
32		Benzo(a)anthracene	0.400	0.406	-1.5	102	0.00
33		Chrysene	0.400	0.447	-11.7	109	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.449	-12.2	110	0.00
35	I	Perylene-d12	0.400	0.400	0.0	101	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.418	-4.5	99	-0.01
37		Benzo(b)fluoranthene	0.400	0.458	-14.5	109	0.00
38		Benzo(k)fluoranthene	0.400	0.445	-11.2	106	0.00
39	C	Benzo(a)pyrene	0.400	0.456	-14.0	108	0.00
40		Dibenzo(a,h)anthracene	0.400	0.414	-3.5	101	-0.01
41		Benzo(g,h,i)perylene	0.400	0.426	-6.5	100	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: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: BNA_N Calibration Date/Time: 03/15/2025 08:35

Lab File ID: BN036633.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.597		0.3	20.0
Fluoranthene-d10	1.025	1.103		7.6	20.0
2-Fluorophenol	0.932	0.969		4.0	20.0
Phenol-d6	1.152	1.163		1.0	20.0
Nitrobenzene-d5	0.435	0.413		-5.1	20.0
2-Fluorobiphenyl	2.327	2.306		-0.9	20.0
4,6-Dinitro-2-methylphenol	0.086	0.072		-16.3	20.0
2,4,6-Tribromophenol	0.182	0.181		-0.5	20.0
Pentachlorophenol	0.138	0.132		-4.3	20.0
Terphenyl-d14	0.958	1.011		5.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036633.D
Acq On : 15 Mar 2025 08:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 17 00:34:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

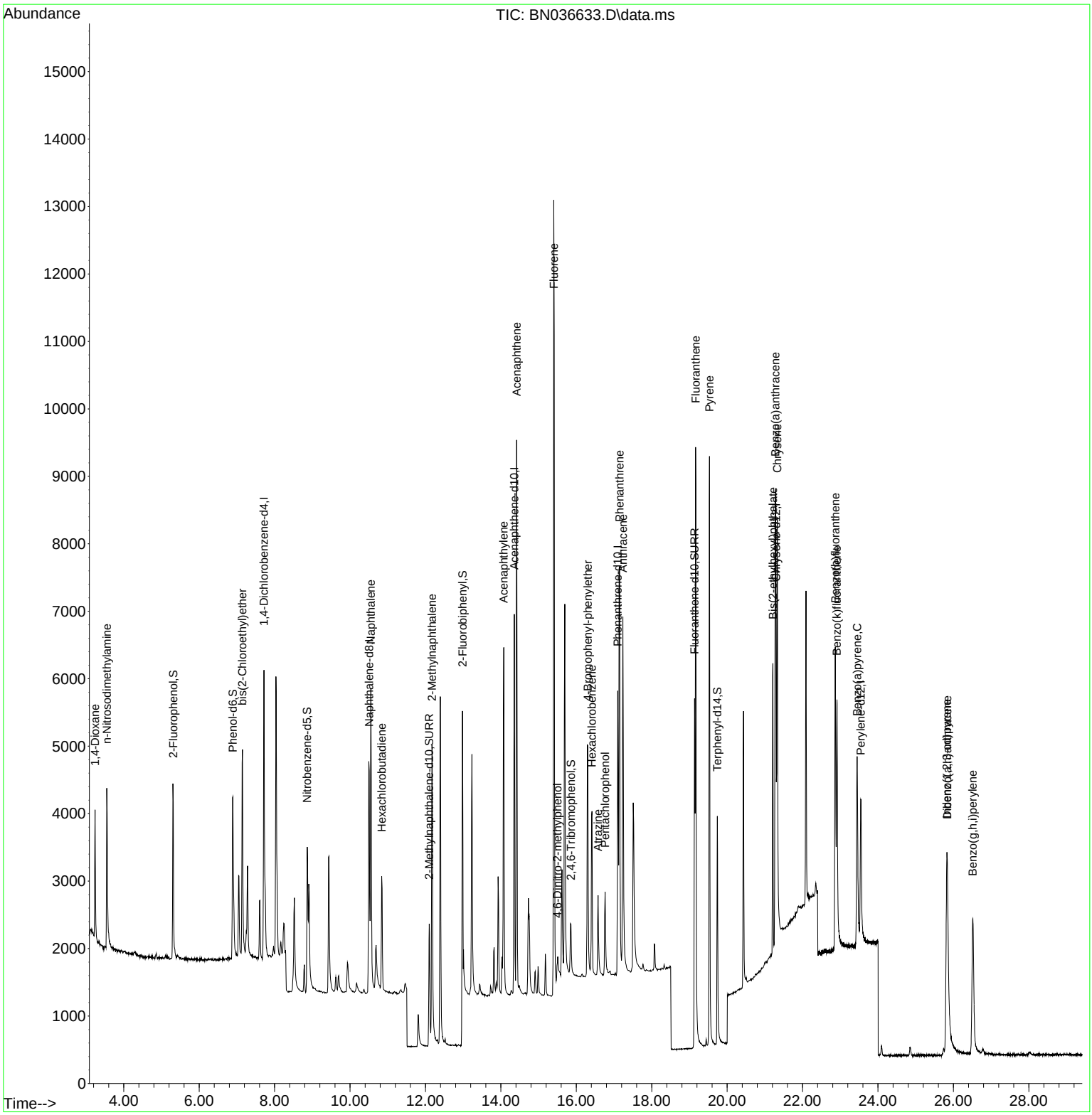
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.717	152	2056	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5167	0.400	ng		# 0.00
13) Acenaphthene-d10	14.356	164	3028	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	5852	0.400	ng		#-0.01
29) Chrysene-d12	21.295	240	3964	0.400	ng		0.00
35) Perylene-d12	23.543	264	3322	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	1993	0.416	ng		0.00
5) Phenol-d6	6.894	99	2392	0.404	ng		0.00
8) Nitrobenzene-d5	8.865	82	2133	0.379	ng		-0.01
11) 2-Methylnaphthalene-d10	12.101	152	3084	0.401	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	549	0.400	ng		0.00
15) 2-Fluorobiphenyl	12.983	172	6983	0.396	ng		0.00
27) Fluoranthene-d10	19.136	212	6452	0.430	ng		0.00
31) Terphenyl-d14	19.740	244	4008	0.422	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	1044	0.458	ng		99
3) n-Nitrosodimethylamine	3.550	42	2061	0.447	ng	#	97
6) bis(2-Chloroethyl)ether	7.147	93	2478	0.405	ng		99
9) Naphthalene	10.552	128	6160	0.405	ng		100
10) Hexachlorobutadiene	10.840	225	1469	0.411	ng	#	100
12) 2-Methylnaphthalene	12.172	142	3909	0.404	ng		99
16) Acenaphthylene	14.078	152	5940	0.416	ng		99
17) Acenaphthene	14.420	154	3899	0.417	ng		99
18) Fluorene	15.403	166	5251	0.415	ng		98
20) 4,6-Dinitro-2-methylph...	15.499	198	423	0.429	ng		86
21) 4-Bromophenyl-phenylether	16.305	248	1586	0.433	ng	#	82
22) Hexachlorobenzene	16.416	284	1952	0.441	ng		96
23) Atrazine	16.578	200	1271	0.432	ng		95
24) Pentachlorophenol	16.764	266	770	0.381	ng		98
25) Phenanthrene	17.149	178	7751	0.442	ng		100
26) Anthracene	17.235	178	6831	0.431	ng		99
28) Fluoranthene	19.164	202	8694	0.441	ng		99
30) Pyrene	19.531	202	8785	0.453	ng		99
32) Benzo(a)anthracene	21.277	228	5572	0.404	ng		99
33) Chrysene	21.331	228	6707	0.445	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	4427	0.451	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.823	276	5201	0.434	ng		97
37) Benzo(b)fluoranthene	22.867	252	5573	0.461	ng		96
38) Benzo(k)fluoranthene	22.911	252	5760	0.454	ng		97
39) Benzo(a)pyrene	23.449	252	4737	0.465	ng	#	95
40) Dibenzo(a,h)anthracene	25.841	278	3815	0.409	ng		98
41) Benzo(g,h,i)perylene	26.510	276	4632	0.434	ng		97

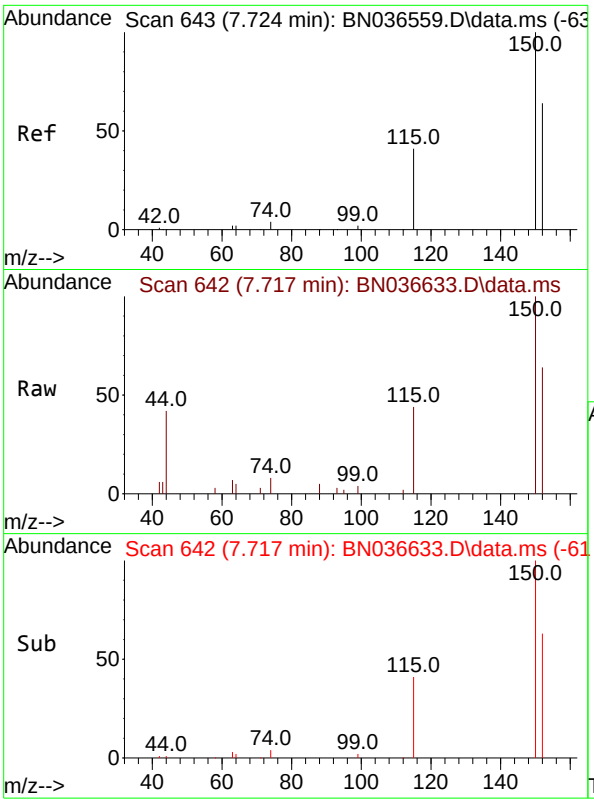
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036633.D
Acq On : 15 Mar 2025 08:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 17 00:34:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



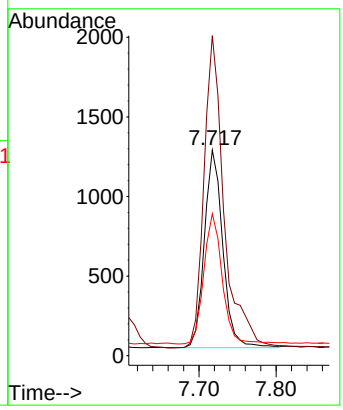


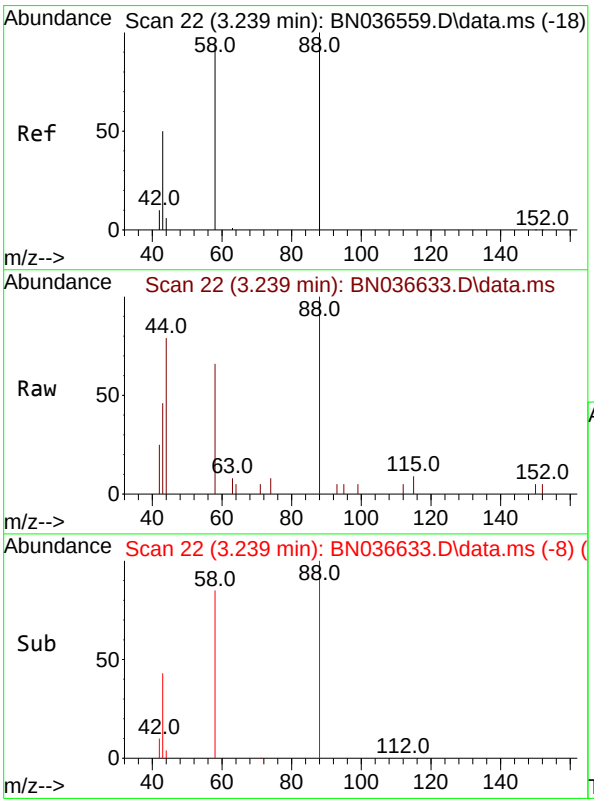
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2056

Ion	Ratio	Lower	Upper
152	100		
150	155.6	123.7	185.5
115	69.0	54.3	81.5

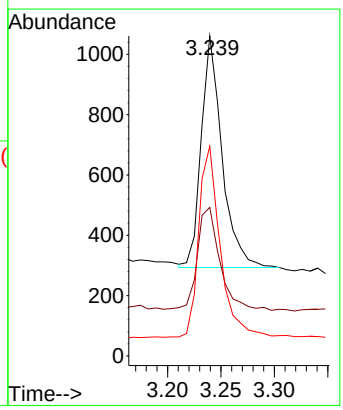


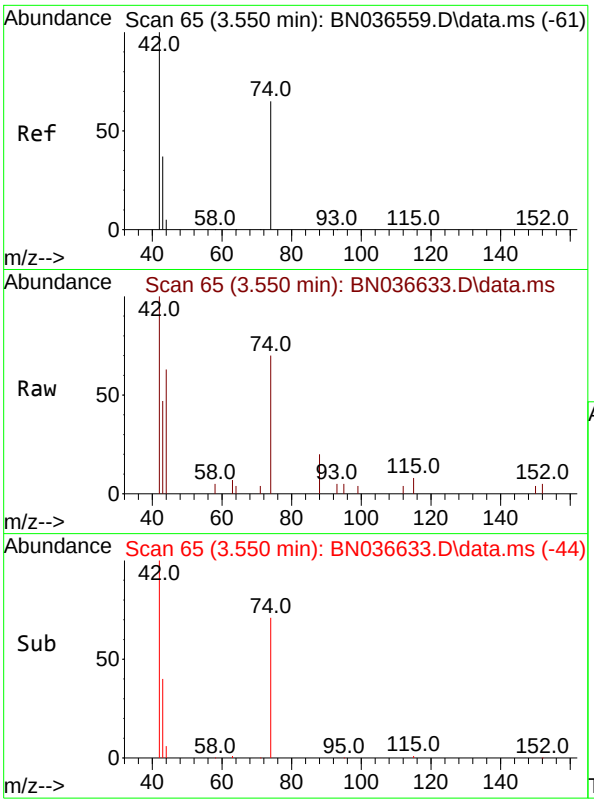


#2
1,4-Dioxane
Concen: 0.458 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion: 88 Resp: 1044

Ion	Ratio	Lower	Upper
88	100		
43	48.7	37.8	56.8
58	85.2	67.4	101.2



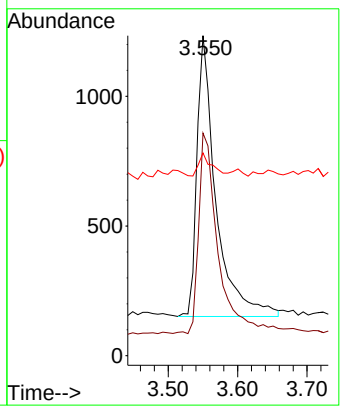


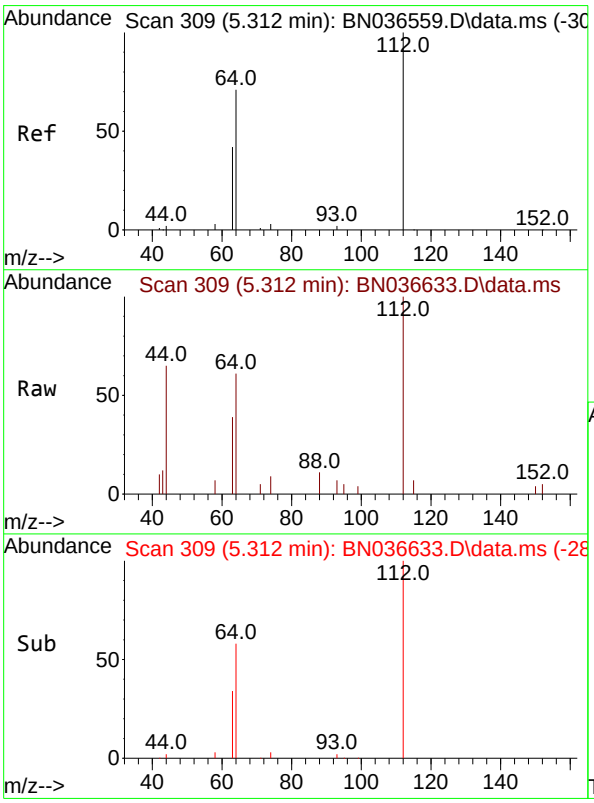
#3
n-Nitrosodimethylamine
Concen: 0.447 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2061

Ion	Ratio	Lower	Upper
42	100		
74	73.2	60.6	90.8
44	5.8	6.3	9.5#

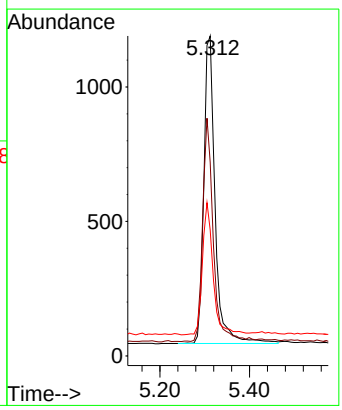


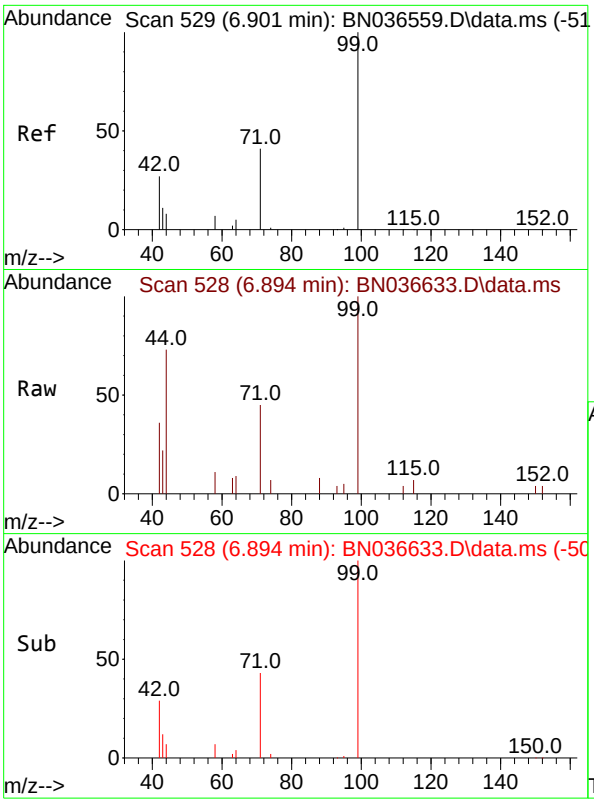


#4
2-Fluorophenol
Concen: 0.416 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:112 Resp: 1993

Ion	Ratio	Lower	Upper
112	100		
64	69.0	53.1	79.7
63	41.2	31.8	47.8



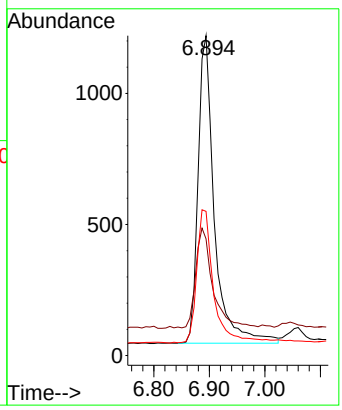


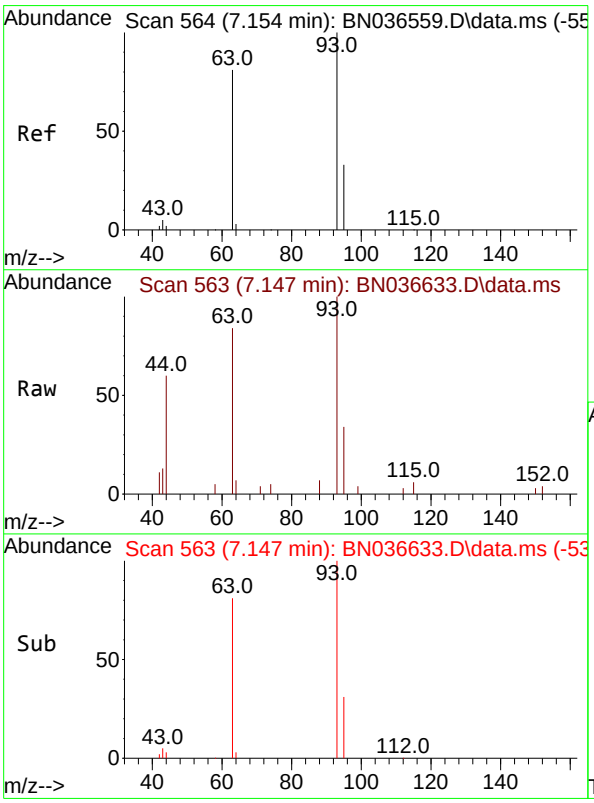
#5
Phenol-d6
Concen: 0.404 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2392

Ion	Ratio	Lower	Upper
99	100		
42	33.5	26.5	39.7
71	46.3	34.1	51.1

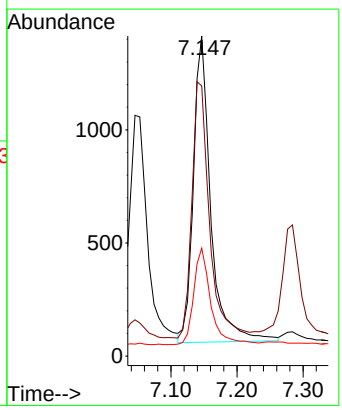


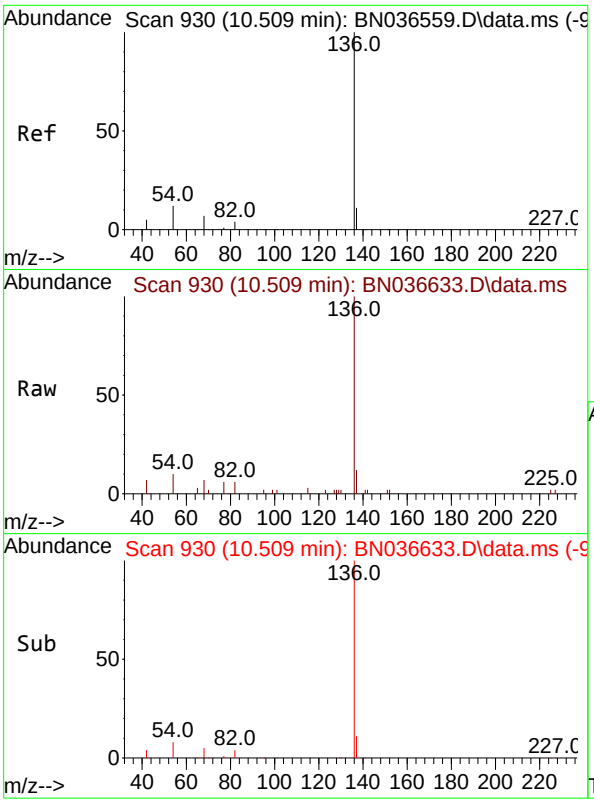


#6
bis(2-Chloroethyl)ether
Concen: 0.405 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion: 93 Resp: 2478

Ion	Ratio	Lower	Upper
93	100		
63	84.2	67.7	101.5
95	30.8	25.6	38.4



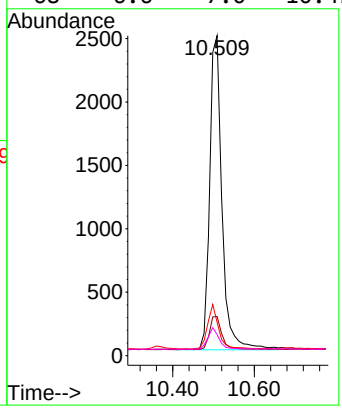


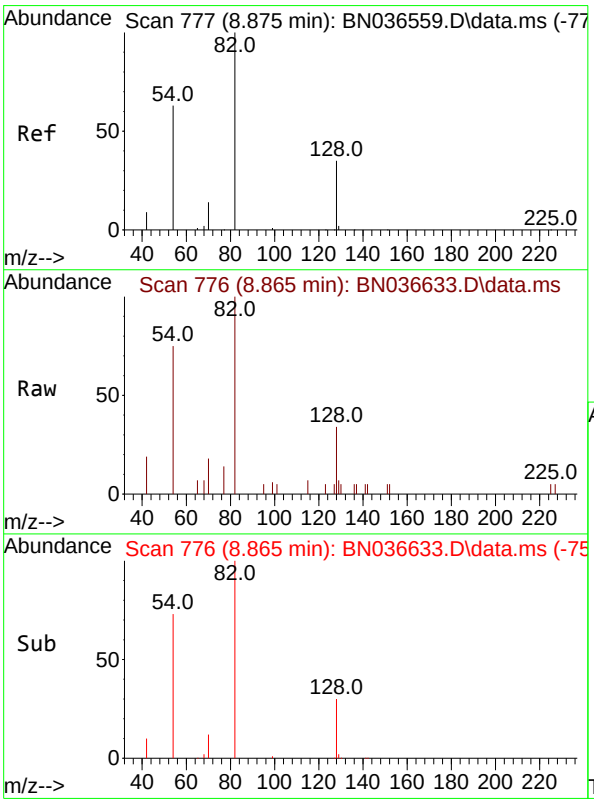
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 5167

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.3	15.5
54	10.4	11.5	17.3#
68	6.6	7.0	10.4#

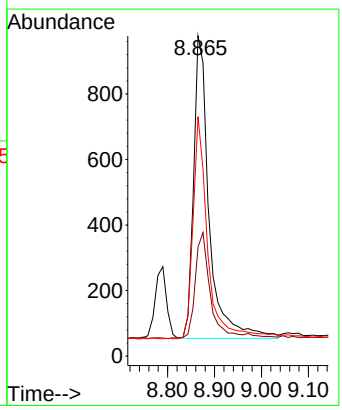


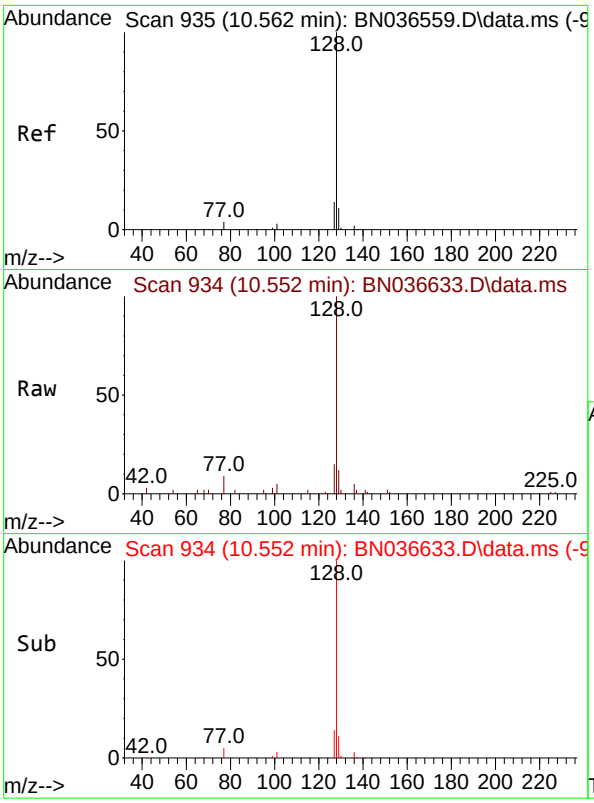


#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion: 82 Resp: 2133

Ion	Ratio	Lower	Upper
82	100		
128	34.1	30.6	45.8
54	74.8	52.2	78.4



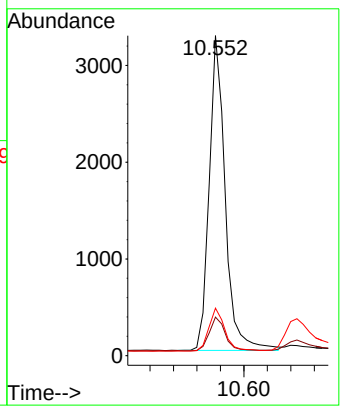


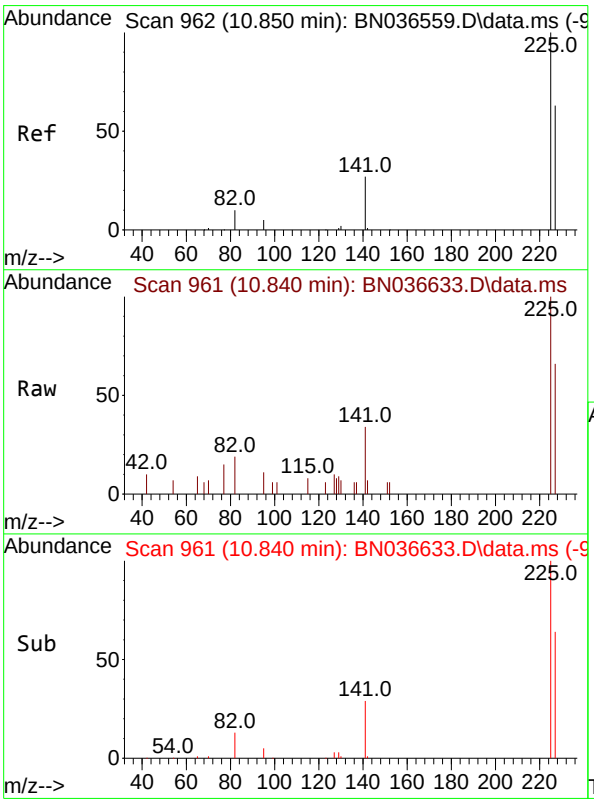
#9
Naphthalene
Concen: 0.405 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.010 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 6160

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.8	11.8	17.8

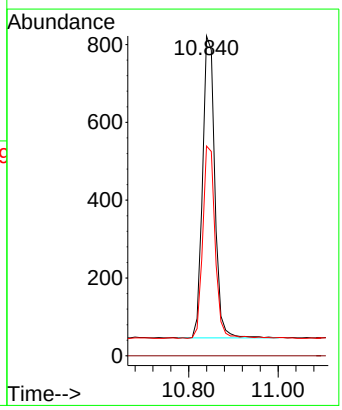


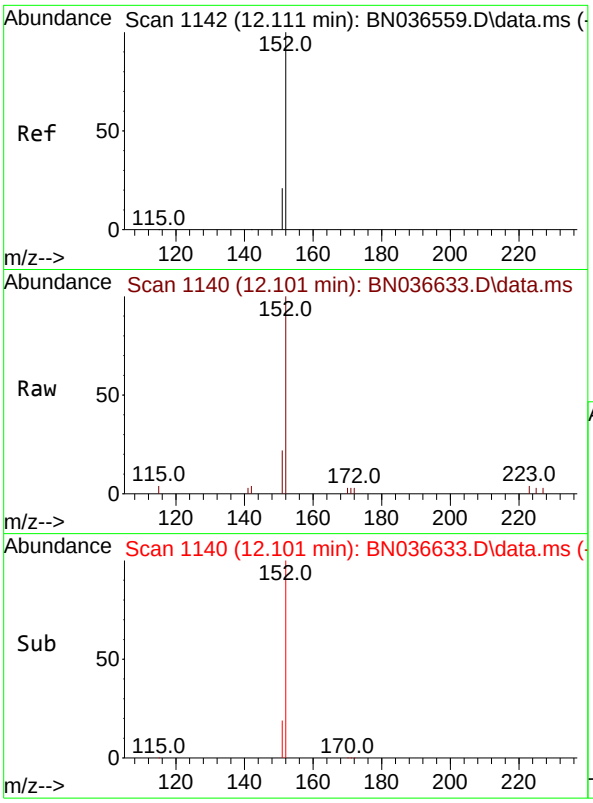


#10
Hexachlorobutadiene
Concen: 0.411 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:225 Resp: 1469

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	51.8	77.8



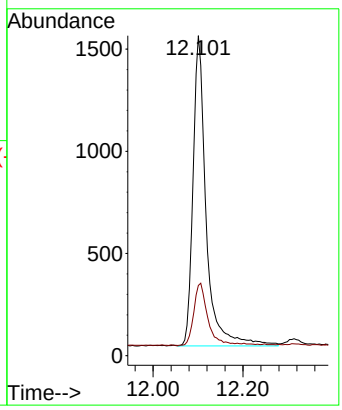


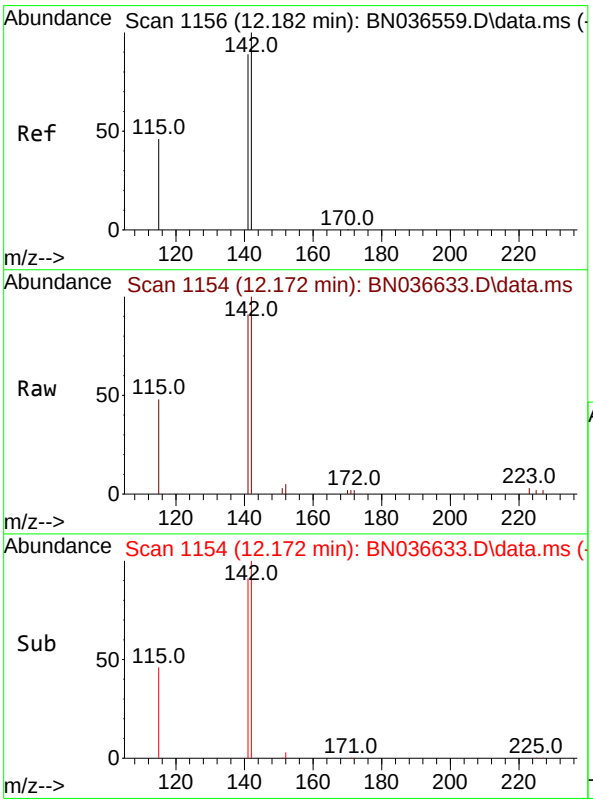
#11
2-Methylnaphthalene-d10
Concen: 0.401 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3084

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.0	25.6

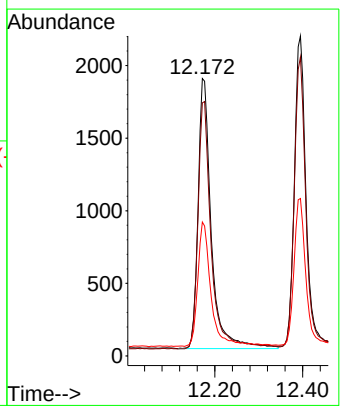


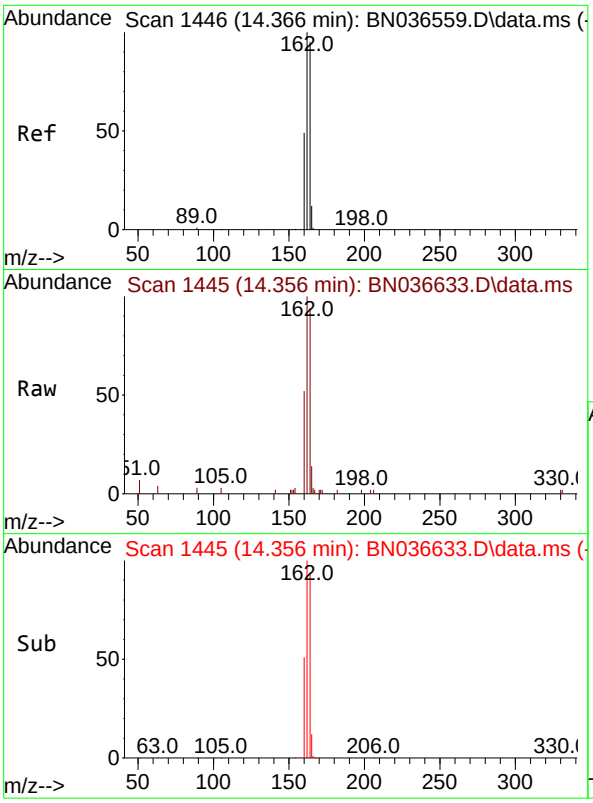


#12
2-Methylnaphthalene
Concen: 0.404 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:142 Resp: 3909

Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.7	107.5
115	48.3	38.3	57.5



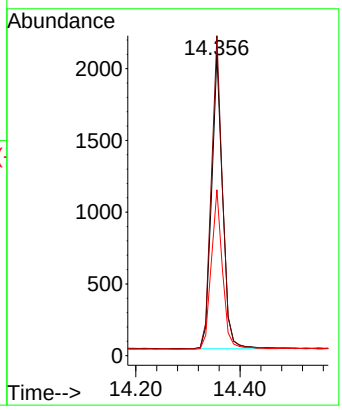


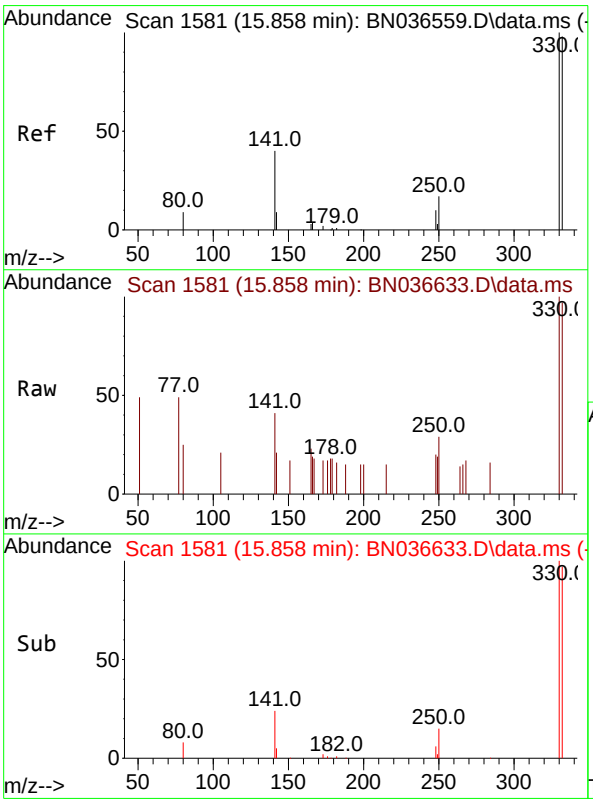
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 3028

Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.2	126.2
160	55.2	42.2	63.2

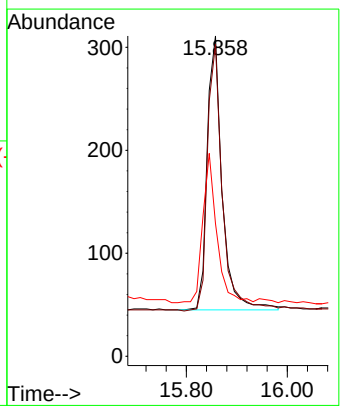


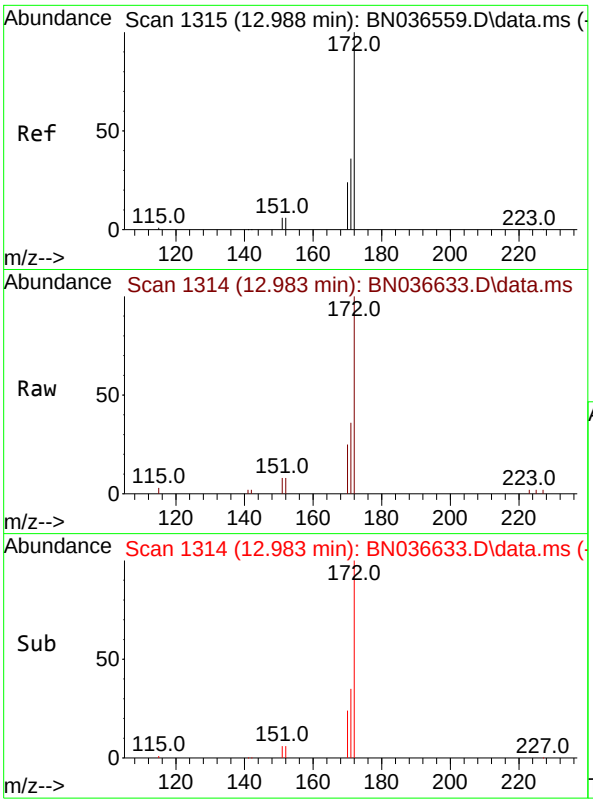


#14
2,4,6-Tribromophenol
Concen: 0.400 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:330 Resp: 549

Ion	Ratio	Lower	Upper
330	100		
332	97.8	75.2	112.8
141	50.8	43.4	65.2



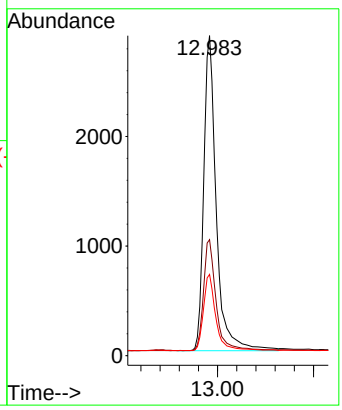


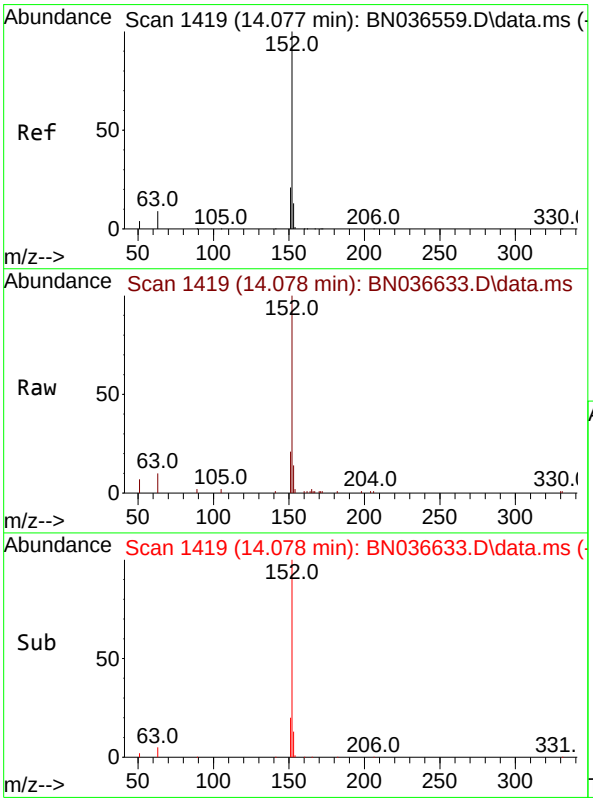
#15
2-Fluorobiphenyl
Concen: 0.396 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 6983

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	25.4	20.2	30.4

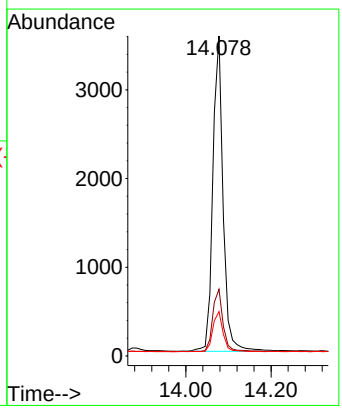


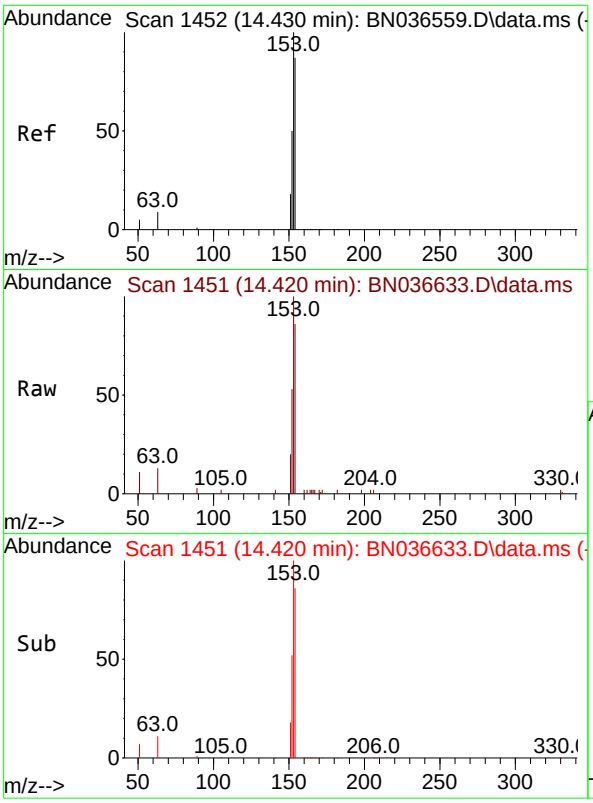


#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:152 Resp: 5940

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	12.9	10.6	15.8



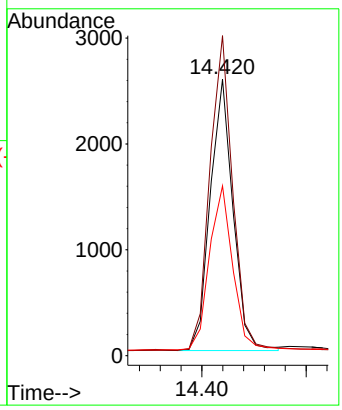


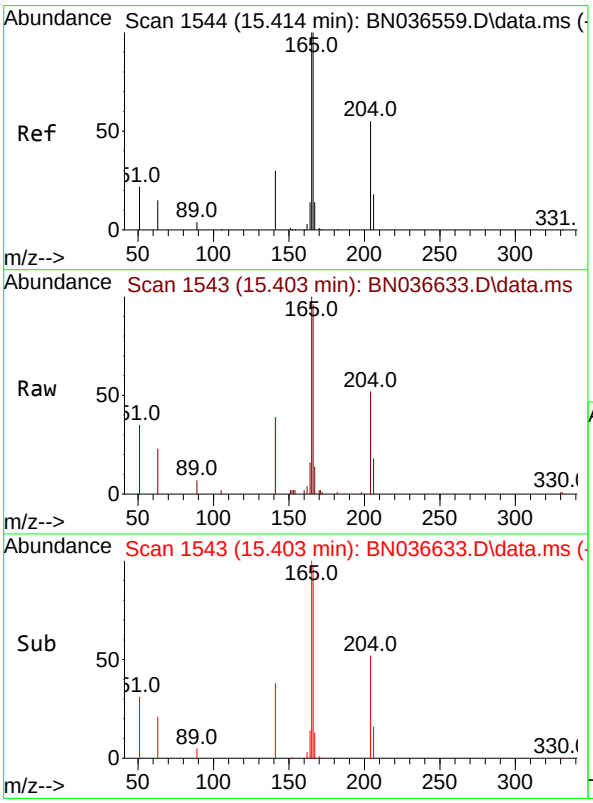
#17
Acenaphthene
Concen: 0.417 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 3899

Ion	Ratio	Lower	Upper
154	100		
153	117.1	94.1	141.1
152	63.2	49.8	74.6

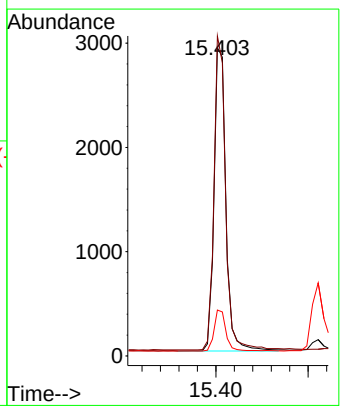


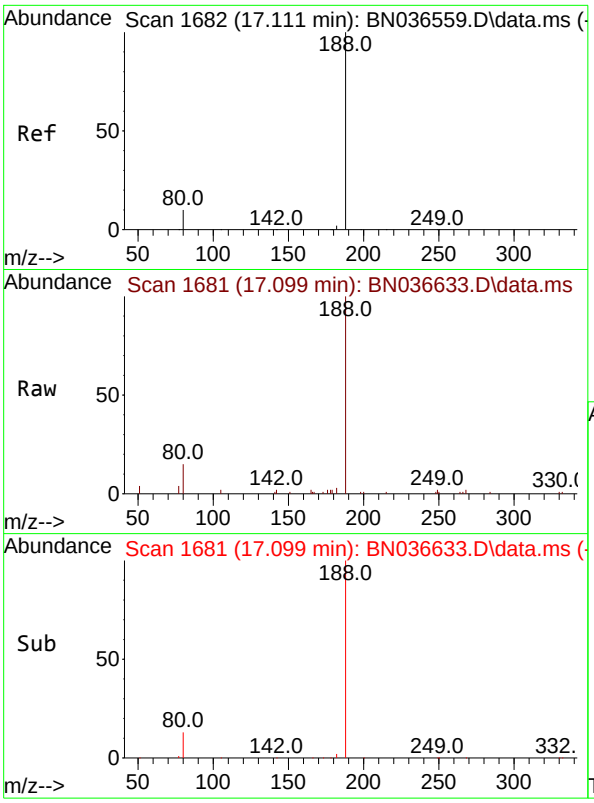


#18
Fluorene
Concen: 0.415 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:166 Resp: 5251

Ion	Ratio	Lower	Upper
166	100		
165	101.5	79.8	119.8
167	13.8	10.6	15.8



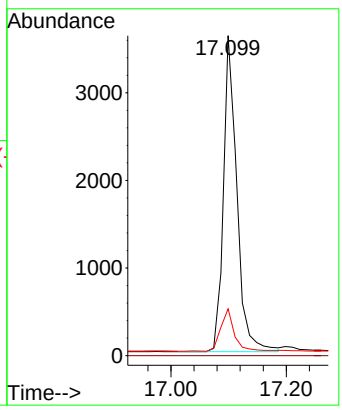


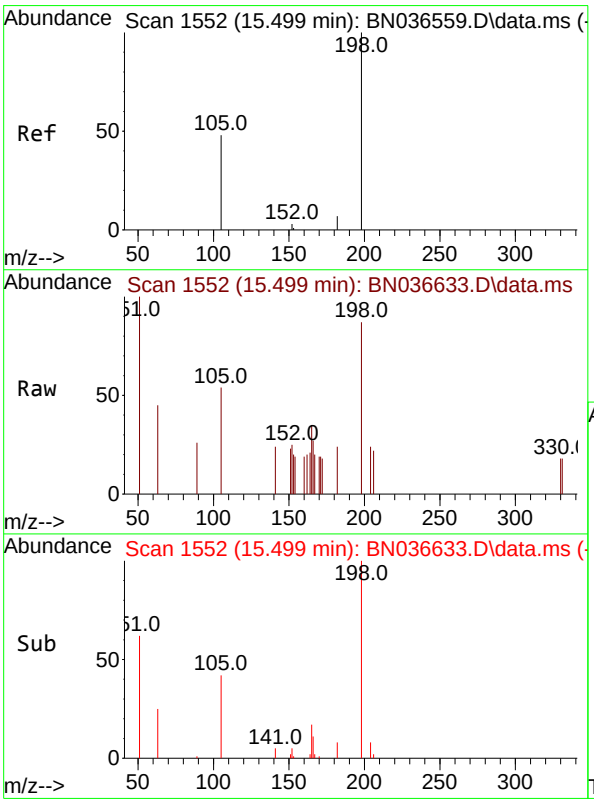
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 5852

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.6	8.8	13.2#

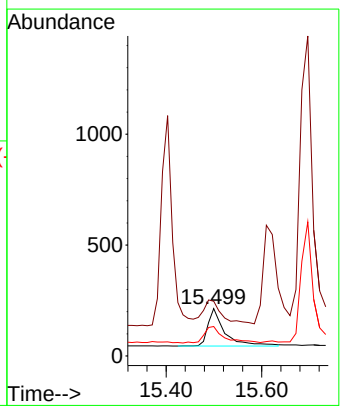


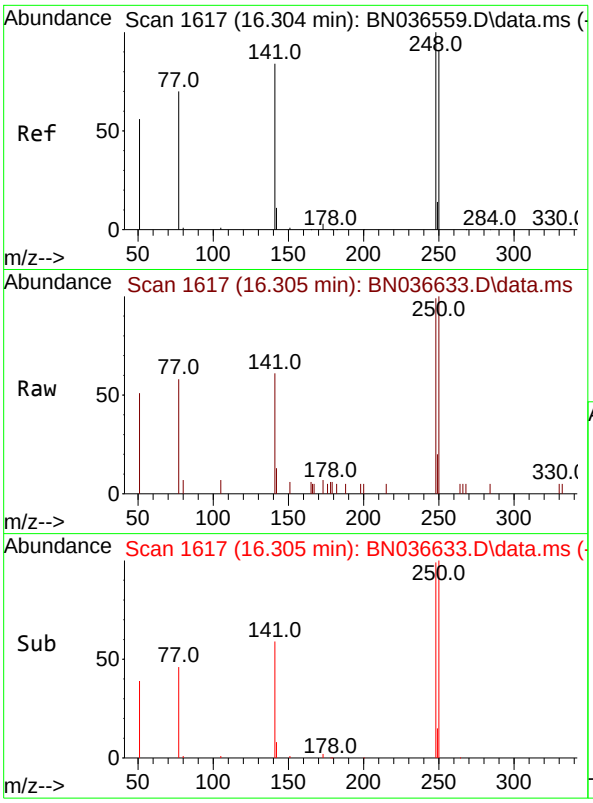


#20
4,6-Dinitro-2-methylphenol
Concen: 0.429 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:198 Resp: 423

Ion	Ratio	Lower	Upper
198	100		
51	115.4	107.9	161.9
105	62.1	56.2	84.2



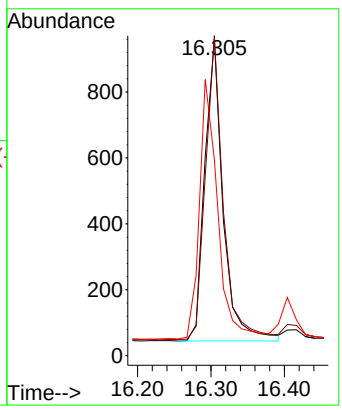


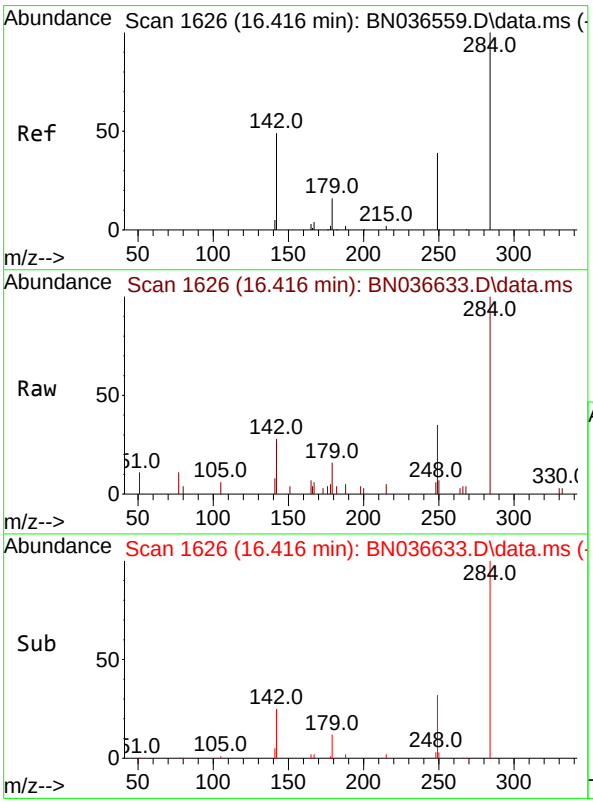
#21
4-Bromophenyl-phenylether
Concen: 0.433 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1586

Ion	Ratio	Lower	Upper
248	100		
250	101.0	73.0	109.6
141	62.0	68.6	103.0#

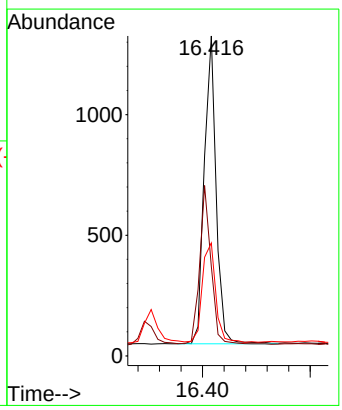


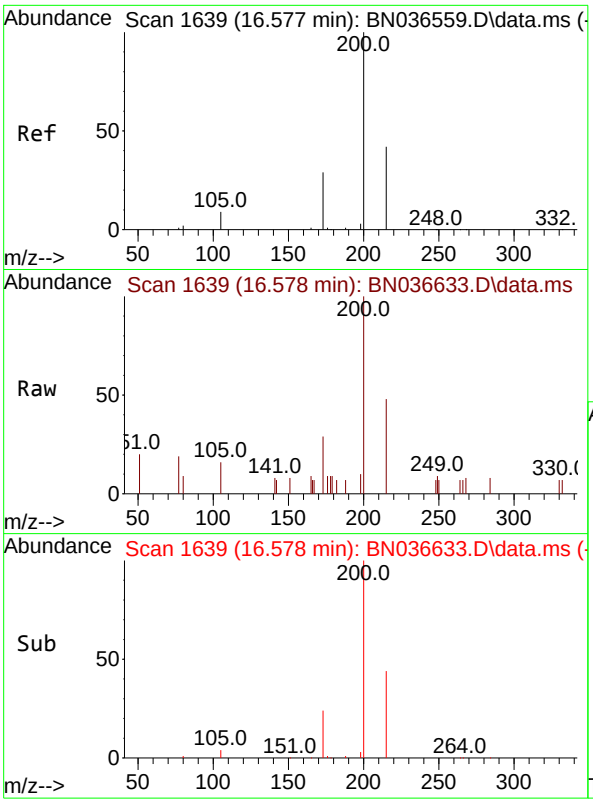


#22
Hexachlorobenzene
Concen: 0.441 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:284 Resp: 1952

Ion	Ratio	Lower	Upper
284	100		
142	49.7	37.0	55.4
249	36.6	28.1	42.1



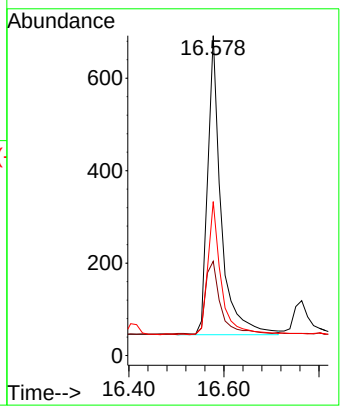


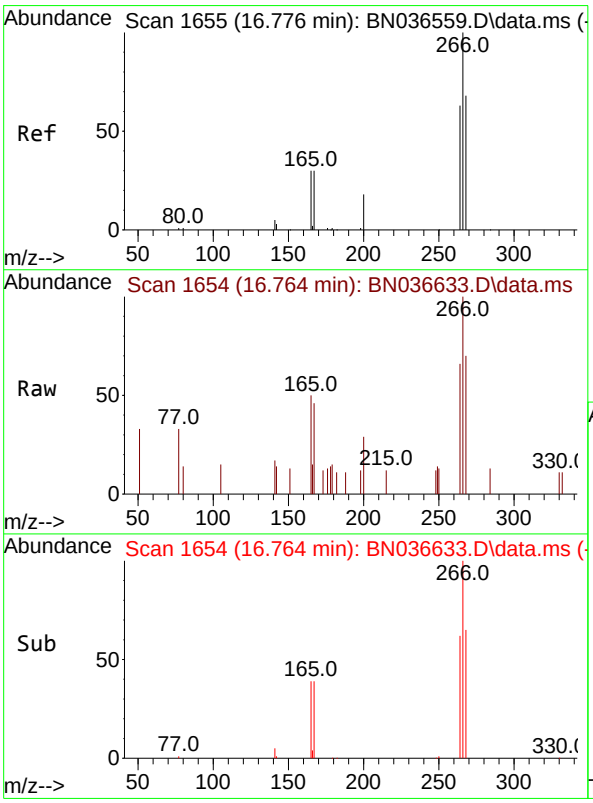
#23
Atrazine
Concen: 0.432 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1271

Ion	Ratio	Lower	Upper
200	100		
173	29.5	27.3	40.9
215	48.1	36.8	55.2

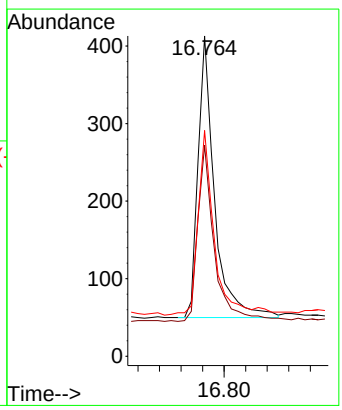


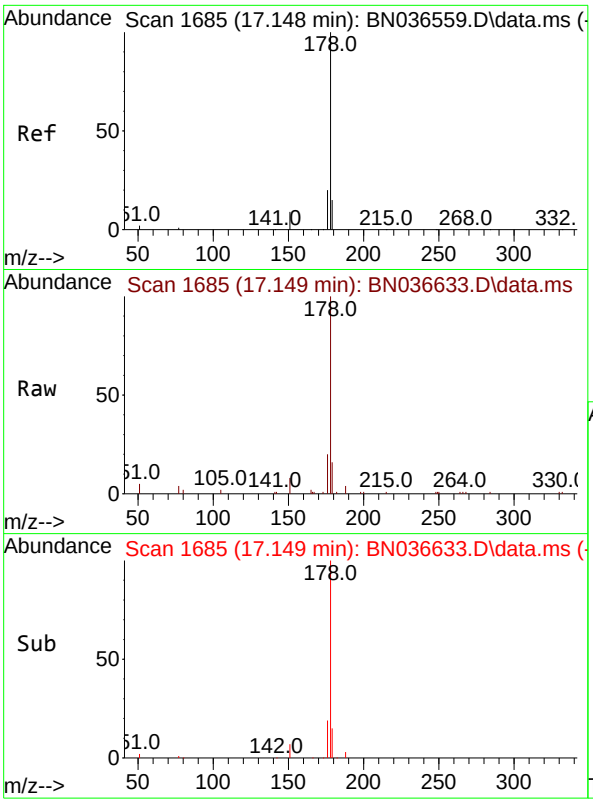


#24
Pentachlorophenol
Concen: 0.381 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:266 Resp: 770

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.6	74.4
268	65.1	50.9	76.3



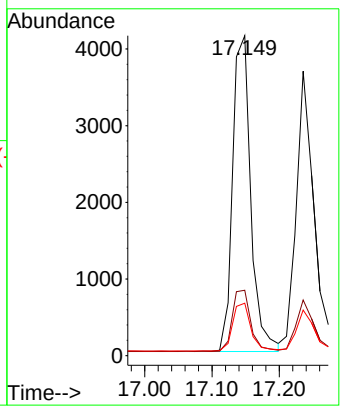


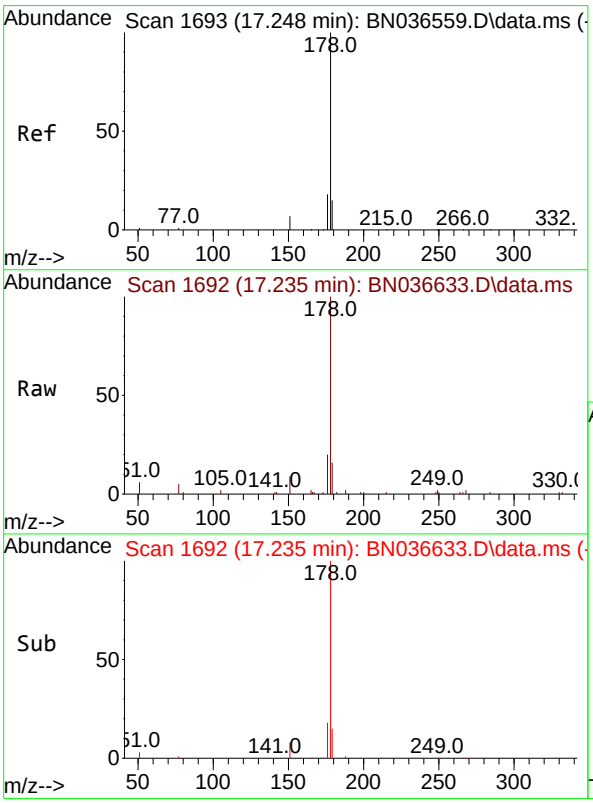
#25
Phenanthrene
Concen: 0.442 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 7751

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.2	12.2	18.4

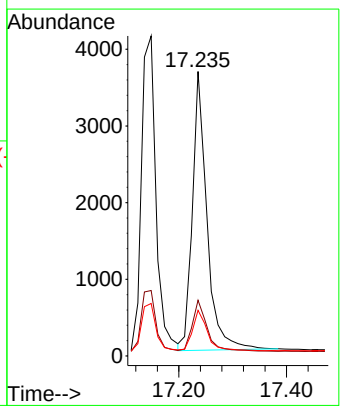


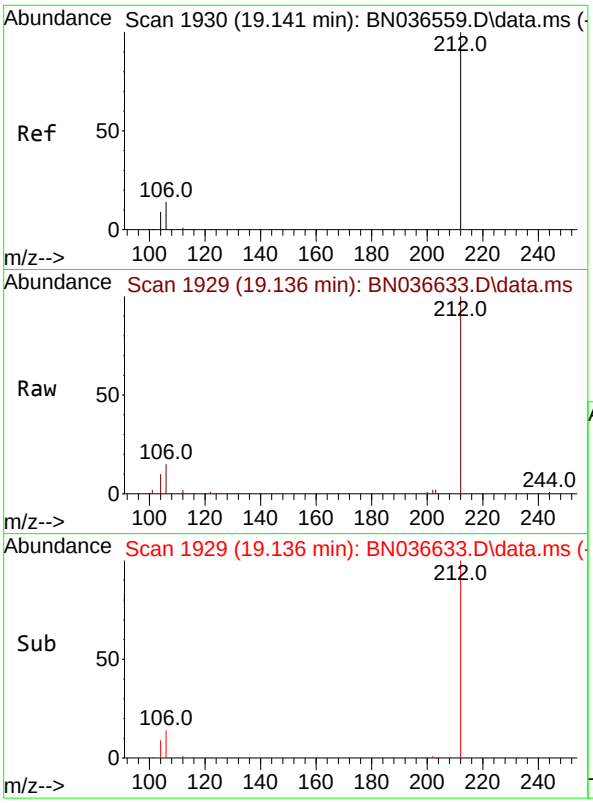


#26
Anthracene
Concen: 0.431 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:178 Resp: 6831

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	14.9	12.6	18.8



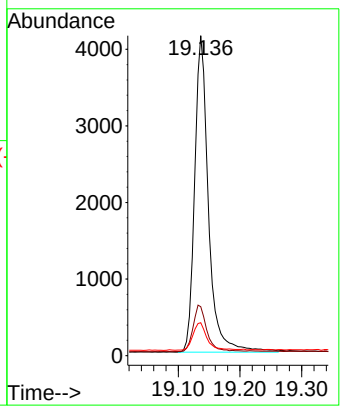


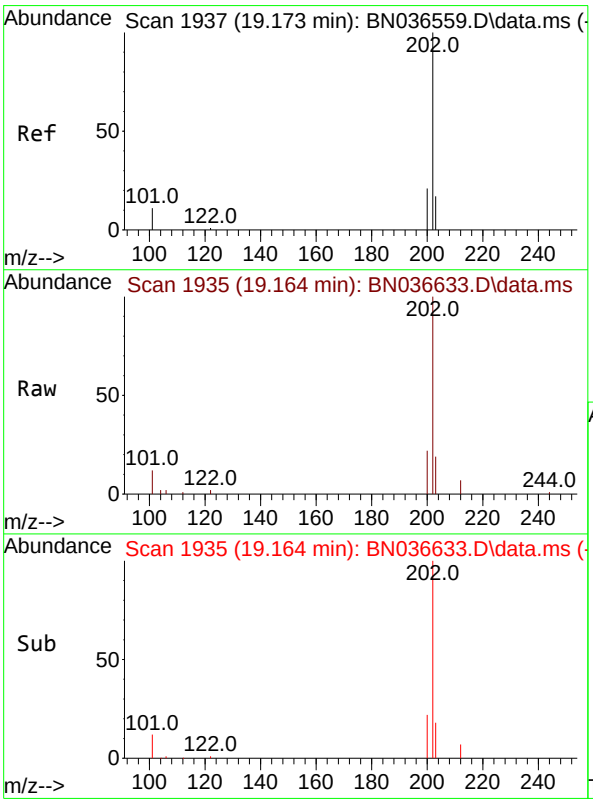
#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.136 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 6452

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.8	17.6
104	8.9	7.3	10.9

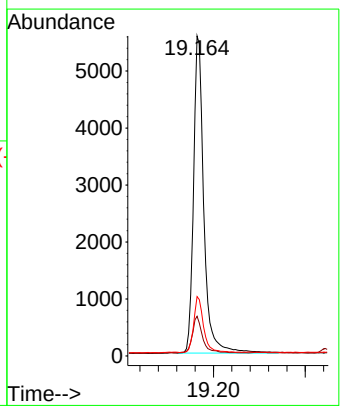


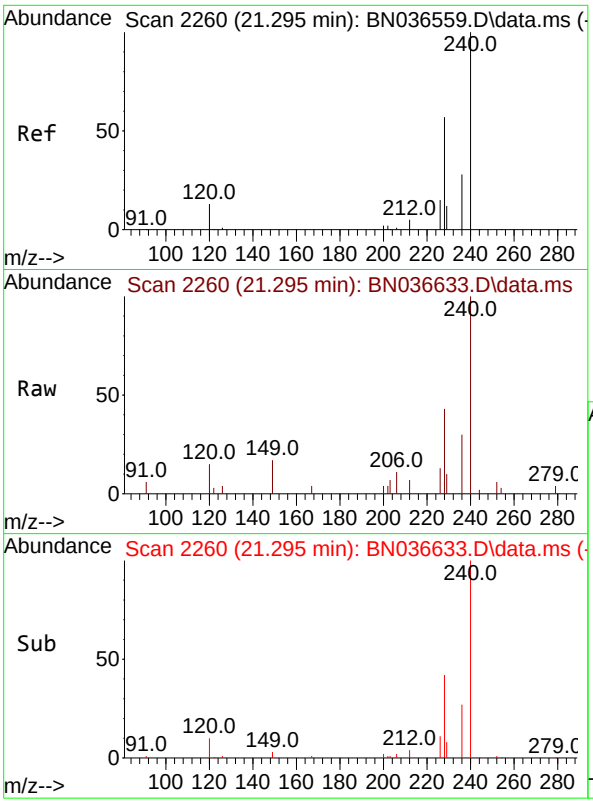


#28
Fluoranthene
Concen: 0.441 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:202 Resp: 8694

Ion	Ratio	Lower	Upper
202	100		
101	11.1	9.4	14.0
203	17.0	13.5	20.3



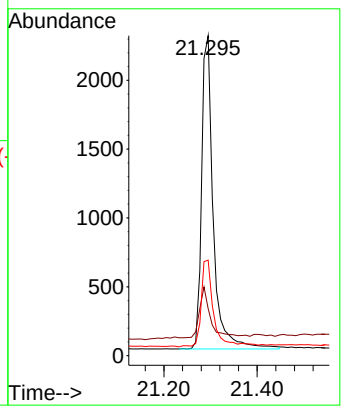


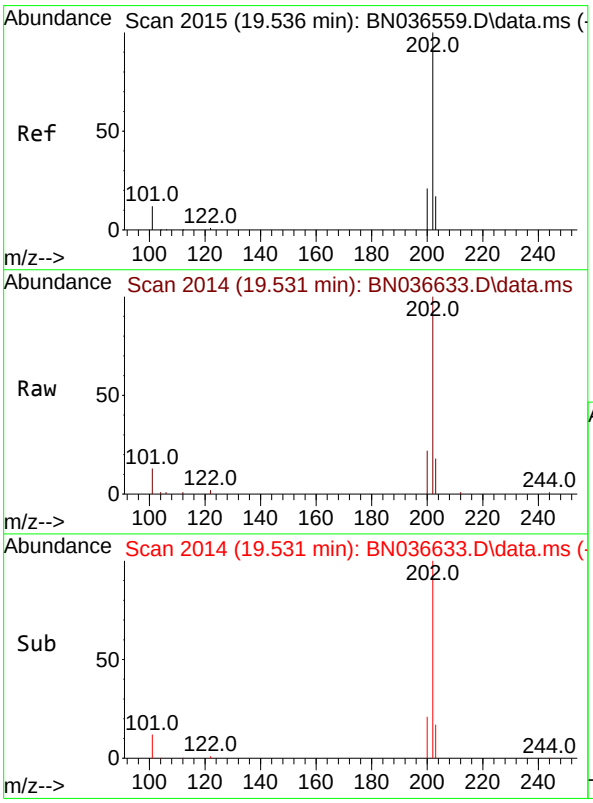
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 3964

Ion	Ratio	Lower	Upper
240	100		
120	14.7	14.6	22.0
236	29.9	24.1	36.1

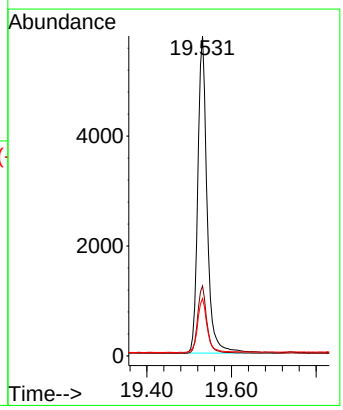


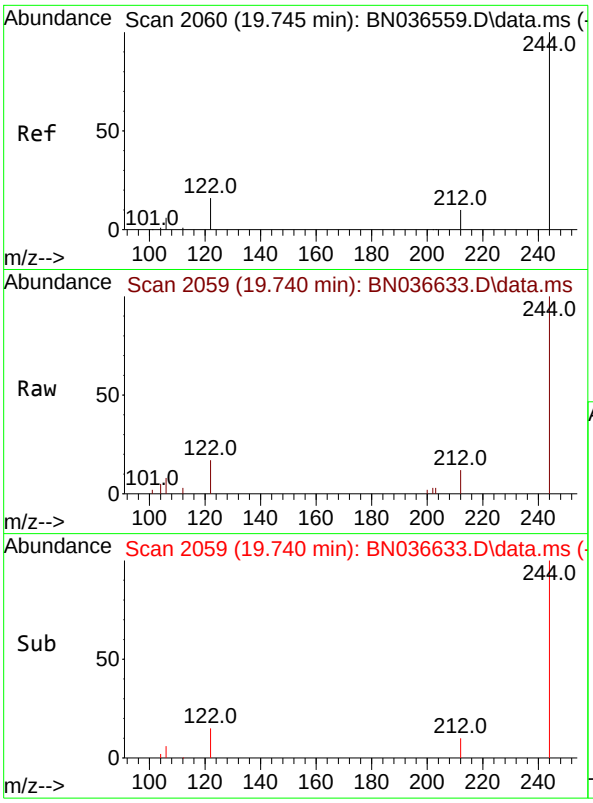


#30
Pyrene
Concen: 0.453 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:202 Resp: 8785

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.1	25.7
203	17.3	14.1	21.1



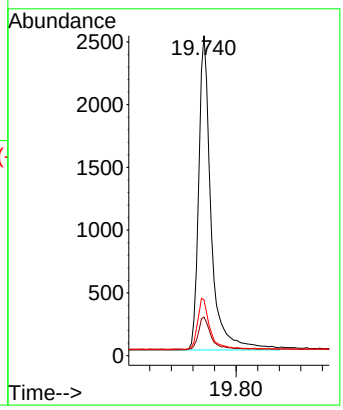


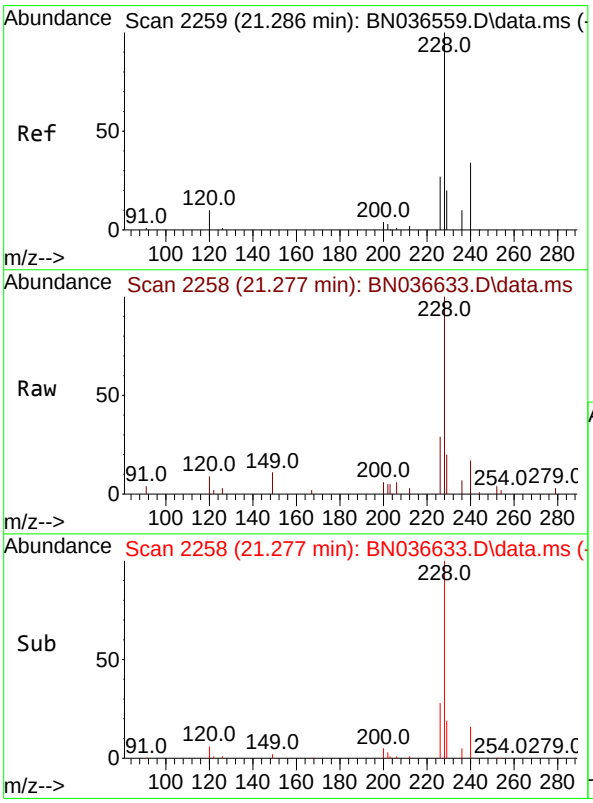
#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 4008

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	17.4	13.9	20.9

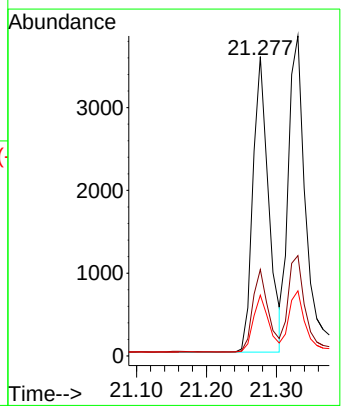


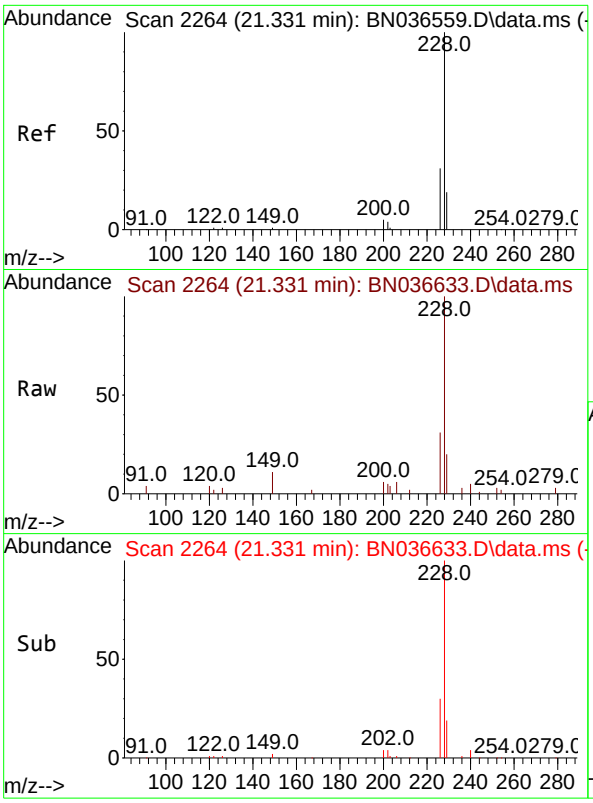


#32
Benzo(a)anthracene
Concen: 0.404 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:228 Resp: 5572

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.5	33.7
229	20.3	16.6	25.0



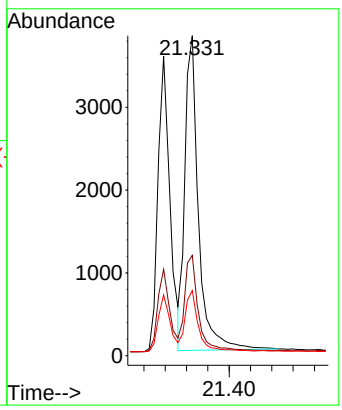


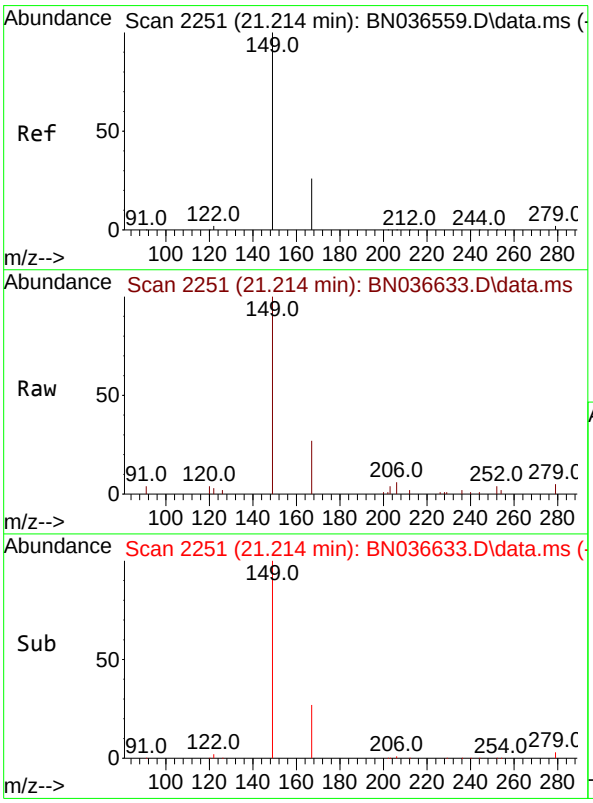
#33
Chrysene
Concen: 0.445 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 6707

Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.3	37.9
229	20.4	15.8	23.8

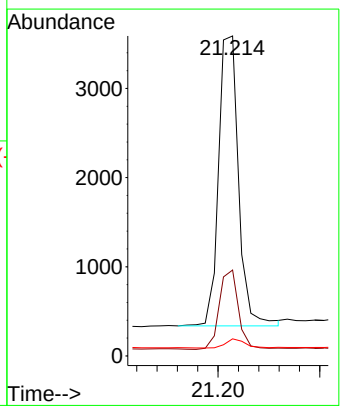


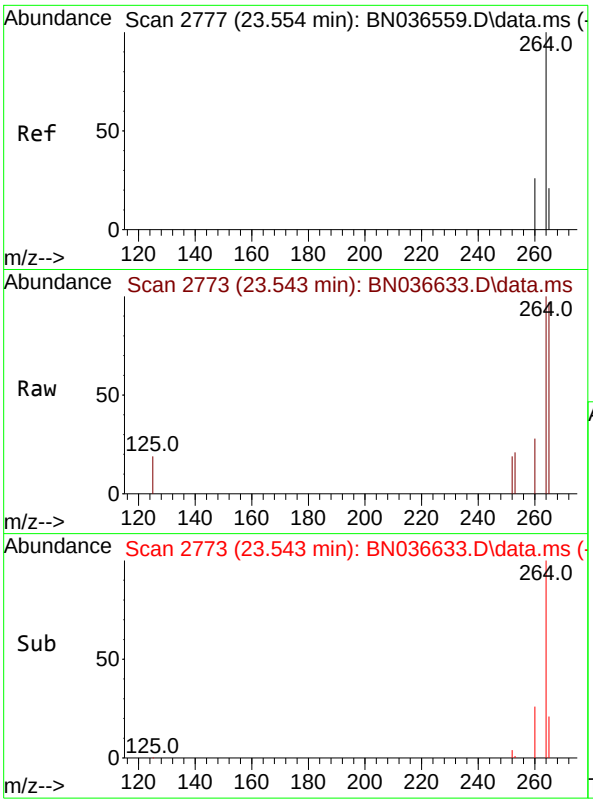


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.451 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:149 Resp: 4427

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.2	3.6	5.4#



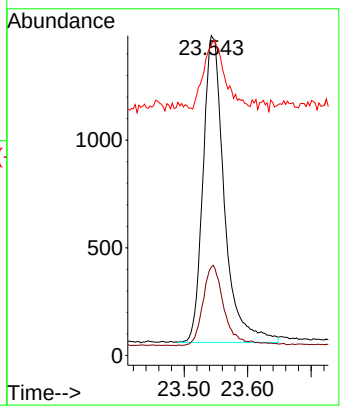


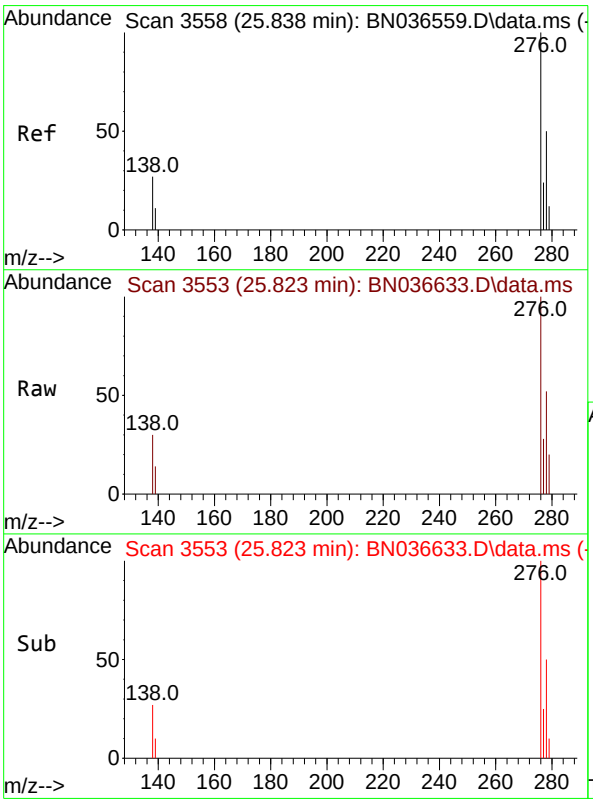
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 3322

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.6	33.8
265	97.3	88.1	132.1

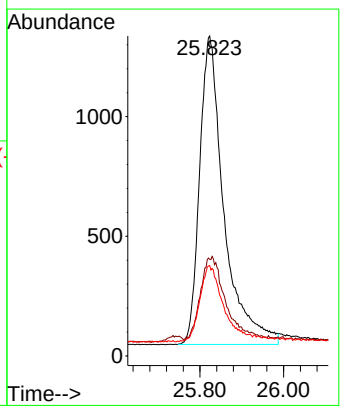


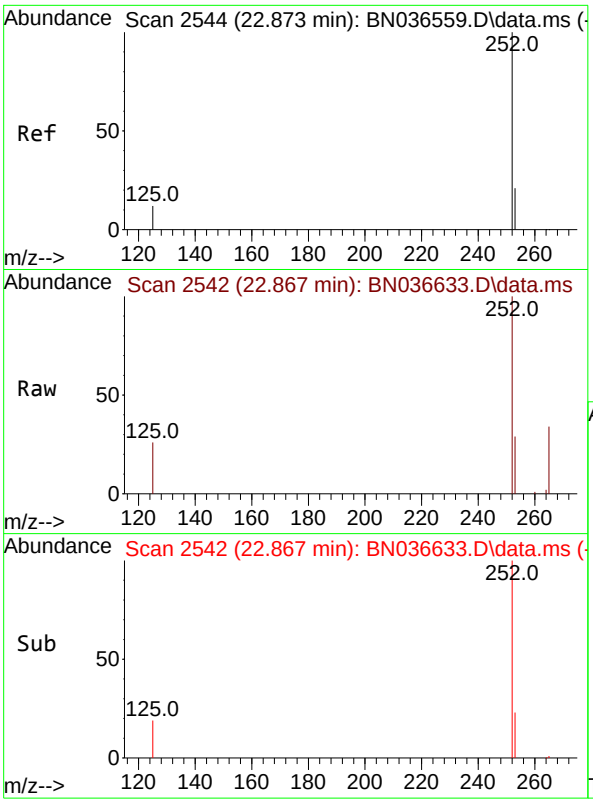


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.434 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.014 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:276 Resp: 5201

Ion	Ratio	Lower	Upper
276	100		
138	26.9	23.4	35.2
277	24.1	20.0	30.0



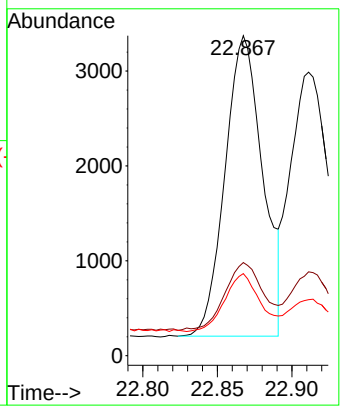


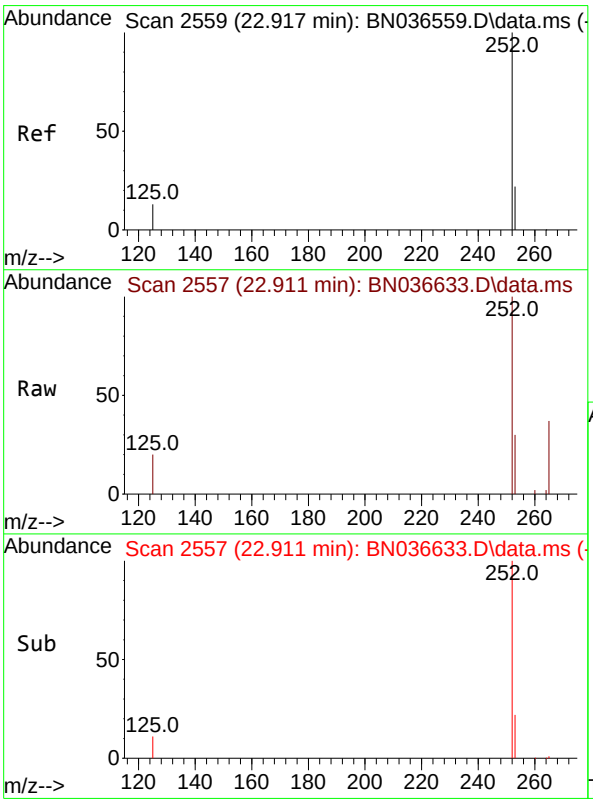
#37
Benzo(b)fluoranthene
Concen: 0.461 ng
RT: 22.867 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5573

Ion	Ratio	Lower	Upper
252	100		
253	29.1	23.9	35.9
125	25.6	17.4	26.2

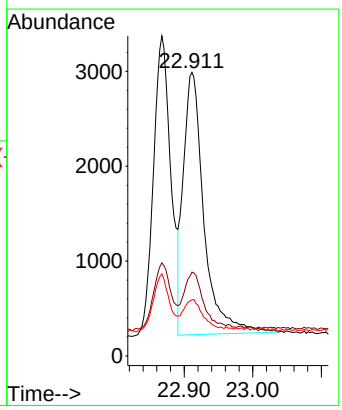


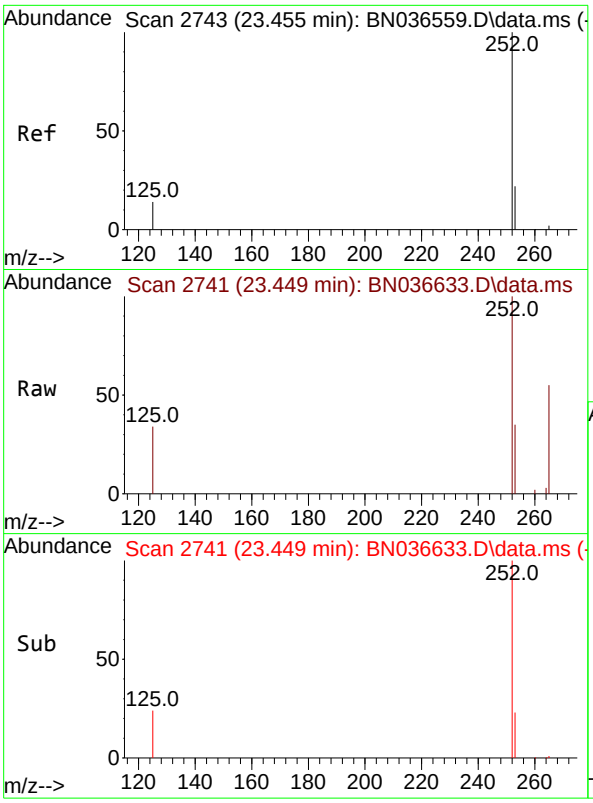


#38
Benzo(k)fluoranthene
Concen: 0.454 ng
RT: 22.911 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:252 Resp: 5760

Ion	Ratio	Lower	Upper
252	100		
253	29.6	24.6	36.8
125	19.7	17.8	26.8



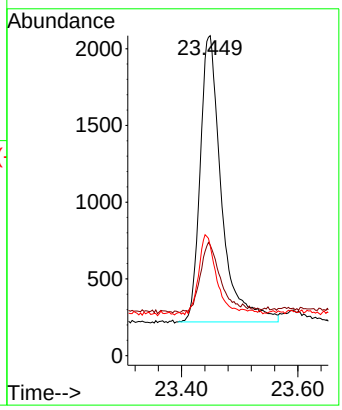


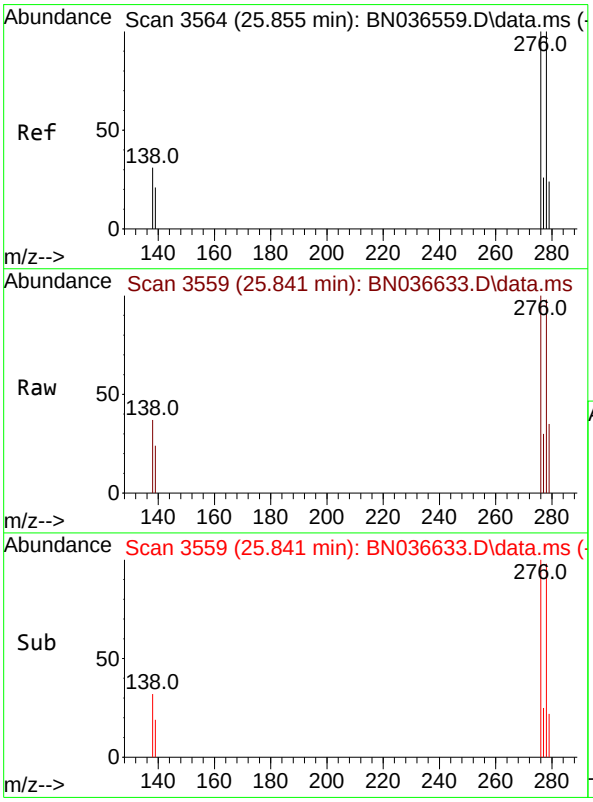
#39
Benzo(a)pyrene
Concen: 0.465 ng
RT: 23.449 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4737

Ion	Ratio	Lower	Upper
252	100		
253	34.5	27.8	41.8
125	34.3	22.7	34.1#

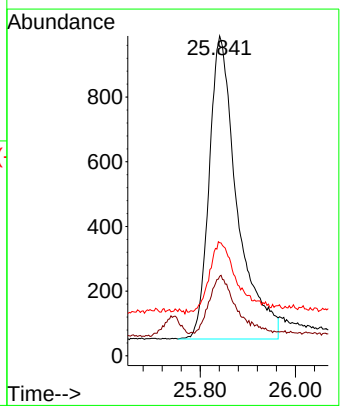


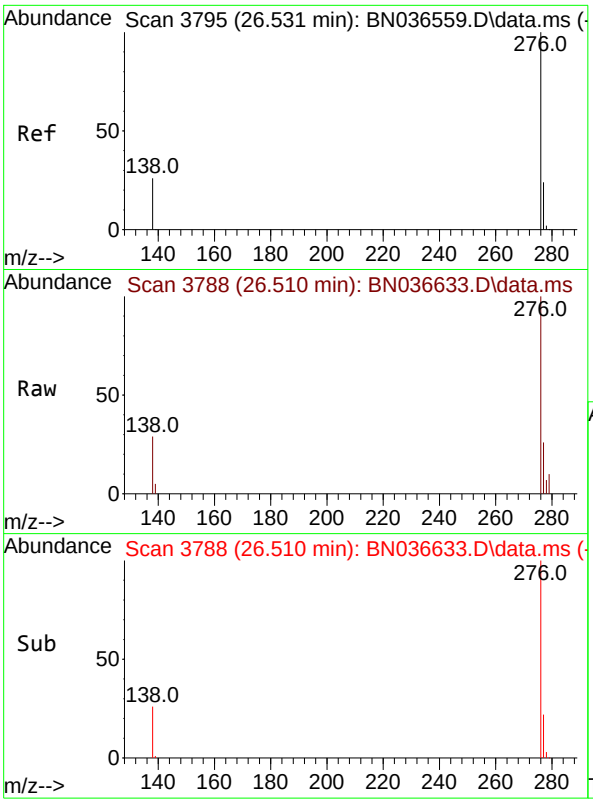


#40
Dibenzo(a,h)anthracene
Concen: 0.409 ng
RT: 25.841 min Scan# 3559
Delta R.T. -0.014 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:278 Resp: 3815

Ion	Ratio	Lower	Upper
278	100		
139	24.9	20.8	31.2
279	35.4	28.8	43.2



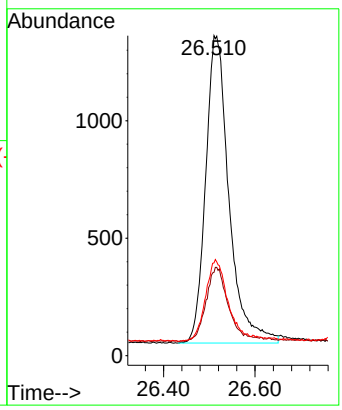


#41
Benzo(g,h,i)perylene
Concen: 0.434 ng
RT: 26.510 min Scan# 3
Delta R.T. -0.020 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 4632

Ion	Ratio	Lower	Upper
276	100		
277	26.1	22.2	33.4
138	29.0	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036633.D
Acq On : 15 Mar 2025 08:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 17 00:34:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2		1,4-Dioxane	0.444	0.508	-14.4	95	0.00
3		n-Nitrosodimethylamine	0.898	1.002	-11.6	100	0.00
4	S	2-Fluorophenol	0.932	0.969	-4.0	92	0.00
5	S	Phenol-d6	1.152	1.163	-1.0	96	0.00
6		bis(2-Chloroethyl)ether	1.190	1.205	-1.3	95	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
8	S	Nitrobenzene-d5	0.435	0.413	5.1	101	-0.01
9		Naphthalene	1.177	1.192	-1.3	100	-0.01
10		Hexachlorobutadiene	0.277	0.284	-2.5	98	-0.01
11	SURR	2-Methylnaphthalene-d10	0.595	0.597	-0.3	100	0.00
12		2-Methylnaphthalene	0.749	0.757	-1.1	100	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	100	-0.01
14	S	2,4,6-Tribromophenol	0.182	0.181	0.5	97	0.00
15	S	2-Fluorobiphenyl	2.327	2.306	0.9	96	0.00
16		Acenaphthylene	1.888	1.962	-3.9	101	0.00
17		Acenaphthene	1.236	1.288	-4.2	101	-0.01
18		Fluorene	1.672	1.734	-3.7	98	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	97	-0.01
20		4,6-Dinitro-2-methylphenol	0.086	0.072	16.3	92	0.00
21		4-Bromophenyl-phenylether	0.251	0.271	-8.0	96	0.00
22		Hexachlorobenzene	0.303	0.334	-10.2	97	0.00
23		Atrazine	0.201	0.217	-8.0	99	0.00
24		Pentachlorophenol	0.138	0.132	4.3	94	-0.01
25		Phenanthrene	1.200	1.325	-10.4	100	0.00
26		Anthracene	1.083	1.167	-7.8	99	-0.01
27	SURR	Fluoranthene-d10	1.025	1.103	-7.6	96	0.00
28		Fluoranthene	1.348	1.486	-10.2	100	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	96	0.00
30		Pyrene	1.956	2.216	-13.3	100	0.00
31	S	Terphenyl-d14	0.958	1.011	-5.5	95	0.00
32		Benzo(a)anthracene	1.391	1.406	-1.1	94	0.00
33		Chrysene	1.520	1.692	-11.3	101	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	1.117	-12.8	103	0.00
35	I	Perylene-d12	1.000	1.000	0.0	94	-0.01
36		Indeno(1,2,3-cd)pyrene	1.444	1.566	-8.4	95	-0.01
37		Benzo(b)fluoranthene	1.456	1.678	-15.2	102	0.00
38		Benzo(k)fluoranthene	1.527	1.734	-13.6	100	0.00
39	C	Benzo(a)pyrene	1.226	1.426	-16.3	103	0.00
40		Dibenzo(a,h)anthracene	1.124	1.148	-2.1	93	-0.01
41		Benzo(g,h,i)perylene	1.286	1.394	-8.4	95	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036633.D
Acq On : 15 Mar 2025 08:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 17 00:34:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	93	0.00
2		1,4-Dioxane	0.400	0.458	-14.5	95	0.00
3		n-Nitrosodimethylamine	0.400	0.447	-11.7	100	0.00
4	S	2-Fluorophenol	0.400	0.416	-4.0	92	0.00
5	S	Phenol-d6	0.400	0.404	-1.0	96	0.00
6		bis(2-Chloroethyl)ether	0.400	0.405	-1.3	95	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	101	0.00
8	S	Nitrobenzene-d5	0.400	0.379	5.3	101	-0.01
9		Naphthalene	0.400	0.405	-1.3	100	-0.01
10		Hexachlorobutadiene	0.400	0.411	-2.7	98	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.401	-0.3	100	0.00
12		2-Methylnaphthalene	0.400	0.404	-1.0	100	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	100	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.400	0.0	97	0.00
15	S	2-Fluorobiphenyl	0.400	0.396	1.0	96	0.00
16		Acenaphthylene	0.400	0.416	-4.0	101	0.00
17		Acenaphthene	0.400	0.417	-4.2	101	-0.01
18		Fluorene	0.400	0.415	-3.7	98	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	97	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.429	-7.2	92	0.00
21		4-Bromophenyl-phenylether	0.400	0.433	-8.2	96	0.00
22		Hexachlorobenzene	0.400	0.441	-10.2	97	0.00
23		Atrazine	0.400	0.432	-8.0	99	0.00
24		Pentachlorophenol	0.400	0.381	4.8	94	-0.01
25		Phenanthrene	0.400	0.442	-10.5	100	0.00
26		Anthracene	0.400	0.431	-7.7	99	-0.01
27	SURR	Fluoranthene-d10	0.400	0.430	-7.5	96	0.00
28		Fluoranthene	0.400	0.441	-10.2	100	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	96	0.00
30		Pyrene	0.400	0.453	-13.2	100	0.00
31	S	Terphenyl-d14	0.400	0.422	-5.5	95	0.00
32		Benzo(a)anthracene	0.400	0.404	-1.0	94	0.00
33		Chrysene	0.400	0.445	-11.2	101	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.451	-12.7	103	0.00
35	I	Perylene-d12	0.400	0.400	0.0	94	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.434	-8.5	95	-0.01
37		Benzo(b)fluoranthene	0.400	0.461	-15.3	102	0.00
38		Benzo(k)fluoranthene	0.400	0.454	-13.5	100	0.00
39	C	Benzo(a)pyrene	0.400	0.465	-16.3	103	0.00
40		Dibenzo(a,h)anthracene	0.400	0.409	-2.2	93	-0.01
41		Benzo(g,h,i)perylene	0.400	0.434	-8.5	95	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

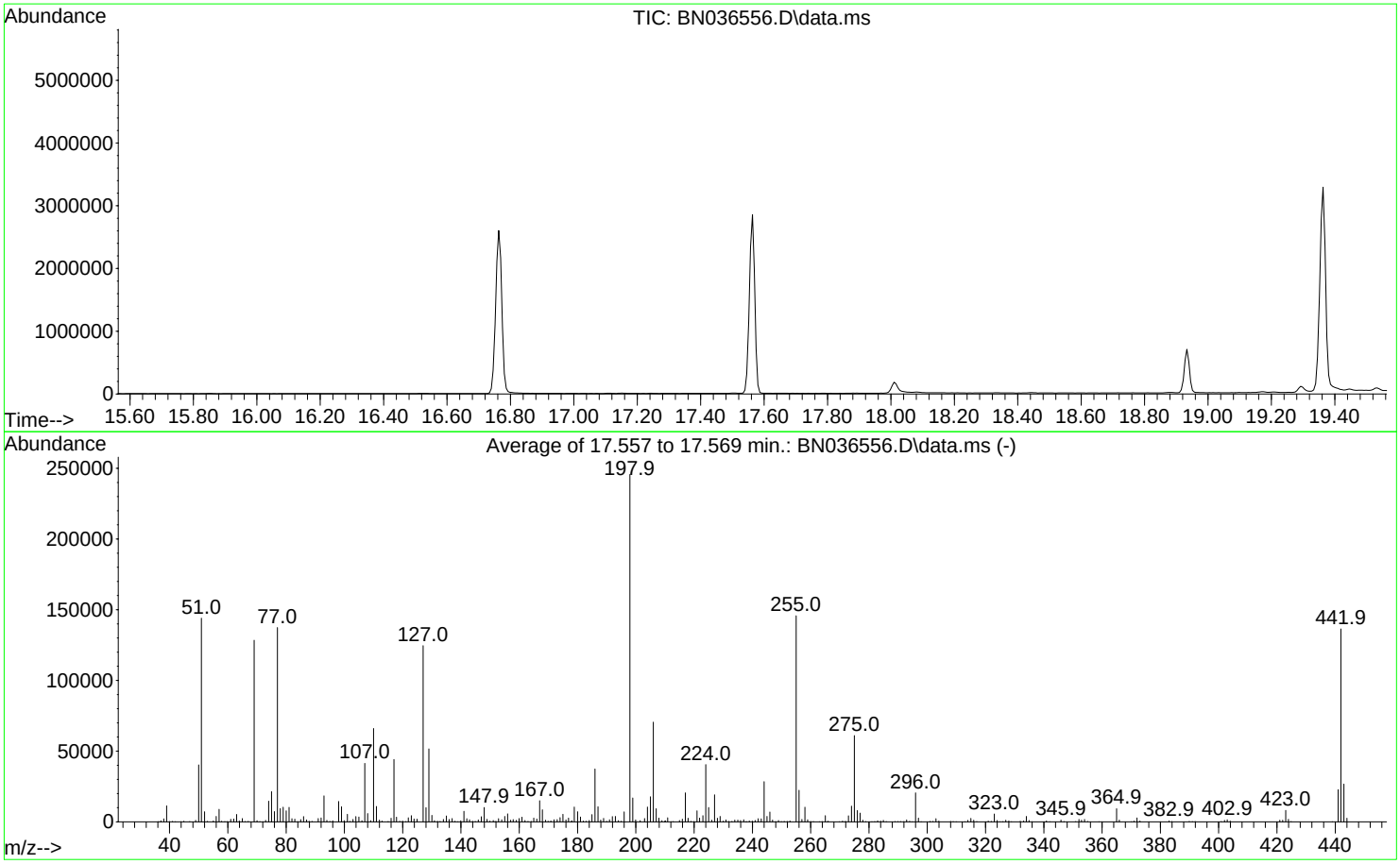
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
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-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.6	144050	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.3	128410	PASS
70	69	0.00	2	0.7	835	PASS
127	198	10	80	50.7	124576	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	245632	PASS
199	198	5	9	6.9	16887	PASS
275	198	10	60	24.8	60997	PASS
365	198	1	100	3.8	9349	PASS
441	198	0.01	100	9.3	22761	PASS
442	442	50	100	100.0	136488	PASS
443	442	15	24	19.6	26765	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

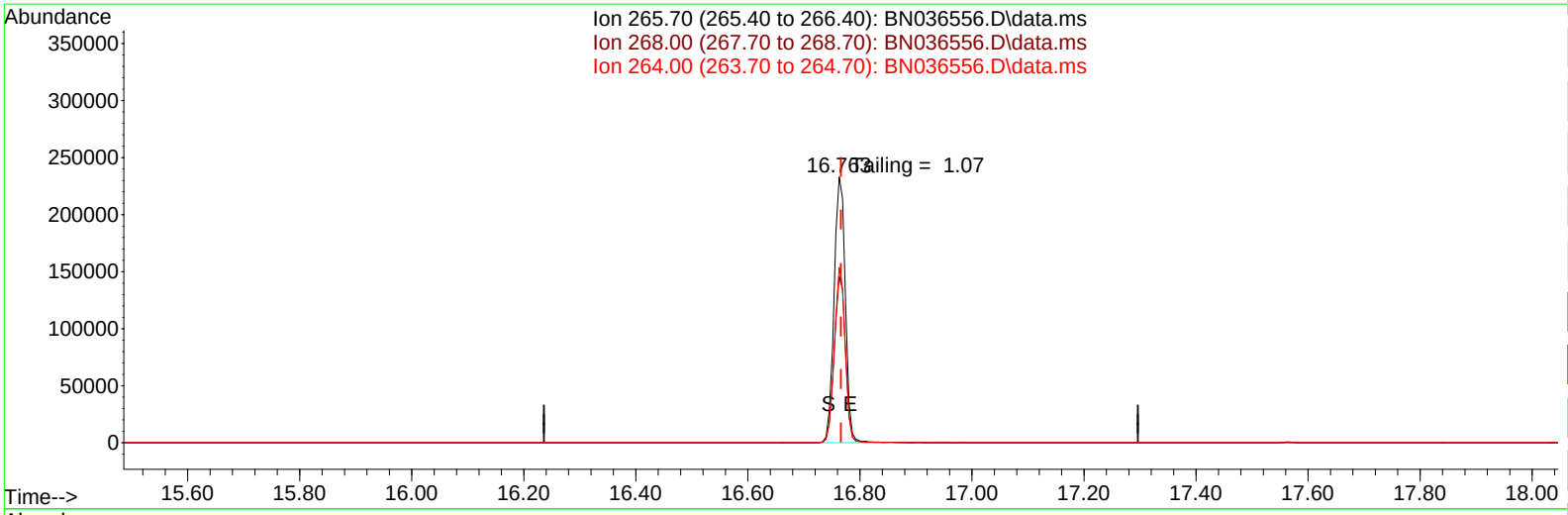
DDT Breakdown

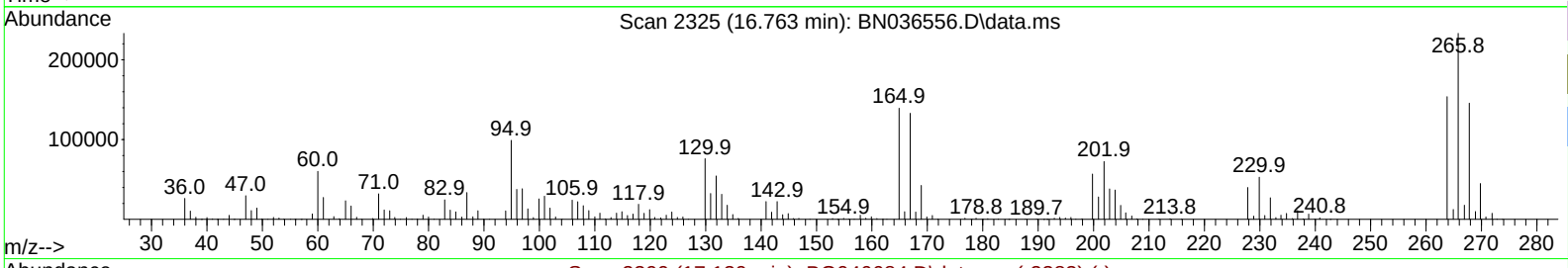
Date	Instrument Name	DFTPP Data File
3/10/2025	BNA_N	BN036556.D
Compound Name	**Response**	**Retention Time**
DDT	1110406	20.598
DDD	11596	20.21
DDE	530	19.645
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
12126	1122532	1.08

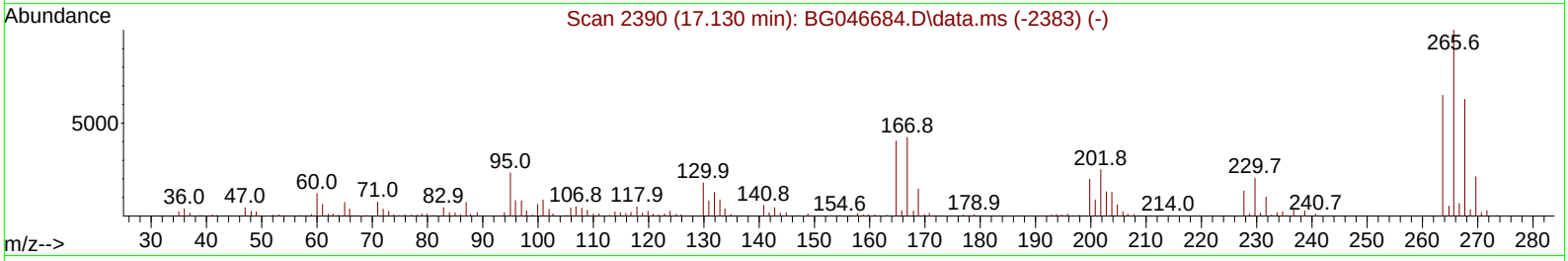
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN036556.D\data.ms

(70) Pentachlorophenol (C)

16.763min (-0.003) 23577.14 ng

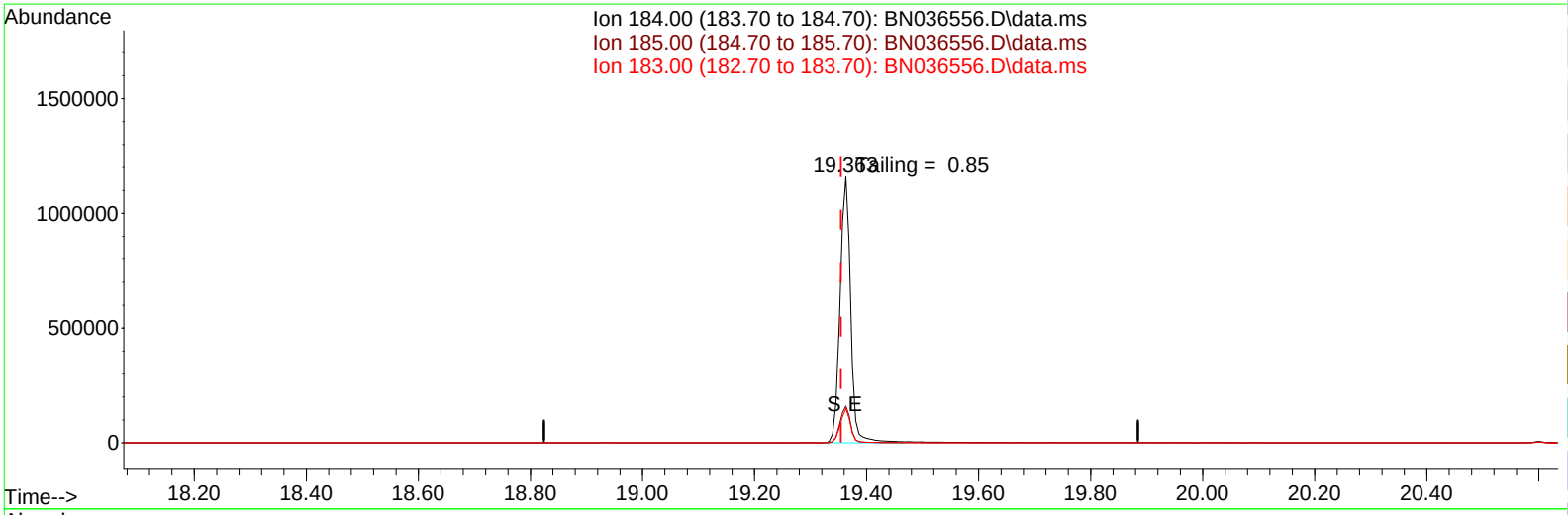
response 323613

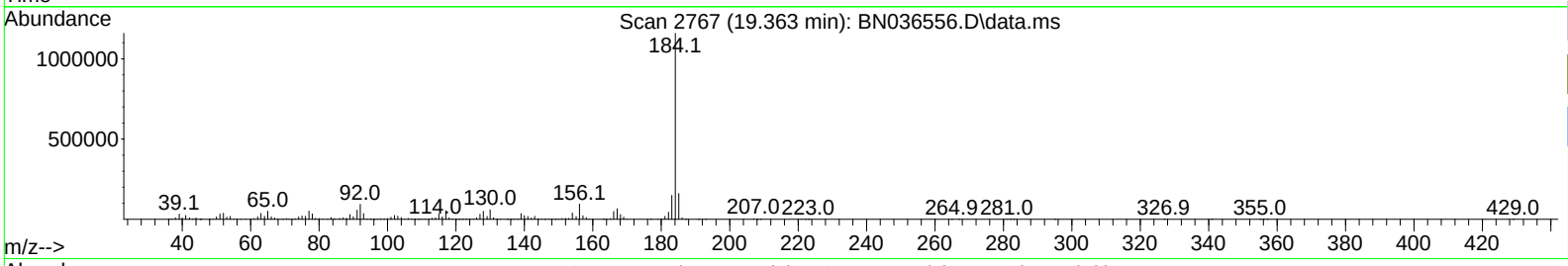
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.52
264.00	61.60	66.01
0.00	0.00	0.00

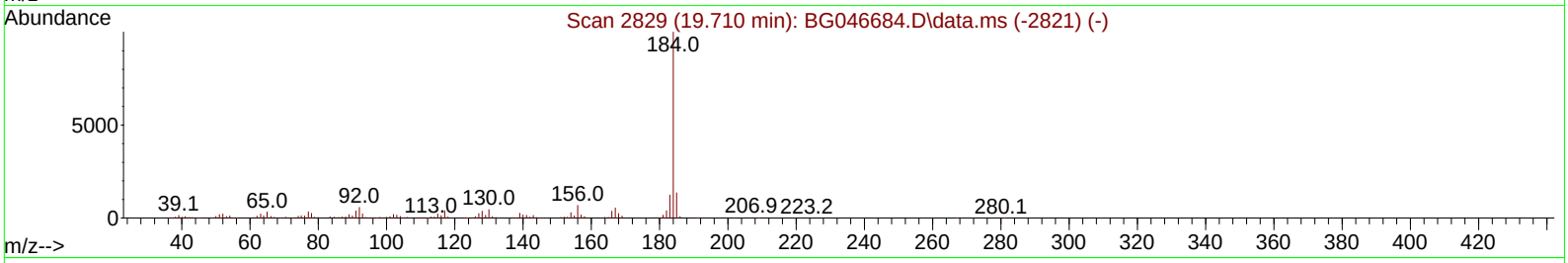
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN036556.D\data.ms

(77) Benzidine

19.363min (+ 0.009) 0.00 ng

response 1553313

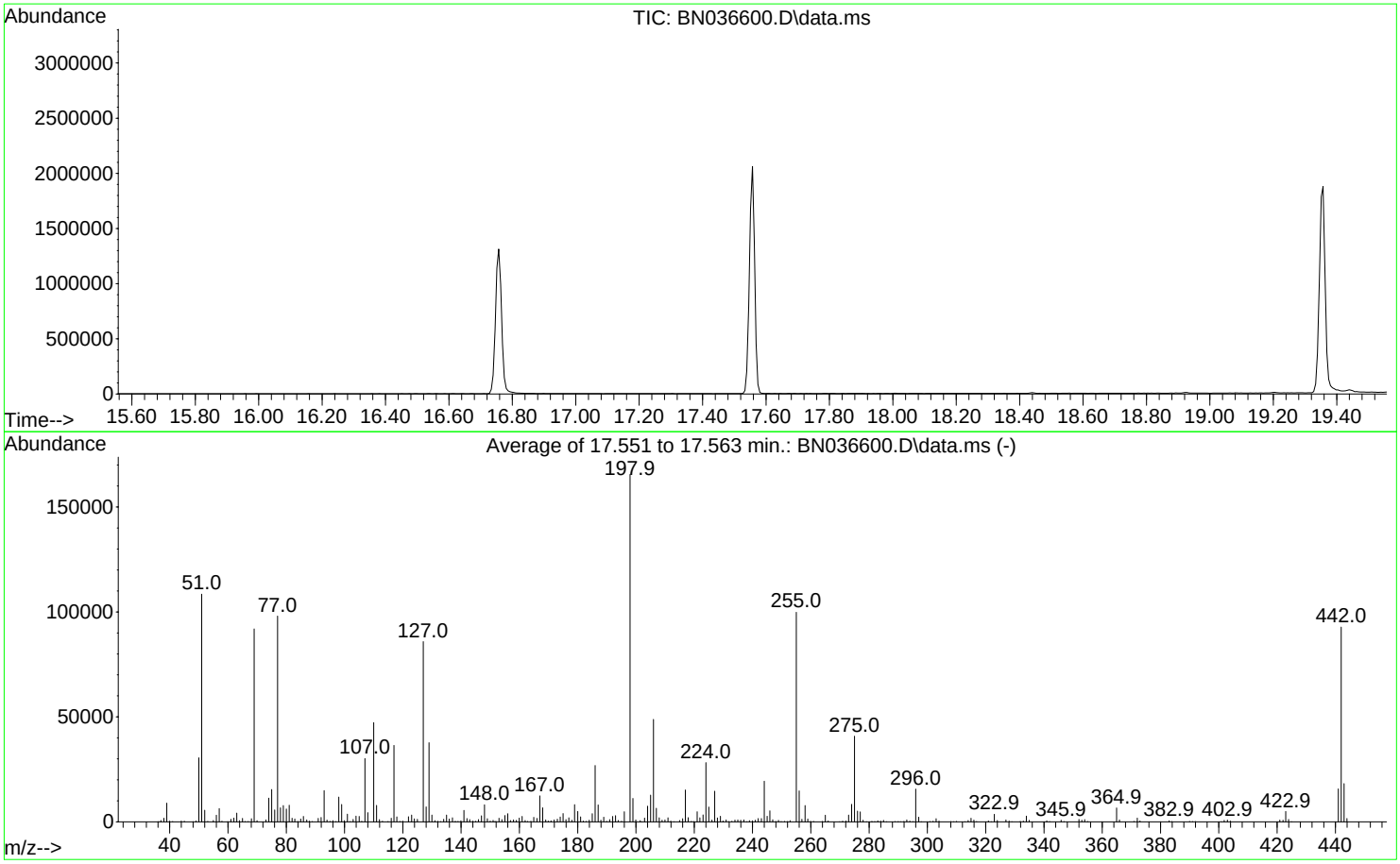
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.86
183.00	13.20	12.85
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036600.D
Acq On : 14 Mar 2025 09:30
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-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



AutoFind: Scans 2459, 2460, 2461; Background Corrected with Scan 2452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	65.5	108445	PASS
68	69	0.00	2	1.6	1504	PASS
69	198	0.00	100	55.5	91899	PASS
70	69	0.00	2	0.6	558	PASS
127	198	10	80	51.9	85880	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	165483	PASS
199	198	5	9	6.7	11147	PASS
275	198	10	60	24.7	40816	PASS
365	198	1	100	4.0	6612	PASS
441	198	0.01	100	9.5	15668	PASS
442	442	50	100	100.0	92771	PASS
443	442	15	24	19.7	18237	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

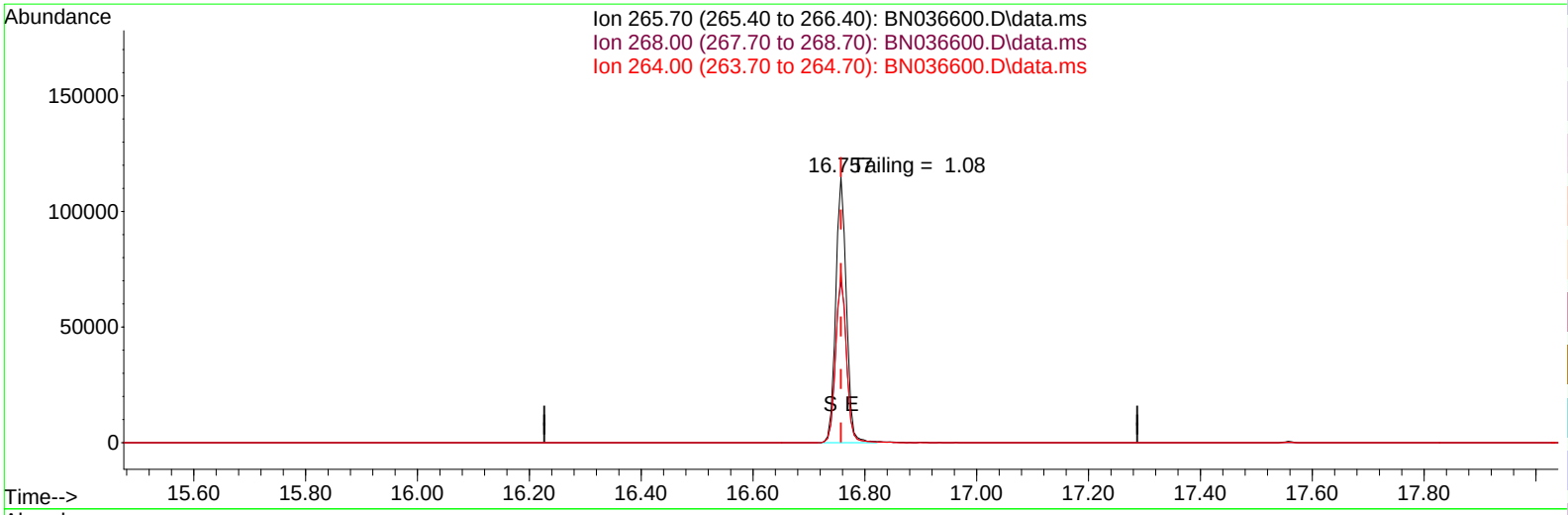
DDT Breakdown

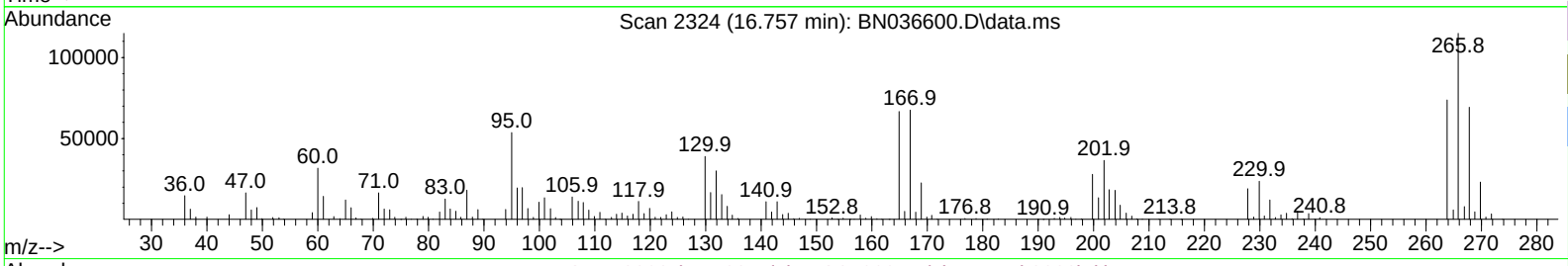
Date	Instrument Name	DFTPP Data File
3/14/2025	BNA_N	BN036600.D
Compound Name	**Response**	**Retention Time**
DDT	534890	20.592
DDD	6130	20.204
DDE	455	19.639
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6585	541475	1.22

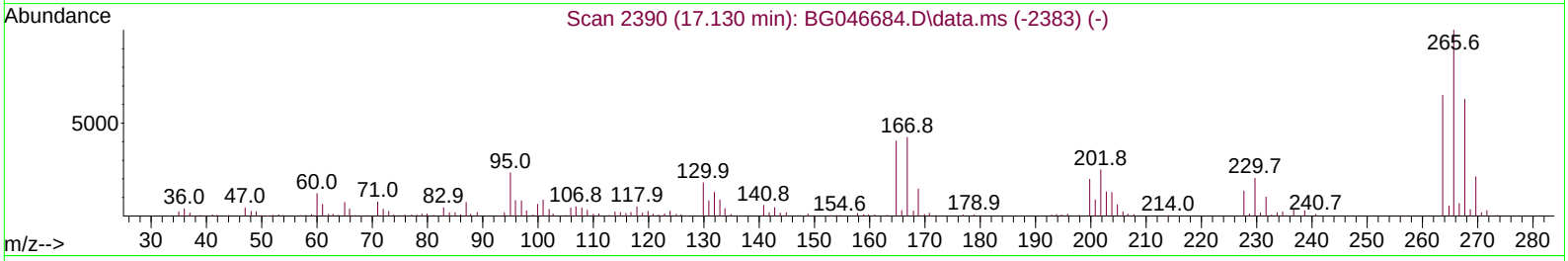
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036600.D
Acq On : 14 Mar 2025 09:30
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 15 00:26:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 15 00:26:30 2025
Response via : Initial Calibration







TIC: BN036600.D\data.ms

(70) Pentachlorophenol (C)

16.757min (0.000) 18451.01 ng

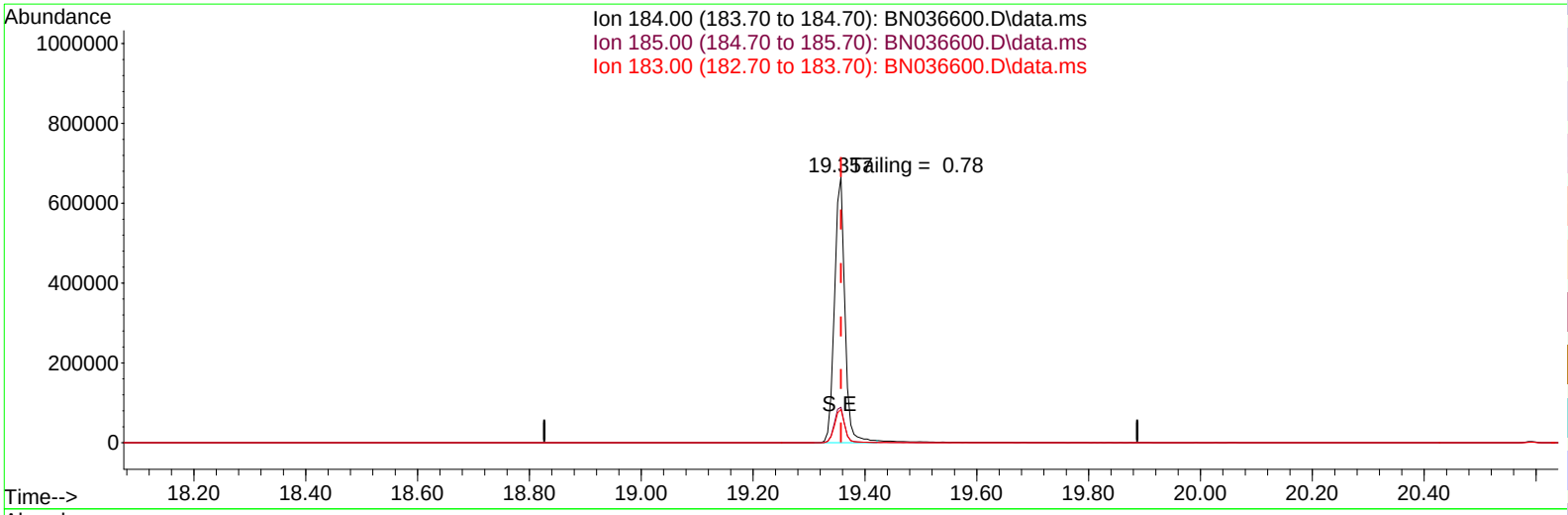
response 152618

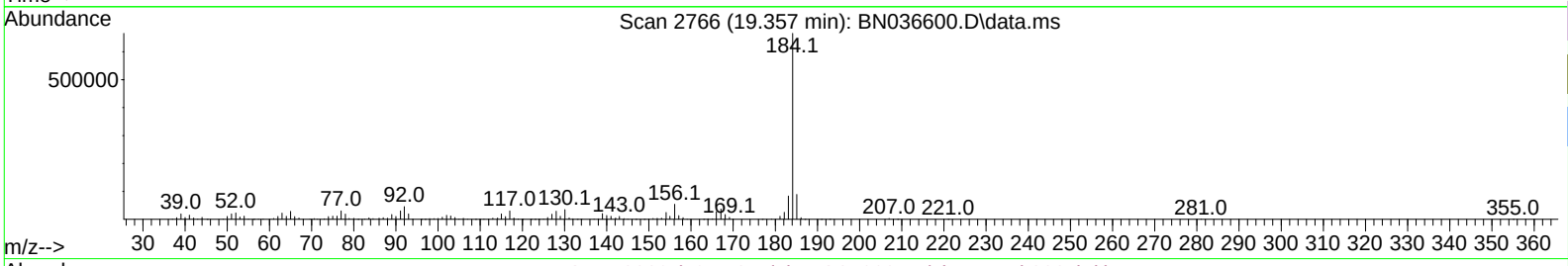
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.30
264.00	61.60	64.18
0.00	0.00	0.00

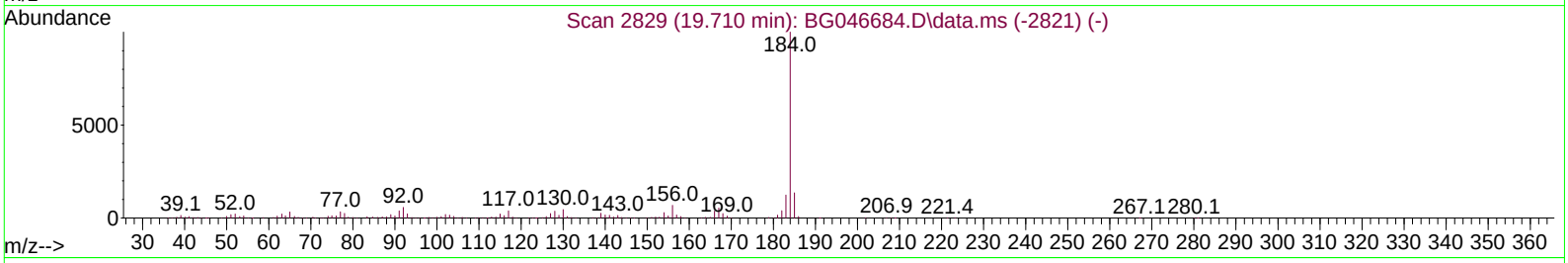
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036600.D
Acq On : 14 Mar 2025 09:30
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 15 00:26:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 15 00:26:30 2025
Response via : Initial Calibration







TIC: BN036600.D\data.ms

(77) Benzidine

19.357min (0.000) 0.00 ng

response 868744

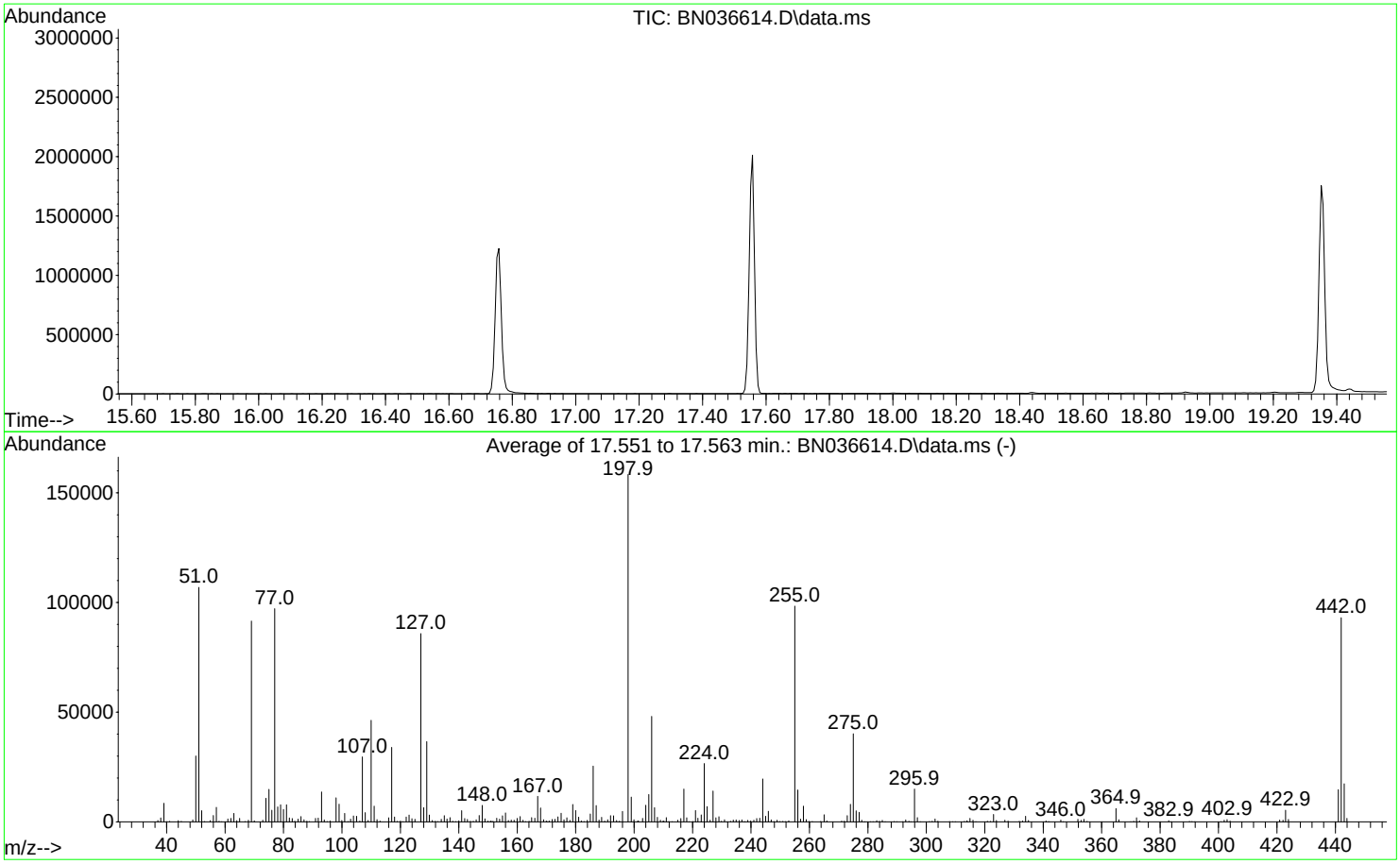
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.38
183.00	13.20	12.57
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036614.D
Acq On : 14 Mar 2025 19:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



AutoFind: Scans 2459, 2460, 2461; Background Corrected with Scan 2452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.5	106904	PASS
68	69	0.00	2	0.9	793	PASS
69	198	0.00	100	57.8	91549	PASS
70	69	0.00	2	0.6	519	PASS
127	198	10	80	54.2	85851	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	158365	PASS
199	198	5	9	7.1	11286	PASS
275	198	10	60	25.4	40192	PASS
365	198	1	100	3.8	6077	PASS
441	198	0.01	100	9.3	14651	PASS
442	442	50	100	100.0	93083	PASS
443	442	15	24	18.6	17354	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

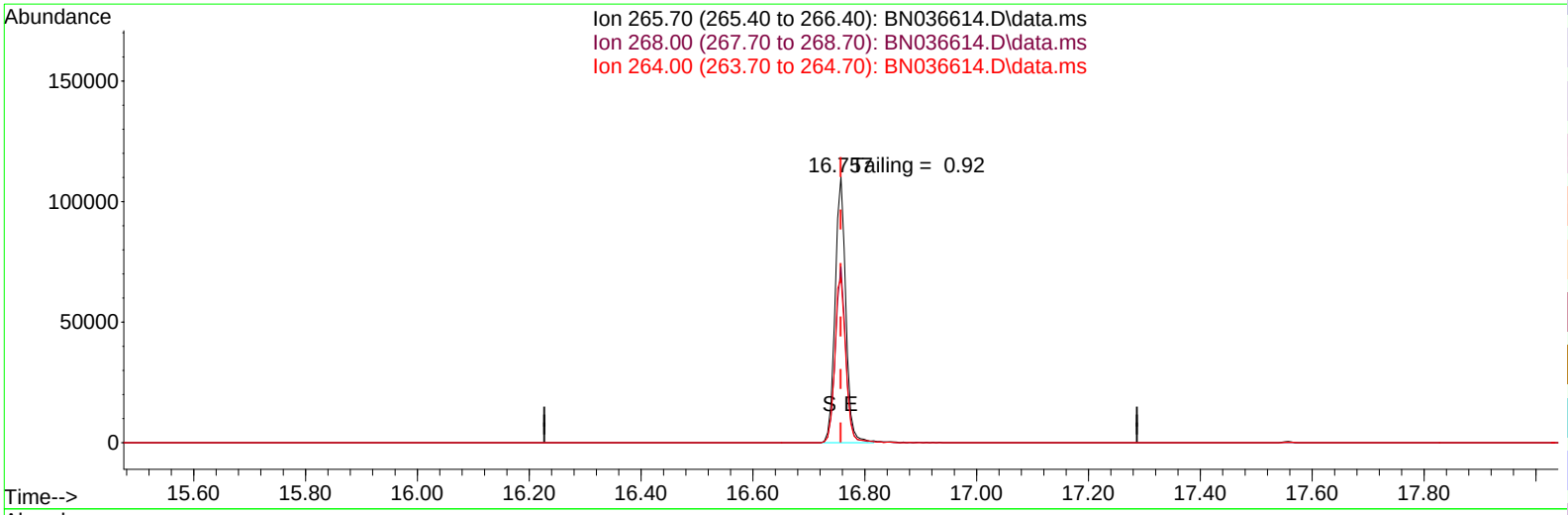
DDT Breakdown

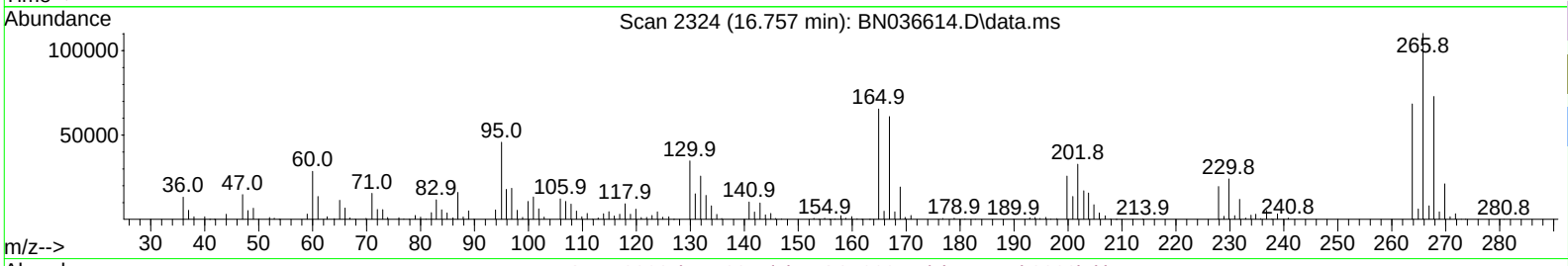
Date	Instrument Name	DFTPP Data File
3/14/2025	BNA_N	BN036614.D
Compound Name	**Response**	**Retention Time**
DDT	524370	20.592
DDD	5883	20.204
DDE	253	19.639
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6136	530506	1.16

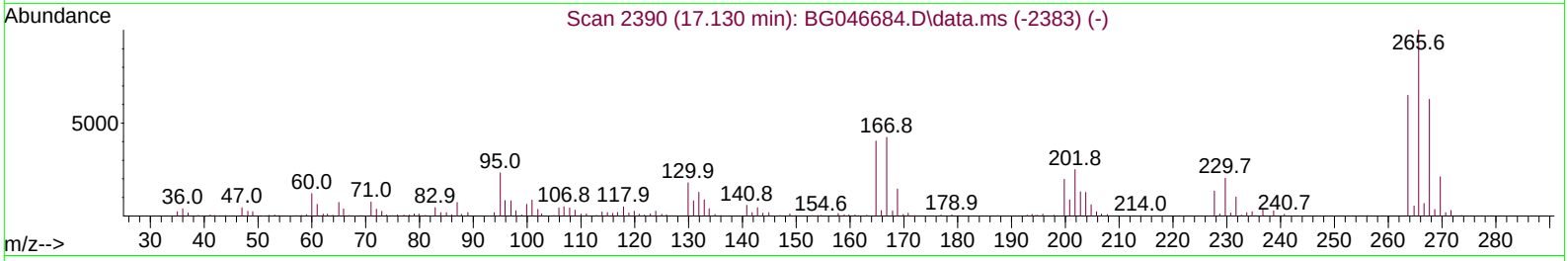
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036614.D
Acq On : 14 Mar 2025 19:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 15 00:28:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 15 00:26:30 2025
Response via : Initial Calibration







TIC: BN036614.D\data.ms

(70) Pentachlorophenol (C)

16.757min (+ 0.000) 16591.40 ng

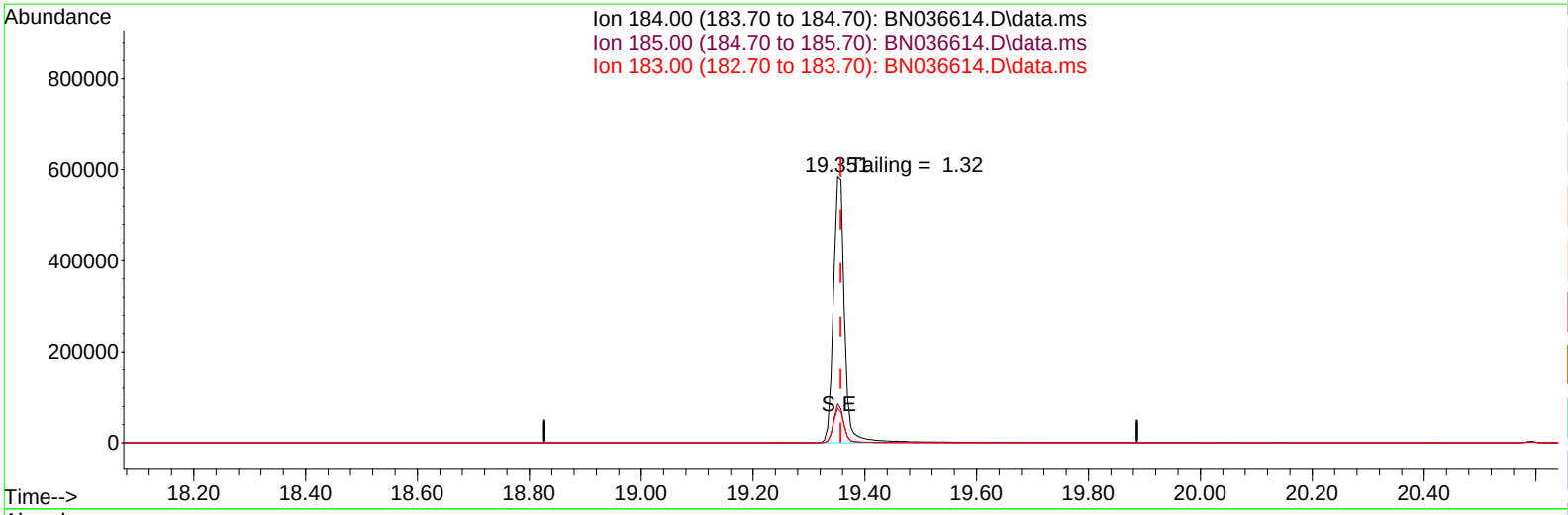
response 147262

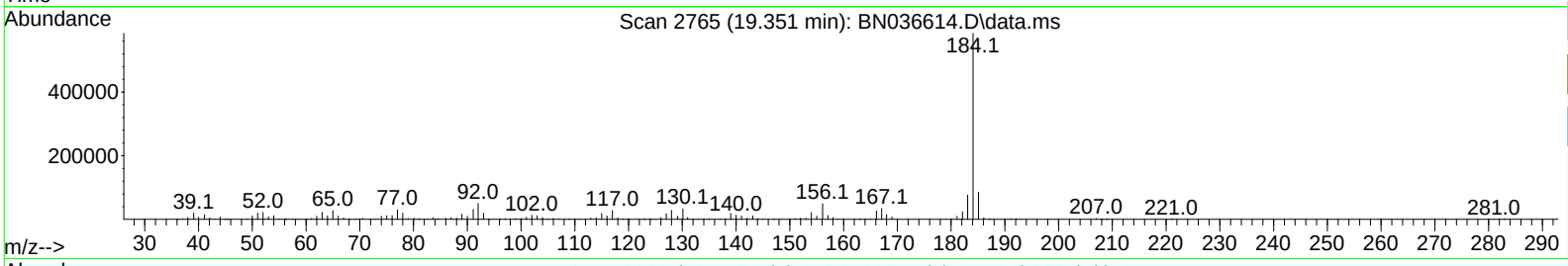
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.06
264.00	61.60	62.07
0.00	0.00	0.00

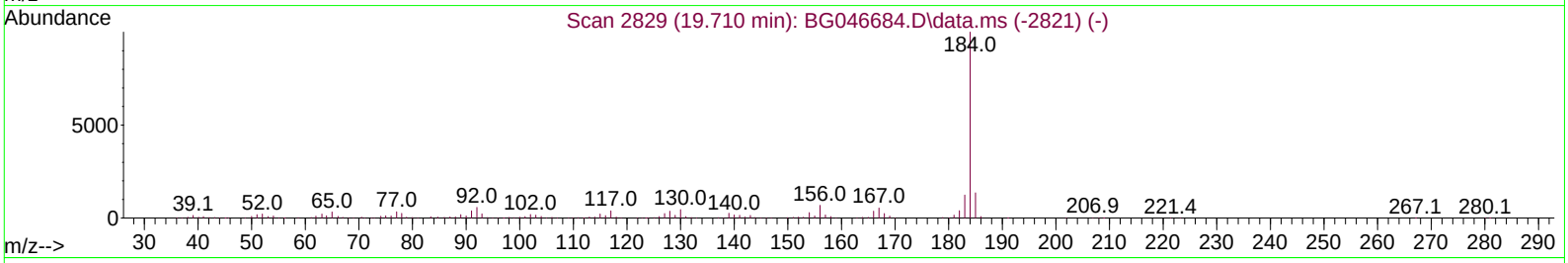
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036614.D
Acq On : 14 Mar 2025 19:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 15 00:28:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 15 00:26:30 2025
Response via : Initial Calibration







TIC: BN036614.D\data.ms

(77) Benzidine

19.351min (-0.006) 0.00 ng

response 817261

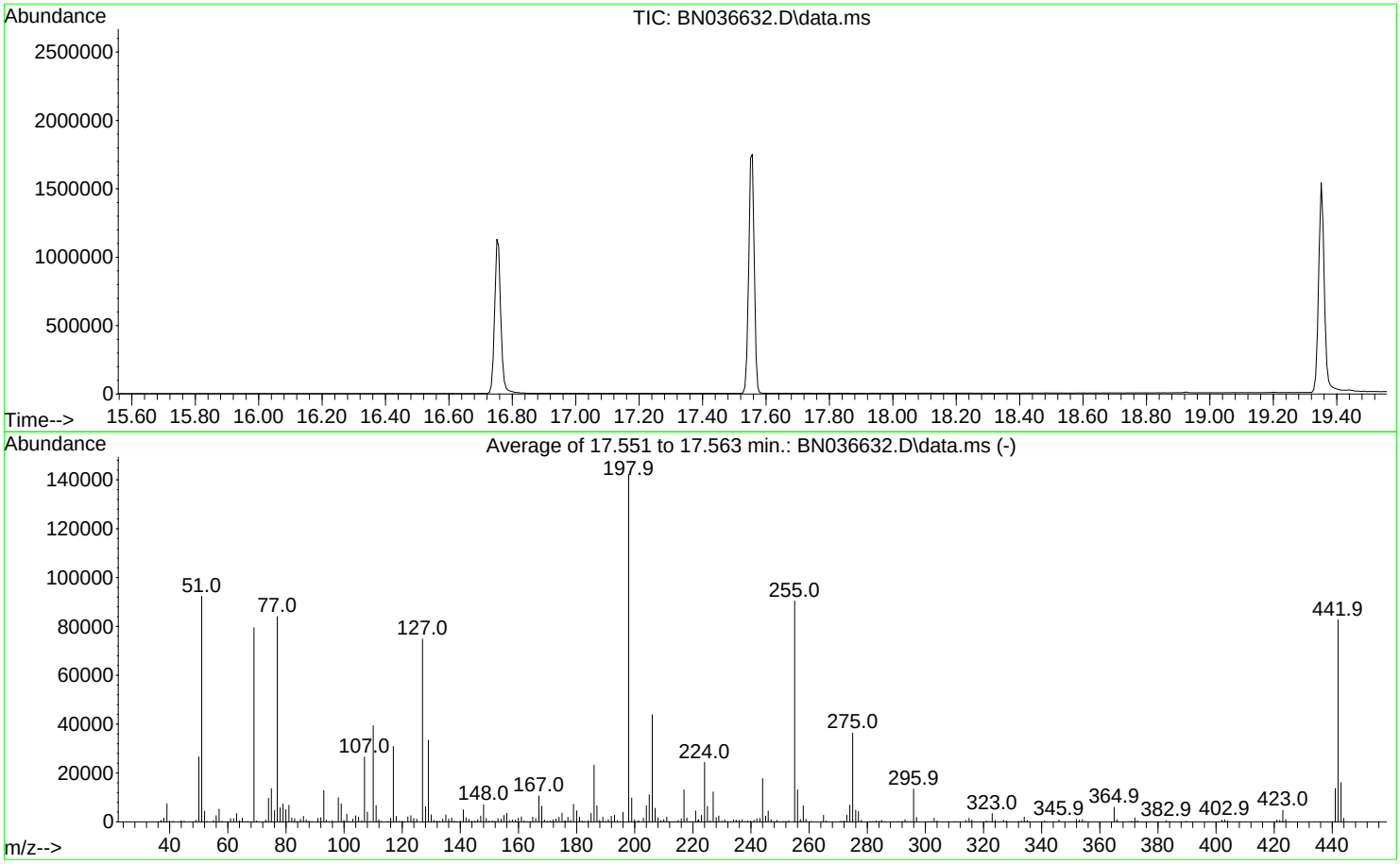
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.66
183.00	13.20	13.06
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036632.D
Acq On : 15 Mar 2025 06:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



AutoFind: Scans 2459, 2460, 2461; Background Corrected with Scan 2452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	64.9	92315	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	55.9	79448	PASS
70	69	0.00	2	0.5	429	PASS
127	198	10	80	52.7	74864	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	142187	PASS
199	198	5	9	6.9	9755	PASS
275	198	10	60	25.6	36355	PASS
365	198	1	100	4.2	5967	PASS
441	198	0.01	100	9.6	13649	PASS
442	442	50	100	100.0	82675	PASS
443	442	15	24	19.5	16097	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

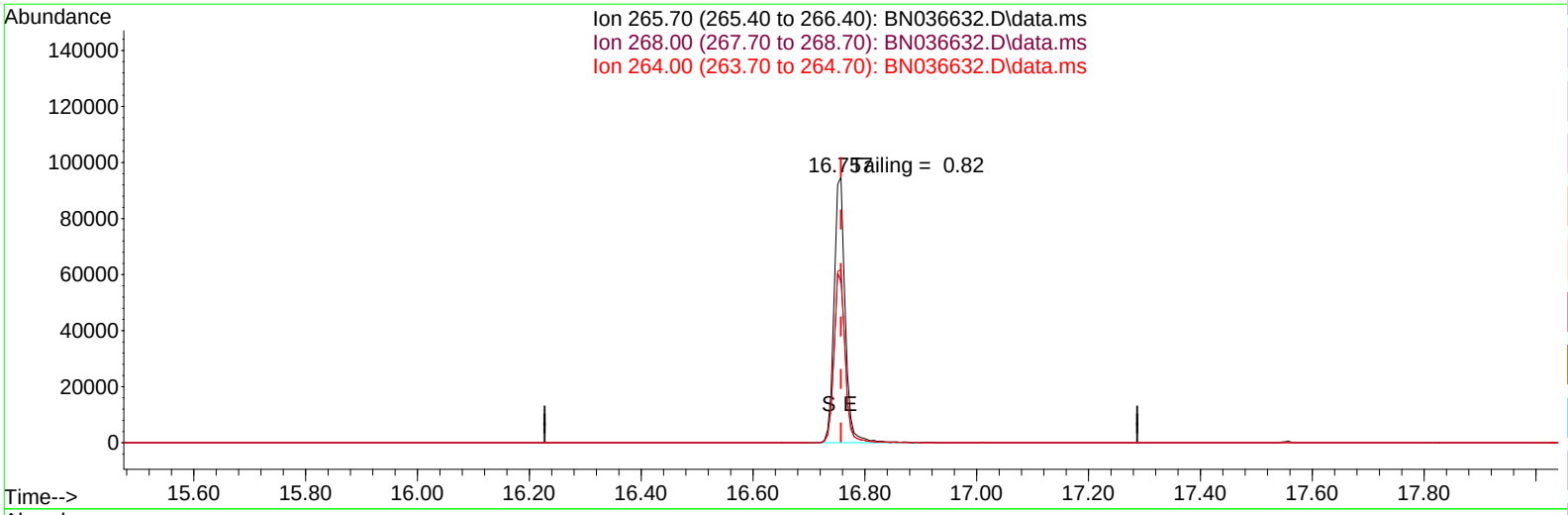
DDT Breakdown

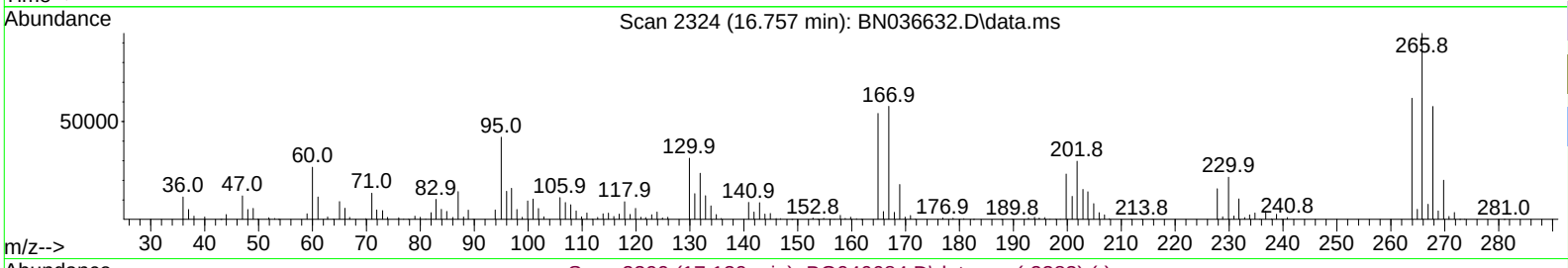
Date	Instrument Name	DFTPP Data File
3/14/2025	BNA_N	BN036632.D
Compound Name	**Response**	**Retention Time**
DDT	477266	20.592
DDD	6330	20.198
DDE	302	19.645
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6632	483898	1.37

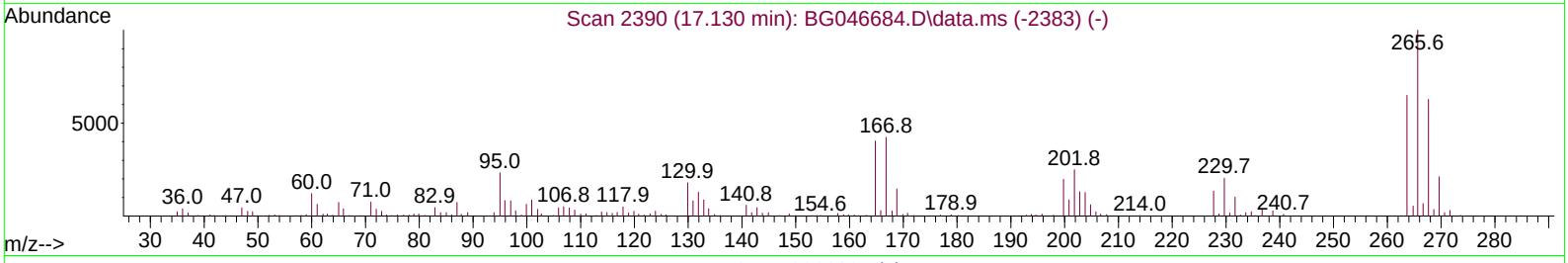
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036632.D
Acq On : 15 Mar 2025 06:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 17 01:20:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 17 01:20:13 2025
Response via : Initial Calibration







TIC: BN036632.D\data.ms

(70) Pentachlorophenol (C)

16.757min (0.000) 18589.43 ng

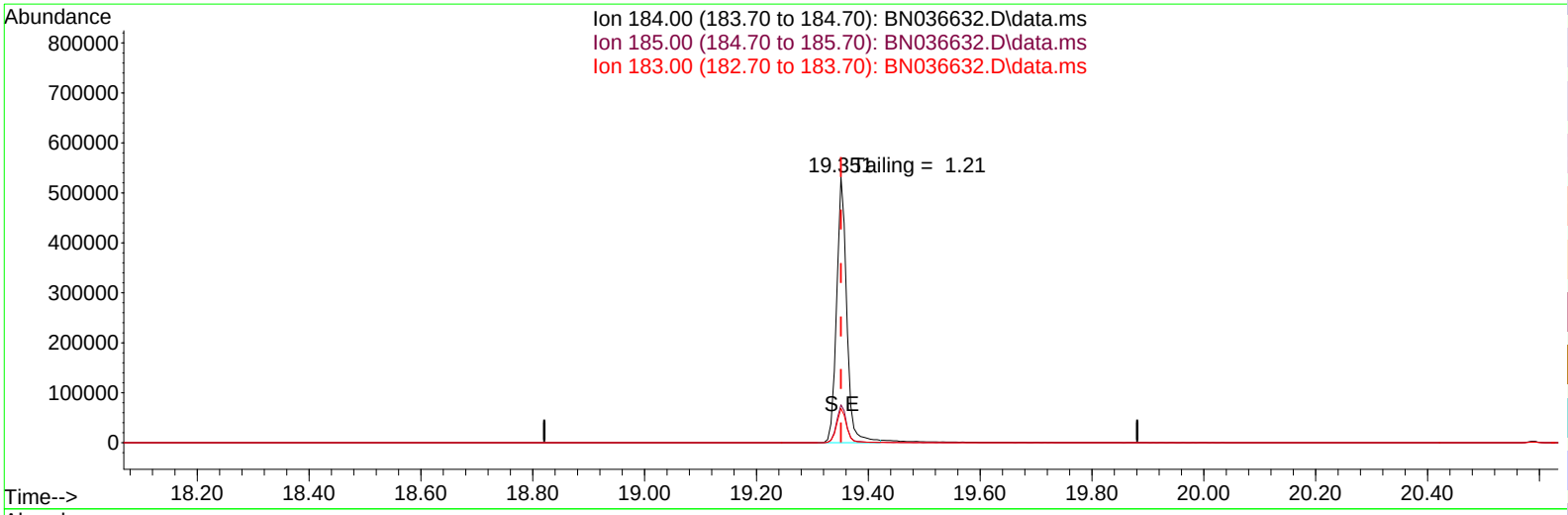
response 130859

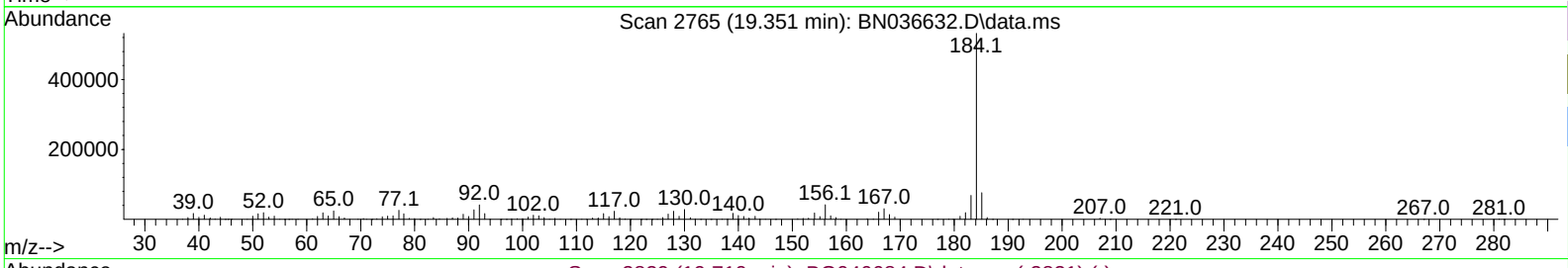
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.74
264.00	61.60	65.13
0.00	0.00	0.00

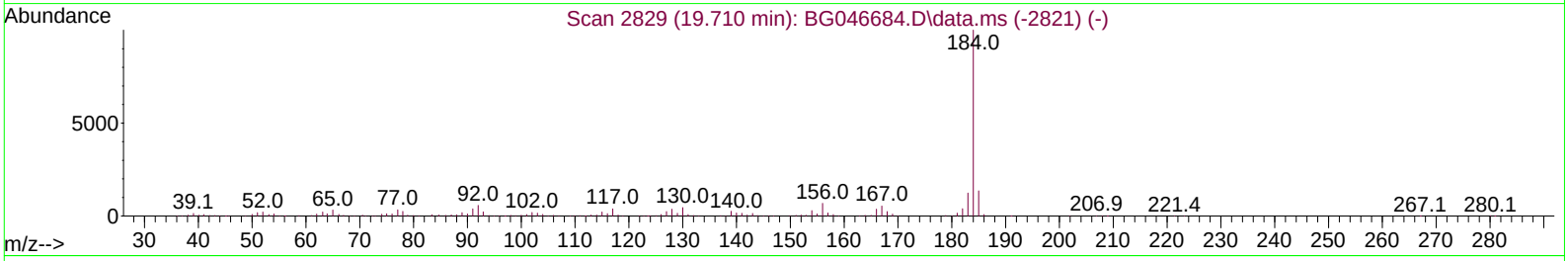
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036632.D
Acq On : 15 Mar 2025 06:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 17 01:20:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 17 01:20:13 2025
Response via : Initial Calibration







TIC: BN036632.D\data.ms

(77) Benzidine

19.351min (0.000) 0.00 ng

response 681752

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.29
183.00	13.20	12.92
0.00	0.00	0.00

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB167128BL	SDG No.:	Q1502
Lab Sample ID:	PB167128BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036634.D	1	03/13/25 12:40	03/15/25 09:11	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	0.15	U	0.15	0.20	ug/L
87-86-5	Pentachlorophenol	0.11	U	0.11	0.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	0.38		10 - 100	94%	SPK: 0.4
13127-88-3	Phenol-d6	0.30		10 - 100	74%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.25		10 - 131	62%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2320	7.717			
1146-65-2	Naphthalene-d8	4860	10.519			
15067-26-2	Acenaphthene-d10	2640	14.366			
1517-22-2	Phenanthrene-d10	4470	17.124			
1719-03-5	Chrysene-d12	2910	21.304			
1520-96-3	Perylene-d12	2590	23.557			

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\BN031425\
Data File : BN036634.D
Acq On : 15 Mar 2025 09:11
Operator : RC/JU
Sample : PB167128BL
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167128BL

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

Quant Time: Mar 17 00:34:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2323	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4860	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2639	0.400	ng	0.00
19) Phenanthrene-d10	17.124	188	4474	0.400	ng	# 0.01
29) Chrysene-d12	21.304	240	2905	0.400	ng	# 0.00
35) Perylene-d12	23.557	264	2592	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2034	0.376	ng	0.00
5) Phenol-d6	6.901	99	1984	0.297	ng	0.00
8) Nitrobenzene-d5	8.896	82	1564	0.296	ng	0.02
11) 2-Methylnaphthalene-d10	12.131	152	2134	0.295	ng	0.02
14) 2,4,6-Tribromophenol	15.882	330	294	0.246	ng	0.02
15) 2-Fluorobiphenyl	13.008	172	3793m	0.247	ng	0.02
27) Fluoranthene-d10	19.150	212	4087	0.356	ng	0.00
31) Terphenyl-d14	19.749	244	2553	0.367	ng	0.00
Target Compounds						Qvalue

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

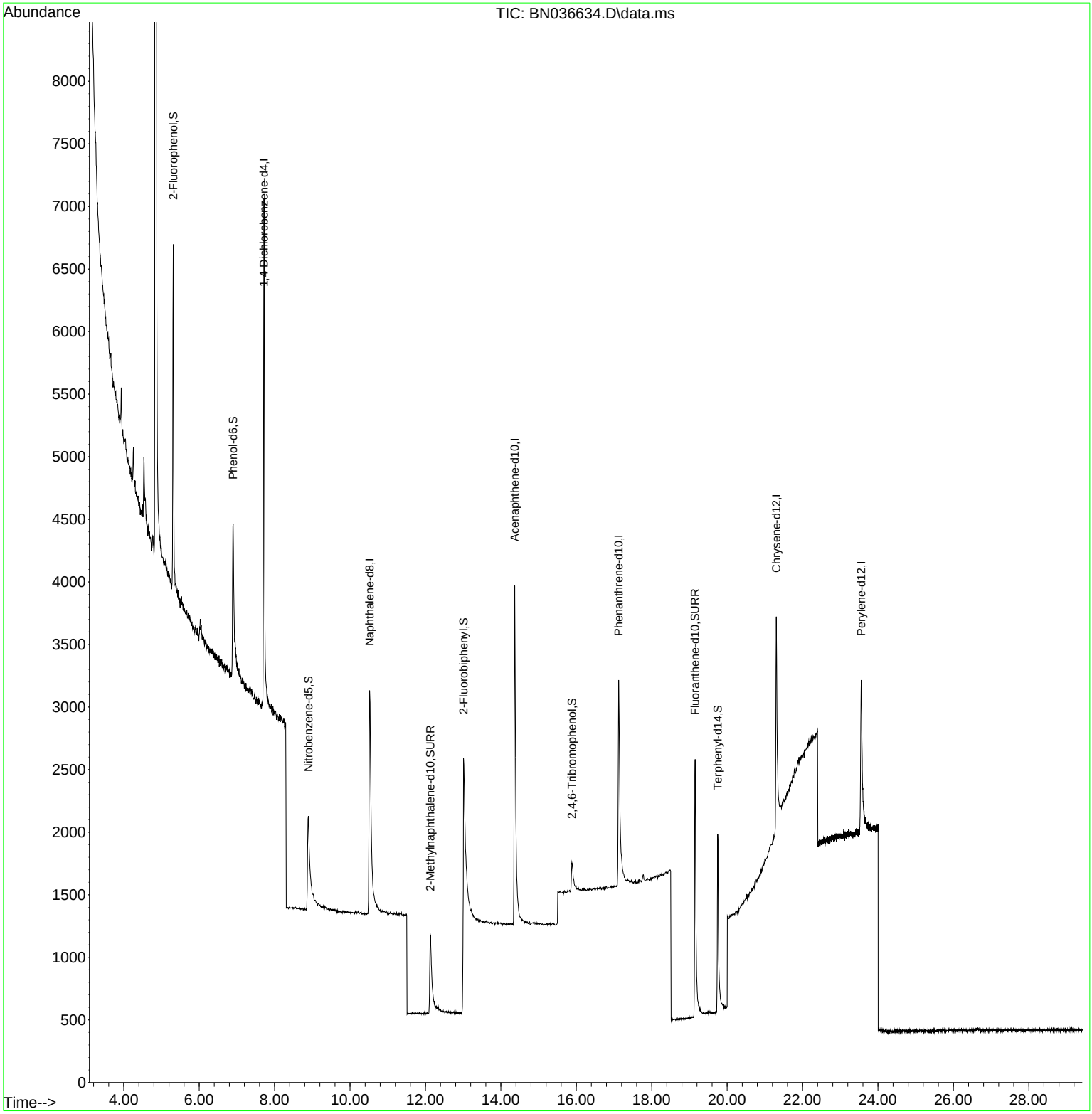
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036634.D
Acq On : 15 Mar 2025 09:11
Operator : RC/JU
Sample : PB167128BL
Misc :
ALS Vial : 28 Sample Multiplier: 1

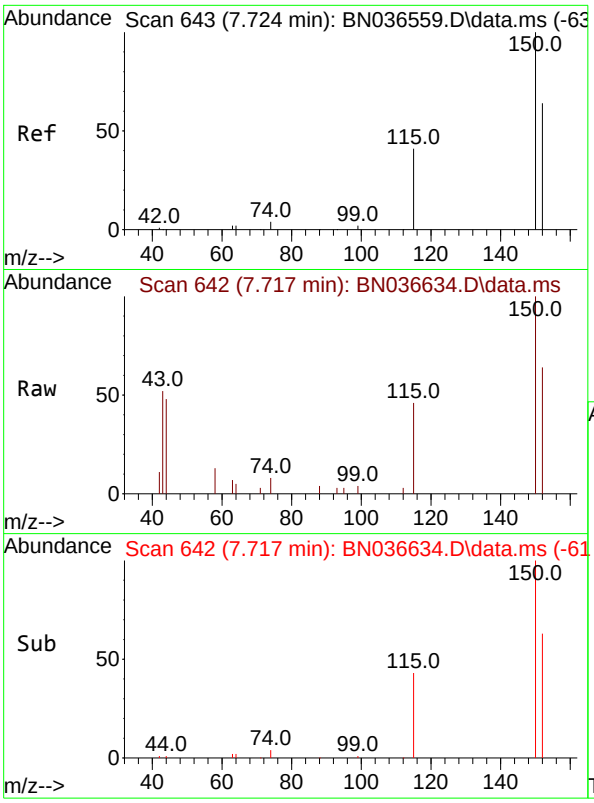
Quant Time: Mar 17 00:34:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167128BL

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

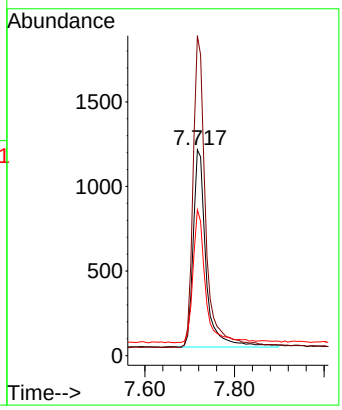




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:152 Resp: 232

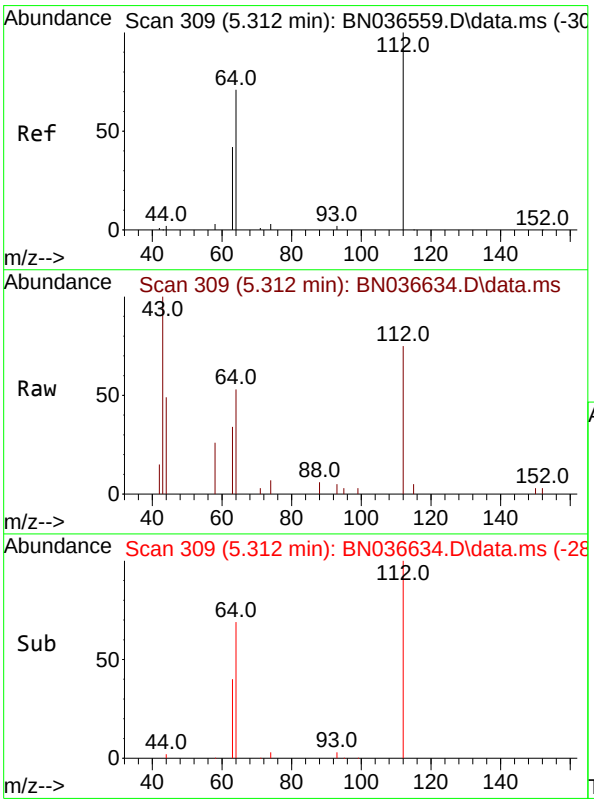
Ion	Ratio	Lower	Upper
152	100		
150	155.4	123.7	185.5
115	70.8	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
PB167128BL

Manual Integrations
APPROVED

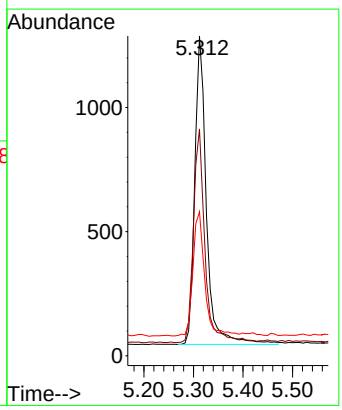
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

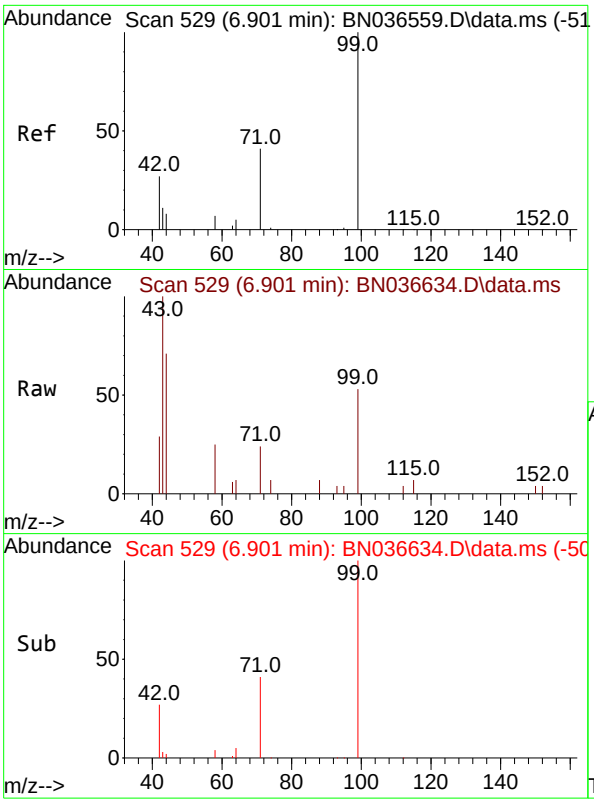


#4
2-Fluorophenol
Concen: 0.376 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:112 Resp: 2034

Ion	Ratio	Lower	Upper
112	100		
64	68.0	53.1	79.7
63	40.6	31.8	47.8

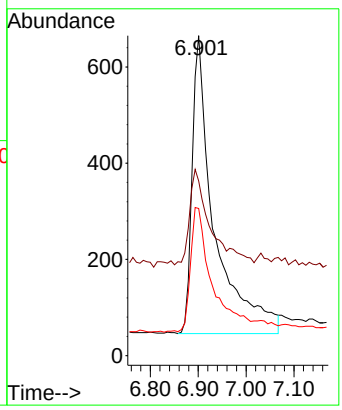




#5
Phenol-d6
Concen: 0.297 ng
RT: 6.901 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion: 99 Resp: 198

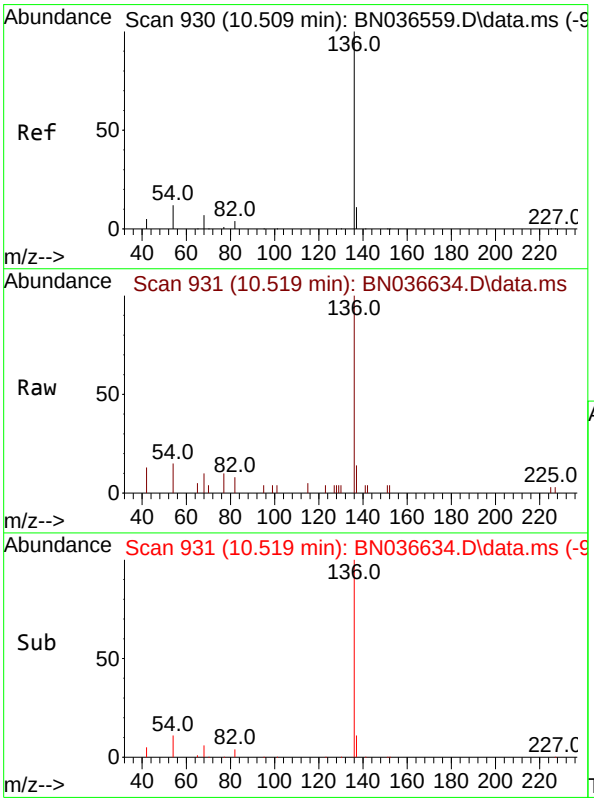
Ion	Ratio	Lower	Upper
99	100		
42	29.9	26.5	39.7
71	41.4	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
PB167128BL

Manual Integrations
APPROVED

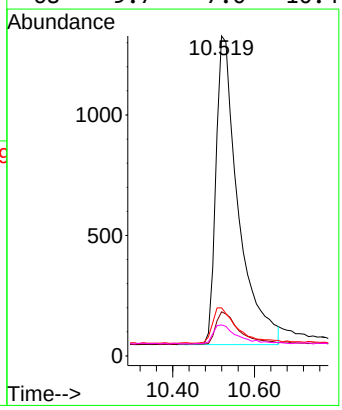
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

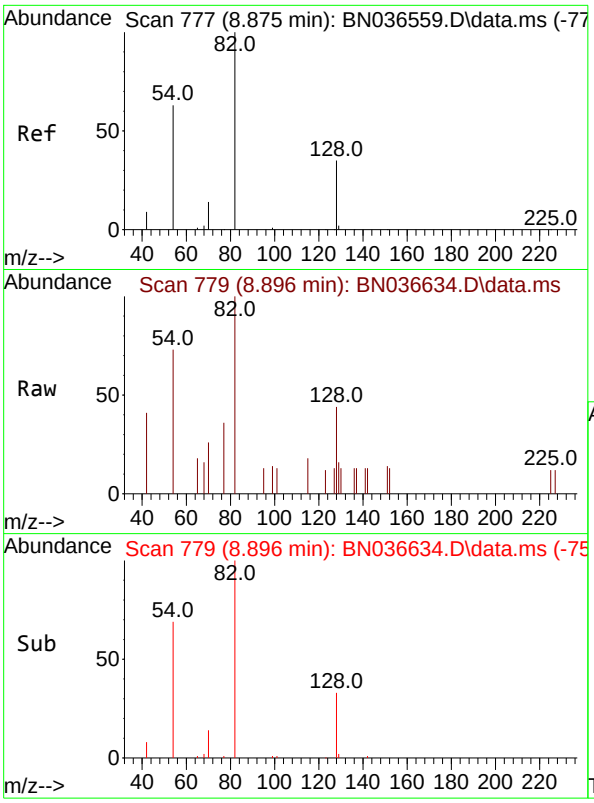


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 931
Delta R.T. 0.011 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:136 Resp: 4860

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	15.1	11.5	17.3
68	9.7	7.0	10.4

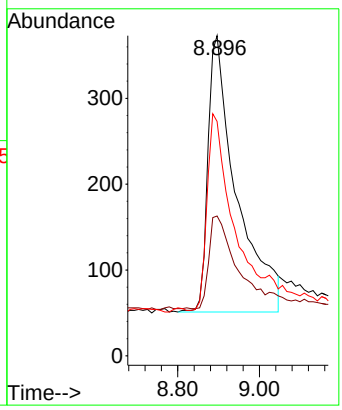




#8
Nitrobenzene-d5
Concen: 0.296 ng
RT: 8.896 min Scan# 7
Delta R.T. 0.021 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion: 82 Resp: 156

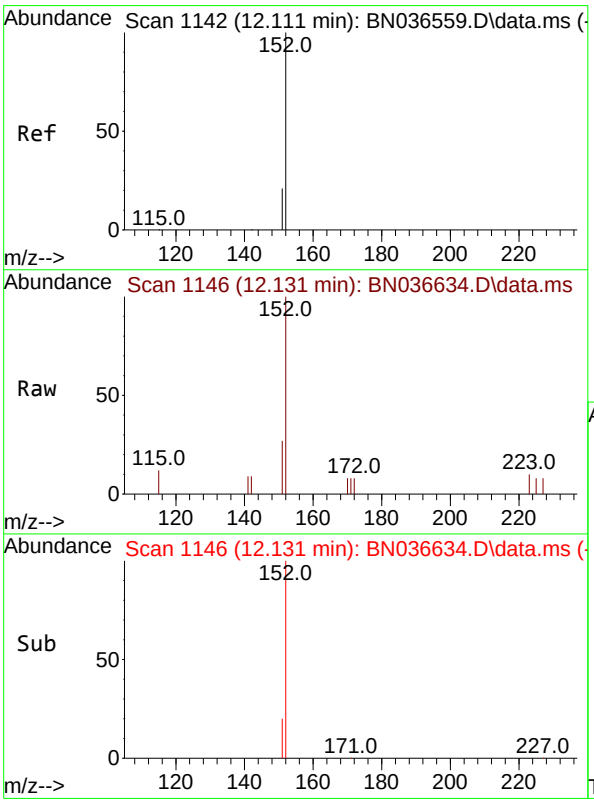
Ion	Ratio	Lower	Upper
82	100		
128	43.7	30.6	45.8
54	73.2	52.2	78.4



Instrument :
BNA_N
ClientSampleId :
PB167128BL

Manual Integrations
APPROVED

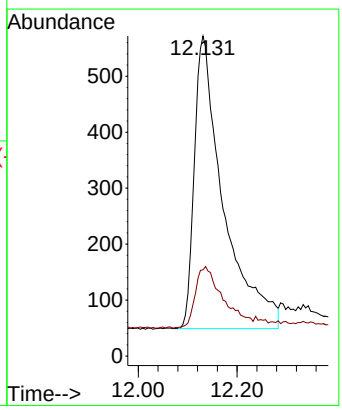
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

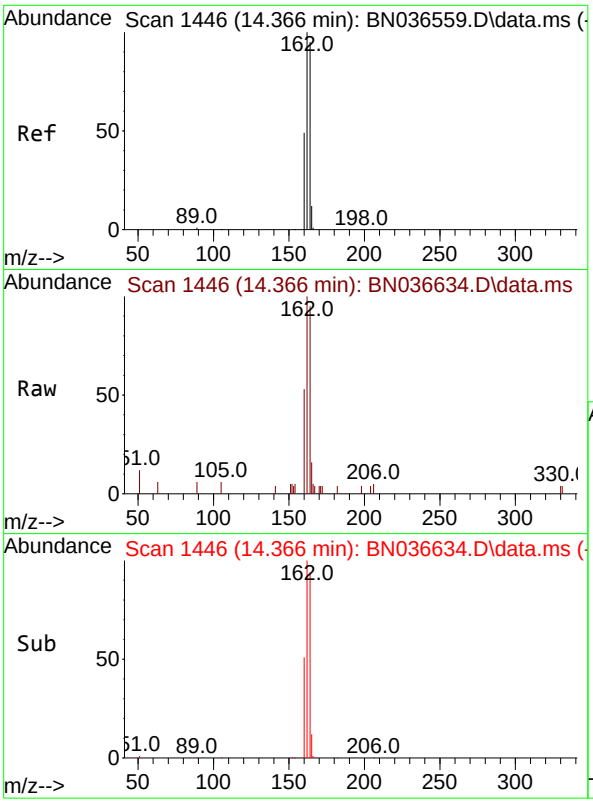


#11
2-Methylnaphthalene-d10
Concen: 0.295 ng
RT: 12.131 min Scan# 1146
Delta R.T. 0.020 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:152 Resp: 2134

Ion	Ratio	Lower	Upper
152	100		
151	20.3	17.0	25.6

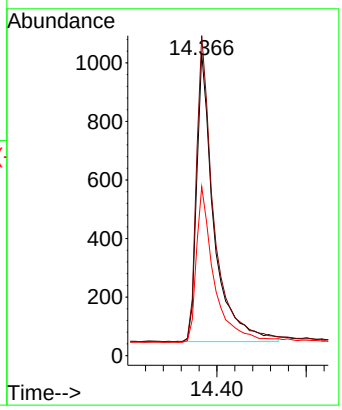




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:164 Resp: 263

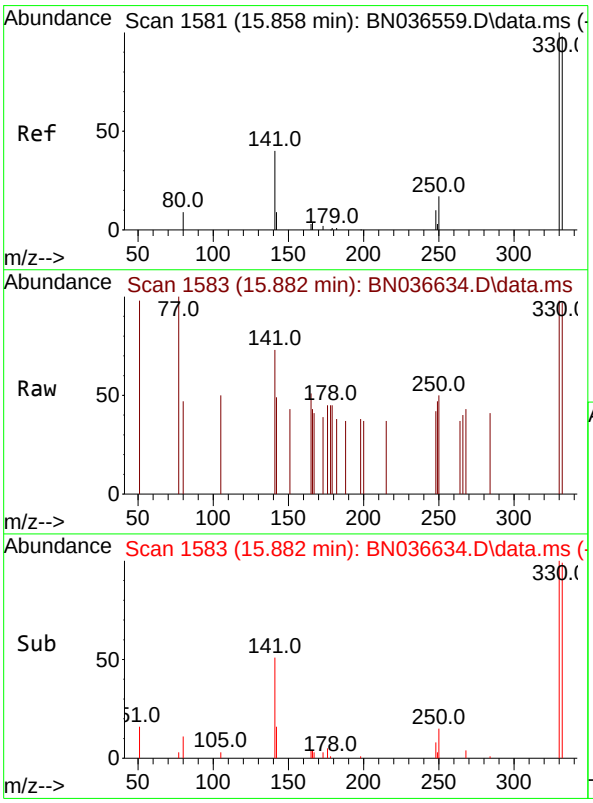
Ion	Ratio	Lower	Upper
164	100		
162	105.8	84.2	126.2
160	55.9	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
PB167128BL

Manual Integrations APPROVED

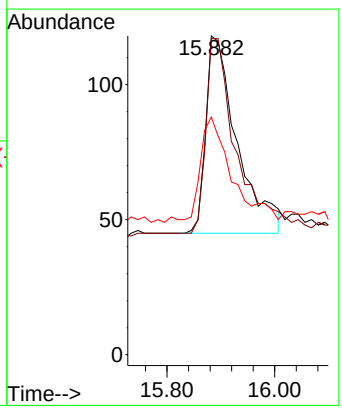
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

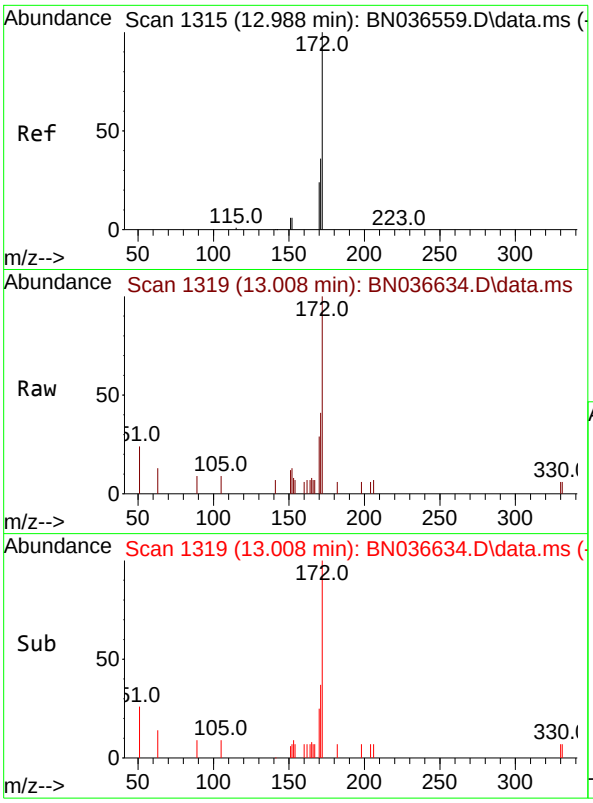


#14
2,4,6-Tribromophenol
Concen: 0.246 ng
RT: 15.882 min Scan# 1583
Delta R.T. 0.025 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:330 Resp: 294

Ion	Ratio	Lower	Upper
330	100		
332	94.6	75.2	112.8
141	54.4	43.4	65.2

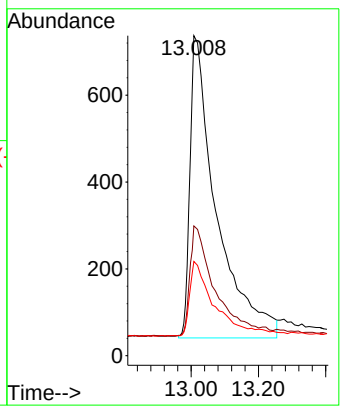




#15
2-Fluorobiphenyl
Concen: 0.247 ng m
RT: 13.008 min Scan# 1
Delta R.T. 0.020 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:172 Resp: 379

Ion	Ratio	Lower	Upper
172	100		
171	40.6	29.5	44.3
170	29.4	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
PB167128BL

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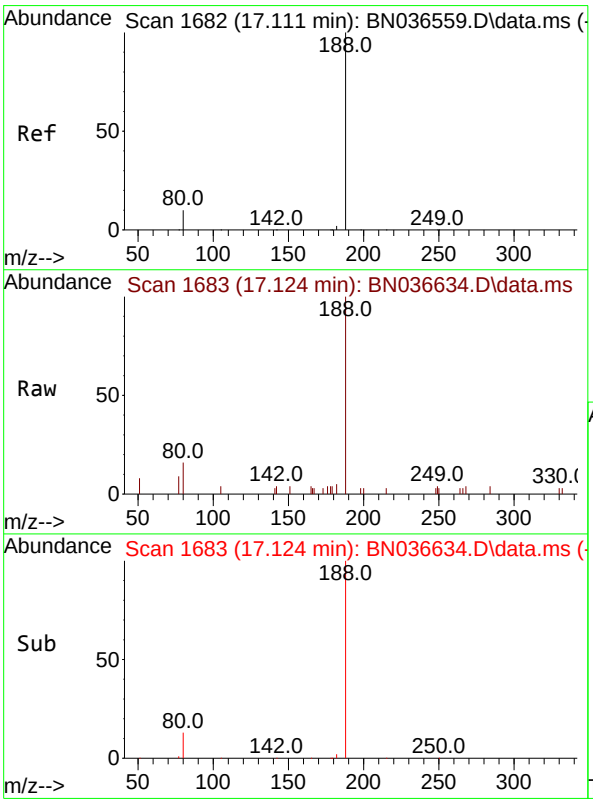
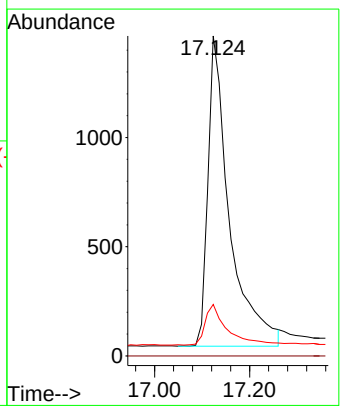
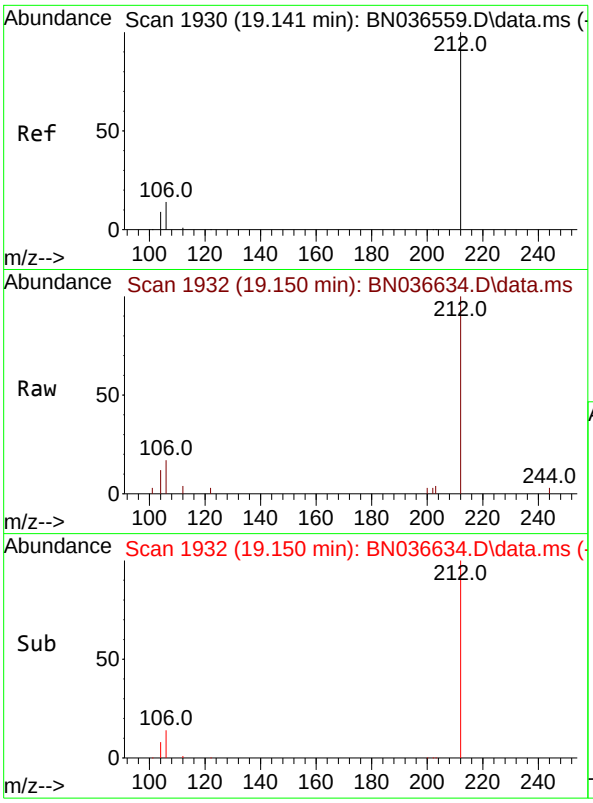


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.012 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:188 Resp: 4474

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.1	8.8	13.2#

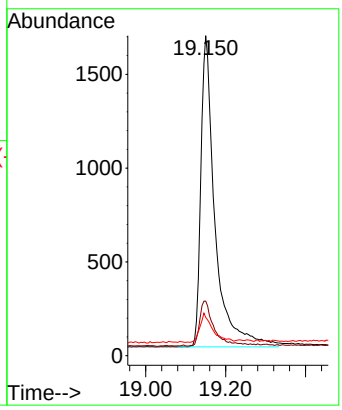




#27
Fluoranthene-d10
Concen: 0.356 ng
RT: 19.150 min Scan# 1
Delta R.T. 0.009 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:212 Resp: 408

Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.8	17.6
104	8.3	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
PB167128BL

Manual Integrations
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Reviewed By :Anahy Claudio 03/17/2025
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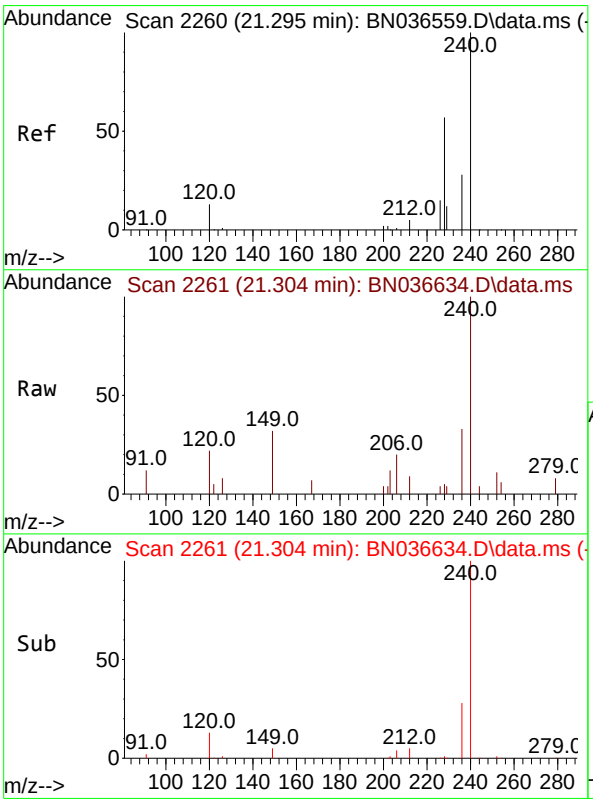
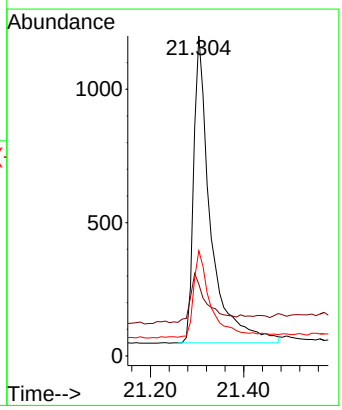
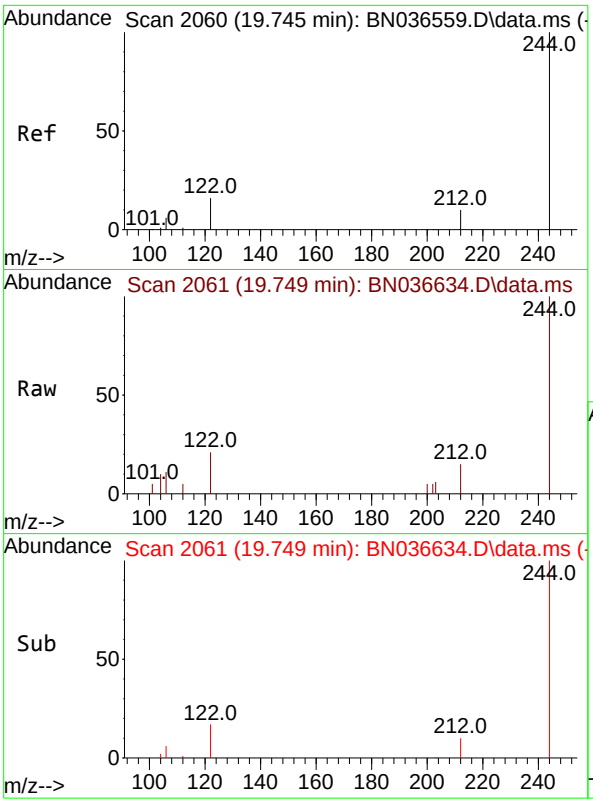


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.009 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:240 Resp: 2905

Ion	Ratio	Lower	Upper
240	100		
120	22.4	14.6	22.0#
236	32.8	24.1	36.1

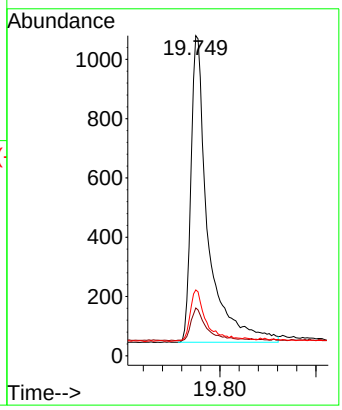




#31
Terphenyl-d14
Concen: 0.367 ng
RT: 19.749 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:244 Resp: 255

Ion	Ratio	Lower	Upper
244	100		
212	14.9	9.6	14.4#
122	20.6	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
PB167128BL

Manual Integrations
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Reviewed By :Anahy Claudio 03/17/2025
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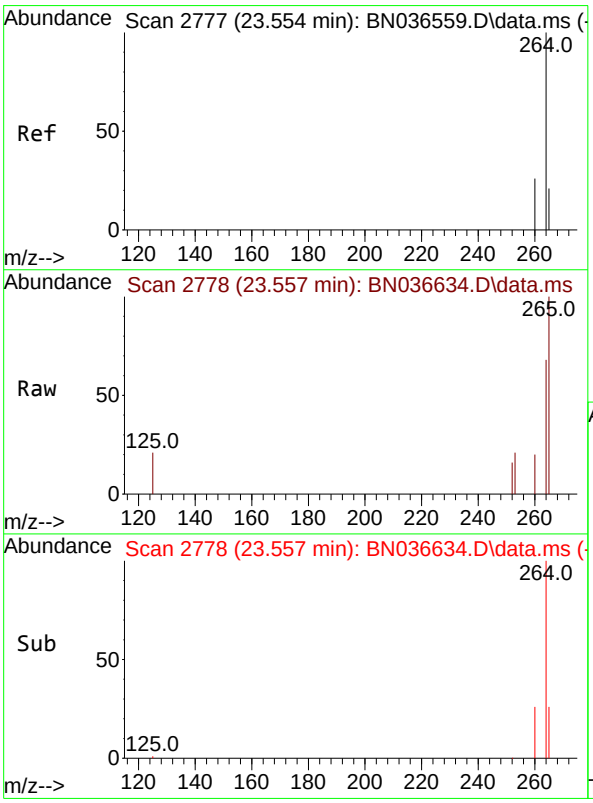
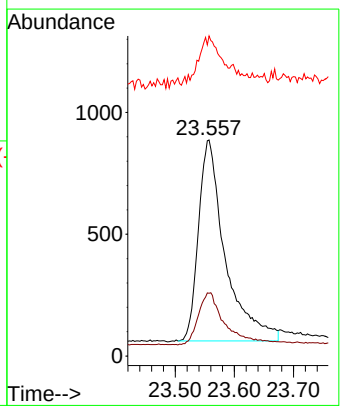


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 2778
Delta R.T. 0.003 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:264 Resp: 2592

Ion	Ratio	Lower	Upper
264	100		
260	29.1	22.6	33.8
265	148.1	88.1	132.1#



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB167128BS	SDG No.:	Q1502
Lab Sample ID:	PB167128BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036630.D	1	03/13/25 12:40	03/15/25 05:28	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	0.37		0.15	0.20	ug/L
87-86-5	Pentachlorophenol	0.45		0.11	0.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	0.38		10 - 100	94%	SPK: 0.4
13127-88-3	Phenol-d6	0.35		10 - 100	88%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.23		10 - 131	58%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2540	7.717			
1146-65-2	Naphthalene-d8	5900	10.509			
15067-26-2	Acenaphthene-d10	2990	14.356			
1517-22-2	Phenanthrene-d10	5080	17.099			
1719-03-5	Chrysene-d12	2790	21.295			
1520-96-3	Perylene-d12	2520	23.546			

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\BN031425\
Data File : BN036630.D
Acq On : 15 Mar 2025 05:28
Operator : RC/JU
Sample : PB167128BS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 15 05:53:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167128BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2536	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5899	0.400	ng	# 0.00
13) Acenaphthene-d10	14.356	164	2985	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5084	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2789	0.400	ng	0.00
35) Perylene-d12	23.546	264	2522	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2233	0.378	ng	0.00
5) Phenol-d6	6.894	99	2587	0.354	ng	0.00
8) Nitrobenzene-d5	8.865	82	2156	0.336	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	3138m	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	315	0.233	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	6832	0.393	ng	0.00
27) Fluoranthene-d10	19.137	212	4224	0.324	ng	0.00
31) Terphenyl-d14	19.745	244	2825	0.423	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.240	88	1001	0.356	ng	# 3
3) n-Nitrosodimethylamine	3.550	42	2198	0.386	ng	97
6) bis(2-Chloroethyl)ether	7.147	93	2774	0.368	ng	98
9) Naphthalene	10.552	128	6484	0.374	ng	99
10) Hexachlorobutadiene	10.840	225	1584	0.388	ng	# 98
12) 2-Methylnaphthalene	12.172	142	4087	0.370	ng	99
16) Acenaphthylene	14.078	152	5990	0.425	ng	100
17) Acenaphthene	14.420	154	3723	0.404	ng	99
18) Fluorene	15.414	166	4636	0.372	ng	98
20) 4,6-Dinitro-2-methylph...	15.510	198	292	0.371	ng	93
21) 4-Bromophenyl-phenylether	16.305	248	1320	0.414	ng	90
22) Hexachlorobenzene	16.416	284	1711	0.445	ng	97
23) Atrazine	16.578	200	1041	0.408	ng	97
24) Pentachlorophenol	16.764	266	795	0.453	ng	99
25) Phenanthrene	17.149	178	6384	0.419	ng	99
26) Anthracene	17.236	178	5840	0.424	ng	99
28) Fluoranthene	19.169	202	6217	0.363	ng	99
30) Pyrene	19.531	202	6327	0.464	ng	99
32) Benzo(a)anthracene	21.277	228	3798	0.392	ng	98
33) Chrysene	21.331	228	4792	0.452	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	2402m	0.348	ng	
36) Indeno(1,2,3-cd)pyrene	25.823	276	4361	0.479	ng	# 85
37) Benzo(b)fluoranthene	22.867	252	3496	0.381	ng	95
38) Benzo(k)fluoranthene	22.911	252	4099m	0.426	ng	
39) Benzo(a)pyrene	23.446	252	3473	0.449	ng	95
40) Dibenzo(a,h)anthracene	25.852	278	3336	0.471	ng	95
41) Benzo(g,h,i)perylene	26.516	276	3628	0.448	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036630.D
Acq On : 15 Mar 2025 05:28
Operator : RC/JU
Sample : PB167128BS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 15 05:53:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167128BS

Manual Integrations APPROVED

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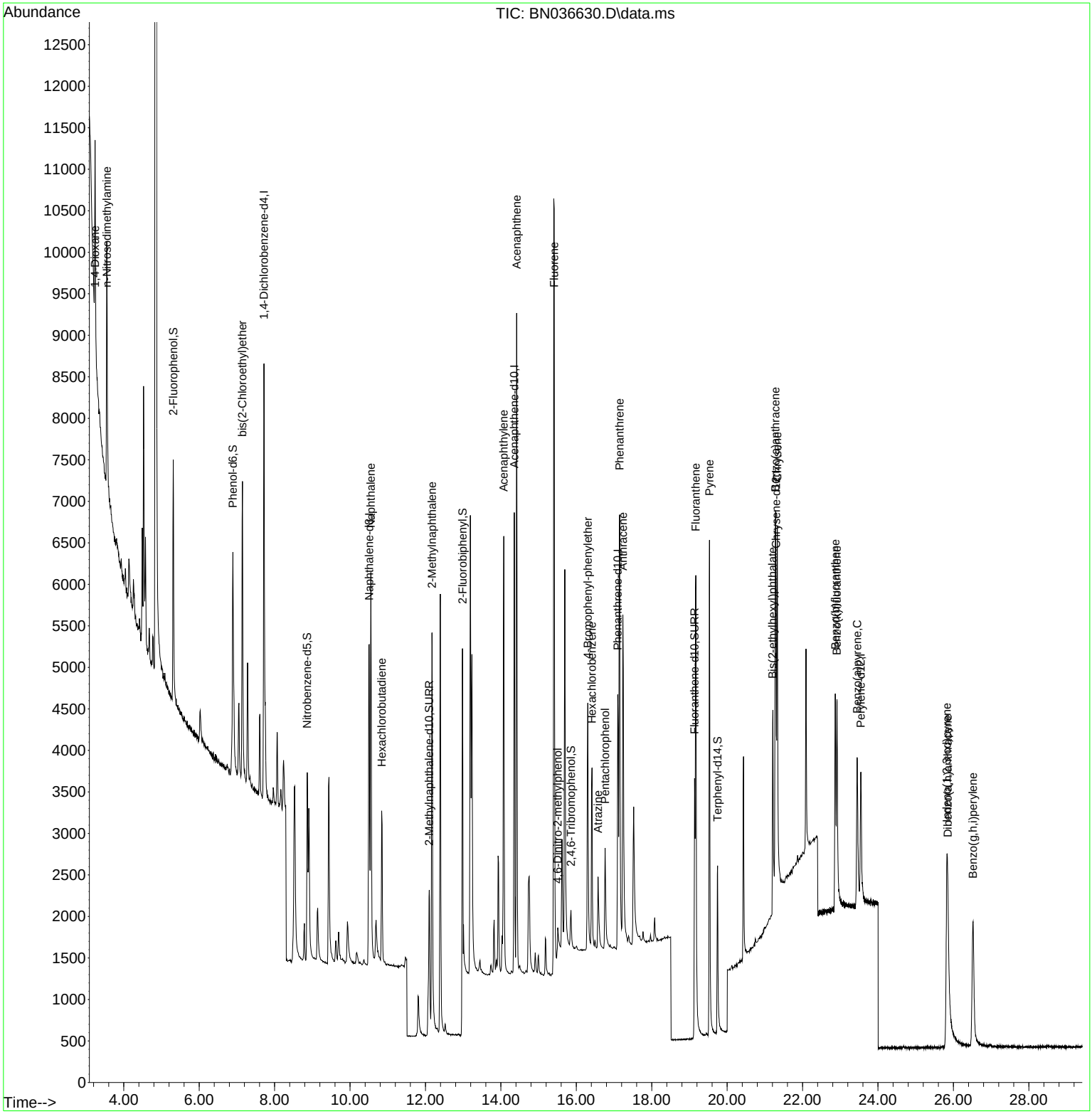
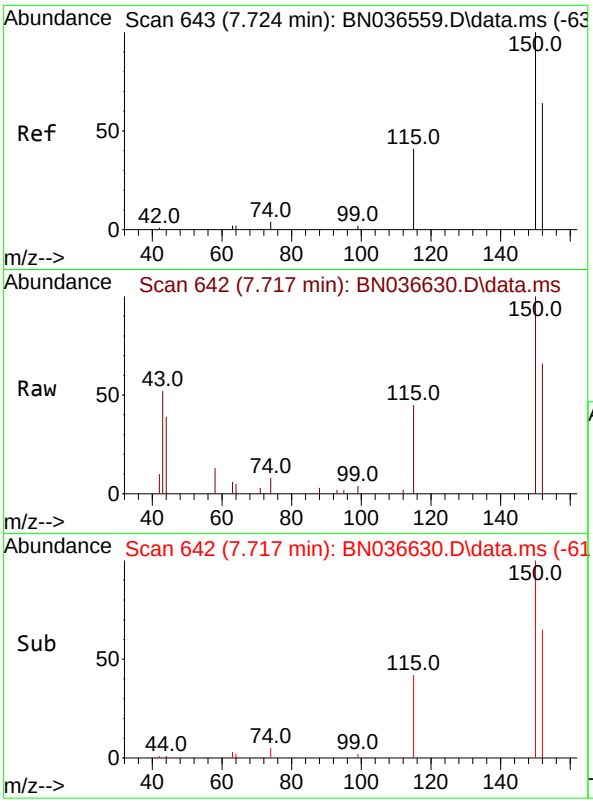
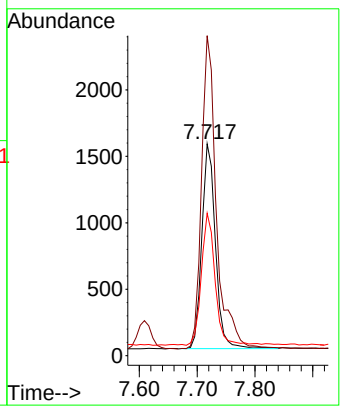




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:152 Resp: 253

Ion	Ratio	Lower	Upper
152	100		
150	151.1	123.7	185.5
115	67.3	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
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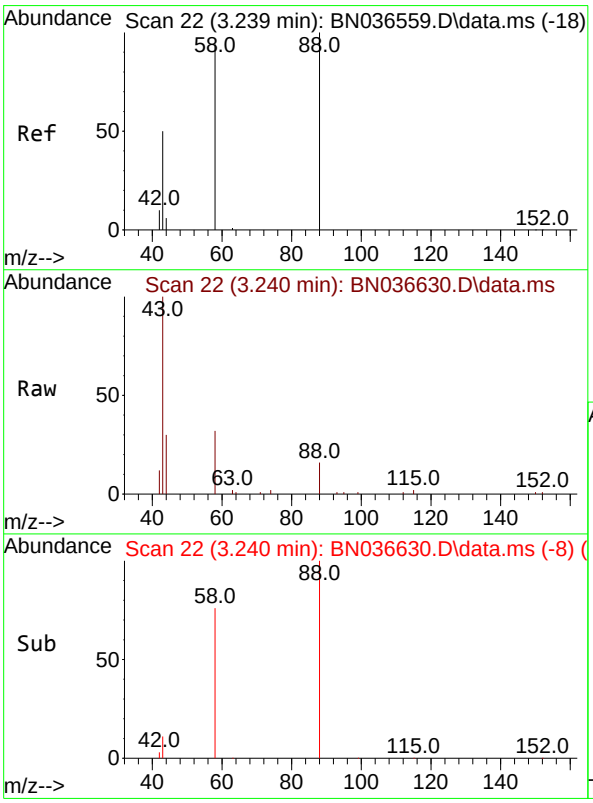
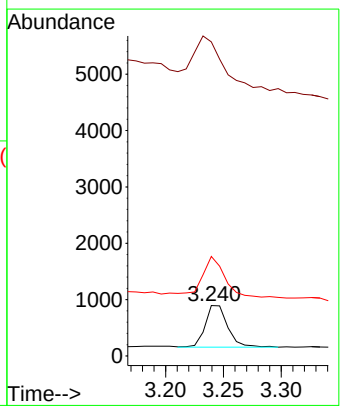
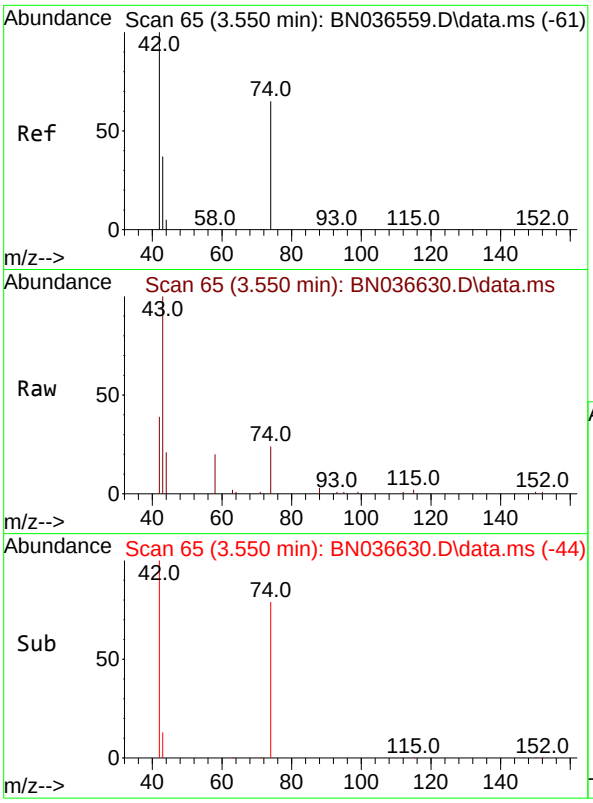


#2
1,4-Dioxane
Concen: 0.356 ng
RT: 3.240 min Scan# 22
Delta R.T. 0.001 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion: 88 Resp: 1001

Ion	Ratio	Lower	Upper
88	100		
43	202.6	37.8	56.8#
58	103.5	67.4	101.2#

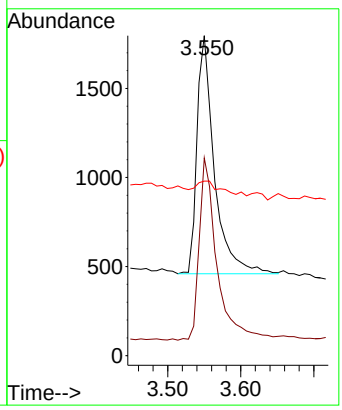




#3
n-Nitrosodimethylamine
Concen: 0.386 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion: 42 Resp: 219

Ion	Ratio	Lower	Upper
42	100		
74	78.2	60.6	90.8
44	8.7	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
PB167128BS

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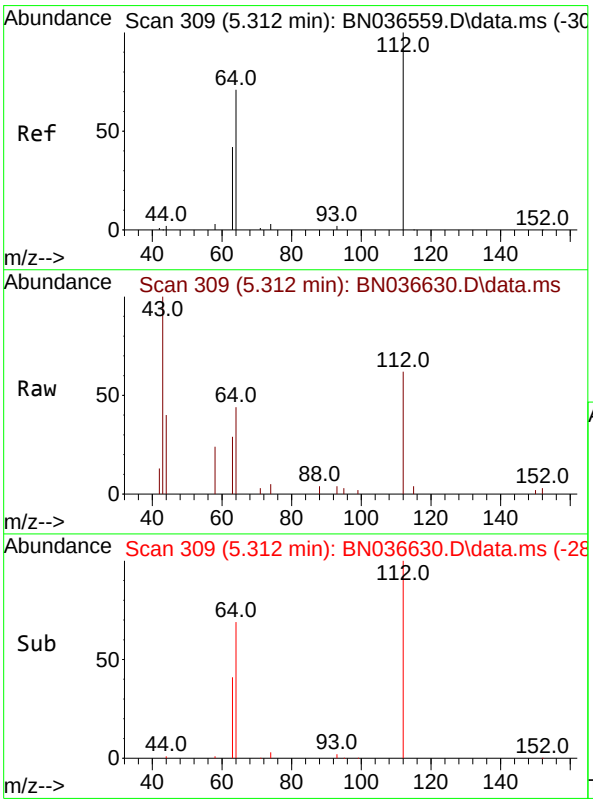
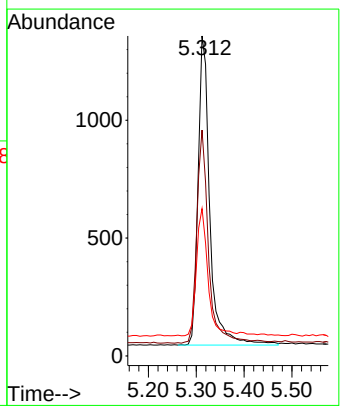
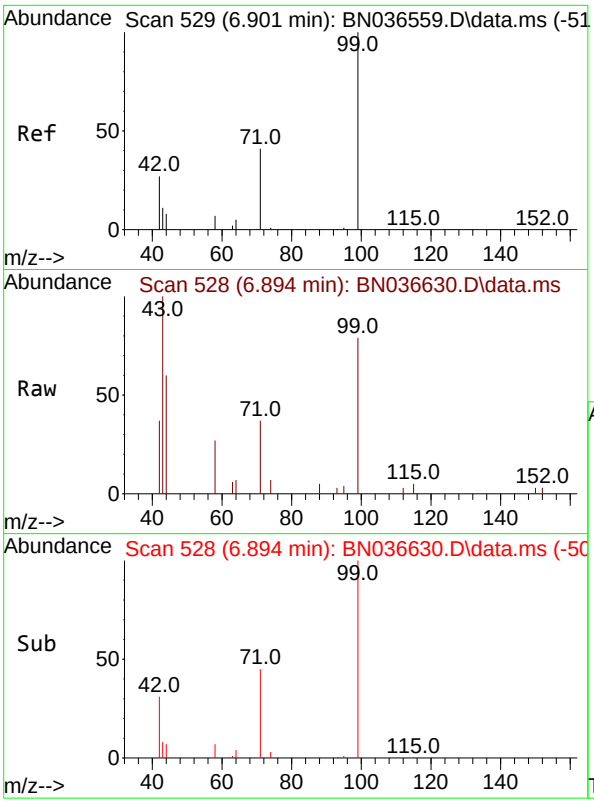


#4
2-Fluorophenol
Concen: 0.378 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:112 Resp: 2233

Ion	Ratio	Lower	Upper
112	100		
64	68.7	53.1	79.7
63	40.3	31.8	47.8

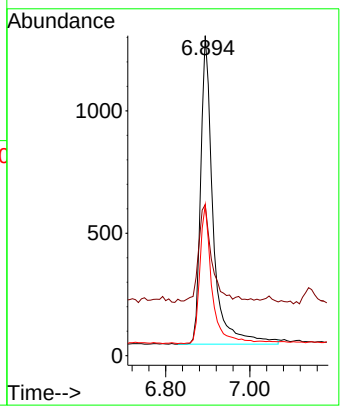




#5
Phenol-d6
Concen: 0.354 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion: 99 Resp: 258

Ion	Ratio	Lower	Upper
99	100		
42	35.2	26.5	39.7
71	43.5	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
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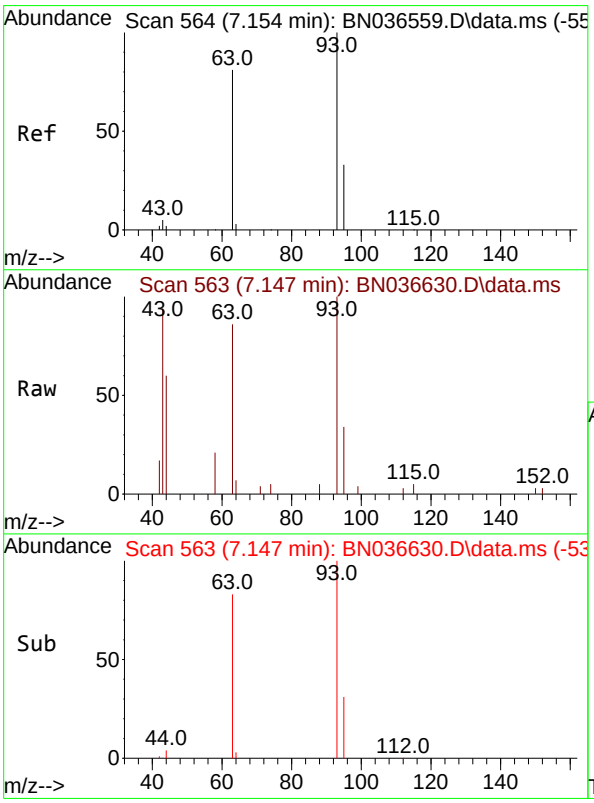
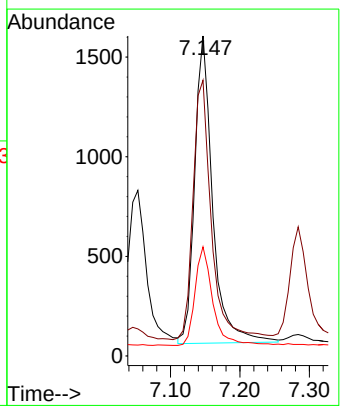
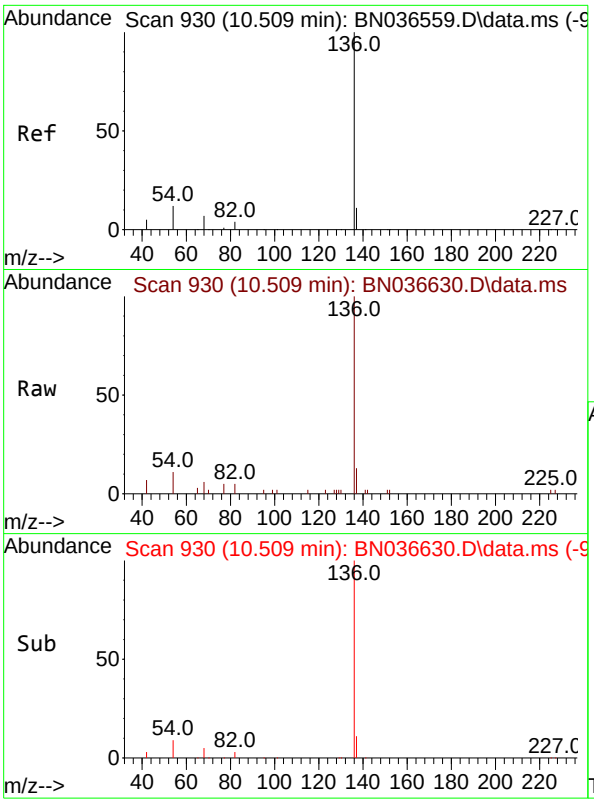


#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion: 93 Resp: 2774

Ion	Ratio	Lower	Upper
93	100		
63	86.8	67.7	101.5
95	31.8	25.6	38.4

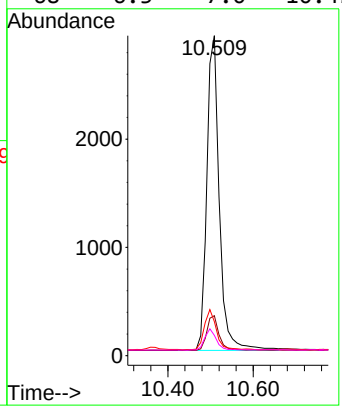




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:136 Resp: 589

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	10.6	11.5	17.3#
68	6.3	7.0	10.4#



Instrument :
BNA_N
ClientSampleId :
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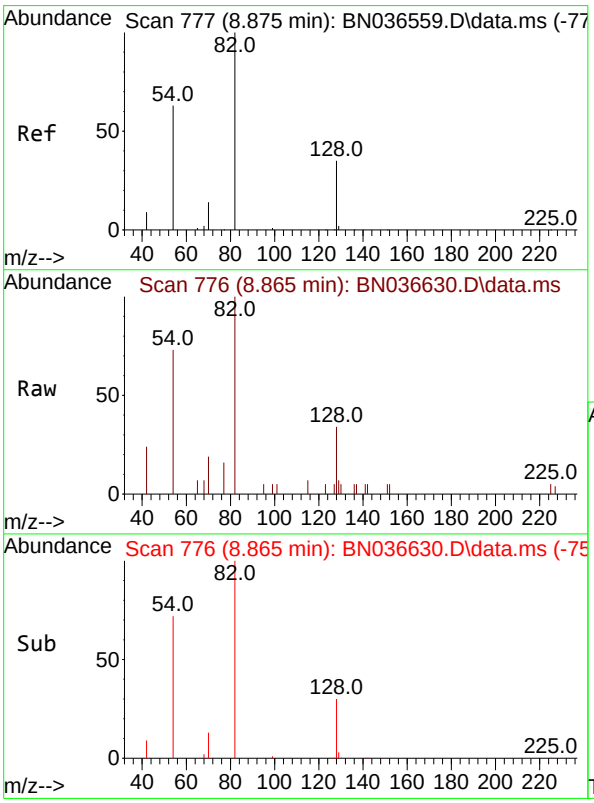
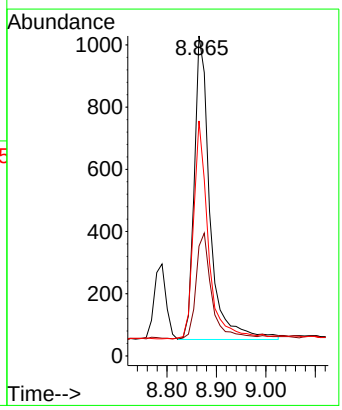
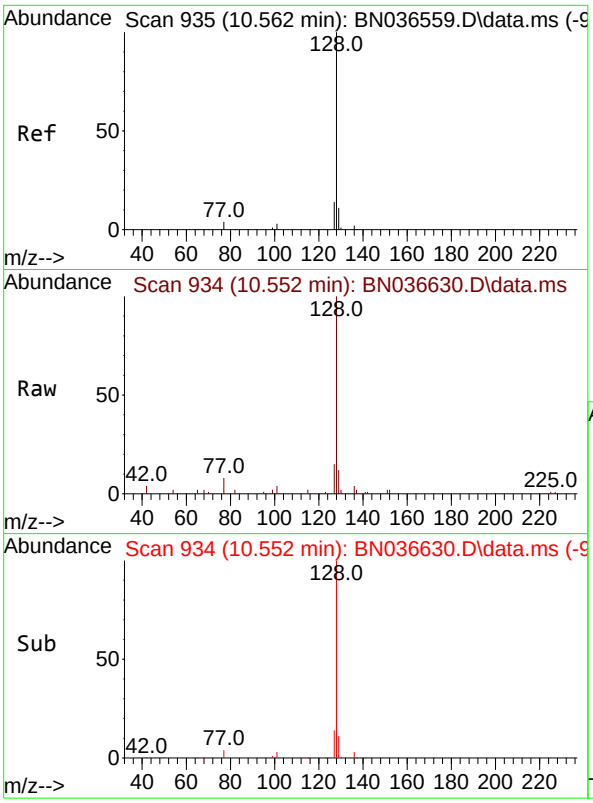


#8
Nitrobenzene-d5
Concen: 0.336 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion: 82 Resp: 2156

Ion	Ratio	Lower	Upper
82	100		
128	34.3	30.6	45.8
54	73.5	52.2	78.4

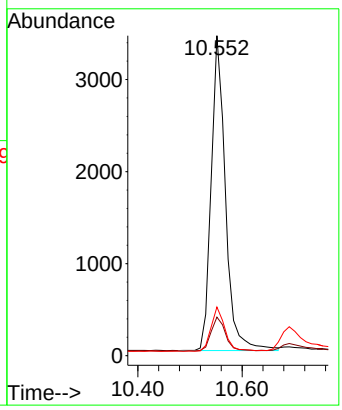




#9
Naphthalene
Concen: 0.374 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:128 Resp: 648

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	15.2	11.8	17.8



Instrument :
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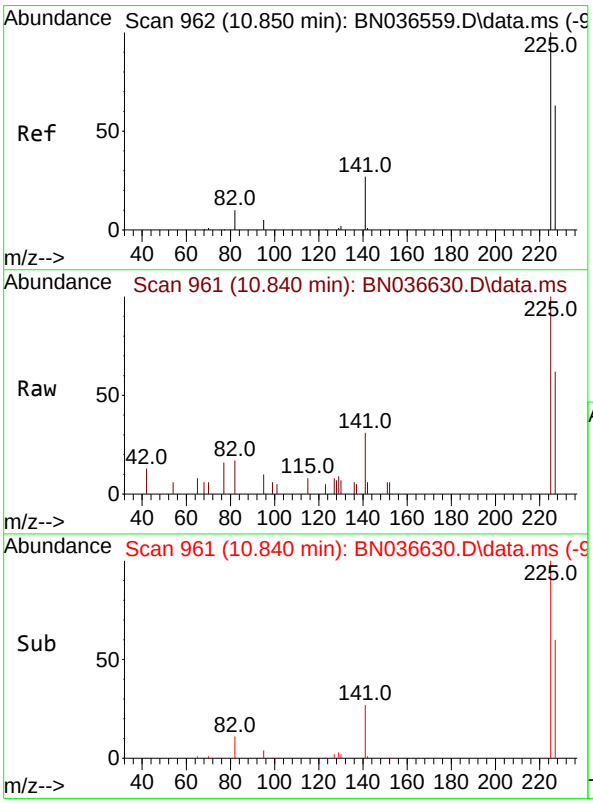
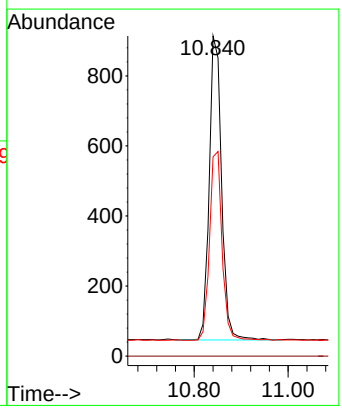
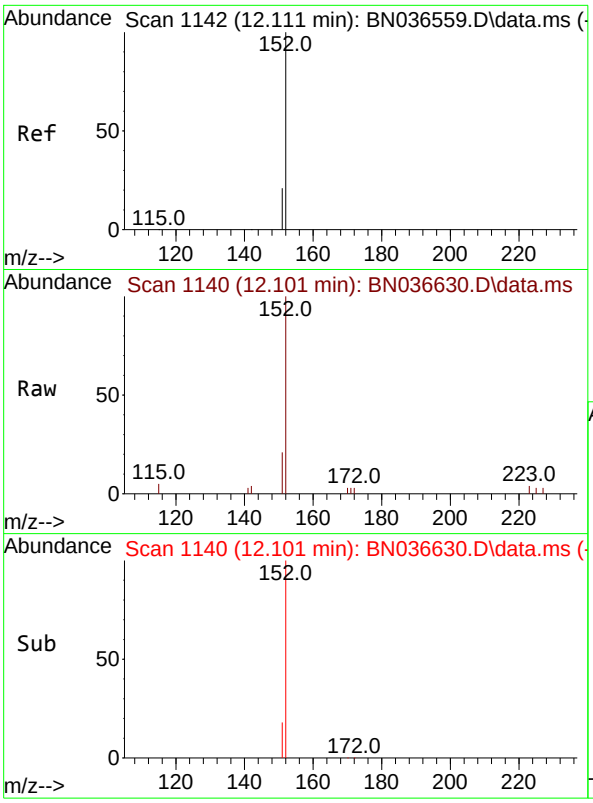


#10
Hexachlorobutadiene
Concen: 0.388 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:225 Resp: 1584

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	51.8	77.8

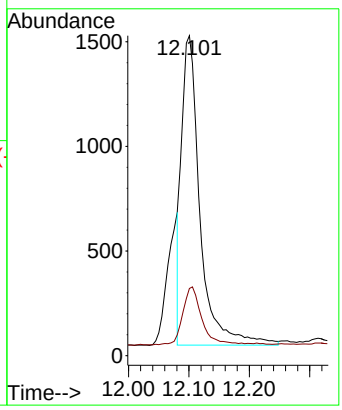




#11
2-Methylnaphthalene-d10
Concen: 0.358 ng m
RT: 12.101 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:152 Resp: 313

Ion	Ratio	Lower	Upper
152	100		
151	19.4	17.0	25.6



Instrument :
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ClientSampleId :
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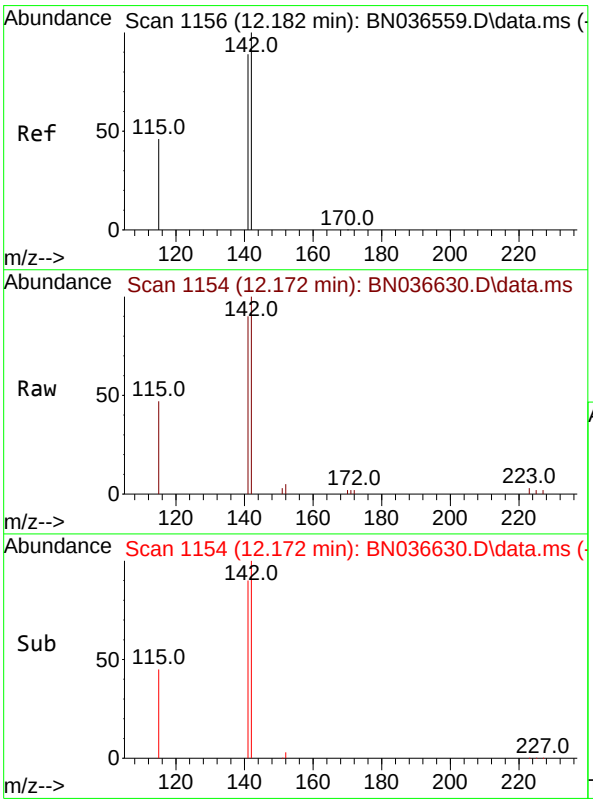
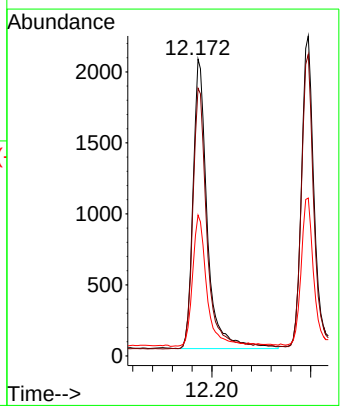
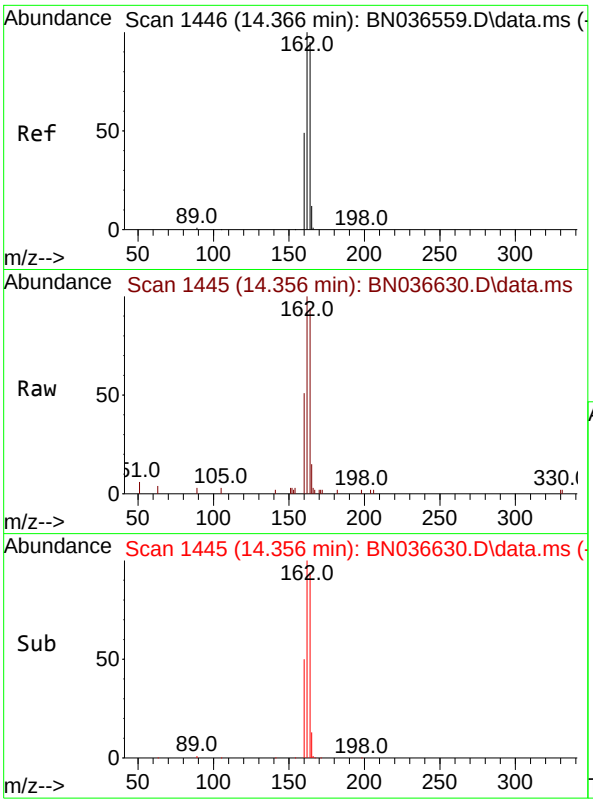


#12
2-Methylnaphthalene
Concen: 0.370 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:142 Resp: 4087

Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.7	107.5
115	47.4	38.3	57.5

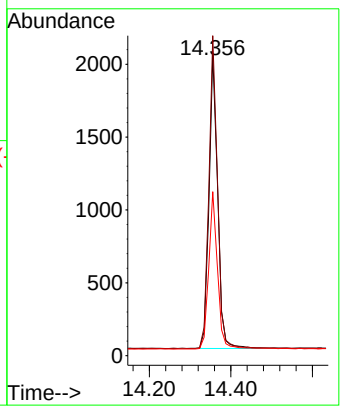




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:164 Resp: 298

Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.2	126.2
160	54.5	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
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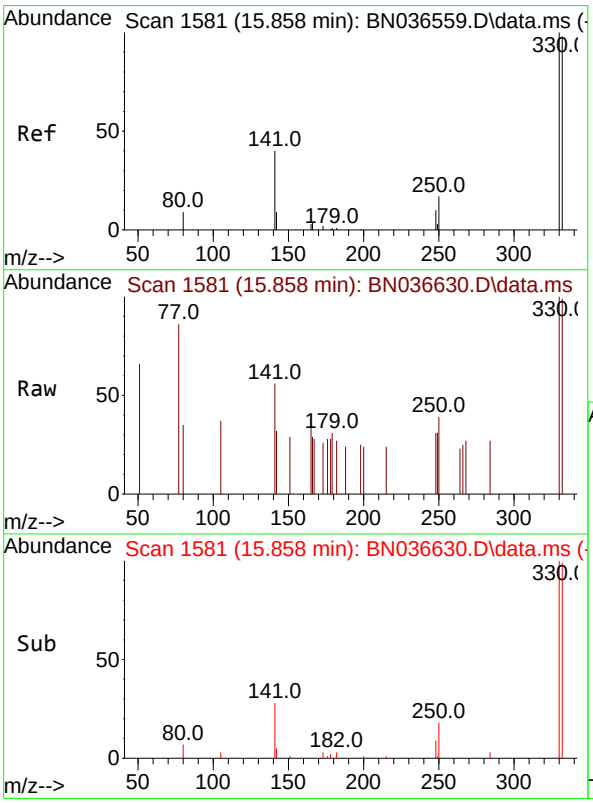
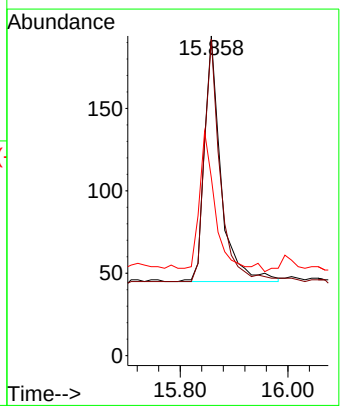
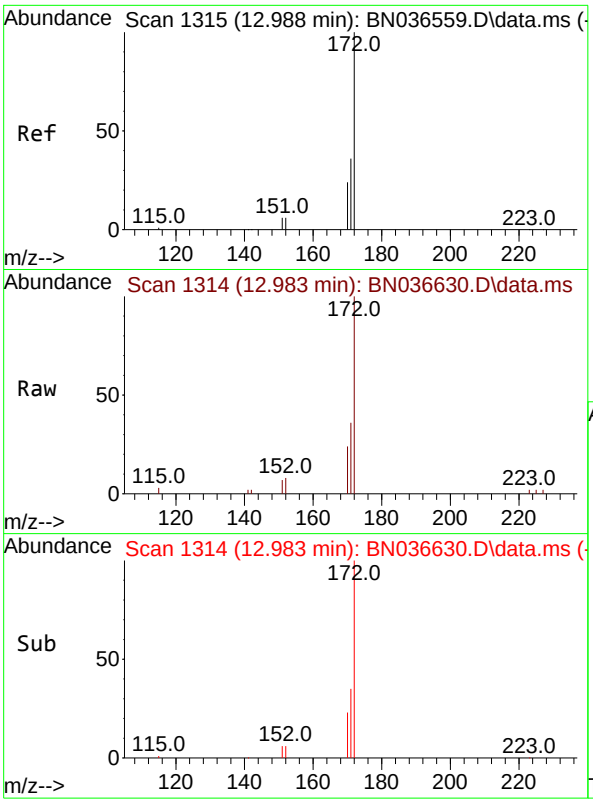


#14
2,4,6-Tribromophenol
Concen: 0.233 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:330 Resp: 315

Ion	Ratio	Lower	Upper
330	100		
332	94.9	75.2	112.8
141	56.2	43.4	65.2

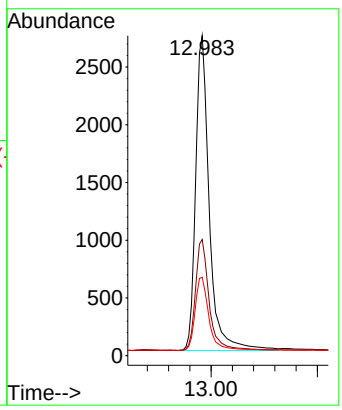




#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:172 Resp: 683

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.5	44.3
170	24.5	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
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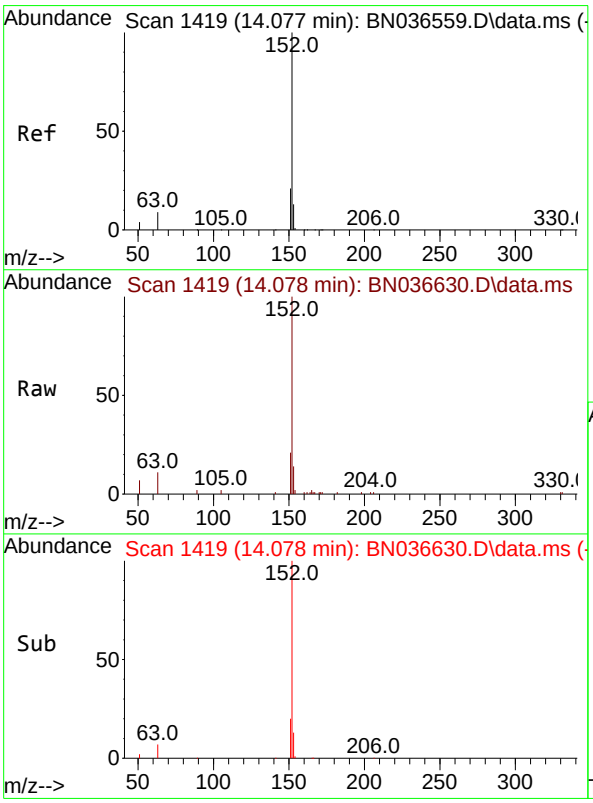
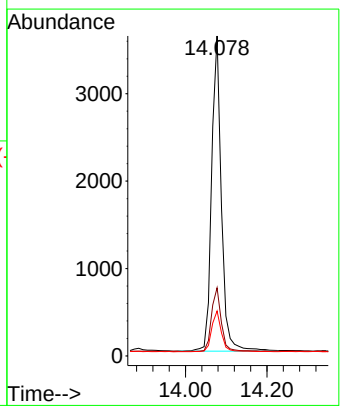
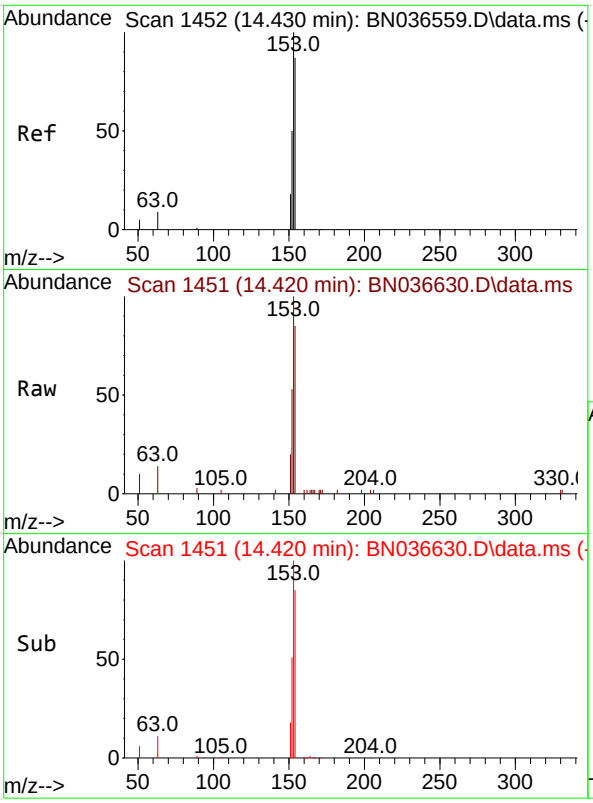


#16
Acenaphthylene
Concen: 0.425 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:152 Resp: 5990

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	12.9	10.6	15.8

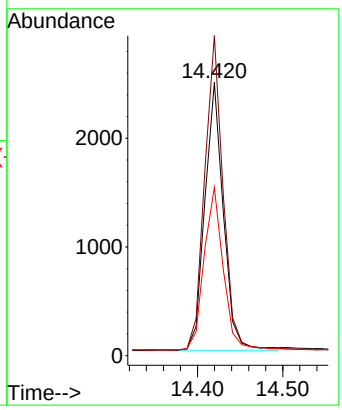




#17
Acenaphthene
Concen: 0.404 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:154 Resp: 372

Ion	Ratio	Lower	Upper
154	100		
153	118.0	94.1	141.1
152	62.9	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
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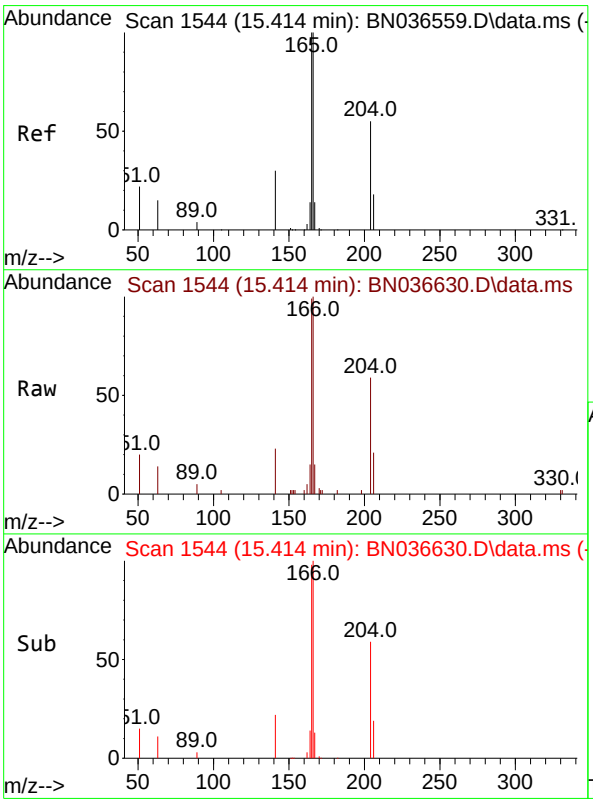
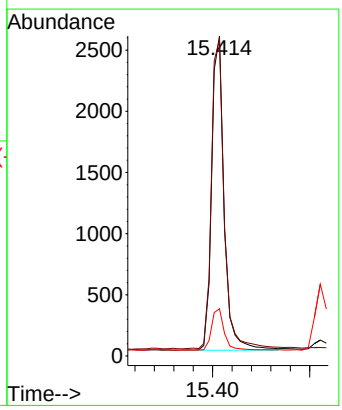
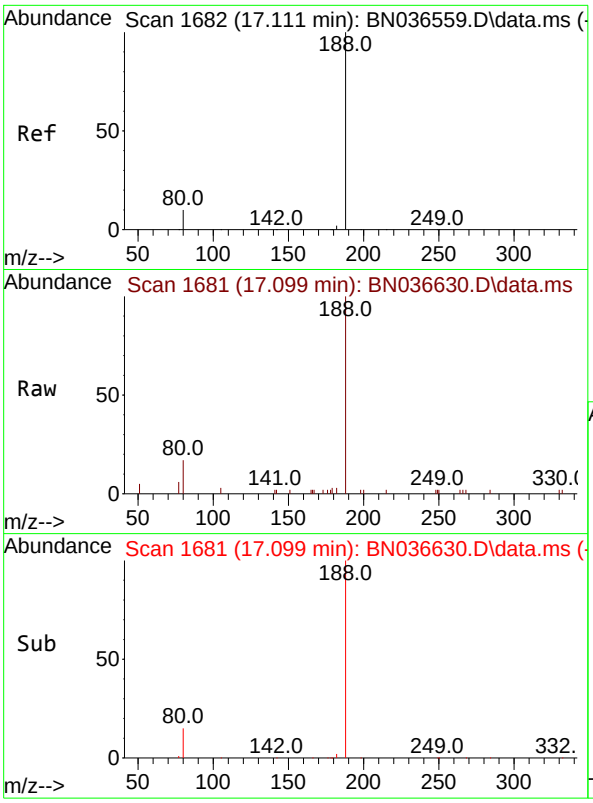


#18
Fluorene
Concen: 0.372 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:166 Resp: 4636

Ion	Ratio	Lower	Upper
166	100		
165	101.4	79.8	119.8
167	13.5	10.6	15.8

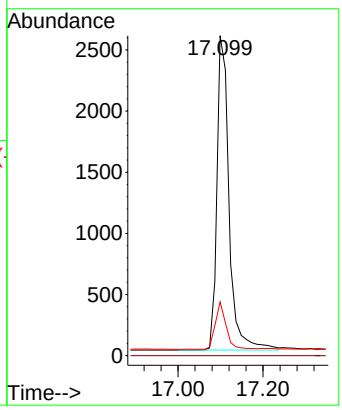




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:188 Resp: 508

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.8	8.8	13.2



Instrument :
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ClientSampleId :
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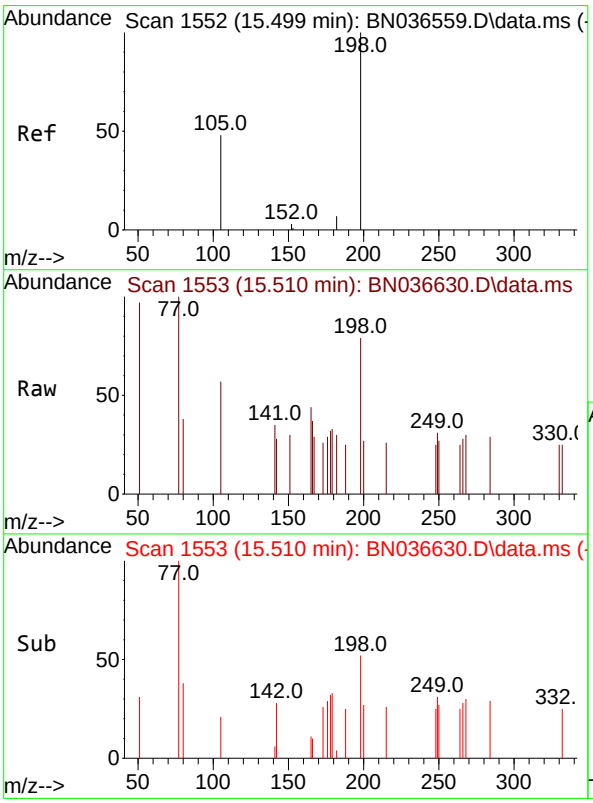
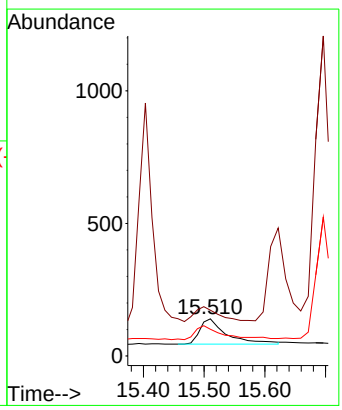
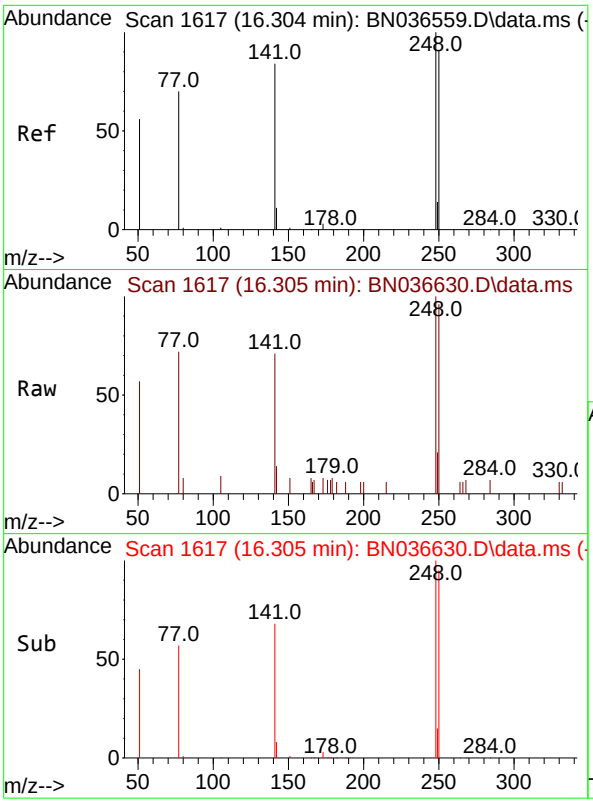


#20
4,6-Dinitro-2-methylphenol
Concen: 0.371 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:198 Resp: 292

Ion	Ratio	Lower	Upper
198	100		
51	123.6	107.9	161.9
105	72.1	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.414 ng
RT: 16.305 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:248 Resp: 132(

Ion	Ratio	Lower	Upper
248	100		
250	95.5	73.0	109.6
141	71.0	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
PB167128BS

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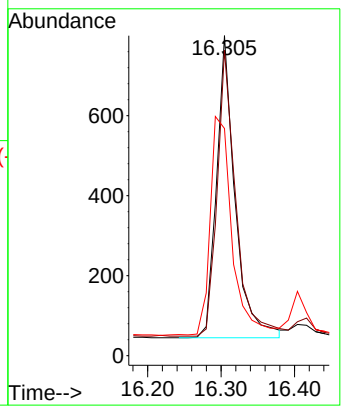
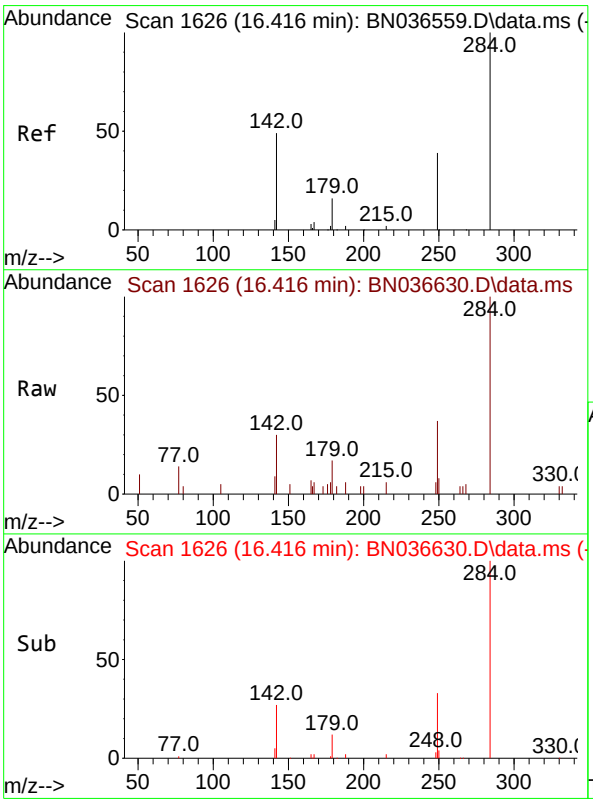
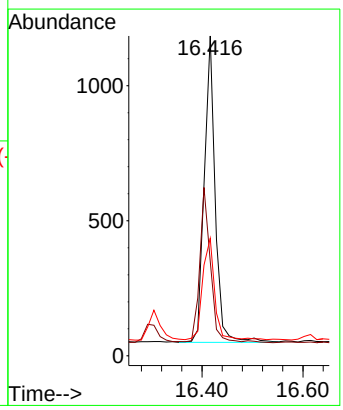


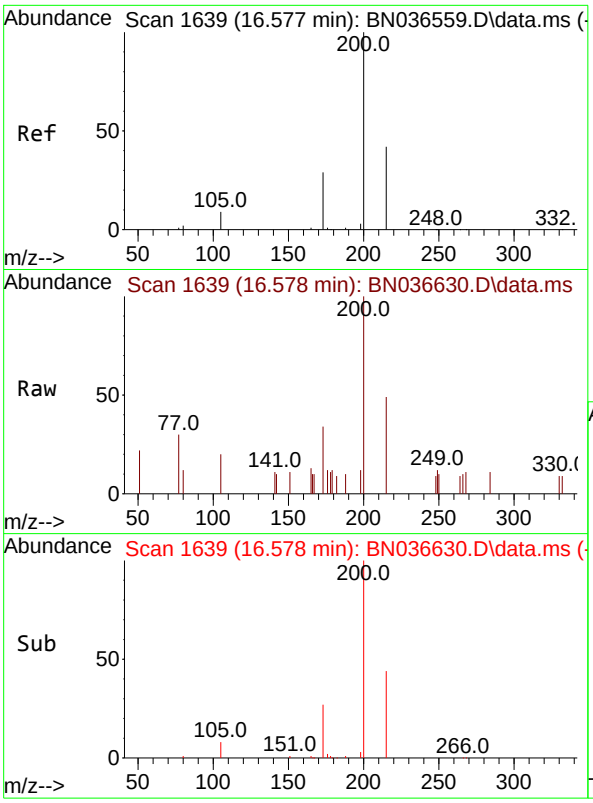


#22
Hexachlorobenzene
Concen: 0.445 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:284 Resp: 1711

Ion	Ratio	Lower	Upper
284	100		
142	48.5	37.0	55.4
249	36.5	28.1	42.1

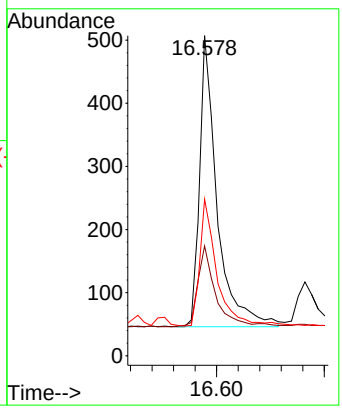




#23
Atrazine
Concen: 0.408 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:200 Resp: 104

Ion	Ratio	Lower	Upper
200	100		
173	34.3	27.3	40.9
215	48.9	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
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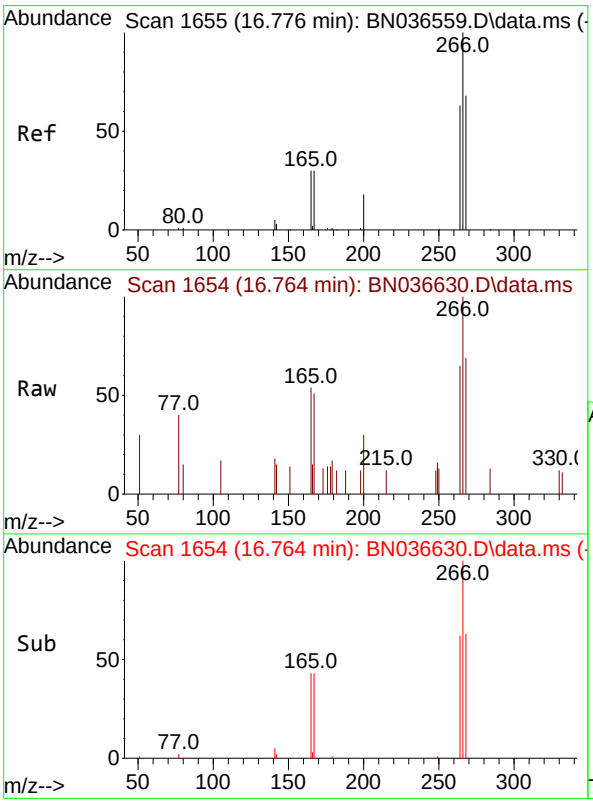
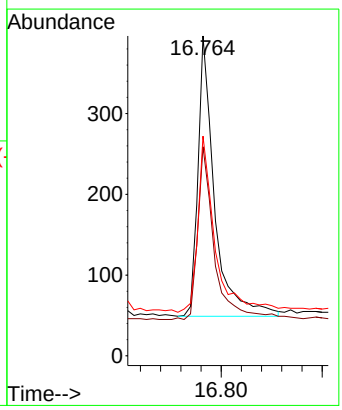
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

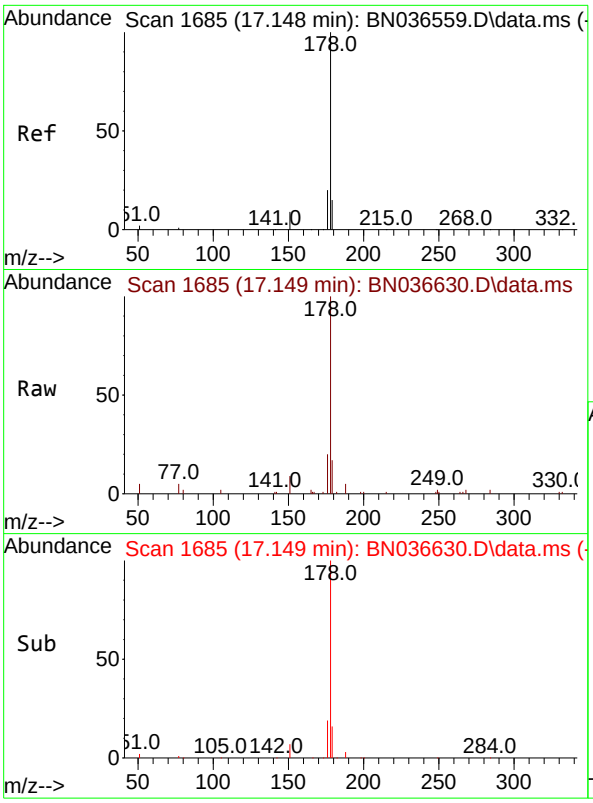


#24
Pentachlorophenol
Concen: 0.453 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:266 Resp: 795

Ion	Ratio	Lower	Upper
266	100		
264	61.5	49.6	74.4
268	65.2	50.9	76.3

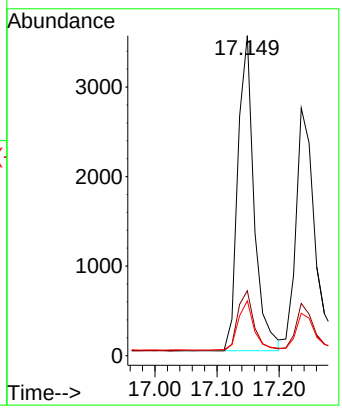




#25
Phenanthrene
Concen: 0.419 ng
RT: 17.149 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:178 Resp: 638

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.9	23.9
179	15.4	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
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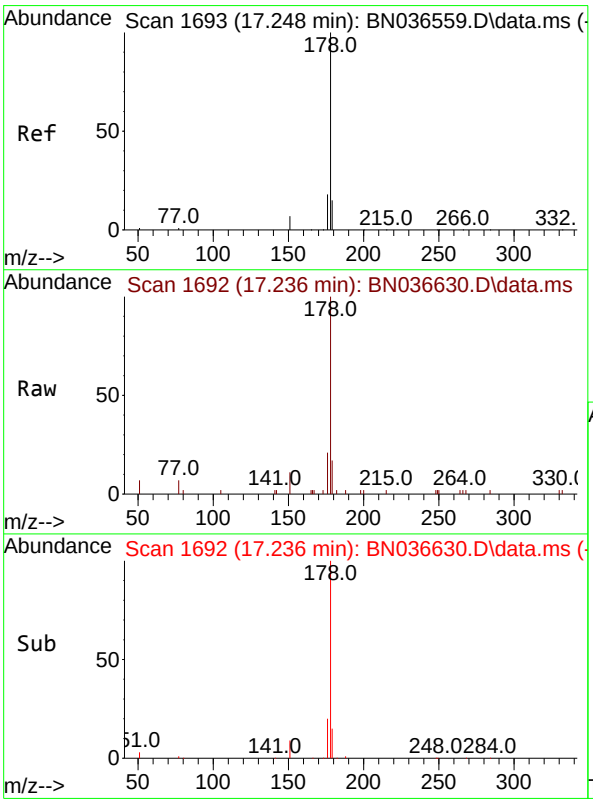
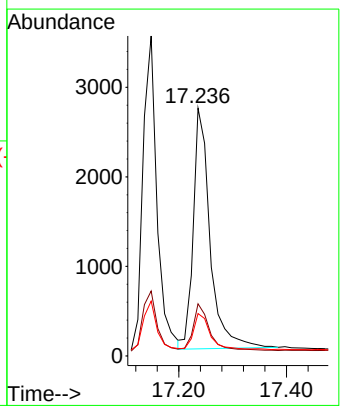
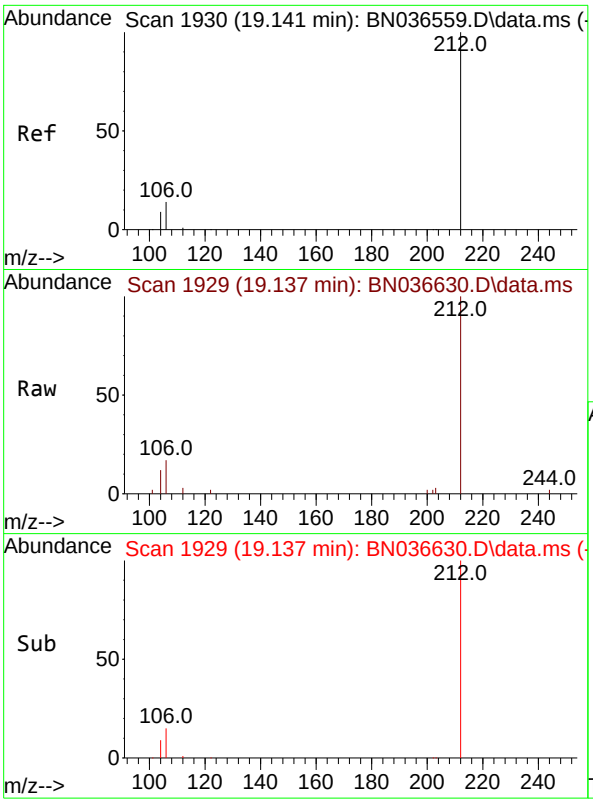


#26
Anthracene
Concen: 0.424 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:178 Resp: 5840

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.1	12.6	18.8

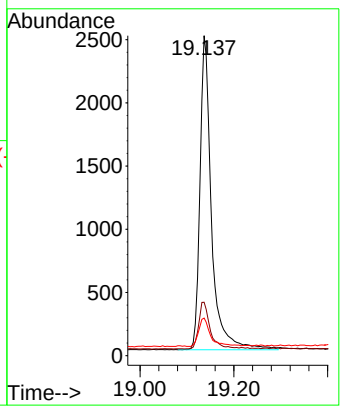




#27
Fluoranthene-d10
Concen: 0.324 ng
RT: 19.137 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:212 Resp: 422

Ion	Ratio	Lower	Upper
212	100		
106	15.2	11.8	17.6
104	9.2	7.3	10.9



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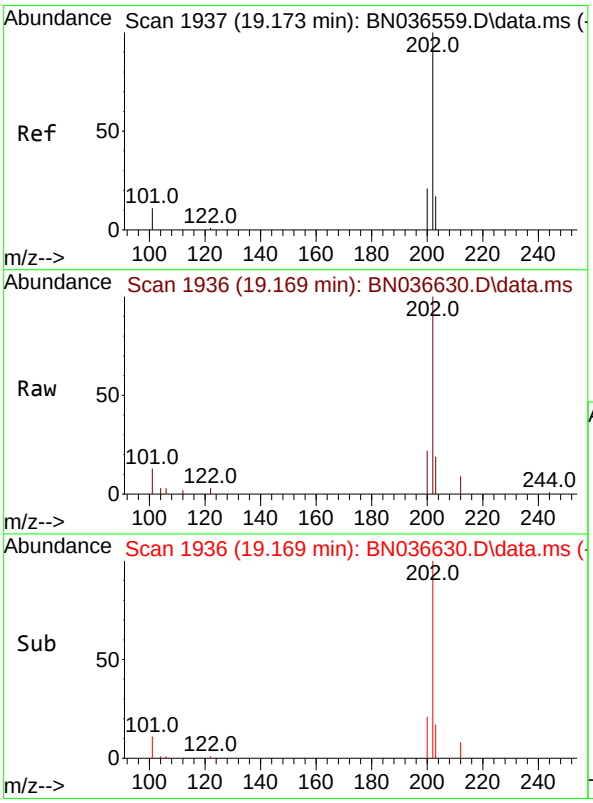
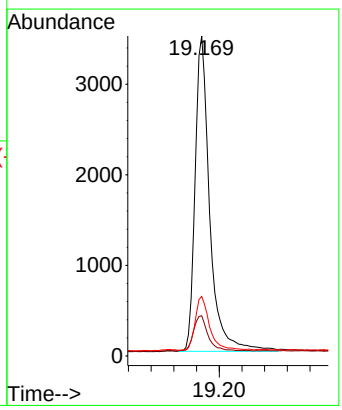
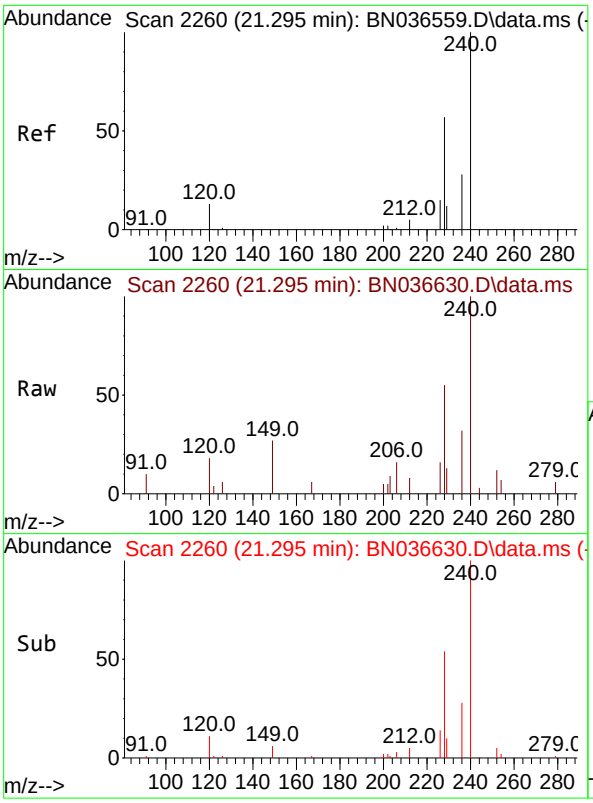


#28
Fluoranthene
Concen: 0.363 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:202 Resp: 6217

Ion	Ratio	Lower	Upper
202	100		
101	11.1	9.4	14.0
203	17.0	13.5	20.3

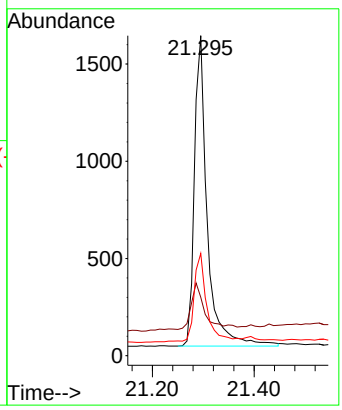




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:240 Resp: 278

Ion	Ratio	Lower	Upper
240	100		
120	18.3	14.6	22.0
236	32.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167128BS

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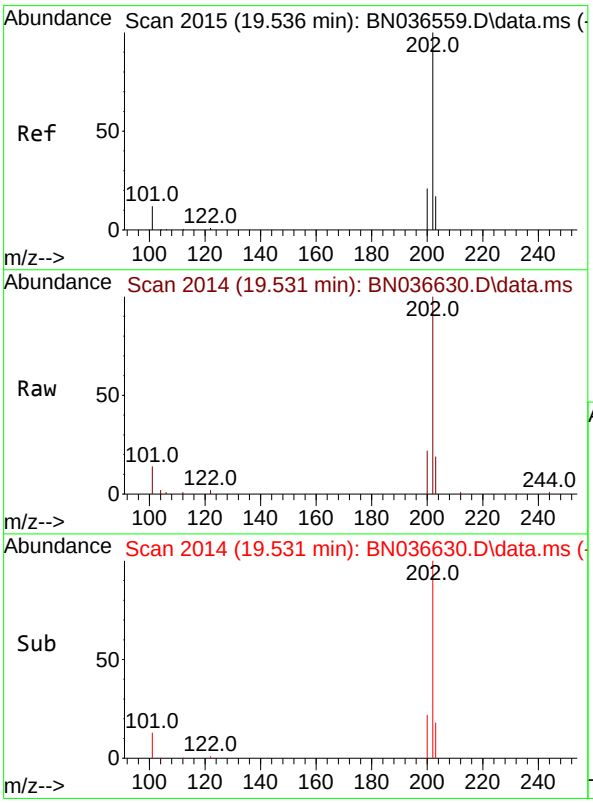
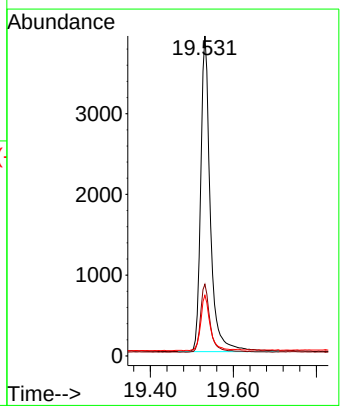
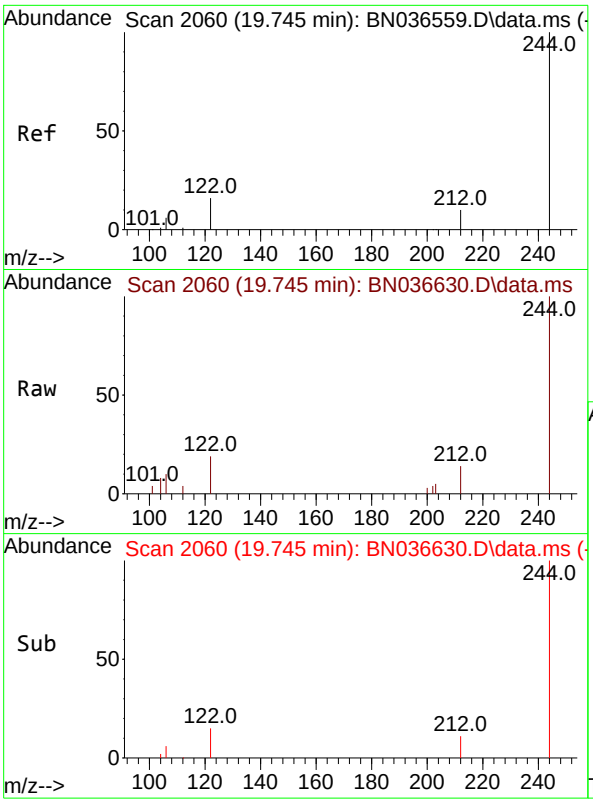


#30
Pyrene
Concen: 0.464 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:202 Resp: 6327

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.1	14.1	21.1





#31
Terphenyl-d14
Concen: 0.423 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:244 Resp: 282

Ion	Ratio	Lower	Upper
244	100		
212	13.8	9.6	14.4
122	18.7	13.9	20.9

Instrument :
BNA_N
ClientSampleId :
PB167128BS

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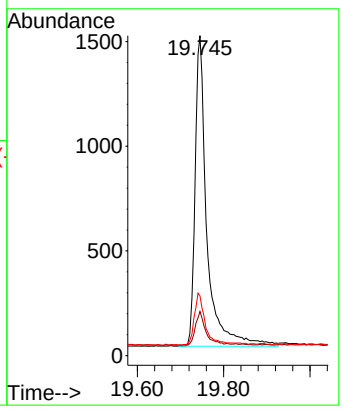
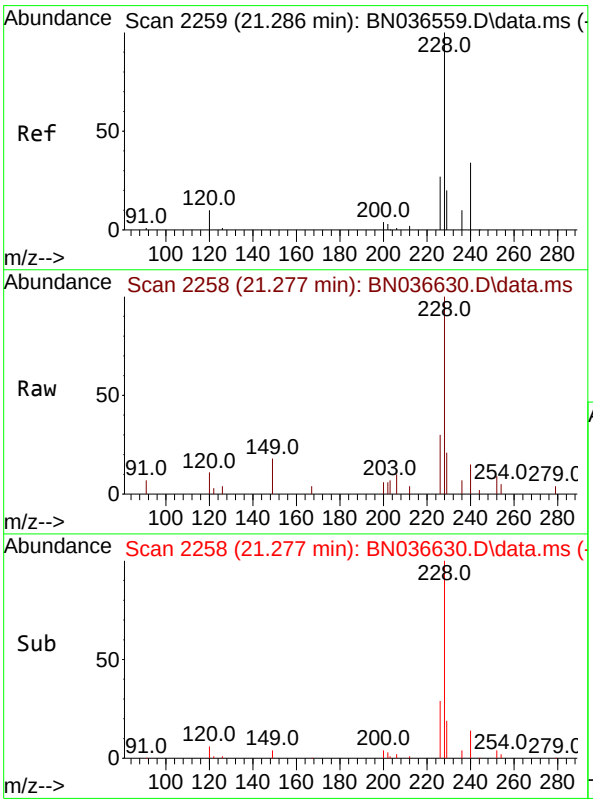
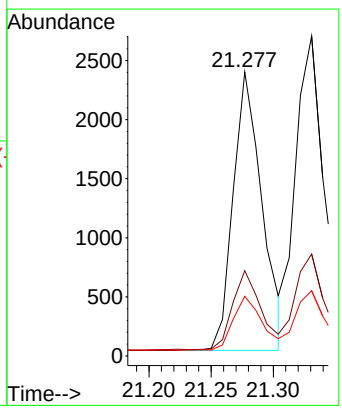


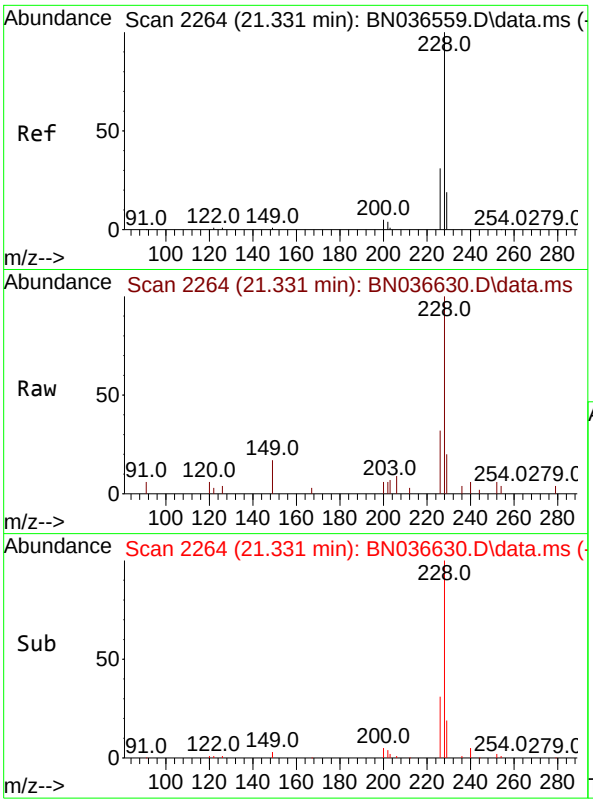


#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:228 Resp: 3798

Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.5	33.7
229	21.0	16.6	25.0

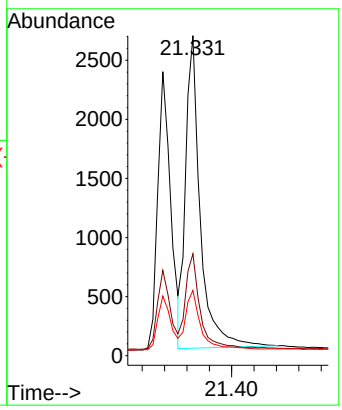




#33
Chrysene
Concen: 0.452 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:228 Resp: 479

Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.3	37.9
229	20.4	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
PB167128BS

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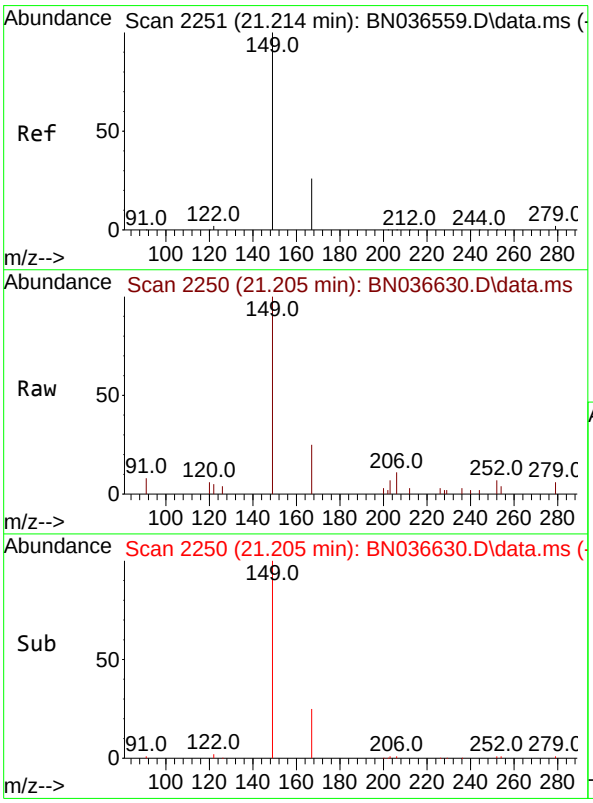
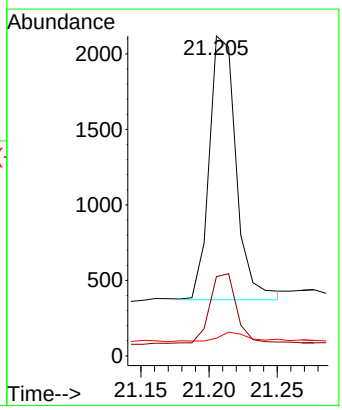
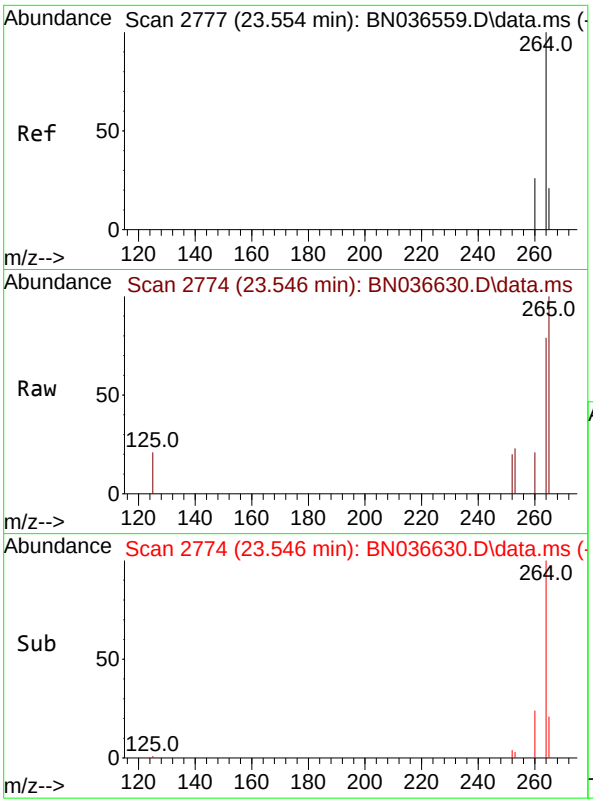


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.348 ng m
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:149 Resp: 2402

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	5.0	3.6	5.4

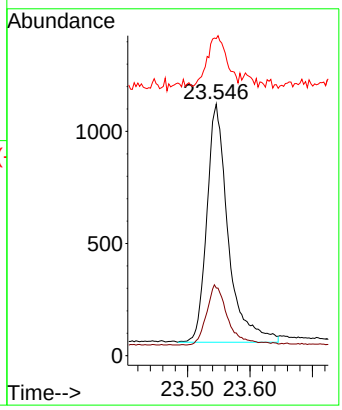




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:264 Resp: 252

Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.6	33.8
265	126.0	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
PB167128BS

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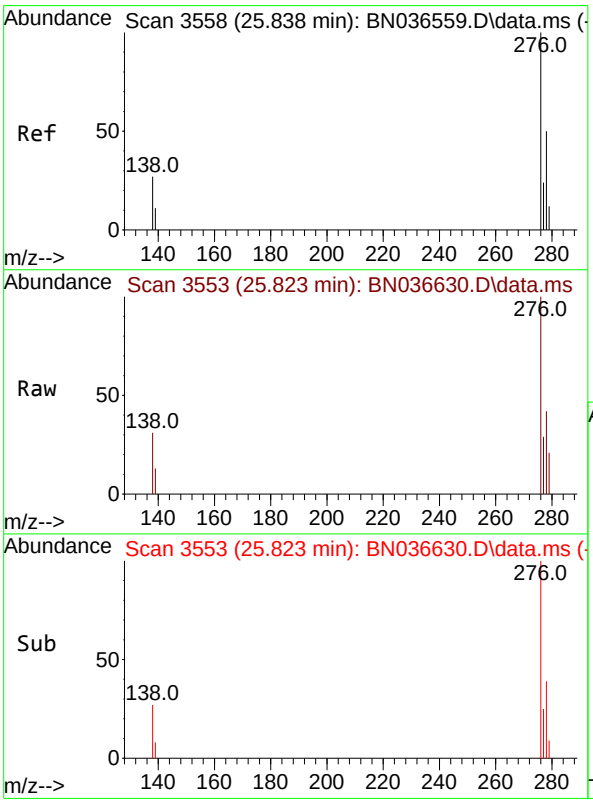
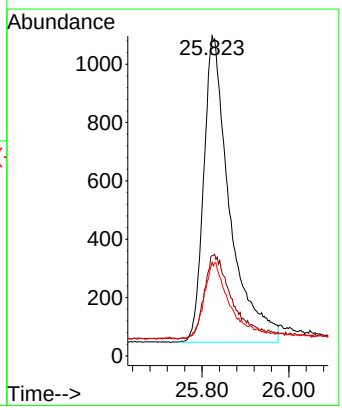
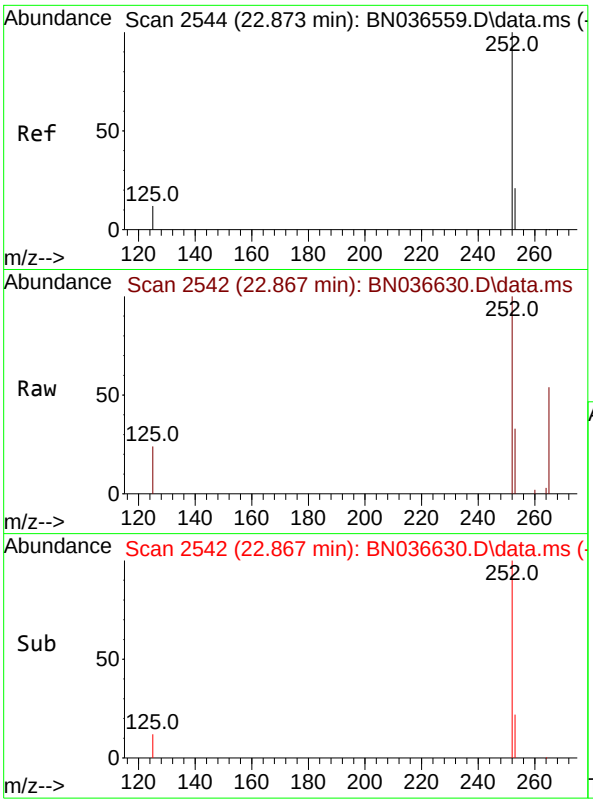


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.479 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.014 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:276 Resp: 4361

Ion	Ratio	Lower	Upper
276	100		
138	28.4	23.4	35.2
277	9.2	20.0	30.0#

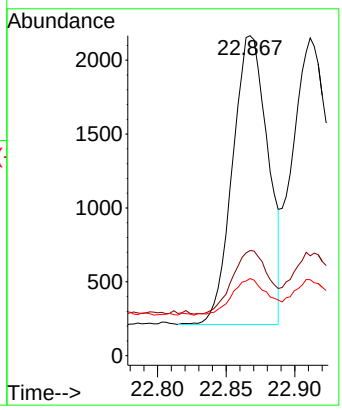




#37
Benzo(b)fluoranthene
Concen: 0.381 ng
RT: 22.867 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:252 Resp: 349

Ion	Ratio	Lower	Upper
252	100		
253	32.9	23.9	35.9
125	24.1	17.4	26.2



Instrument :
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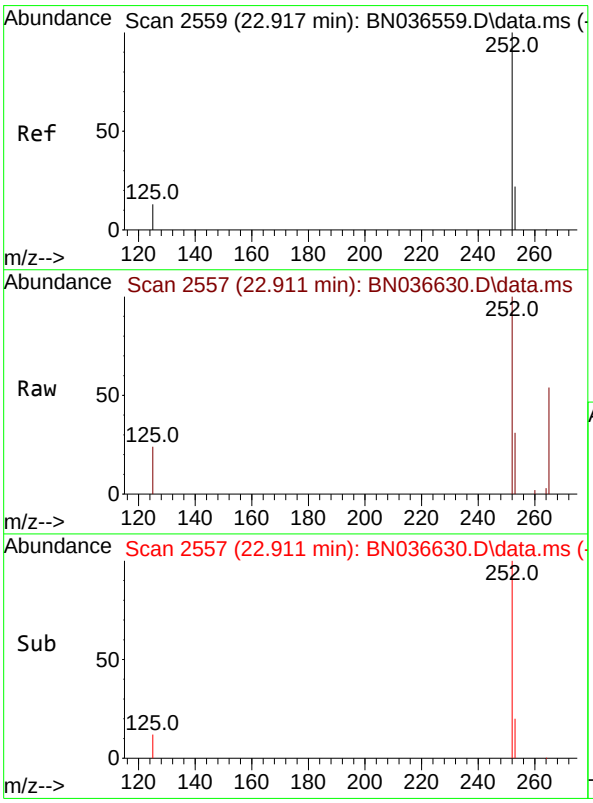
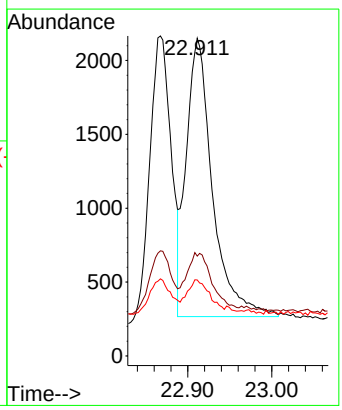
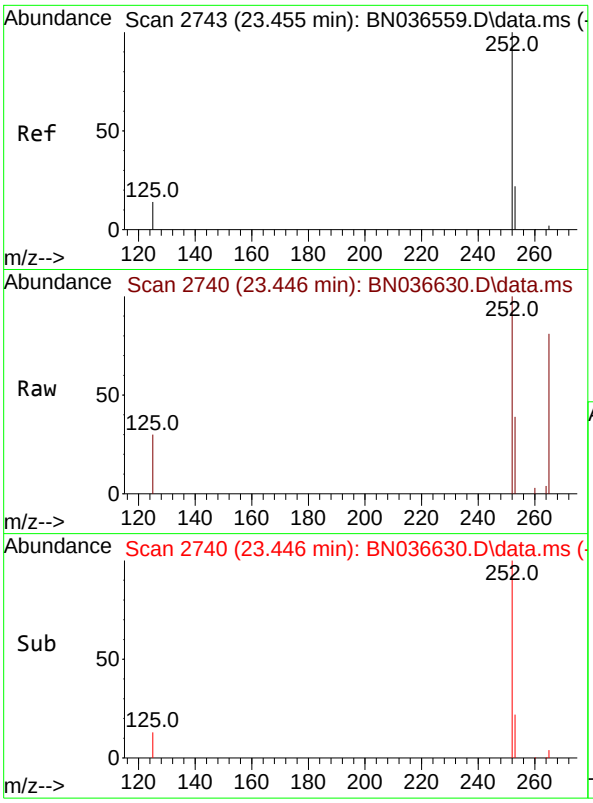


#38
Benzo(k)fluoranthene
Concen: 0.426 ng m
RT: 22.911 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:252 Resp: 4099

Ion	Ratio	Lower	Upper
252	100		
253	31.4	24.6	36.8
125	23.9	17.8	26.8

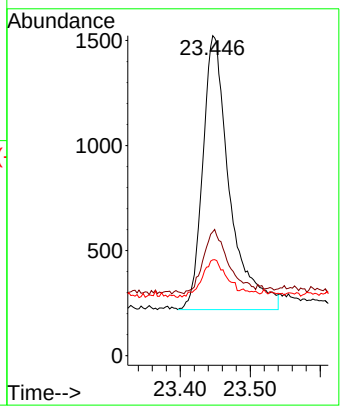




#39
Benzo(a)pyrene
Concen: 0.449 ng
RT: 23.446 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:252 Resp: 347

Ion	Ratio	Lower	Upper
252	100		
253	38.7	27.8	41.8
125	29.9	22.7	34.1



Instrument :
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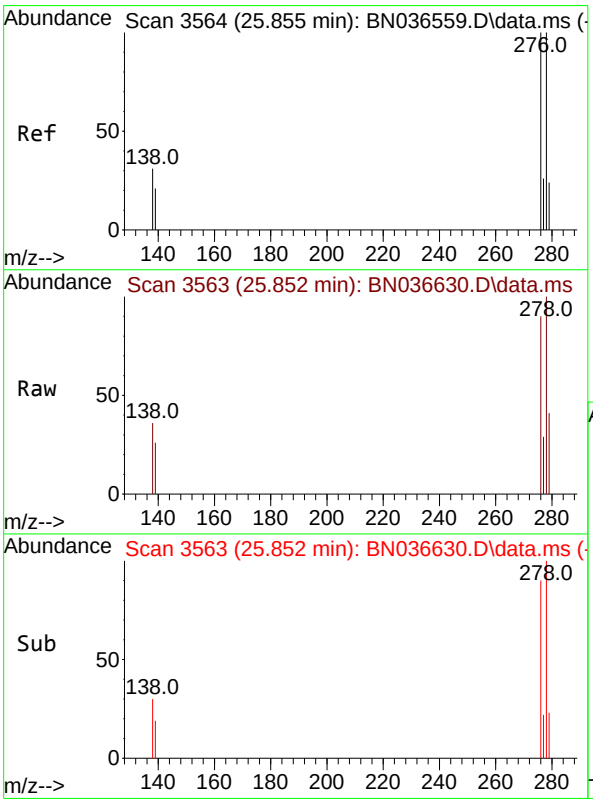
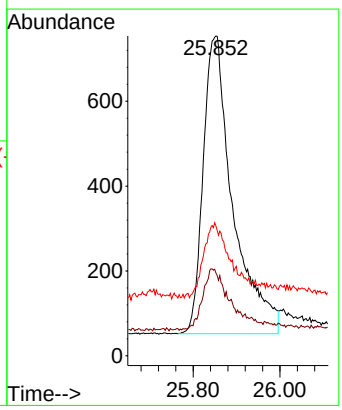
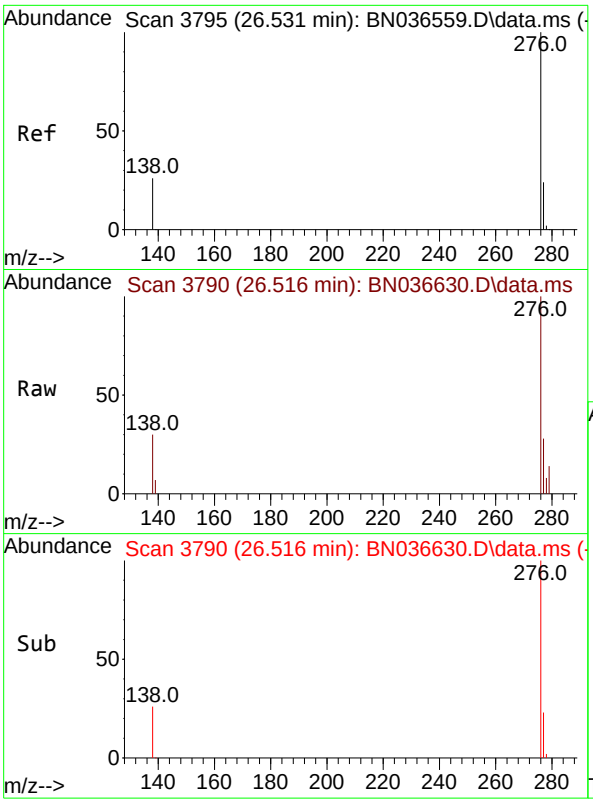


#40
Dibenzo(a,h)anthracene
Concen: 0.471 ng
RT: 25.852 min Scan# 3563
Delta R.T. -0.003 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:278 Resp: 3336

Ion	Ratio	Lower	Upper
278	100		
139	25.9	20.8	31.2
279	40.6	28.8	43.2

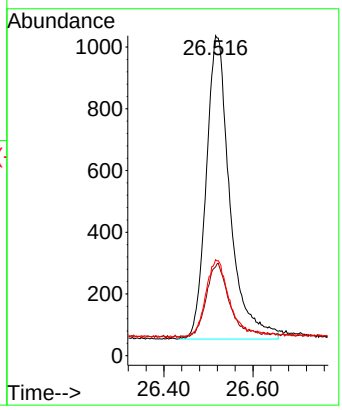




#41
Benzo(g,h,i)perylene
Concen: 0.448 ng
RT: 26.516 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:276 Resp: 362

Ion	Ratio	Lower	Upper
276	100		
277	27.8	22.2	33.4
138	30.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167128BS

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/12/25
Project:	NJ Waste Water PT	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MS	SDG No.:	Q1502
Lab Sample ID:	Q1557-04MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036611.D	1	03/13/25 12:40	03/14/25 17:24	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	0.52		0.15	0.20	ug/L
87-86-5	Pentachlorophenol	0.83		0.11	0.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	0.17		10 - 100	43%	SPK: 0.4
13127-88-3	Phenol-d6	0.094		10 - 100	23%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.38		10 - 131	95%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2250	7.717			
1146-65-2	Naphthalene-d8	5350	10.509			
15067-26-2	Acenaphthene-d10	3240	14.356			
1517-22-2	Phenanthrene-d10	6300	17.099			
1719-03-5	Chrysene-d12	4670	21.295			
1520-96-3	Perylene-d12	3900	23.543			

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\BN031425\
Data File : BN036611.D
Acq On : 14 Mar 2025 17:24
Operator : RC/JU
Sample : Q1557-04MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 14 18:28:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2246	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5352	0.400	ng	# 0.00
13) Acenaphthene-d10	14.356	164	3243	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	6301	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	4672	0.400	ng	# 0.00
35) Perylene-d12	23.543	264	3903	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	892	0.170	ng	0.00
5) Phenol-d6	6.894	99	609	0.094	ng	0.00
8) Nitrobenzene-d5	8.865	82	1950	0.335	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	2972m	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	560	0.381	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	6929	0.367	ng	0.00
27) Fluoranthene-d10	19.137	212	6898	0.427	ng	0.00
31) Terphenyl-d14	19.736	244	7294	0.652	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	551	0.221	ng	# 44
3) n-Nitrosodimethylamine	3.550	42	1012	0.201	ng	96
6) bis(2-Chloroethyl)ether	7.147	93	2609	0.390	ng	96
9) Naphthalene	10.552	128	6352	0.403	ng	100
10) Hexachlorobutadiene	10.851	225	1397	0.377	ng	# 98
12) 2-Methylnaphthalene	12.172	142	4184	0.418	ng	99
16) Acenaphthylene	14.078	152	6731	0.440	ng	99
17) Acenaphthene	14.420	154	4265	0.426	ng	99
18) Fluorene	15.414	166	5836	0.431	ng	99
20) 4,6-Dinitro-2-methylph...	15.500	198	594	0.514	ng	# 62
21) 4-Bromophenyl-phenylether	16.305	248	1836	0.465	ng	# 78
22) Hexachlorobenzene	16.416	284	2096	0.440	ng	97
23) Atrazine	16.578	200	1699	0.537	ng	# 94
24) Pentachlorophenol	16.764	266	1776	0.817	ng	99
25) Phenanthrene	17.149	178	9397	0.497	ng	100
26) Anthracene	17.236	178	8609	0.505	ng	100
28) Fluoranthene	19.169	202	10914	0.514	ng	99
30) Pyrene	19.531	202	11279	0.494	ng	100
32) Benzo(a)anthracene	21.277	228	8094	0.498	ng	99
33) Chrysene	21.331	228	9043	0.509	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	5667	0.490	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.823	276	7222	0.513	ng	99
37) Benzo(b)fluoranthene	22.864	252	7210	0.508	ng	93
38) Benzo(k)fluoranthene	22.911	252	8111	0.544	ng	94
39) Benzo(a)pyrene	23.446	252	6261	0.523	ng	# 91
40) Dibenzo(a,h)anthracene	25.844	278	5342	0.487	ng	95
41) Benzo(g,h,i)perylene	26.516	276	5906	0.471	ng	96

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

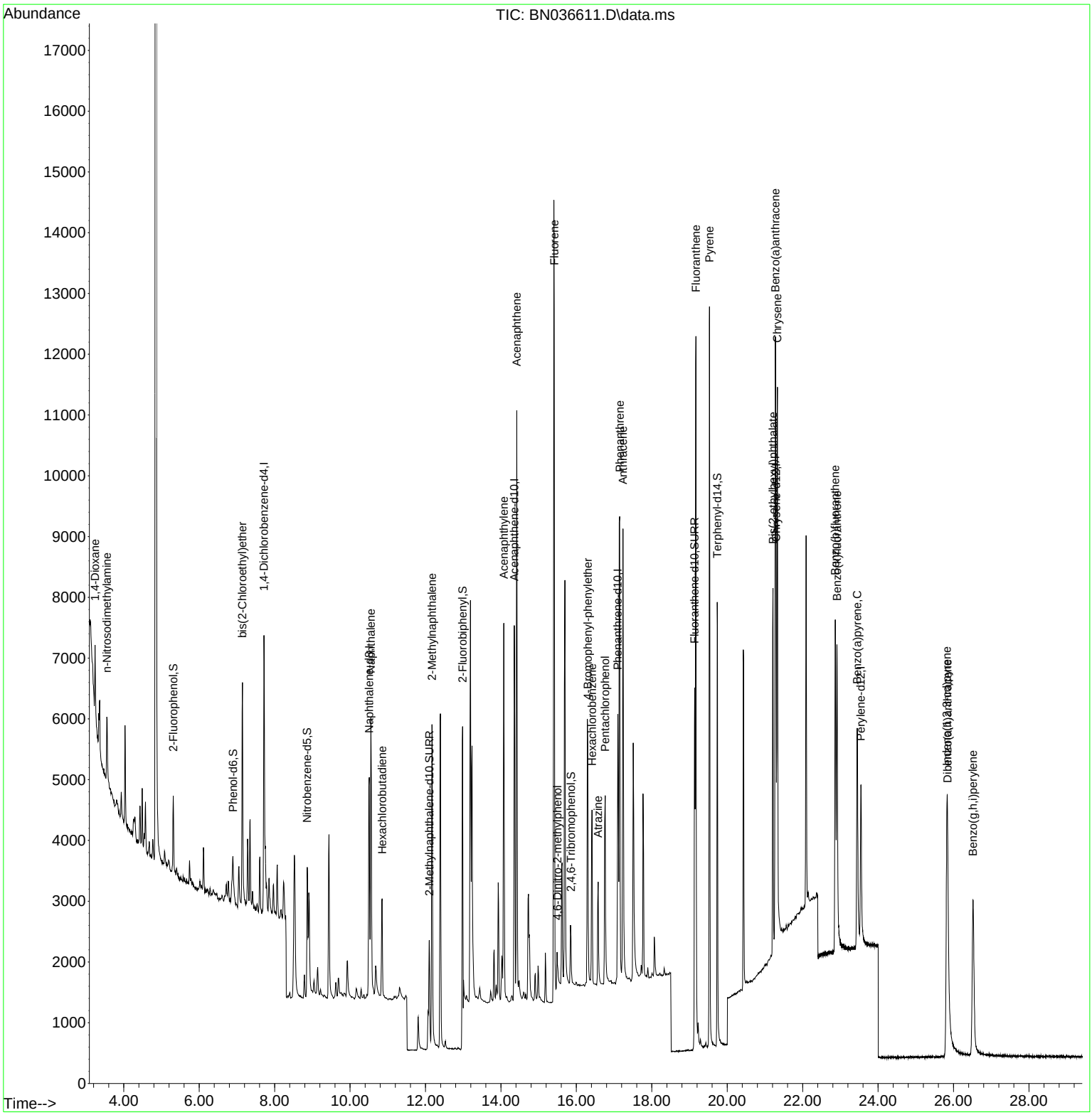
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036611.D
Acq On : 14 Mar 2025 17:24
Operator : RC/JU
Sample : Q1557-04MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

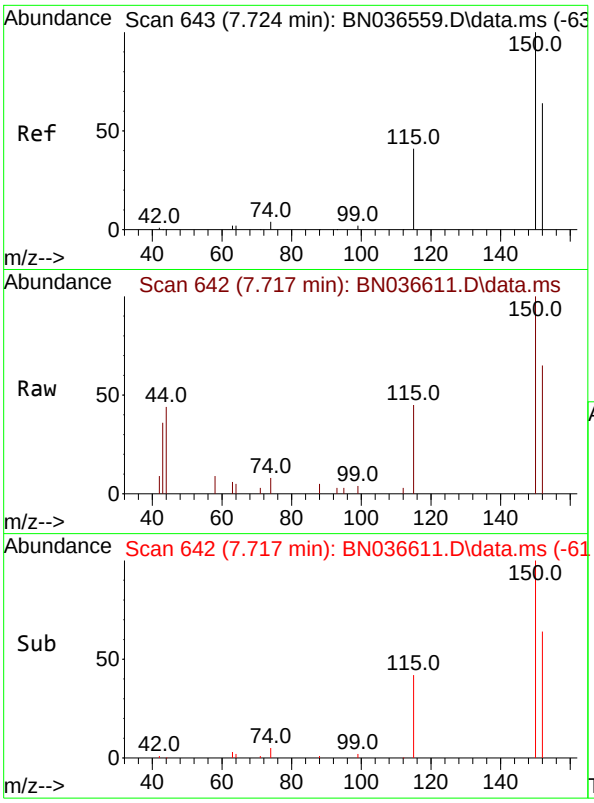
Quant Time: Mar 14 18:28:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

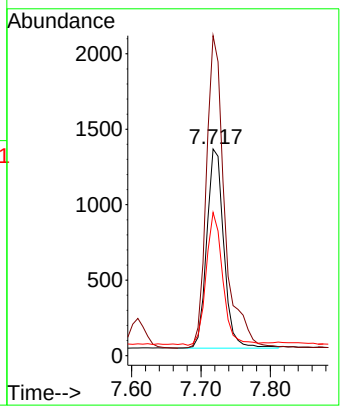




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:152 Resp: 224

Ion	Ratio	Lower	Upper
152	100		
150	154.9	123.7	185.5
115	69.2	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

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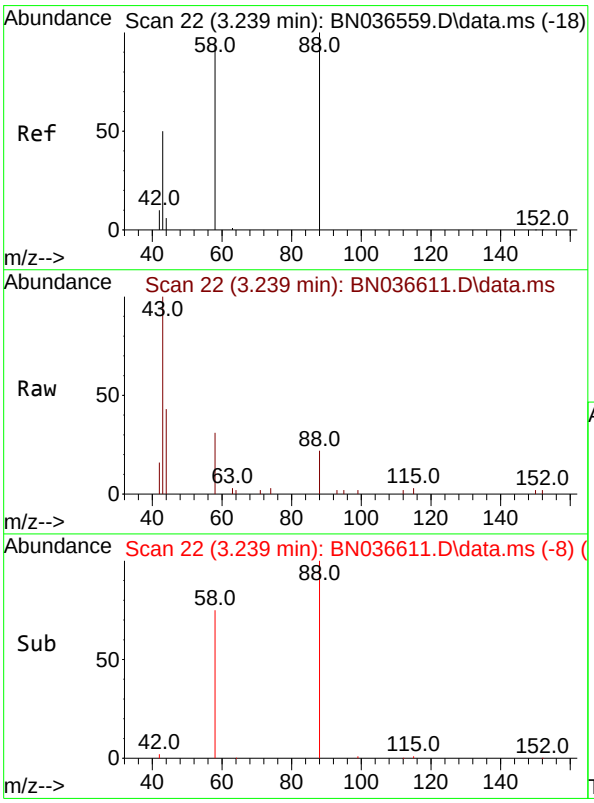
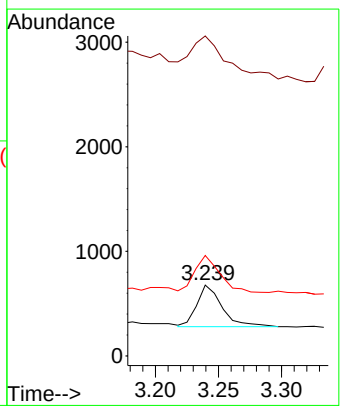
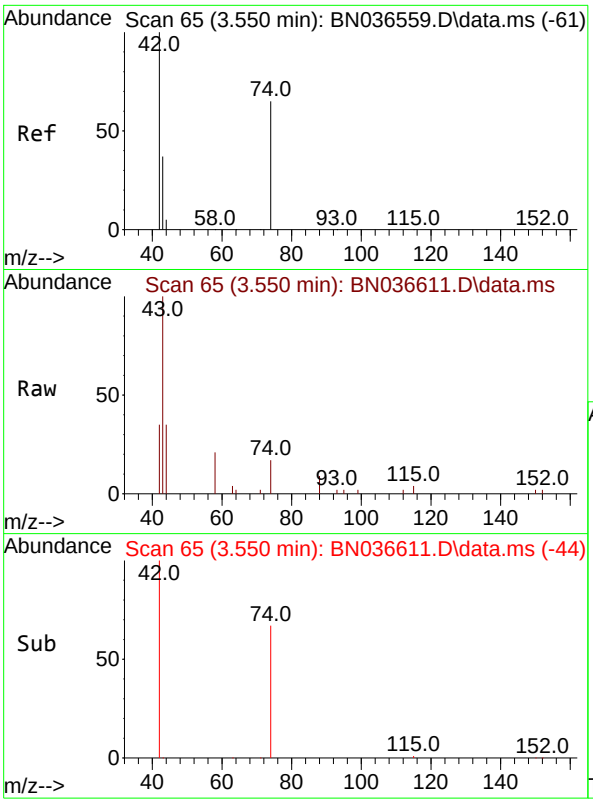


#2
1,4-Dioxane
Concen: 0.221 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion: 88 Resp: 551

Ion	Ratio	Lower	Upper
88	100		
43	147.0	37.8	56.8#
58	88.2	67.4	101.2

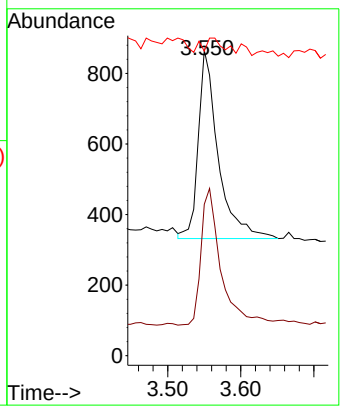




#3
n-Nitrosodimethylamine
Concen: 0.201 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion: 42 Resp: 101

Ion	Ratio	Lower	Upper
42	100		
74	72.2	60.6	90.8
44	8.1	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

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Reviewed By :Anahy Claudio 03/17/2025
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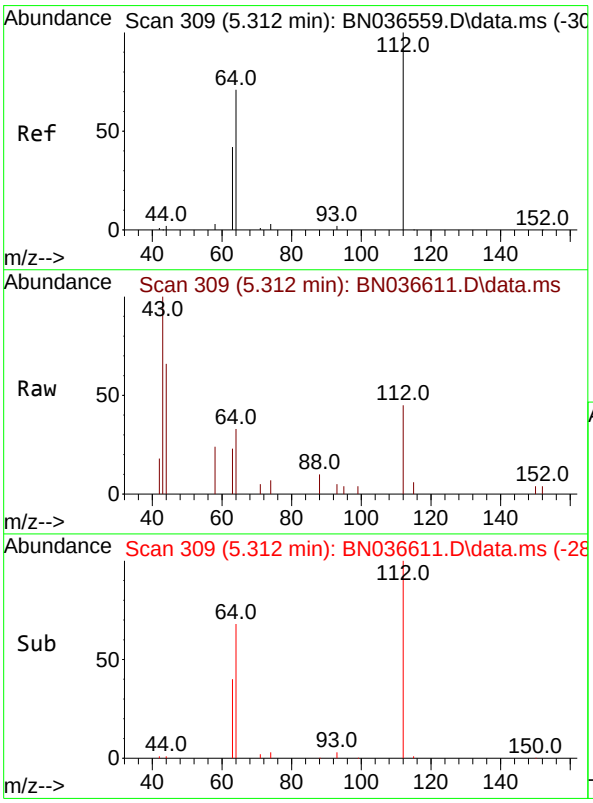
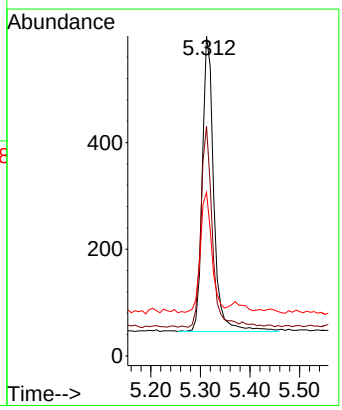
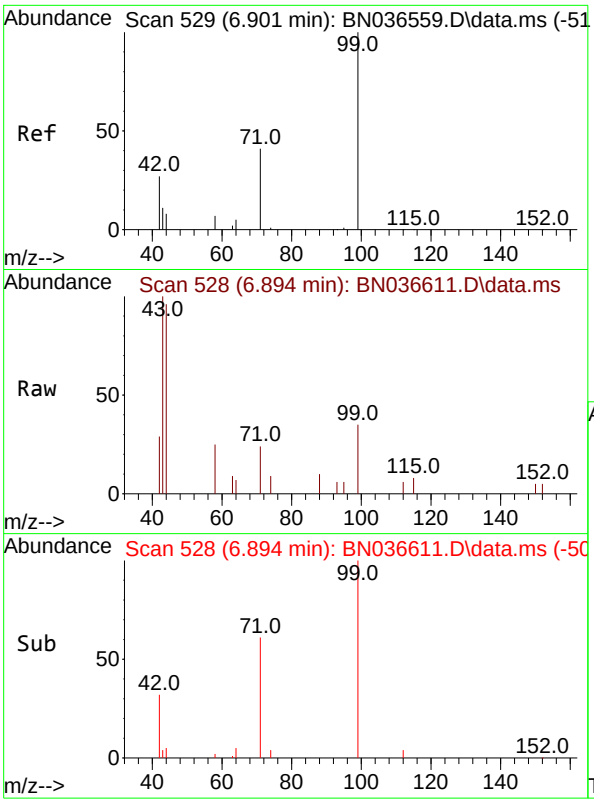


#4
2-Fluorophenol
Concen: 0.170 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:112 Resp: 892

Ion	Ratio	Lower	Upper
112	100		
64	67.2	53.1	79.7
63	40.1	31.8	47.8

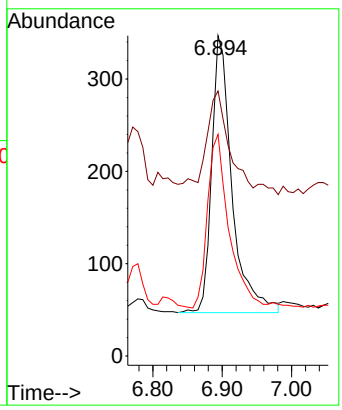




#5
Phenol-d6
Concen: 0.094 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion: 99 Resp: 60

Ion	Ratio	Lower	Upper
99	100		
42	36.6	26.5	39.7
71	65.4	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

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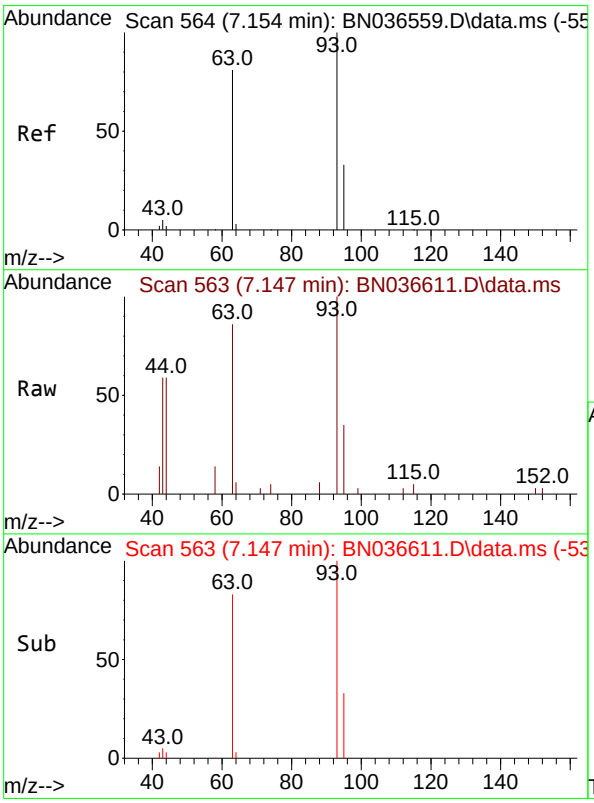
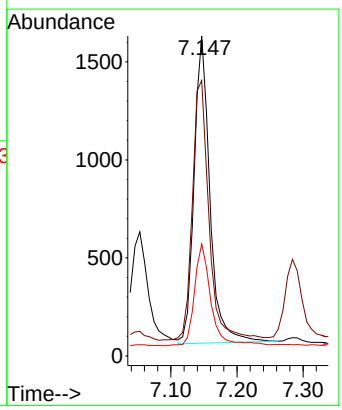
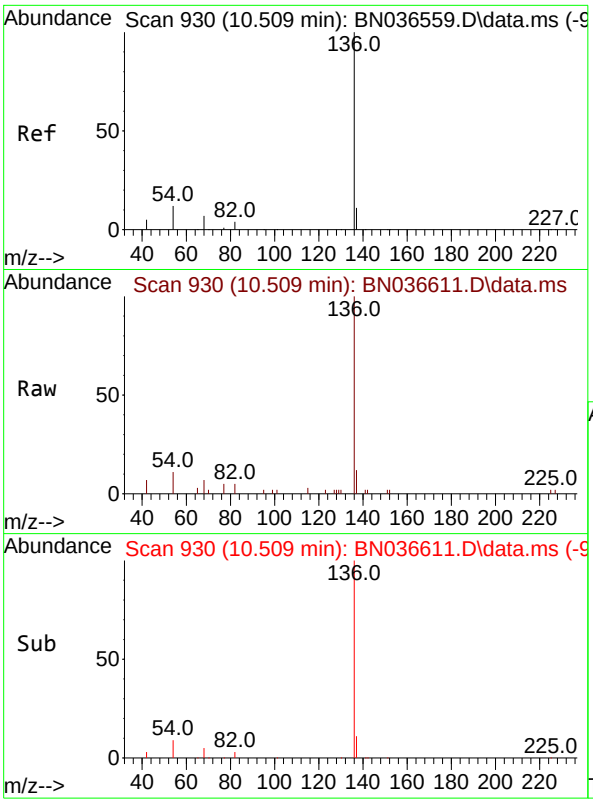


#6
bis(2-Chloroethyl)ether
Concen: 0.390 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion: 93 Resp: 2609

Ion	Ratio	Lower	Upper
93	100		
63	88.4	67.7	101.5
95	34.5	25.6	38.4

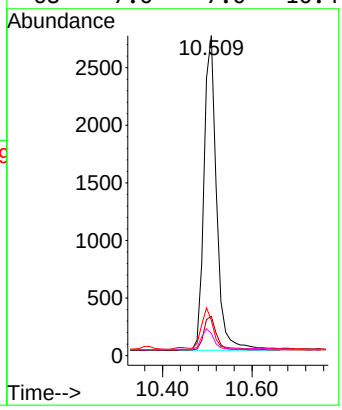




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:136 Resp: 535

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.3	15.5
54	11.1	11.5	17.3#
68	7.0	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Manual Integrations APPROVED

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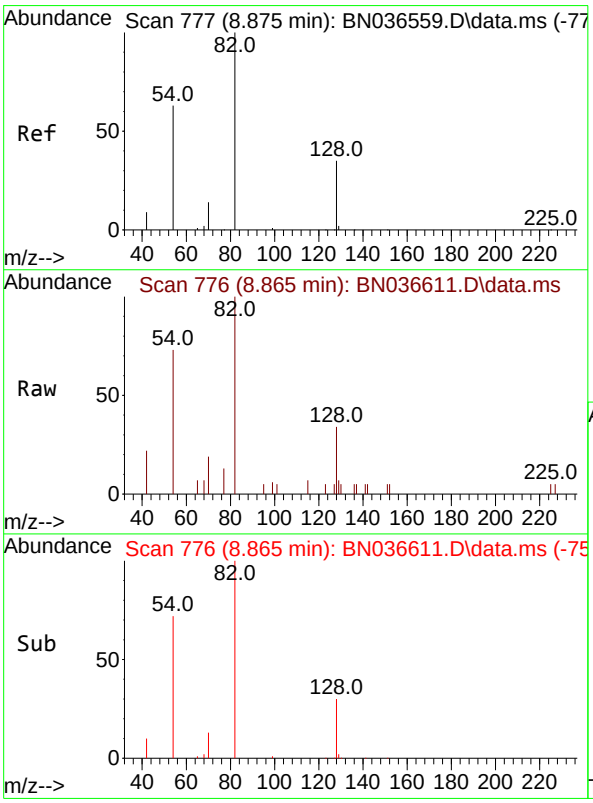
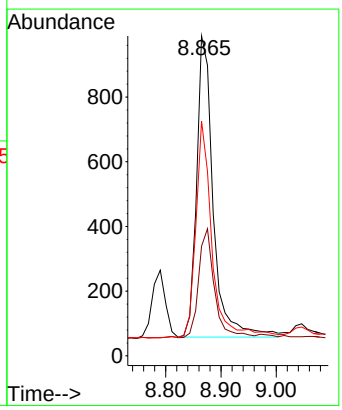
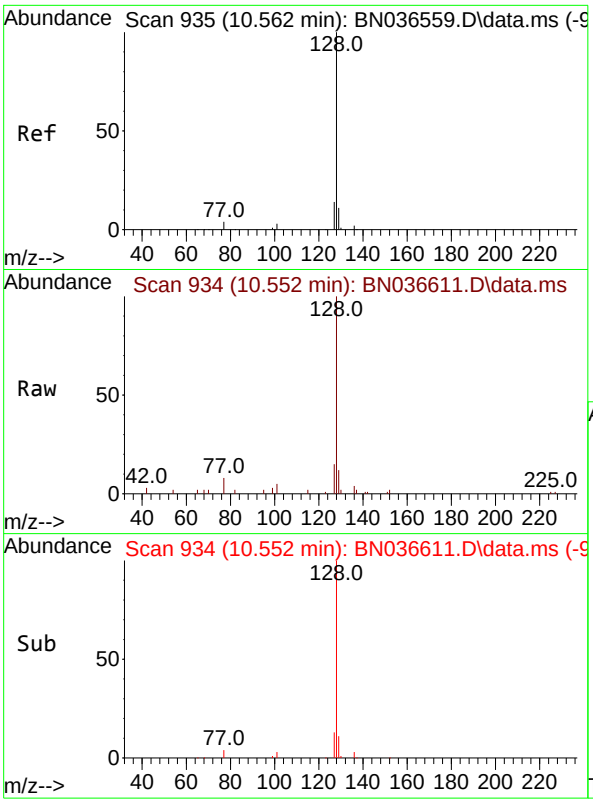


#8
Nitrobenzene-d5
Concen: 0.335 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion: 82 Resp: 1950

Ion	Ratio	Lower	Upper
82	100		
128	34.3	30.6	45.8
54	73.4	52.2	78.4

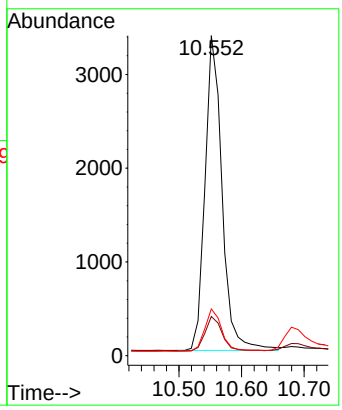




#9
Naphthalene
Concen: 0.403 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:128 Resp: 635

Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.8	14.6
127	14.6	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

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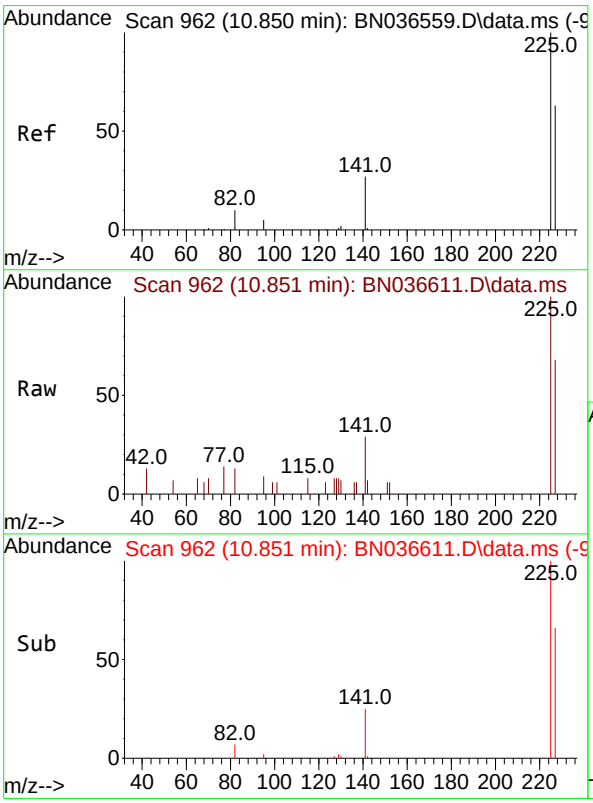
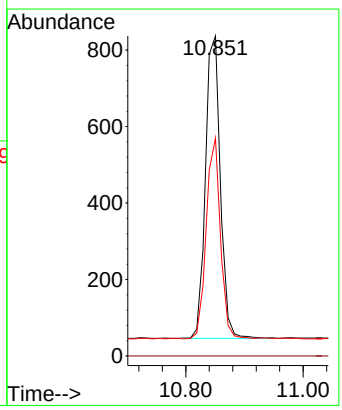
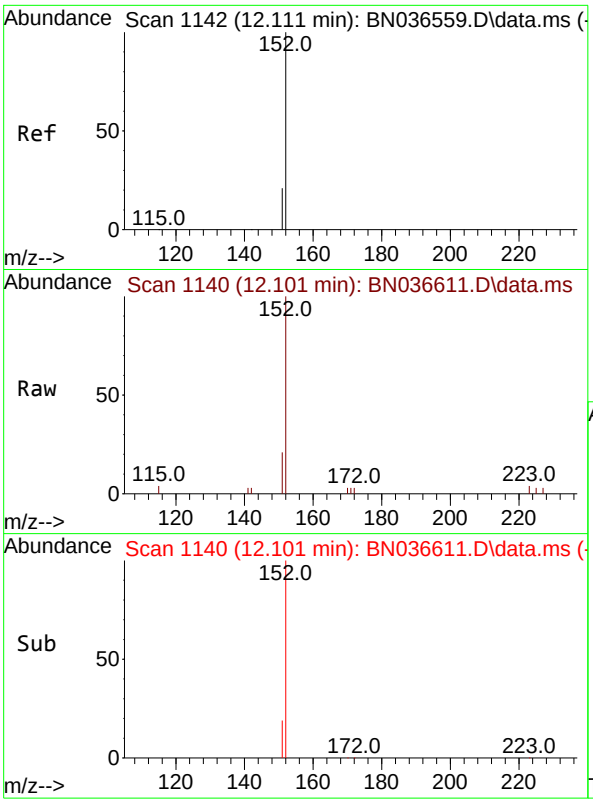


#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:225 Resp: 1397

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.8	77.8

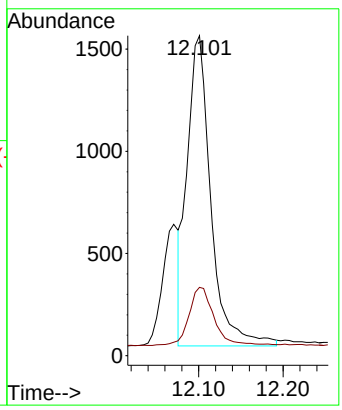




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng m
RT: 12.101 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:152 Resp: 297

Ion	Ratio	Lower	Upper
152	100		
151	20.1	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Manual Integrations
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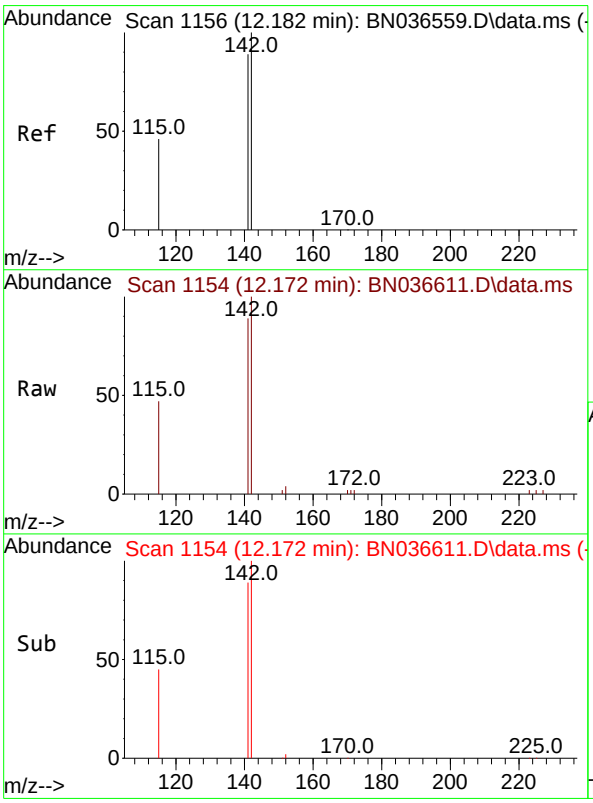
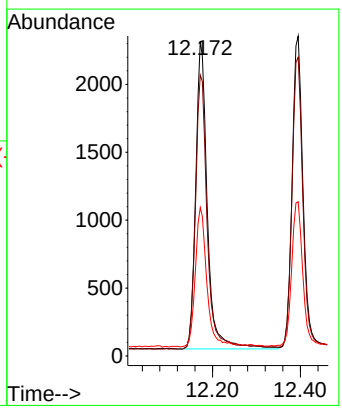
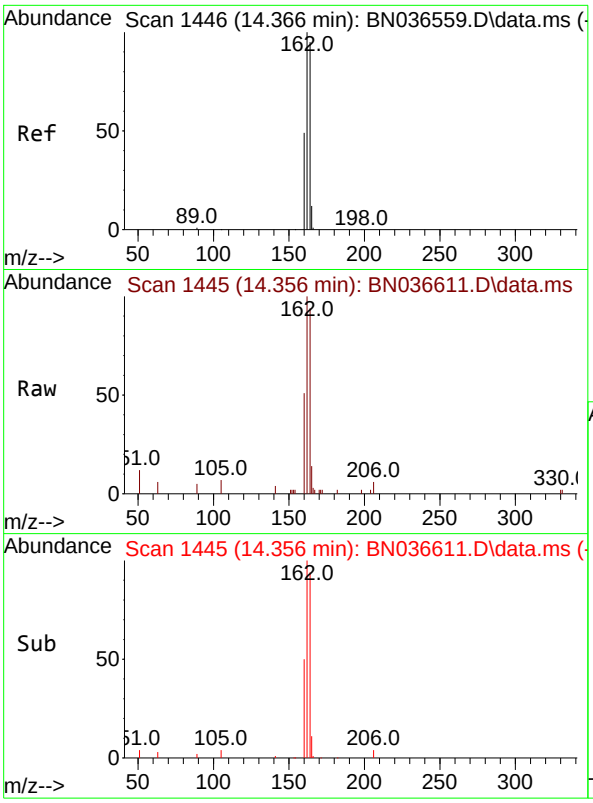


#12
2-Methylnaphthalene
Concen: 0.418 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:142 Resp: 4184

Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.7	107.5
115	47.1	38.3	57.5

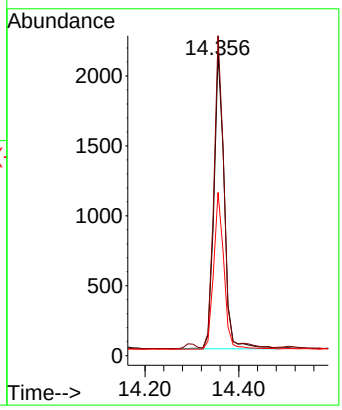




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:164 Resp: 324

Ion	Ratio	Lower	Upper
164	100		
162	105.9	84.2	126.2
160	54.0	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Manual Integrations
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Reviewed By :Anahy Claudio 03/17/2025
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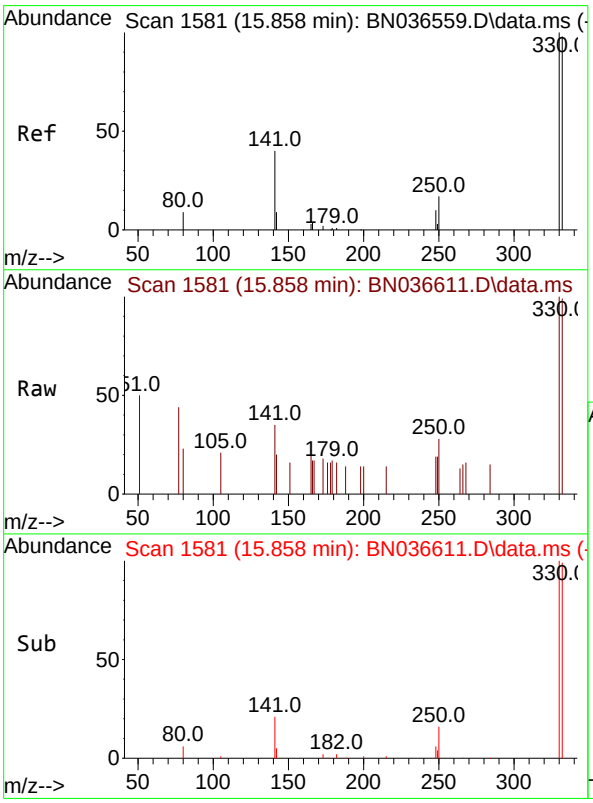
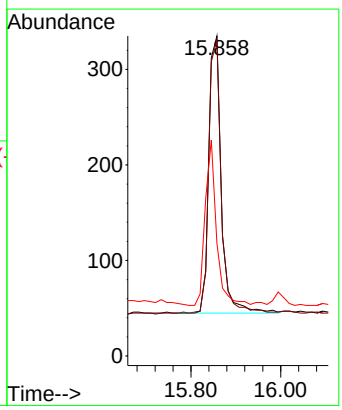
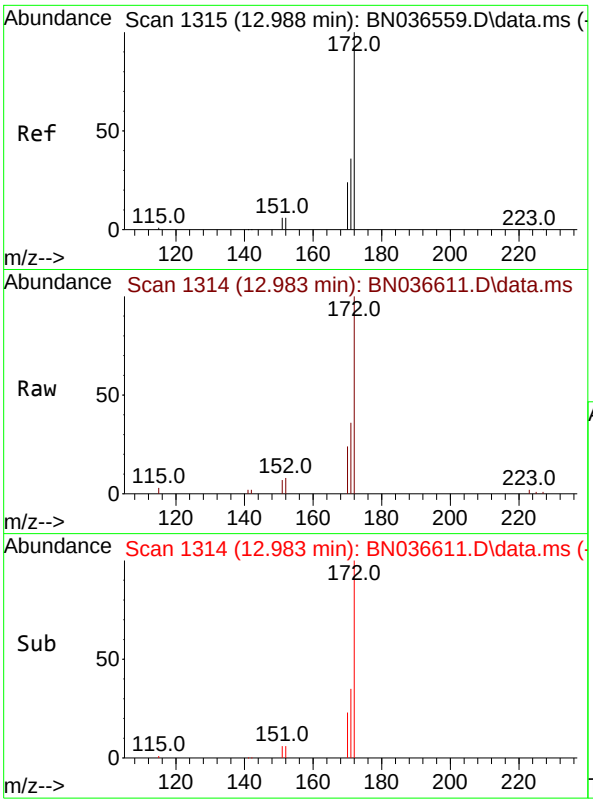


#14
2,4,6-Tribromophenol
Concen: 0.381 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:330 Resp: 560

Ion	Ratio	Lower	Upper
330	100		
332	97.1	75.2	112.8
141	53.8	43.4	65.2

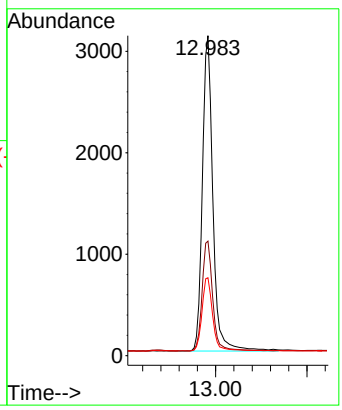




#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:172 Resp: 692

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.5	44.3
170	24.3	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
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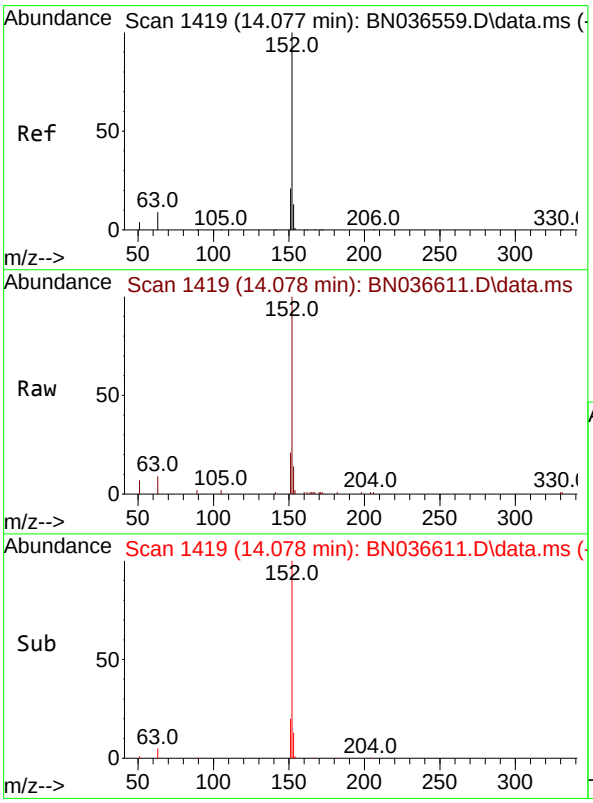
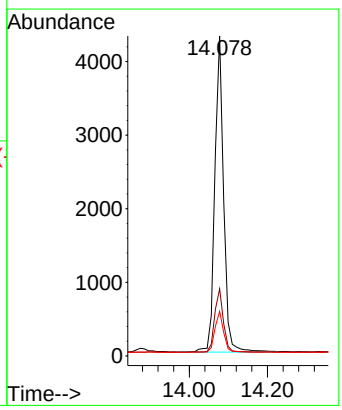
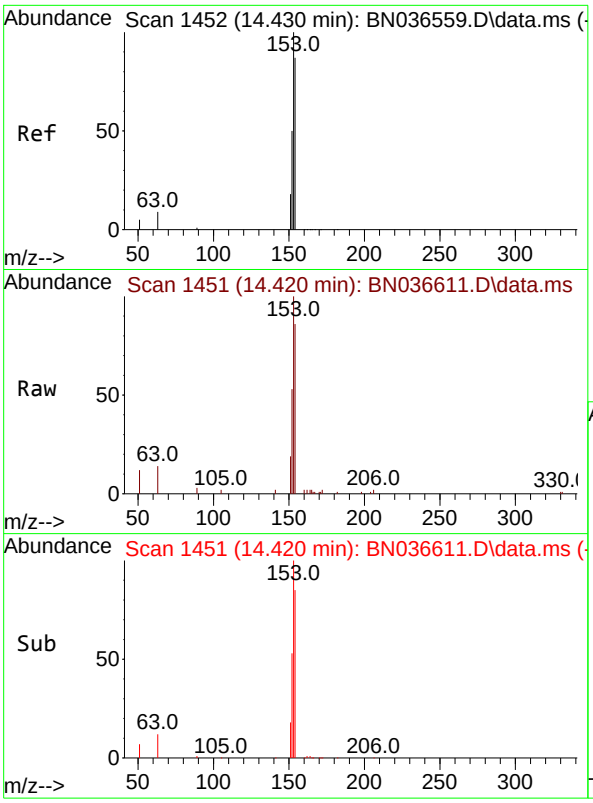


#16
Acenaphthylene
Concen: 0.440 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:152 Resp: 6731

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.4
153	12.9	10.6	15.8

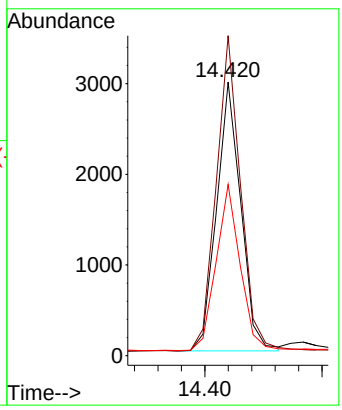




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:154 Resp: 426

Ion	Ratio	Lower	Upper
154	100		
153	119.0	94.1	141.1
152	62.3	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
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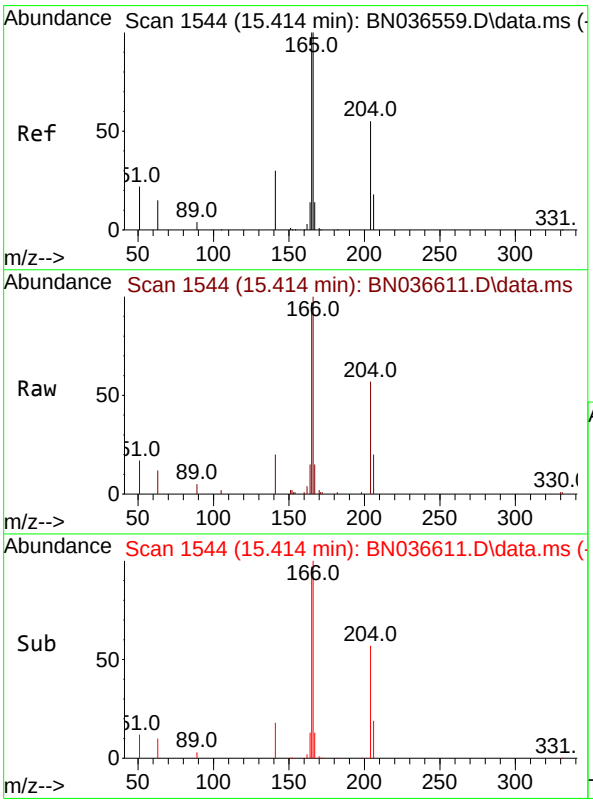
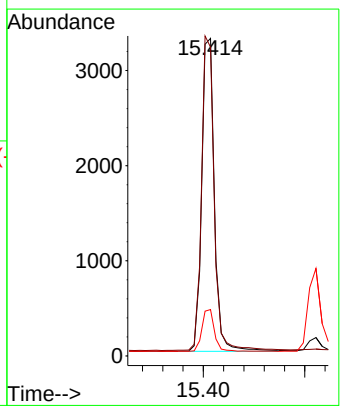
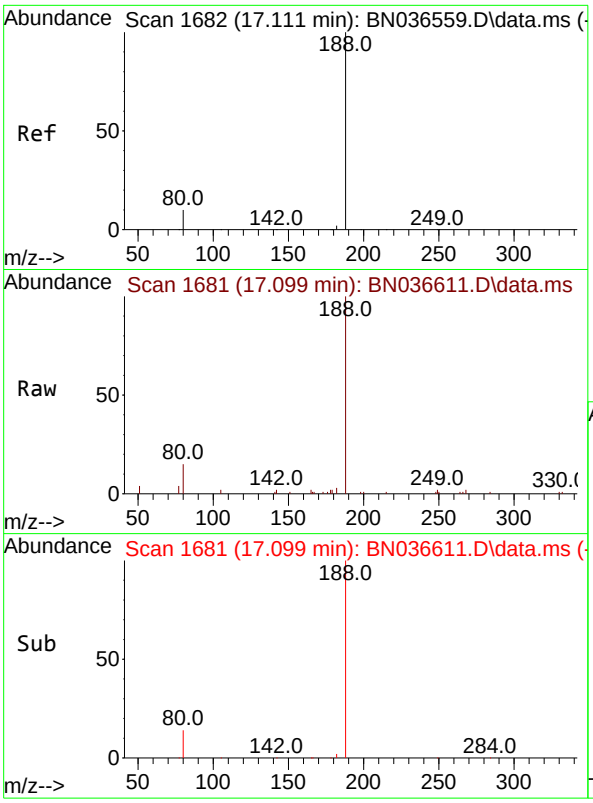


#18
Fluorene
Concen: 0.431 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:166 Resp: 5836

Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.8	119.8
167	12.9	10.6	15.8

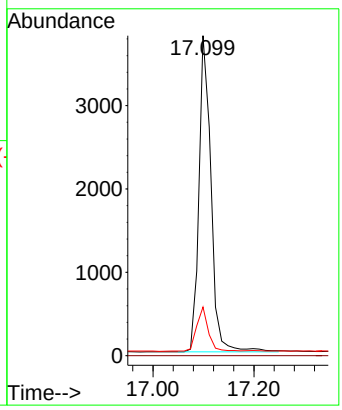




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:188 Resp: 630

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.2	8.8	13.2#



Instrument :
BNA_N
ClientSampleId :
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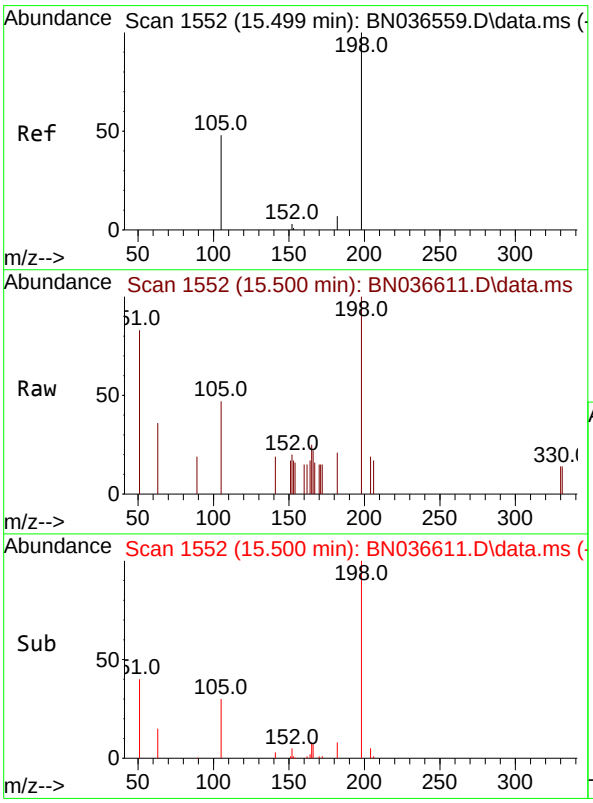
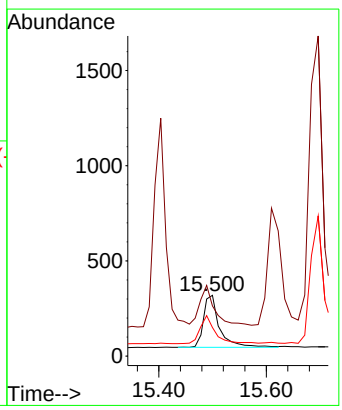
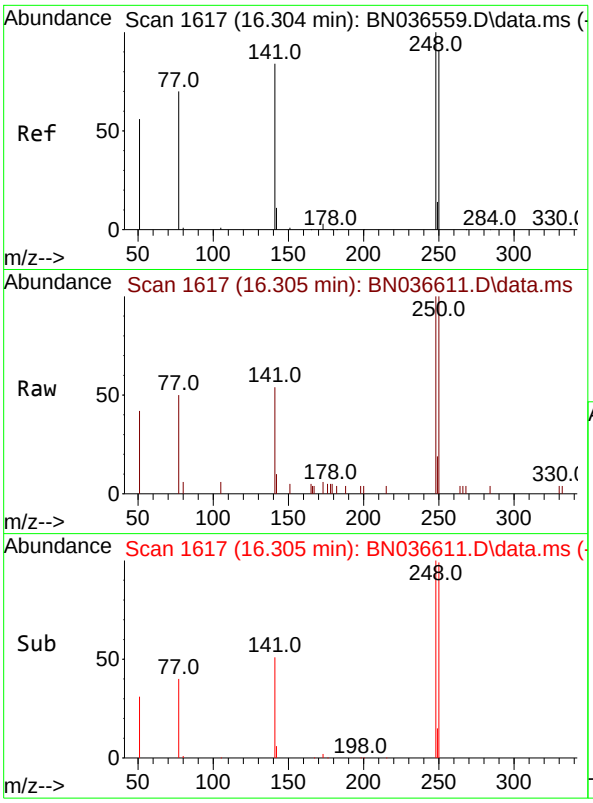


#20
4,6-Dinitro-2-methylphenol
Concen: 0.514 ng
RT: 15.500 min Scan# 1552
Delta R.T. 0.001 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:198 Resp: 594

Ion	Ratio	Lower	Upper
198	100		
51	82.8	107.9	161.9#
105	47.0	56.2	84.2#





#21
4-Bromophenyl-phenylether
Concen: 0.465 ng
RT: 16.305 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:248 Resp: 183(

Ion	Ratio	Lower	Upper
248	100		
250	99.7	73.0	109.6
141	53.6	68.6	103.0#

Instrument :
BNA_N
ClientSampleId :
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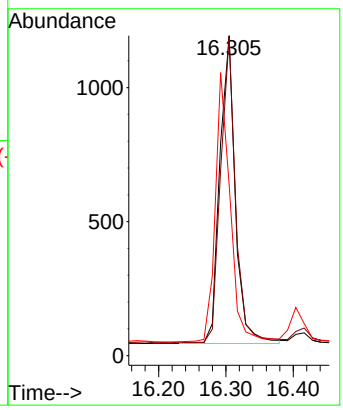
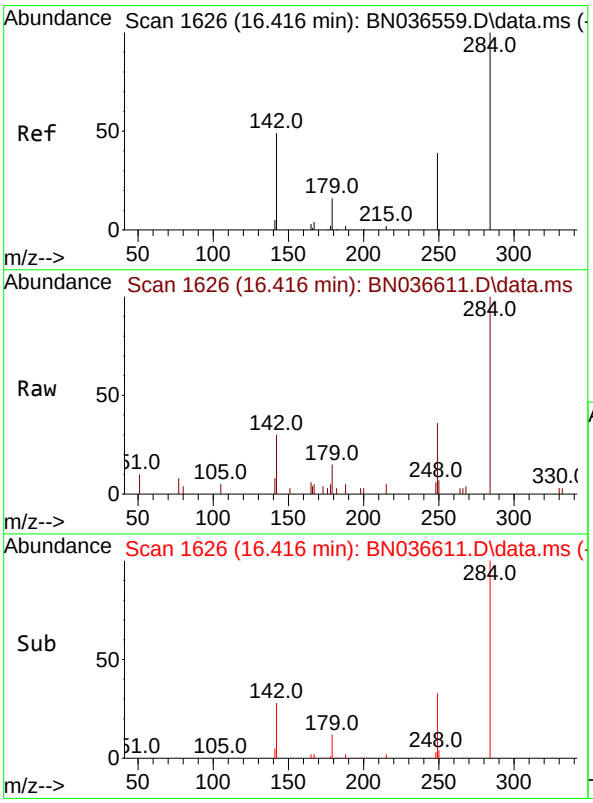
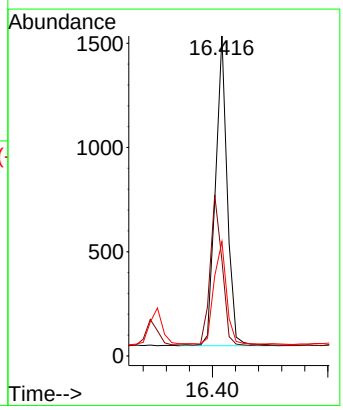


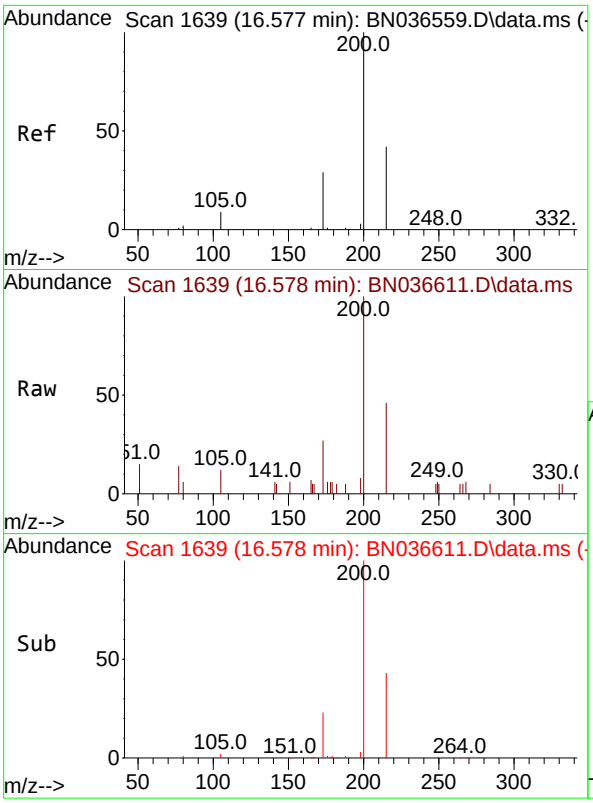


#22
Hexachlorobenzene
Concen: 0.440 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:284 Resp: 2096

Ion	Ratio	Lower	Upper
284	100		
142	49.5	37.0	55.4
249	35.3	28.1	42.1

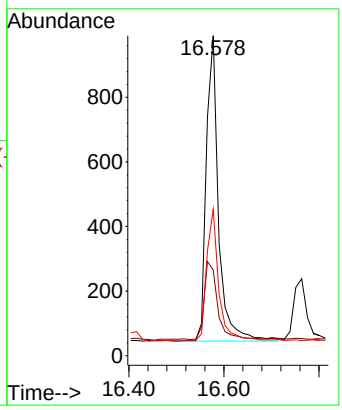




#23
Atrazine
Concen: 0.537 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:200 Resp: 169

Ion	Ratio	Lower	Upper
200	100		
173	26.7	27.3	40.9#
215	45.7	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
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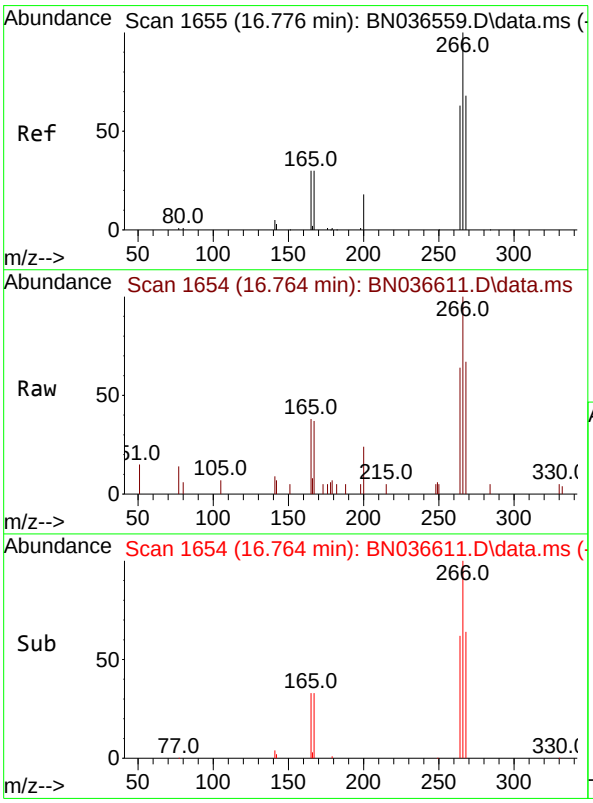
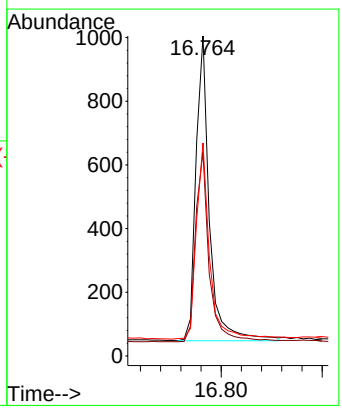
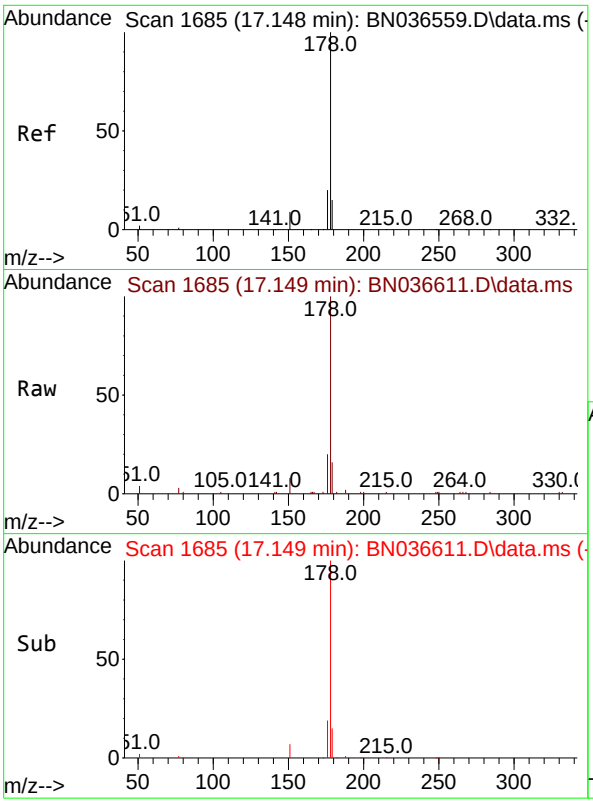


#24
Pentachlorophenol
Concen: 0.817 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:266 Resp: 1776

Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.6	74.4
268	63.7	50.9	76.3

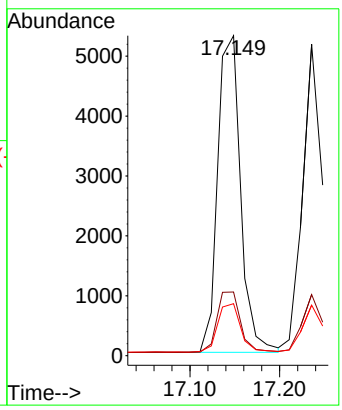




#25
Phenanthrene
Concen: 0.497 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:178 Resp: 939

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.3	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
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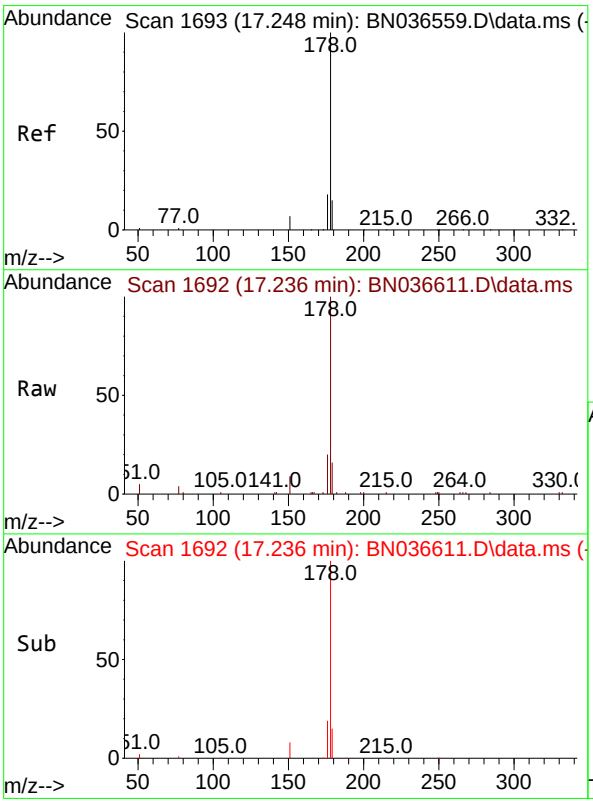
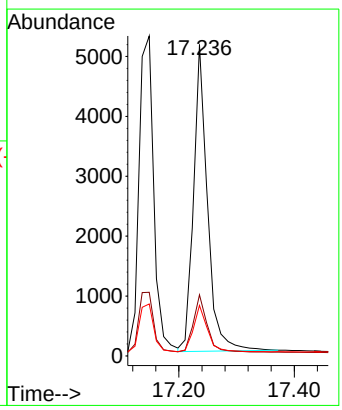
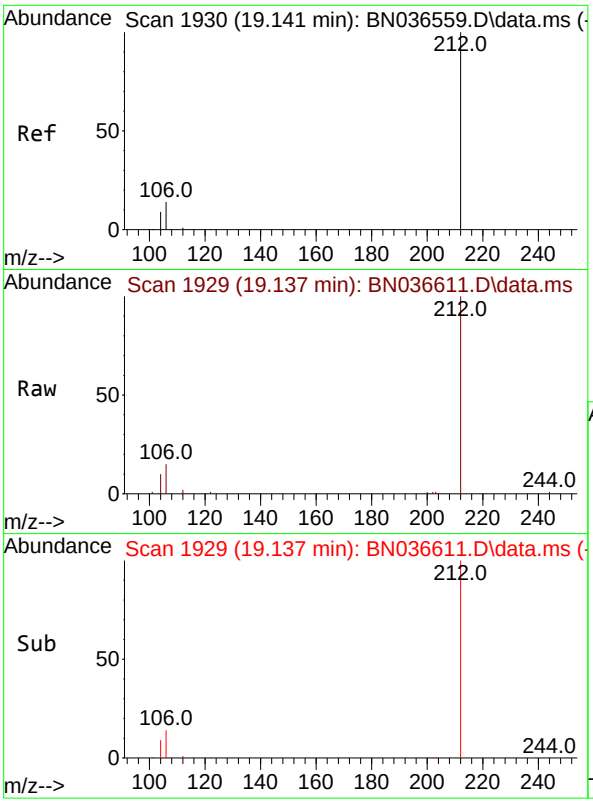


#26
Anthracene
Concen: 0.505 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:178 Resp: 8609

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.5	12.6	18.8

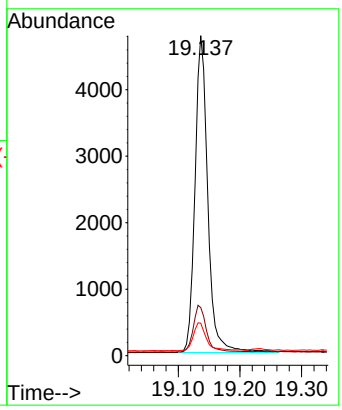




#27
Fluoranthene-d10
Concen: 0.427 ng
RT: 19.137 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:212 Resp: 689

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.4	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
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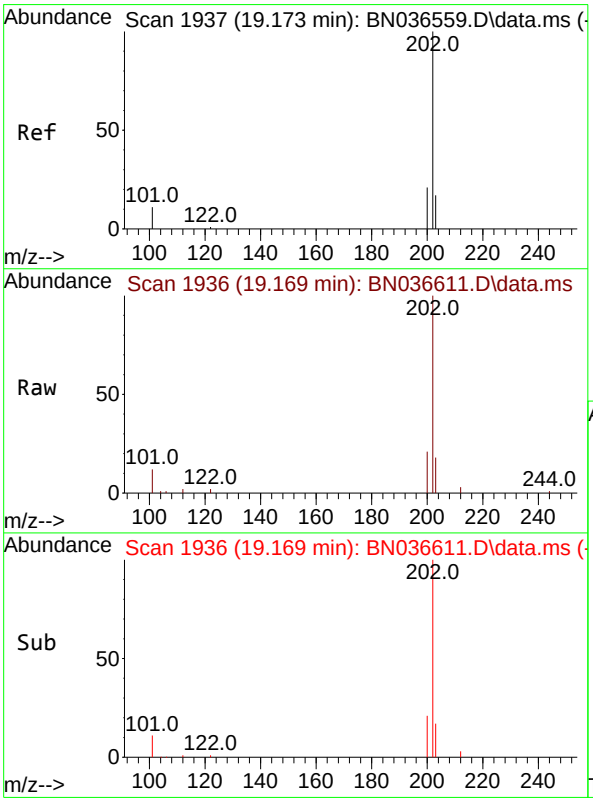
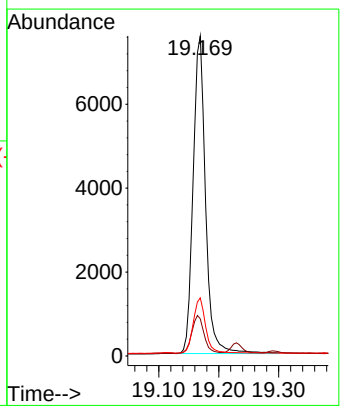
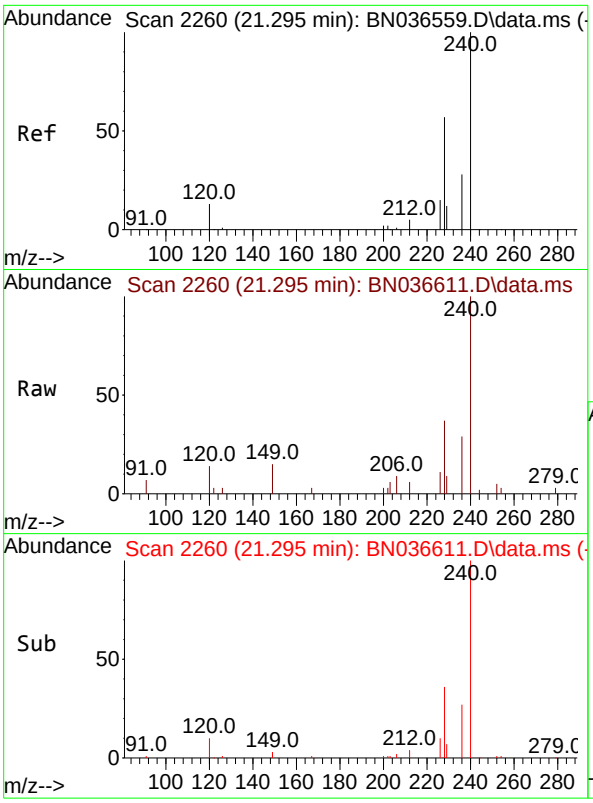


#28
Fluoranthene
Concen: 0.514 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:202 Resp: 10914

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.4	14.0
203	17.3	13.5	20.3

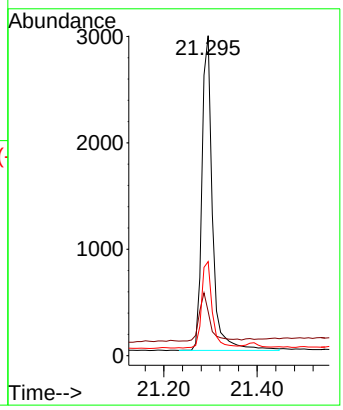




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:240 Resp: 467

Ion	Ratio	Lower	Upper
240	100		
120	13.8	14.6	22.0#
236	29.4	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

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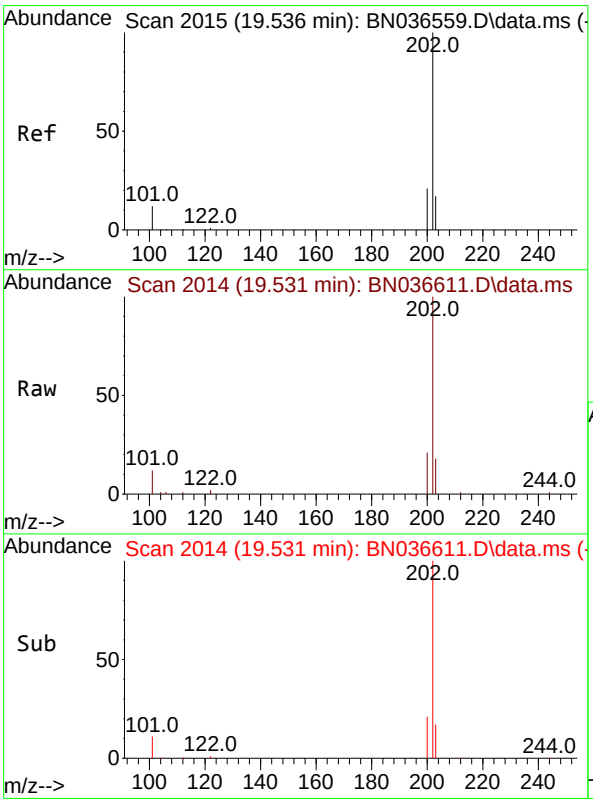
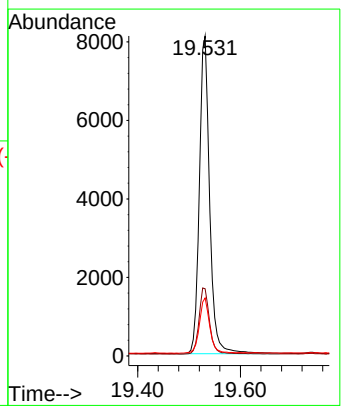
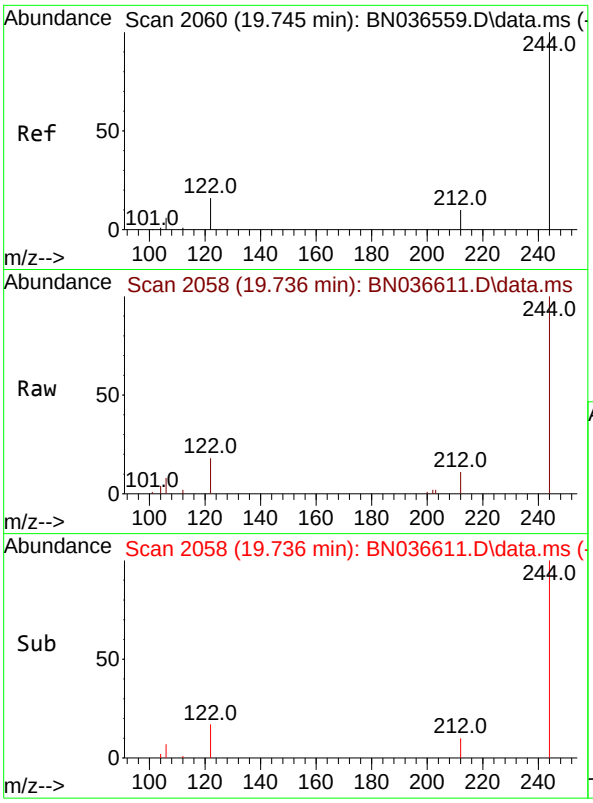


#30
Pyrene
Concen: 0.494 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:202 Resp: 11279

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.5	14.1	21.1

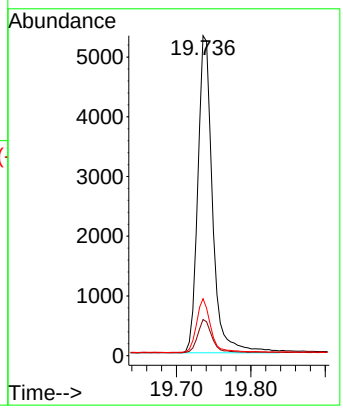




#31
Terphenyl-d14
Concen: 0.652 ng
RT: 19.736 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:244 Resp: 729

Ion	Ratio	Lower	Upper
244	100		
212	11.3	9.6	14.4
122	17.8	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

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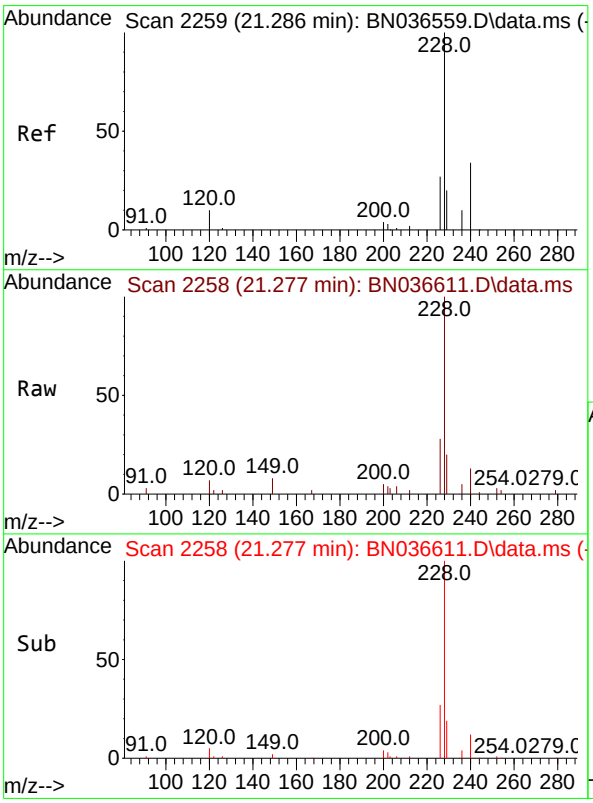
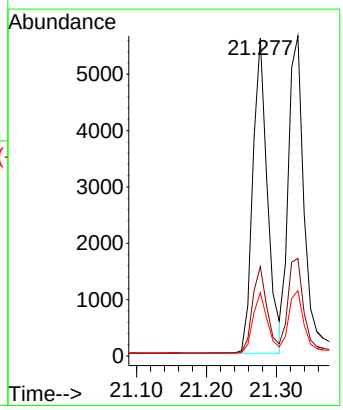
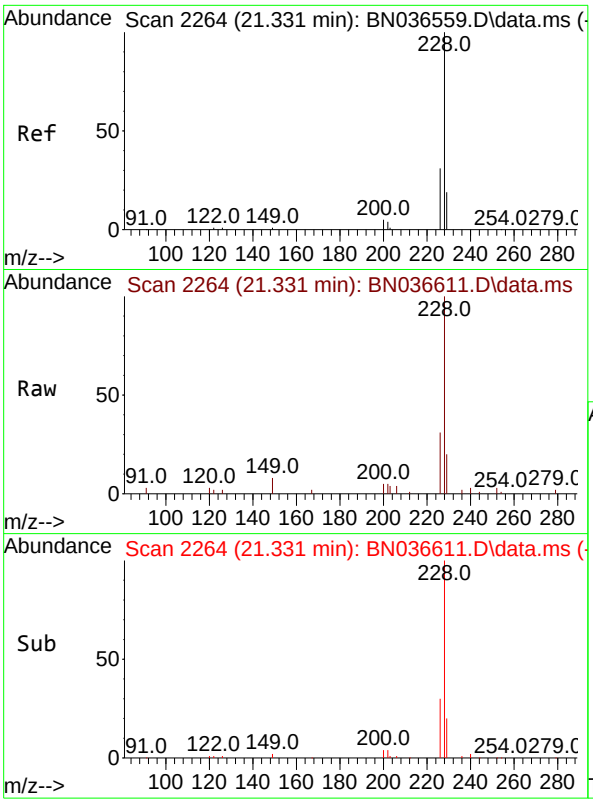


#32
Benzo(a)anthracene
Concen: 0.498 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:228 Resp: 8094

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.9	16.6	25.0

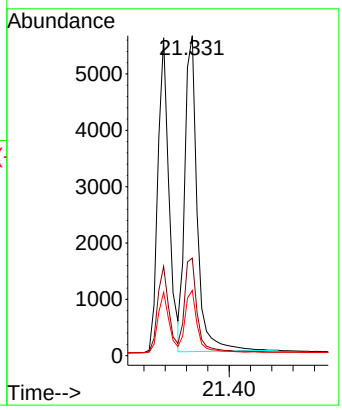




#33
Chrysene
Concen: 0.509 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:228 Resp: 904

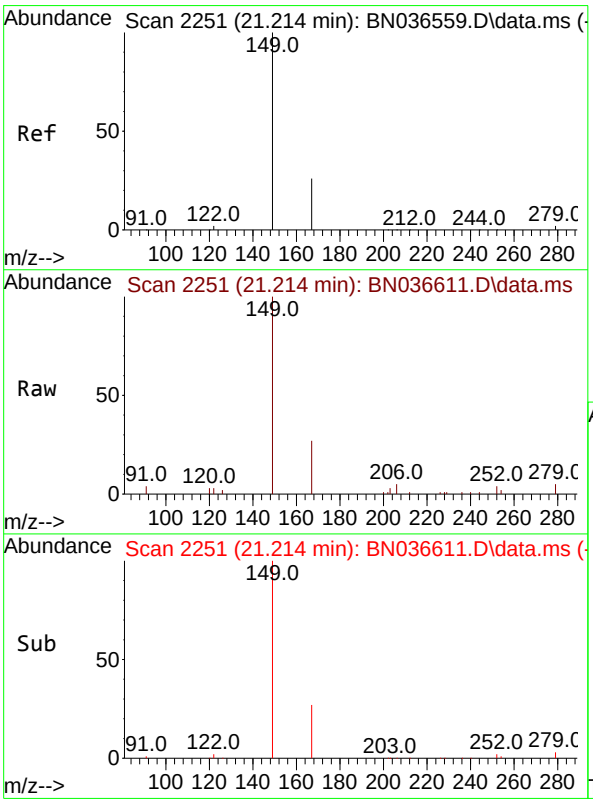
Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.3	37.9
229	20.4	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Manual Integrations
APPROVED

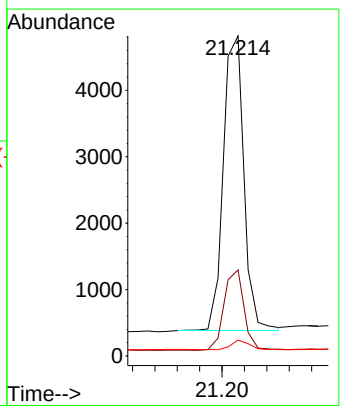
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

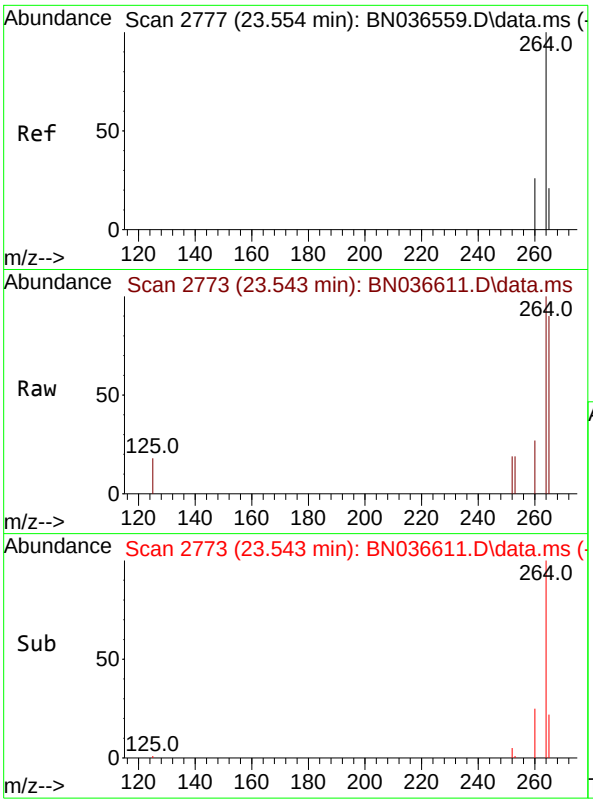


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.490 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:149 Resp: 5667

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.0	3.6	5.4#

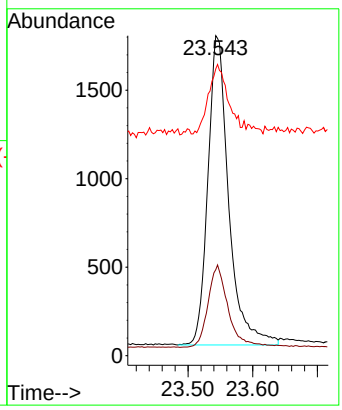




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 2
Delta R.T. -0.011 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:264 Resp: 390

Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.6	33.8
265	89.7	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

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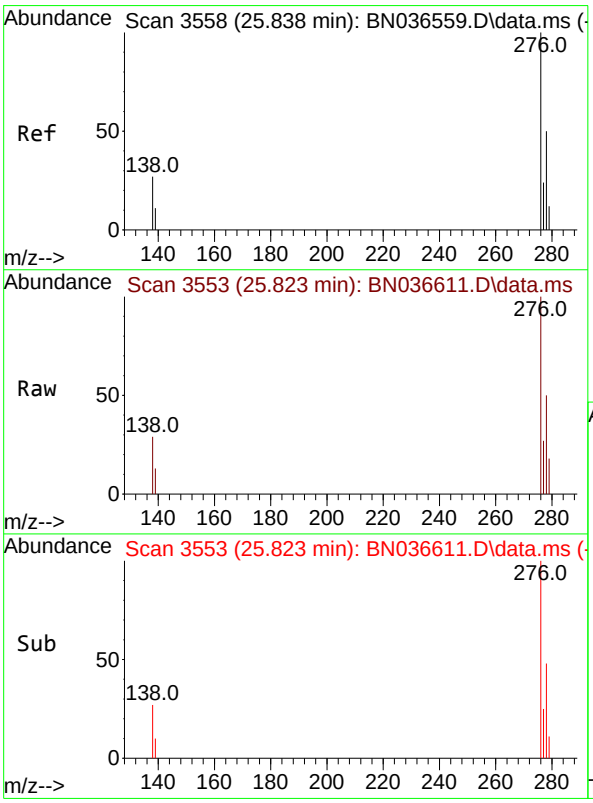
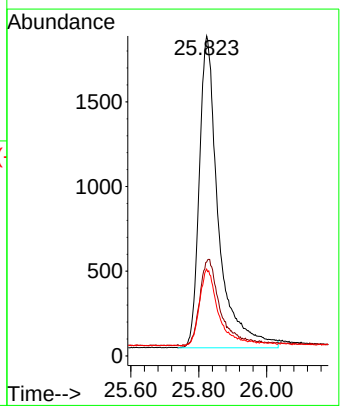
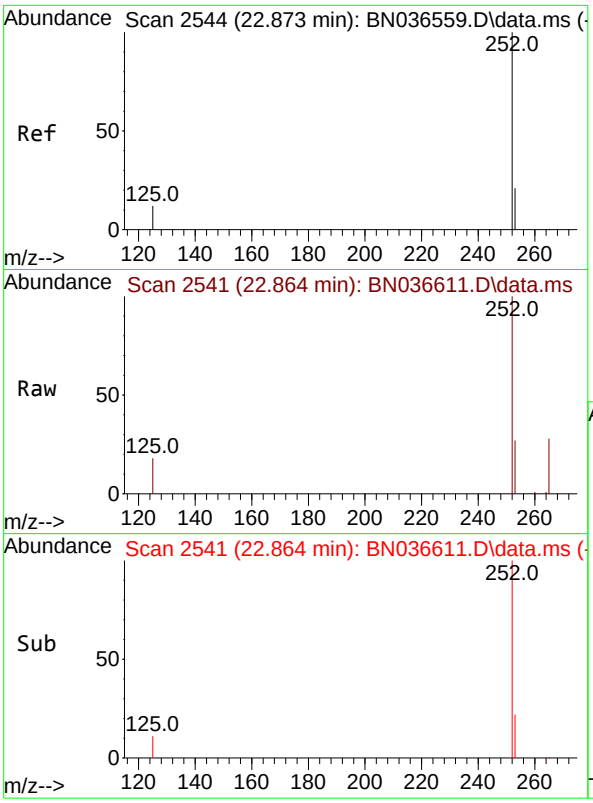


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.513 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.014 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:276 Resp: 7222

Ion	Ratio	Lower	Upper
276	100		
138	29.4	23.4	35.2
277	24.4	20.0	30.0

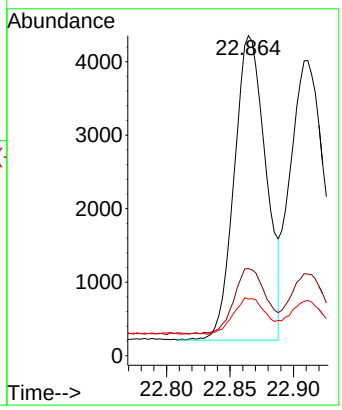




#37
Benzo(b)fluoranthene
Concen: 0.508 ng
RT: 22.864 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:252 Resp: 721

Ion	Ratio	Lower	Upper
252	100		
253	27.2	23.9	35.9
125	17.7	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

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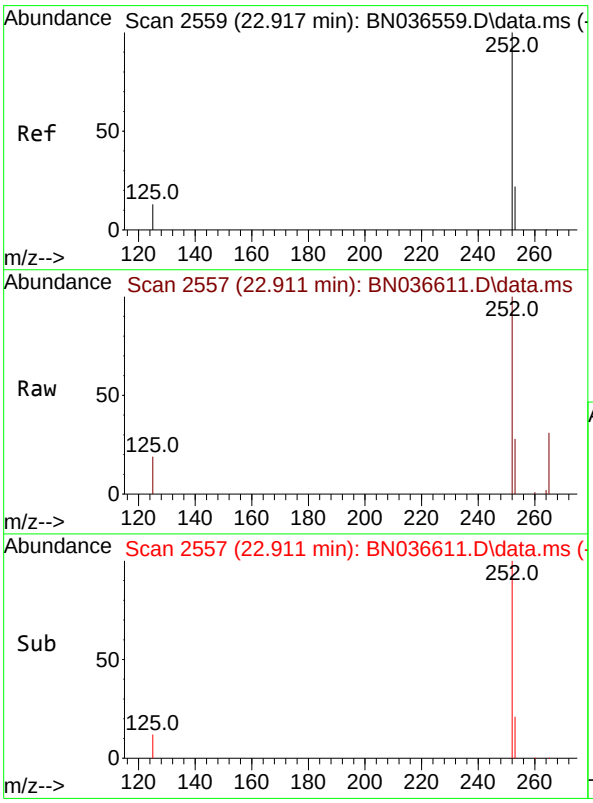
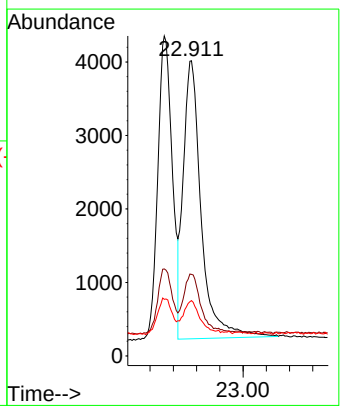
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

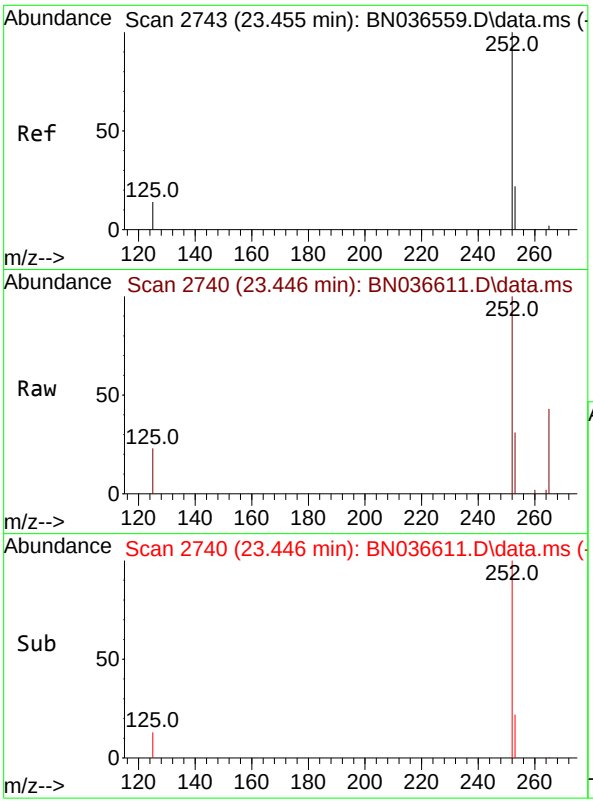


#38
Benzo(k)fluoranthene
Concen: 0.544 ng
RT: 22.911 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:252 Resp: 8111

Ion	Ratio	Lower	Upper
252	100		
253	27.6	24.6	36.8
125	18.7	17.8	26.8

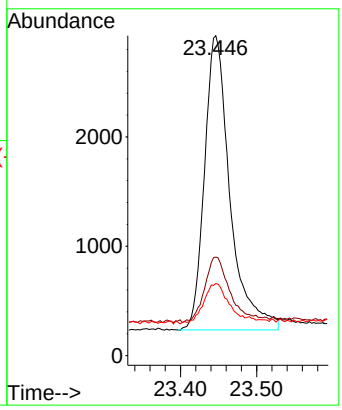




#39
Benzo(a)pyrene
Concen: 0.523 ng
RT: 23.446 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:252 Resp: 626

Ion	Ratio	Lower	Upper
252	100		
253	30.8	27.8	41.8
125	22.5	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

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Reviewed By :Anahy Claudio 03/17/2025
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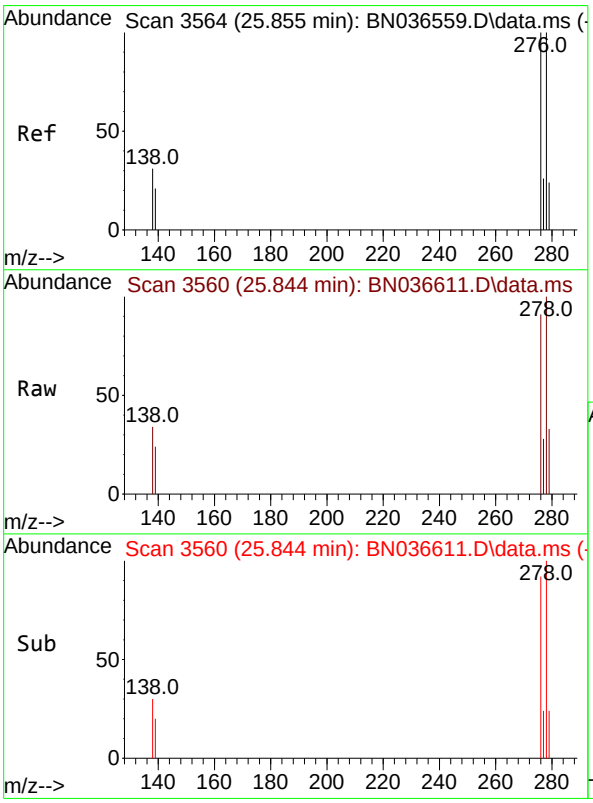
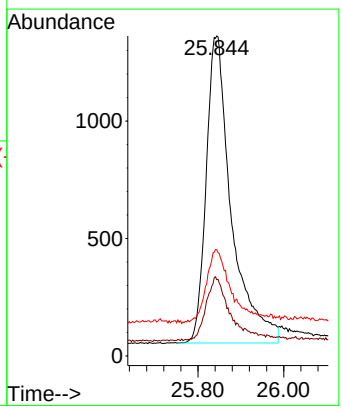
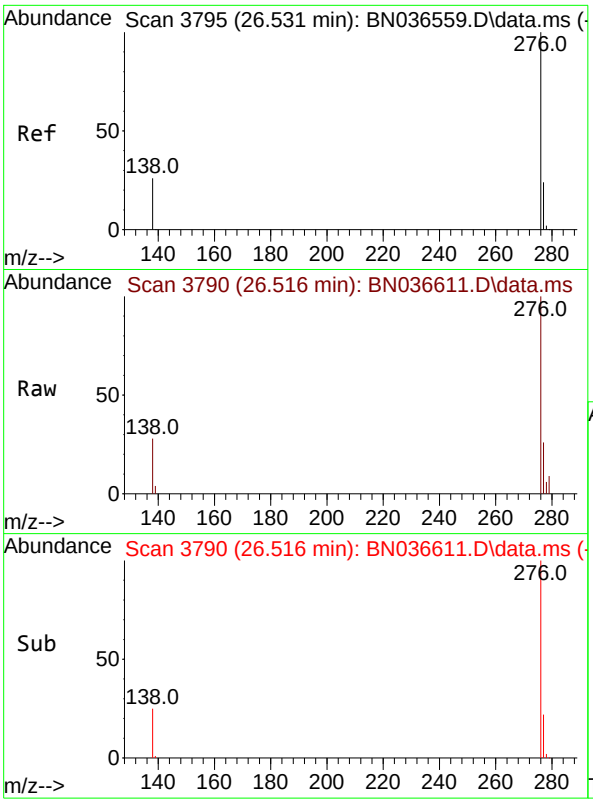


#40
Dibenzo(a,h)anthracene
Concen: 0.487 ng
RT: 25.844 min Scan# 3560
Delta R.T. -0.011 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:278 Resp: 5342

Ion	Ratio	Lower	Upper
278	100		
139	23.9	20.8	31.2
279	33.2	28.8	43.2

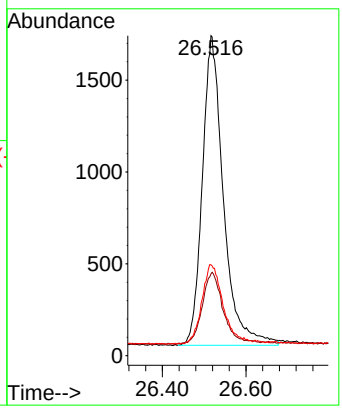




#41
Benzo(g,h,i)perylene
Concen: 0.471 ng
RT: 26.516 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:276 Resp: 590

Ion	Ratio	Lower	Upper
276	100		
277	25.5	22.2	33.4
138	28.4	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/12/25
Project:	NJ Waste Water PT	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MSD	SDG No.:	Q1502
Lab Sample ID:	Q1557-05MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036612.D	1	03/13/25 12:40	03/14/25 18:00	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	0.55		0.15	0.20	ug/L
87-86-5	Pentachlorophenol	0.87		0.11	0.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	0.18		10 - 100	44%	SPK: 0.4
13127-88-3	Phenol-d6	0.11		10 - 100	26%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.43		10 - 131	106%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2510	7.717			
1146-65-2	Naphthalene-d8	5930	10.509			
15067-26-2	Acenaphthene-d10	3540	14.355			
1517-22-2	Phenanthrene-d10	7130	17.099			
1719-03-5	Chrysene-d12	5440	21.295			
1520-96-3	Perylene-d12	4600	23.545			

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\BN031425\
Data File : BN036612.D
Acq On : 14 Mar 2025 18:00
Operator : RC/JU
Sample : Q1557-05MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

Quant Time: Mar 14 18:28:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2513	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5928	0.400	ng	# 0.00
13) Acenaphthene-d10	14.355	164	3540	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	7131	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	5437	0.400	ng	# 0.00
35) Perylene-d12	23.545	264	4602	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1036	0.177	ng	0.00
5) Phenol-d6	6.894	99	757	0.105	ng	0.00
8) Nitrobenzene-d5	8.864	82	2305	0.357	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	3398m	0.385	ng	-0.01
14) 2,4,6-Tribromophenol	15.845	330	684	0.426	ng	-0.01
15) 2-Fluorobiphenyl	12.983	172	8402	0.408	ng	0.00
27) Fluoranthene-d10	19.136	212	8120	0.444	ng	0.00
31) Terphenyl-d14	19.736	244	8966	0.688	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	640	0.230	ng	# 41
3) n-Nitrosodimethylamine	3.557	42	1129	0.200	ng	97
6) bis(2-Chloroethyl)ether	7.146	93	3050	0.408	ng	94
9) Naphthalene	10.551	128	7475	0.429	ng	100
10) Hexachlorobutadiene	10.850	225	1621	0.395	ng	# 99
12) 2-Methylnaphthalene	12.172	142	4879	0.440	ng	99
16) Acenaphthylene	14.077	152	7951	0.476	ng	100
17) Acenaphthene	14.420	154	5036	0.461	ng	99
18) Fluorene	15.403	166	6879	0.465	ng	99
20) 4,6-Dinitro-2-methylph...	15.489	198	731	0.546	ng	# 79
21) 4-Bromophenyl-phenylether	16.304	248	2150	0.481	ng	# 77
22) Hexachlorobenzene	16.416	284	2452	0.455	ng	96
23) Atrazine	16.577	200	1972	0.550	ng	# 93
24) Pentachlorophenol	16.764	266	2125	0.864	ng	99
25) Phenanthrene	17.148	178	11219	0.524	ng	100
26) Anthracene	17.235	178	10217	0.529	ng	99
28) Fluoranthene	19.164	202	13048	0.543	ng	99
30) Pyrene	19.531	202	13477	0.507	ng	100
32) Benzo(a)anthracene	21.277	228	10027	0.530	ng	99
33) Chrysene	21.330	228	11154	0.540	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	6969	0.518	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.823	276	9000	0.542	ng	99
37) Benzo(b)fluoranthene	22.864	252	8987	0.537	ng	# 92
38) Benzo(k)fluoranthene	22.911	252	9690	0.551	ng	# 91
39) Benzo(a)pyrene	23.443	252	8100	0.574	ng	# 87
40) Dibenzo(a,h)anthracene	25.841	278	6755	0.522	ng	92
41) Benzo(g,h,i)perylene	26.513	276	7272	0.492	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036612.D
Acq On : 14 Mar 2025 18:00
Operator : RC/JU
Sample : Q1557-05MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 14 18:28:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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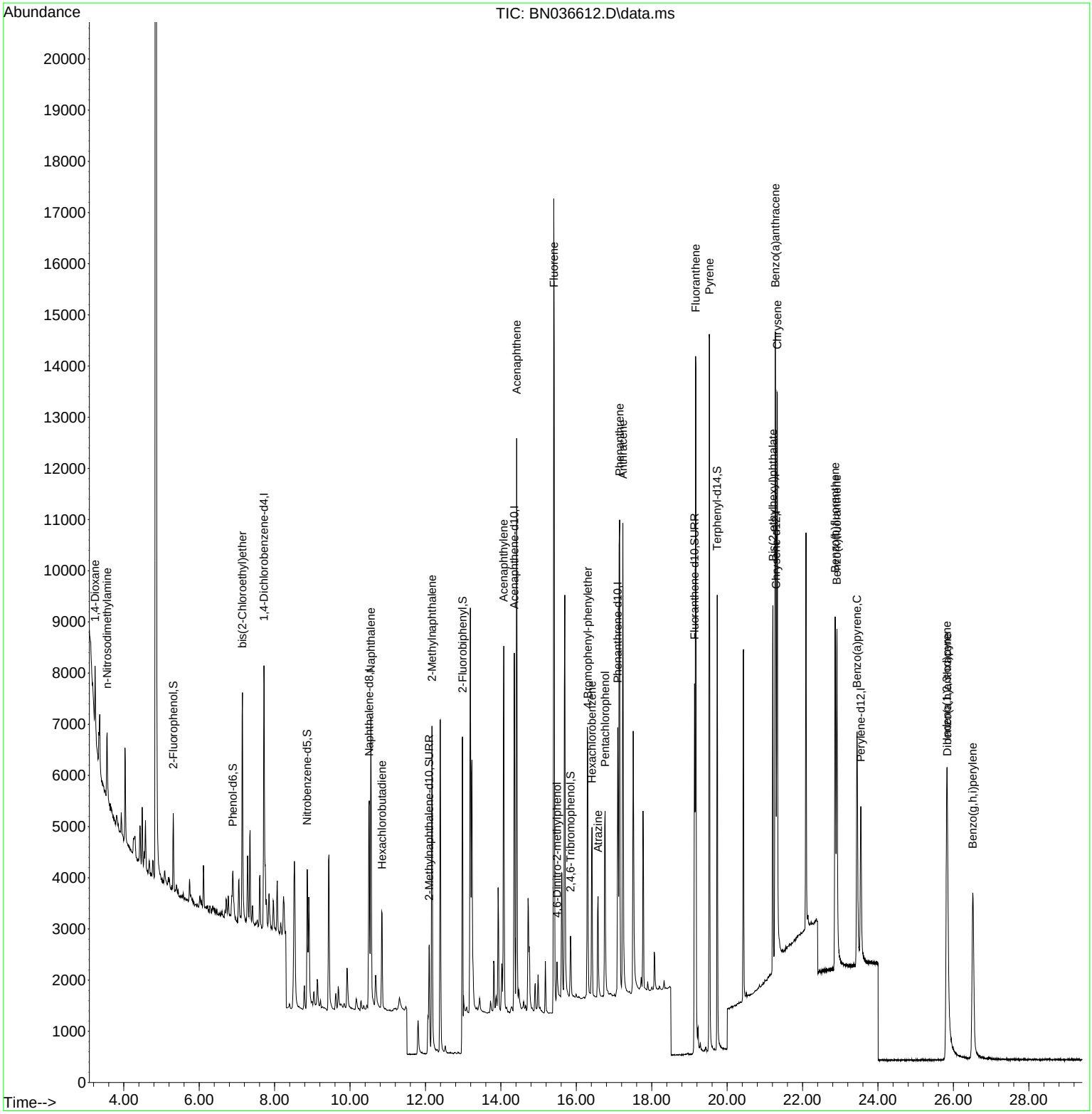
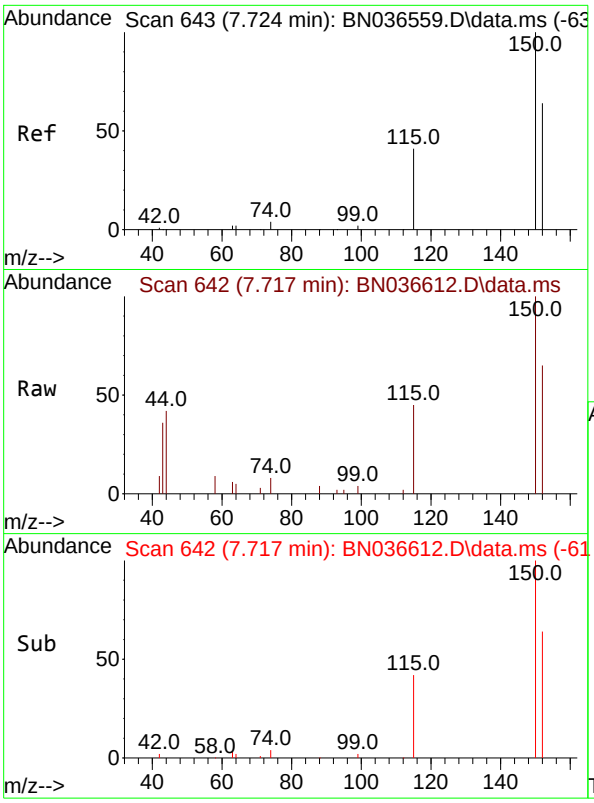
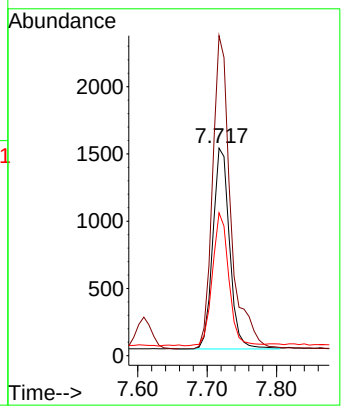




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:152 Resp: 251

Ion	Ratio	Lower	Upper
152	100		
150	154.2	123.7	185.5
115	68.9	54.3	81.5



Instrument :
BNA_N
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BPOW6-9-20250312MSD

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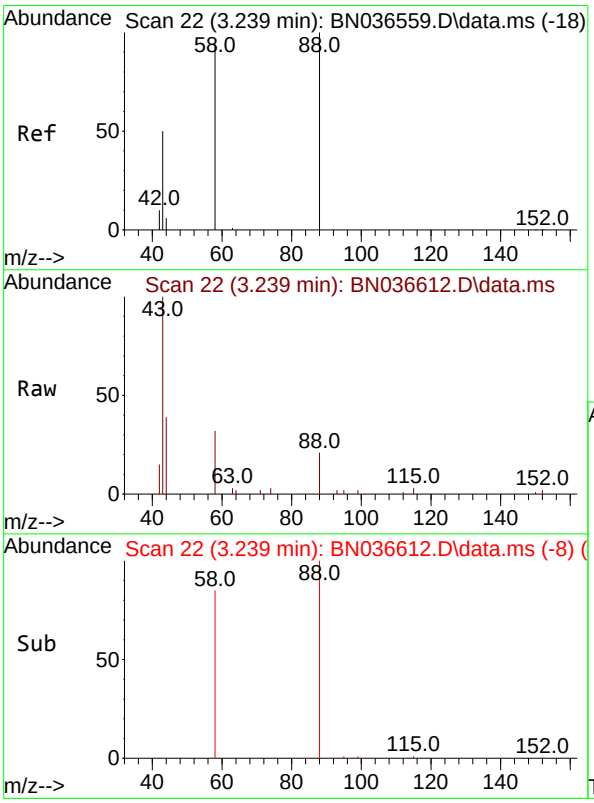
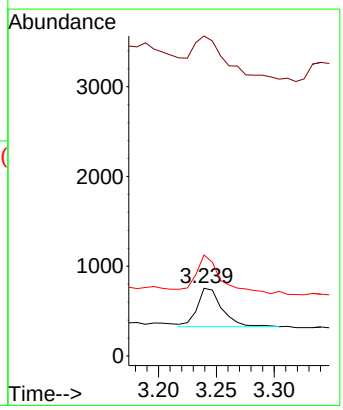
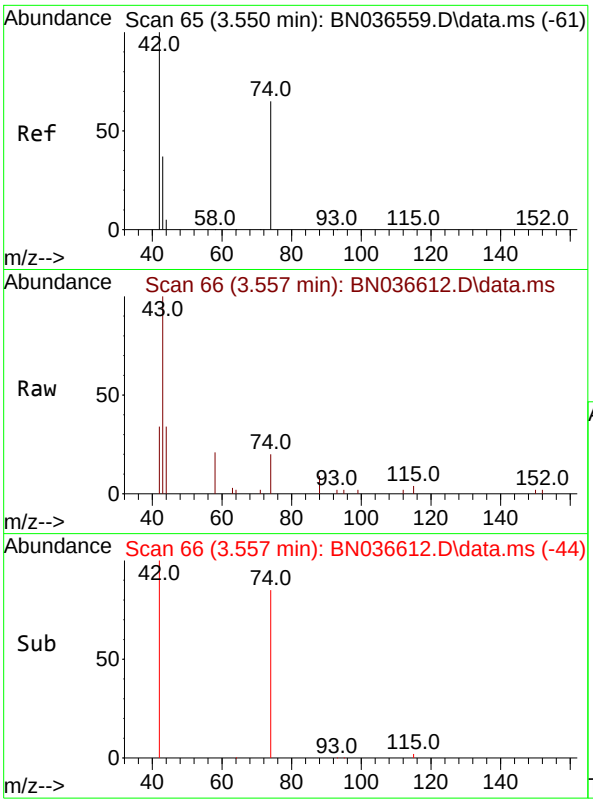


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion: 88 Resp: 640

Ion	Ratio	Lower	Upper
88	100		
43	137.8	37.8	56.8#
58	99.7	67.4	101.2

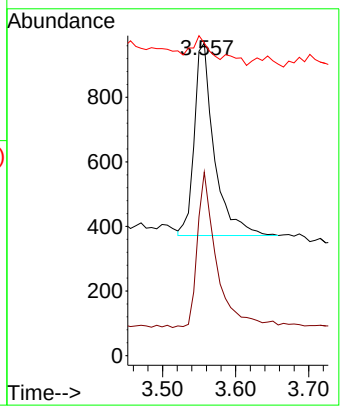




#3
n-Nitrosodimethylamine
Concen: 0.200 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion: 42 Resp: 112

Ion	Ratio	Lower	Upper
42	100		
74	78.2	60.6	90.8
44	8.9	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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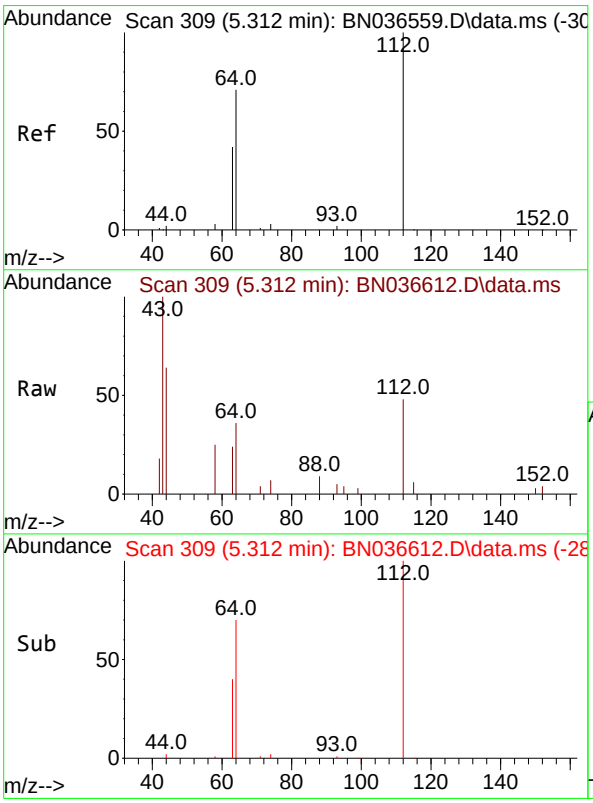
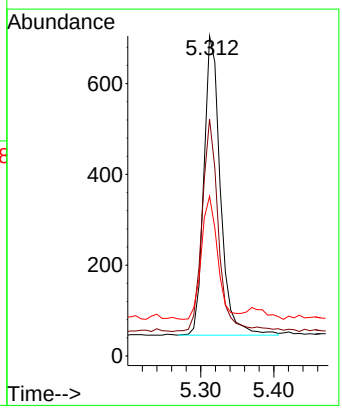
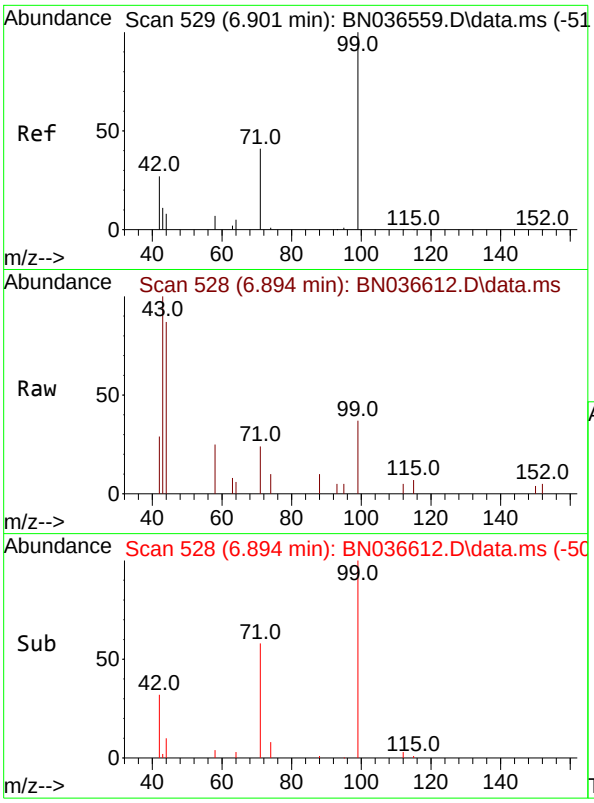


#4
2-Fluorophenol
Concen: 0.177 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:112 Resp: 1036

Ion	Ratio	Lower	Upper
112	100		
64	70.9	53.1	79.7
63	40.3	31.8	47.8

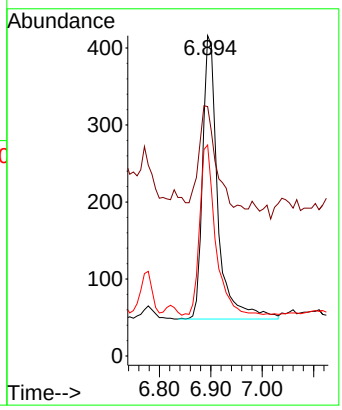




#5
Phenol-d6
Concen: 0.105 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion: 99 Resp: 75

Ion	Ratio	Lower	Upper
99	100		
42	40.3	26.5	39.7#
71	63.0	34.1	51.1#



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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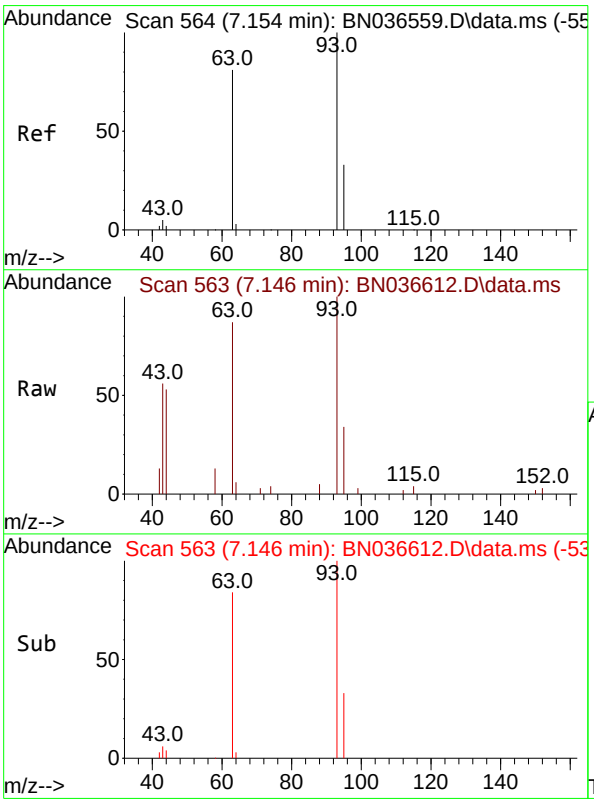
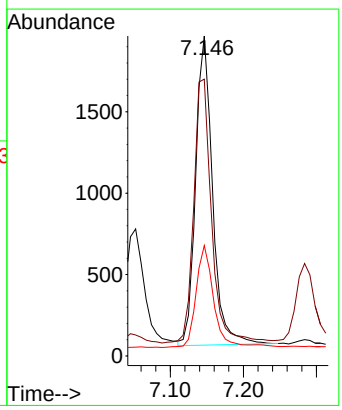
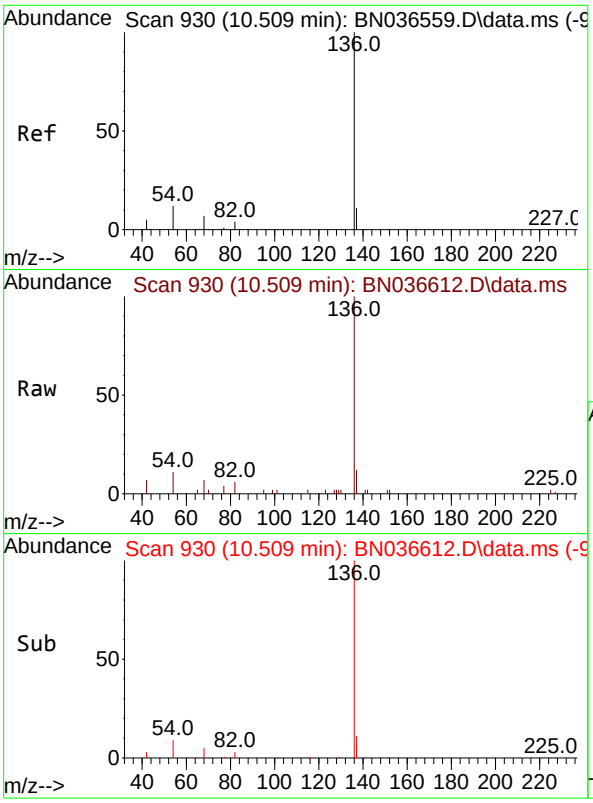


#6
bis(2-Chloroethyl)ether
Concen: 0.408 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion: 93 Resp: 3050

Ion	Ratio	Lower	Upper
93	100		
63	90.3	67.7	101.5
95	34.8	25.6	38.4

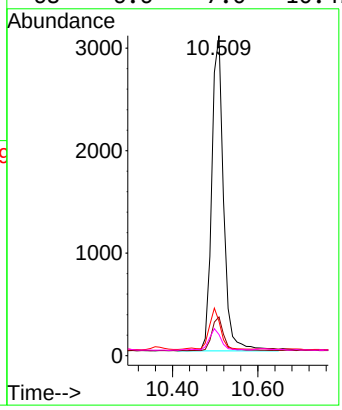




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:136 Resp: 592

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	10.7	11.5	17.3#
68	6.6	7.0	10.4#



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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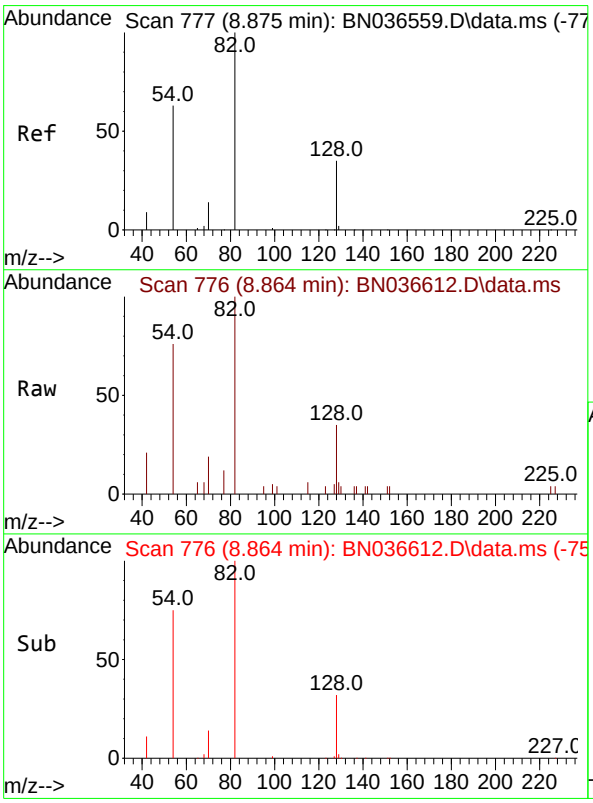
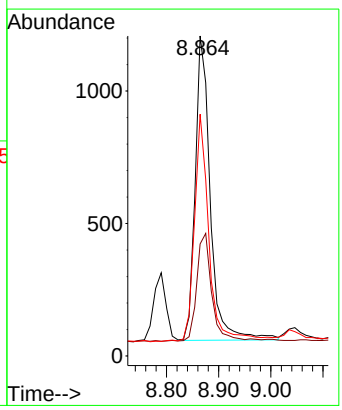
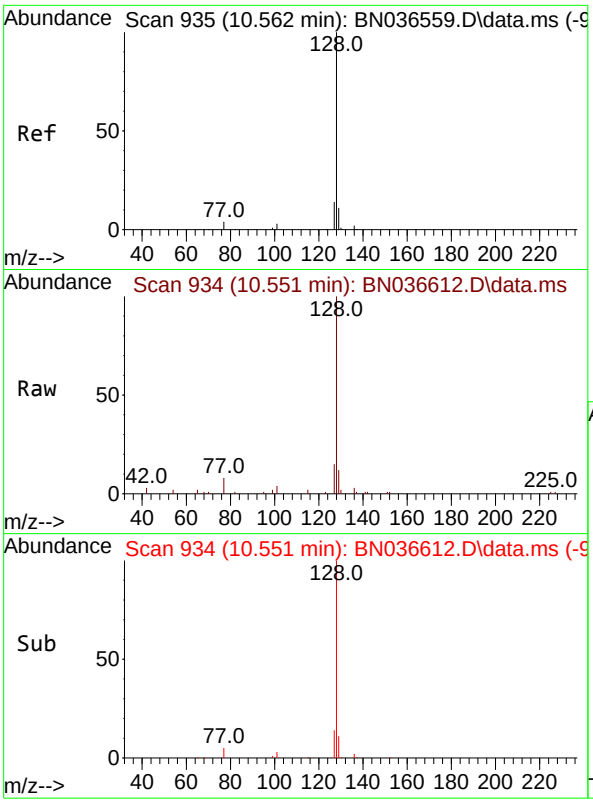


#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion: 82 Resp: 2305

Ion	Ratio	Lower	Upper
82	100		
128	35.0	30.6	45.8
54	75.6	52.2	78.4

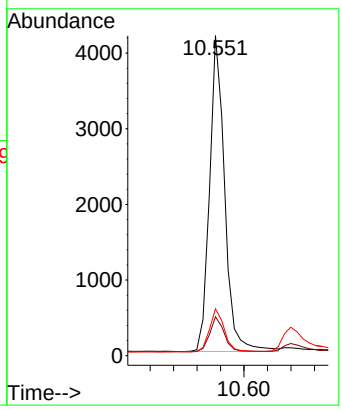




#9
Naphthalene
Concen: 0.429 ng
RT: 10.551 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:128 Resp: 747

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.6	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
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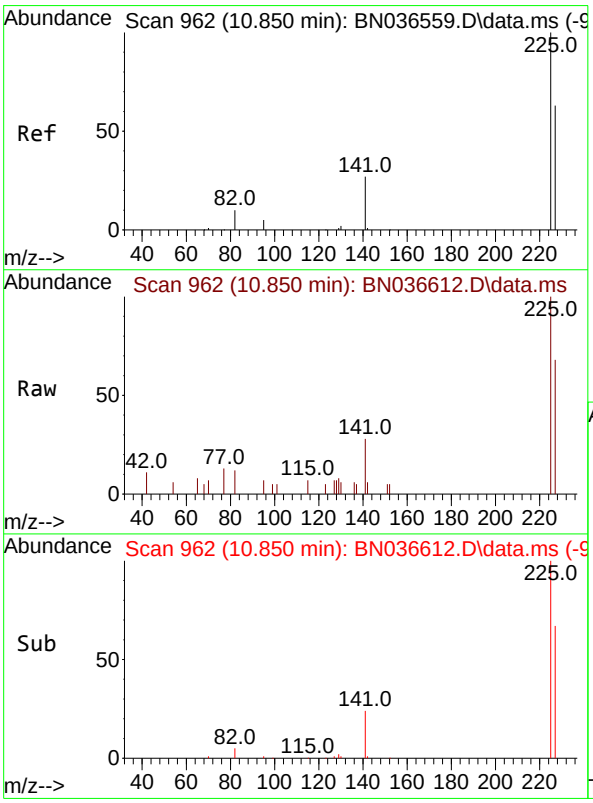
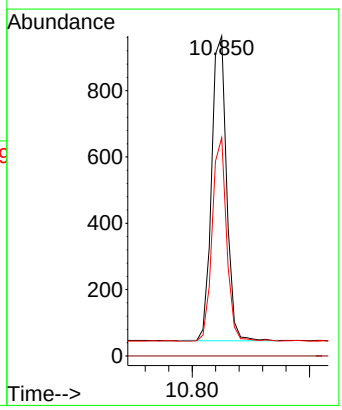
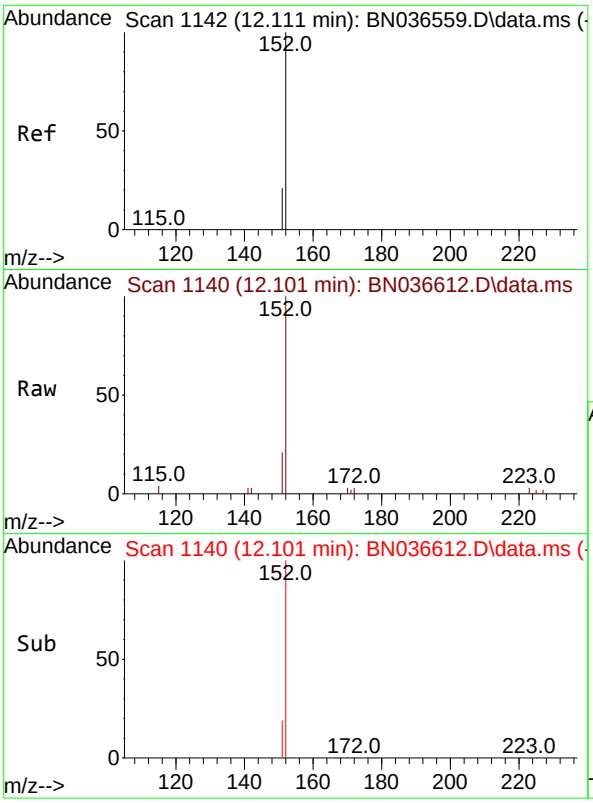


#10
Hexachlorobutadiene
Concen: 0.395 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:225 Resp: 1621

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.8	77.8

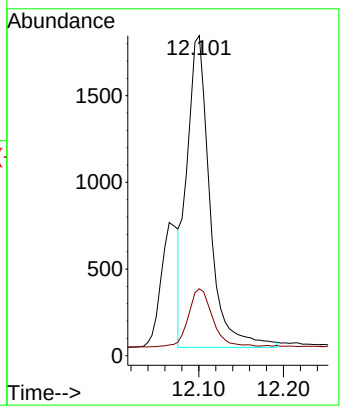




#11
2-Methylnaphthalene-d10
Concen: 0.385 ng m
RT: 12.101 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:152 Resp: 339

Ion	Ratio	Lower	Upper
152	100		
151	19.7	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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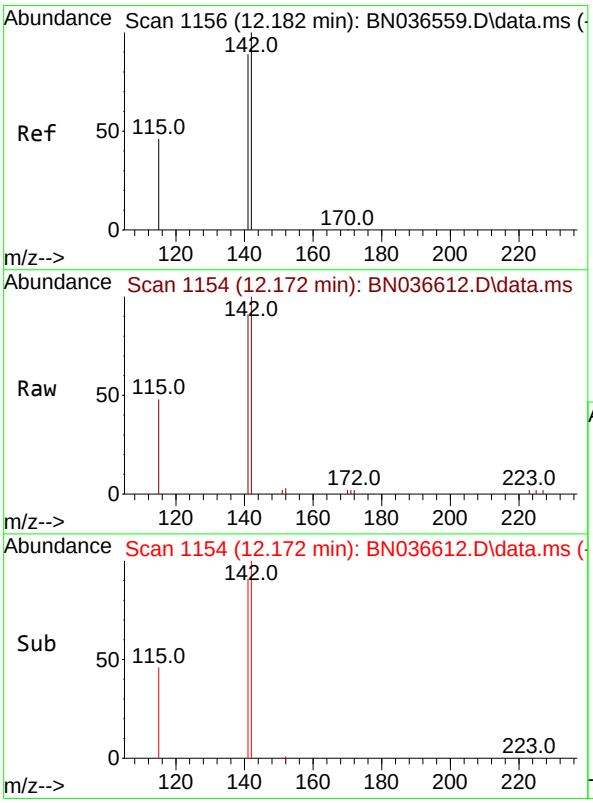
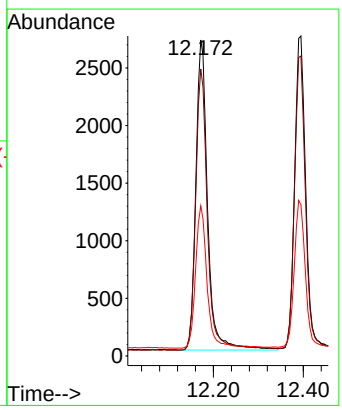
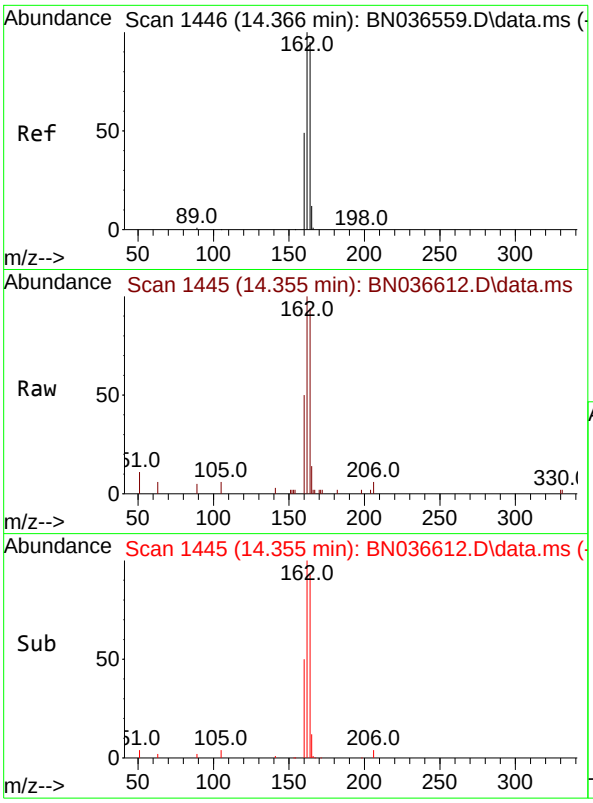


#12
2-Methylnaphthalene
Concen: 0.440 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:142 Resp: 4879

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.7	107.5
115	47.5	38.3	57.5

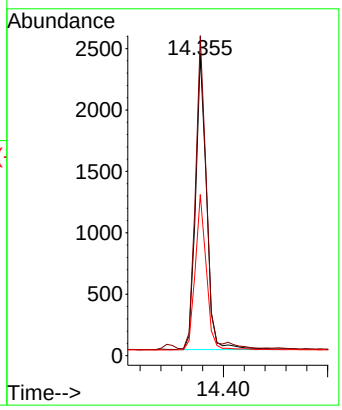




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:164 Resp: 354

Ion	Ratio	Lower	Upper
164	100		
162	106.5	84.2	126.2
160	53.7	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
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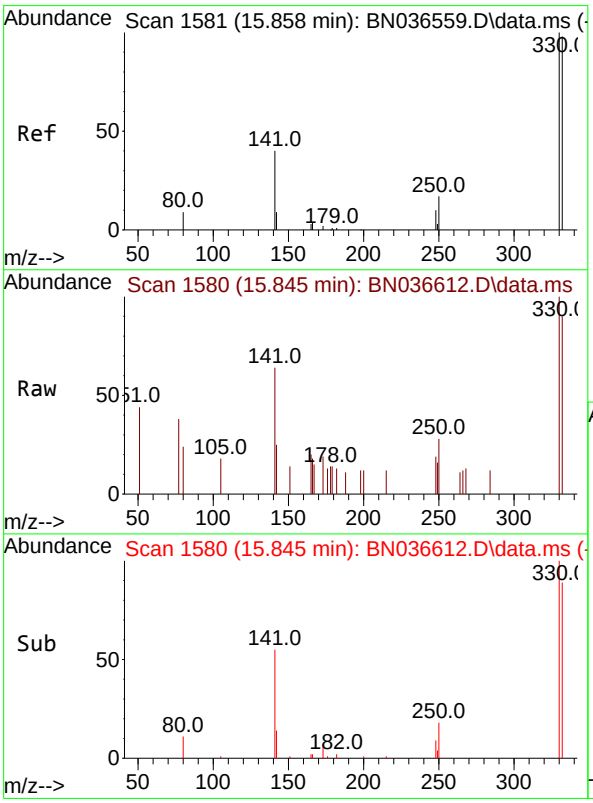
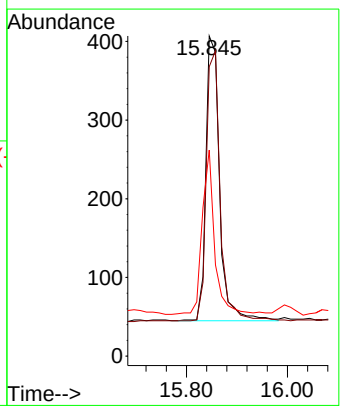
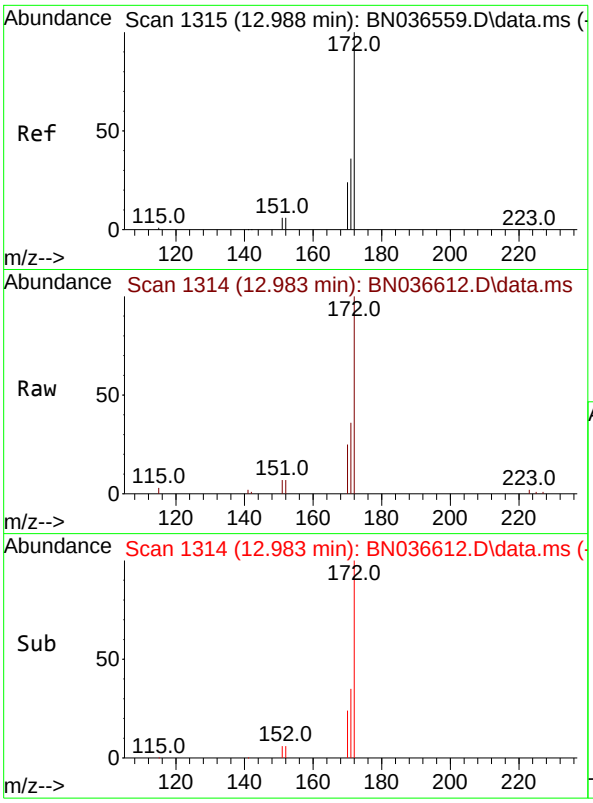


#14
2,4,6-Tribromophenol
Concen: 0.426 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:330 Resp: 684

Ion	Ratio	Lower	Upper
330	100		
332	95.3	75.2	112.8
141	52.6	43.4	65.2

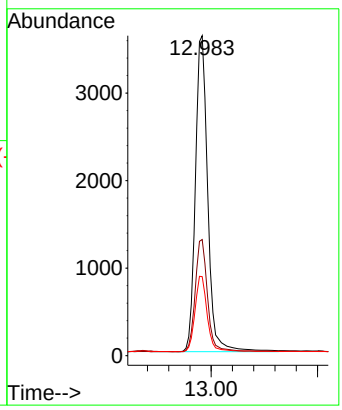




#15
2-Fluorobiphenyl
Concen: 0.408 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:172 Resp: 840

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.5	44.3
170	24.7	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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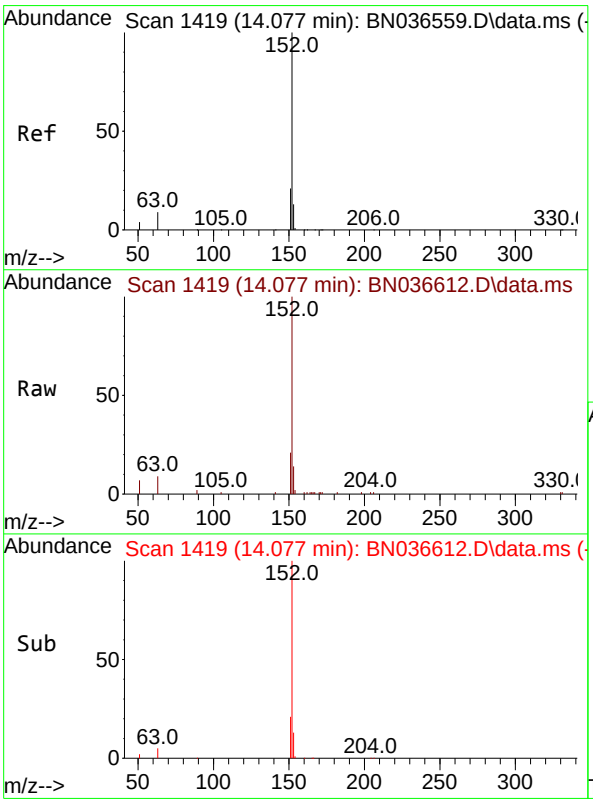
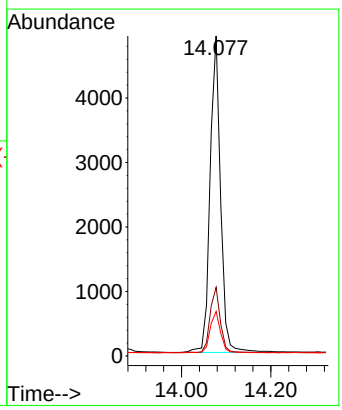
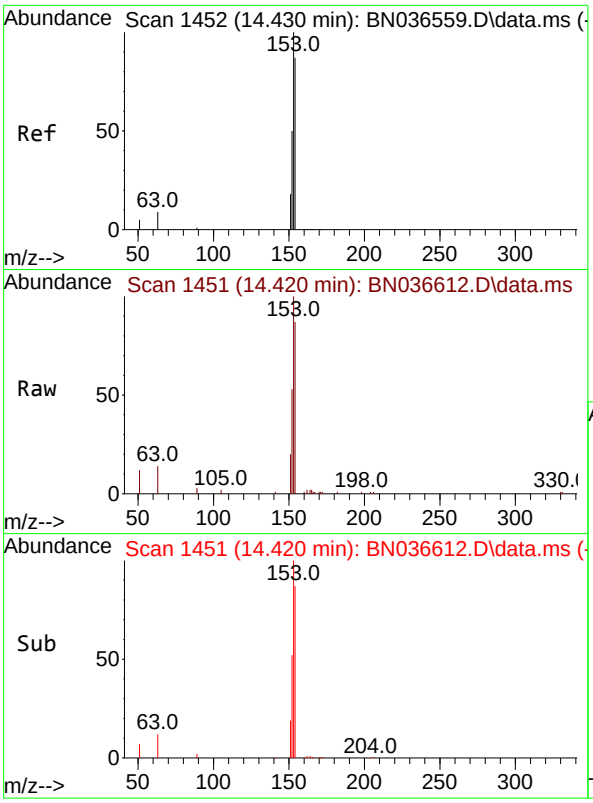


#16
Acenaphthylene
Concen: 0.476 ng
RT: 14.077 min Scan# 1419
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:152 Resp: 7951

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.0	10.6	15.8





#17
Acenaphthene
Concen: 0.461 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:154 Resp: 503(

Ion	Ratio	Lower	Upper
154	100		
153	118.3	94.1	141.1
152	61.7	49.8	74.6

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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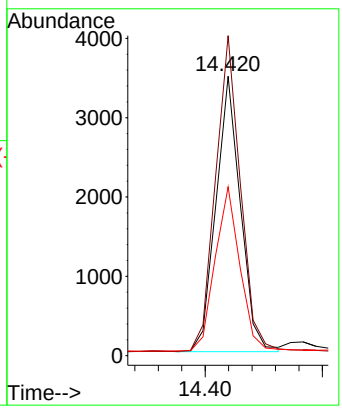
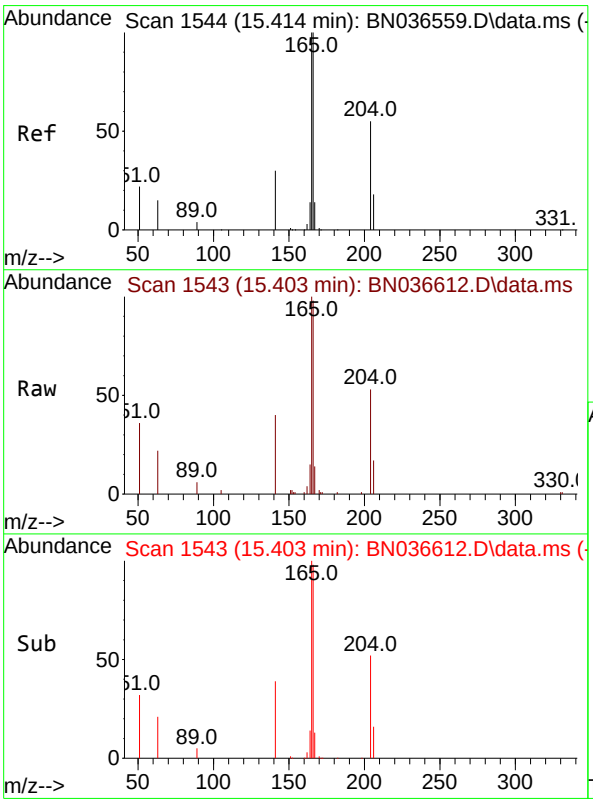
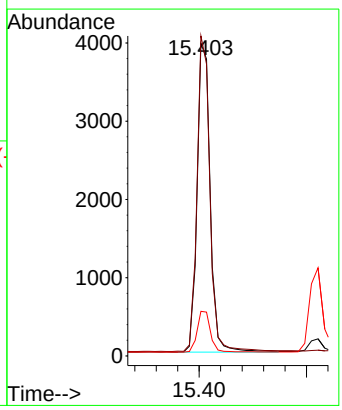


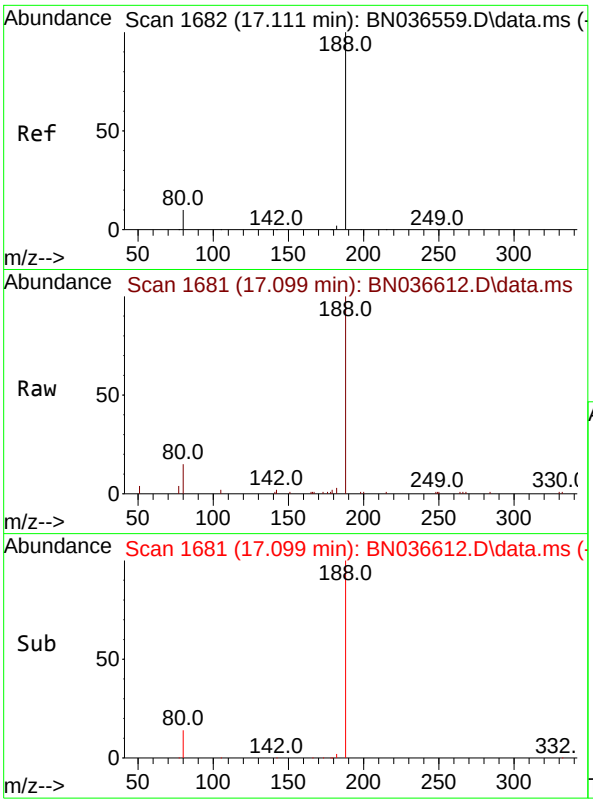


#18
Fluorene
Concen: 0.465 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:166 Resp: 6879

Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.8	119.8
167	13.5	10.6	15.8

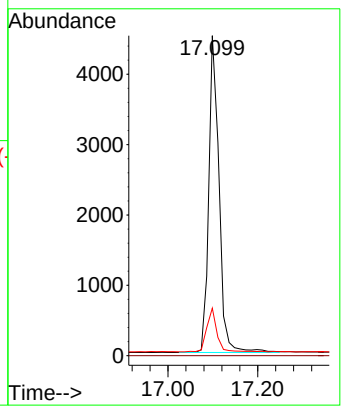




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:188 Resp: 713

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.8	8.8	13.2#



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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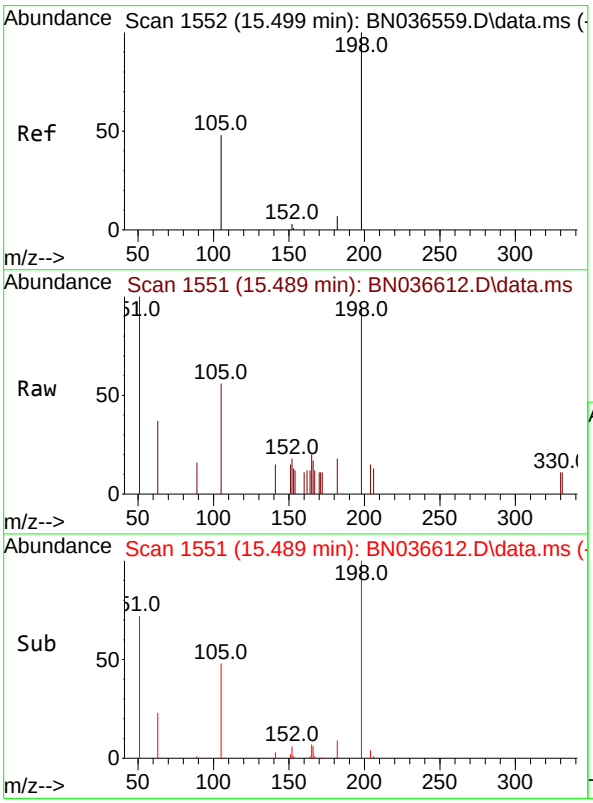
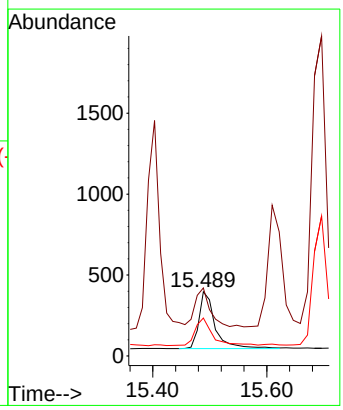
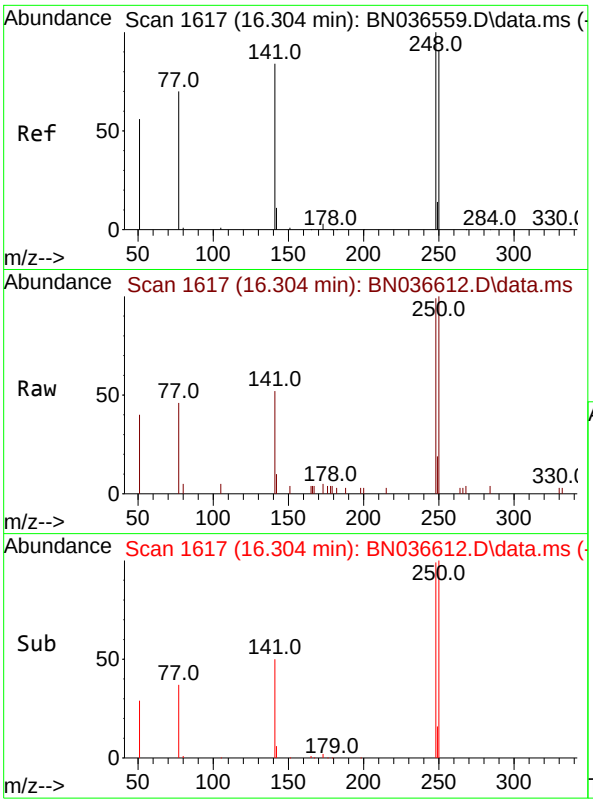


#20
4,6-Dinitro-2-methylphenol
Concen: 0.546 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:198 Resp: 731

Ion	Ratio	Lower	Upper
198	100		
51	105.8	107.9	161.9#
105	59.2	56.2	84.2

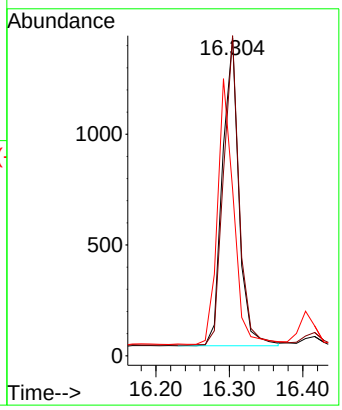




#21
4-Bromophenyl-phenylether
Concen: 0.481 ng
RT: 16.304 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:248 Resp: 215(

Ion	Ratio	Lower	Upper
248	100		
250	100.7	73.0	109.6
141	52.4	68.6	103.0#



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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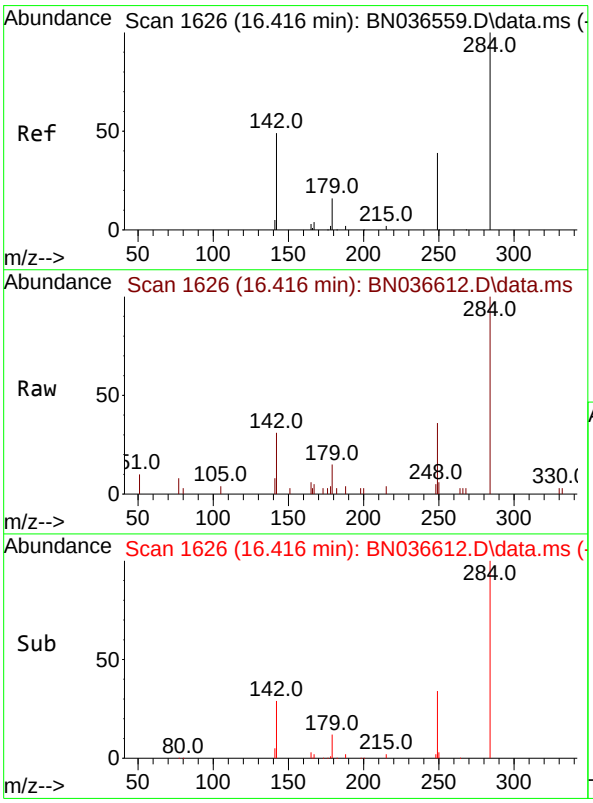
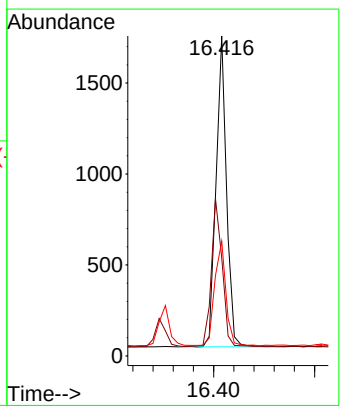
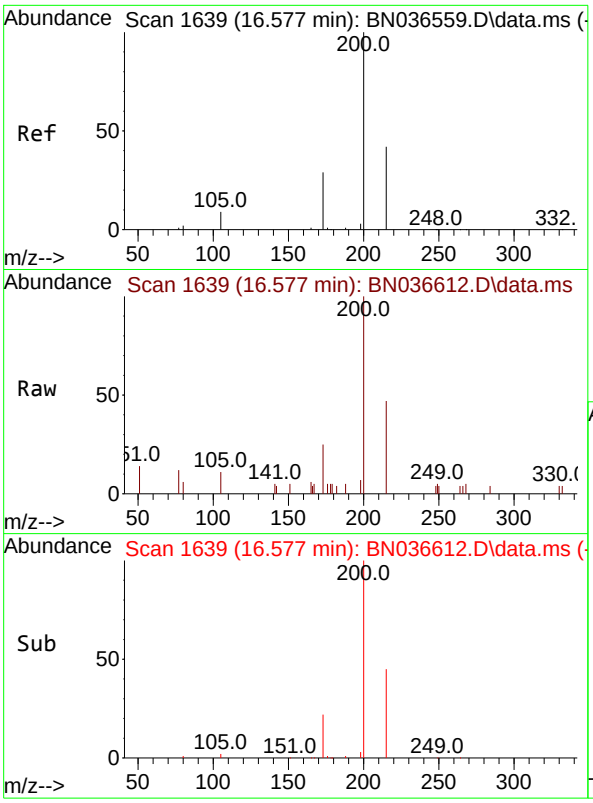


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:284 Resp: 2452

Ion	Ratio	Lower	Upper
284	100		
142	49.8	37.0	55.4
249	36.0	28.1	42.1

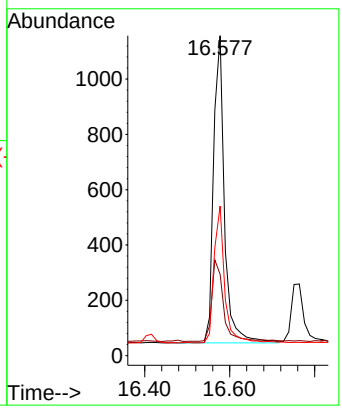




#23
Atrazine
Concen: 0.550 ng
RT: 16.577 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:200 Resp: 197

Ion	Ratio	Lower	Upper
200	100		
173	25.4	27.3	40.9#
215	46.8	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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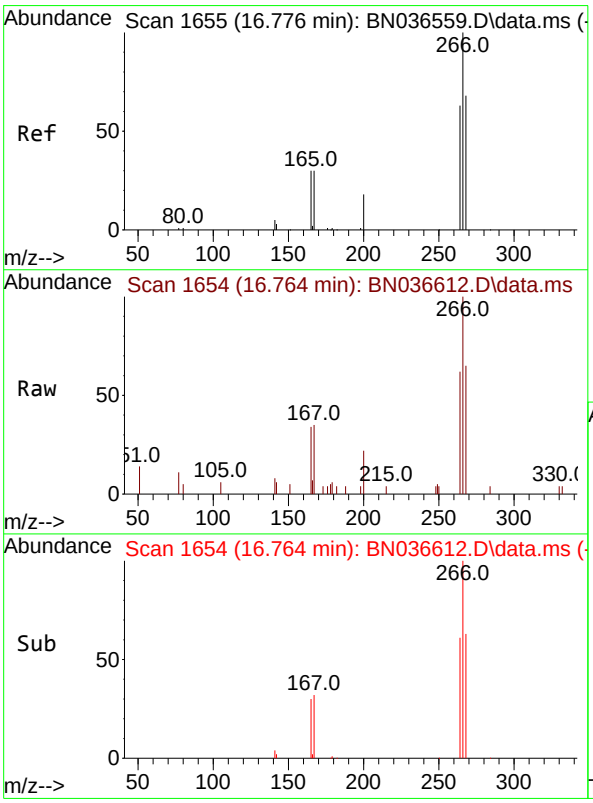
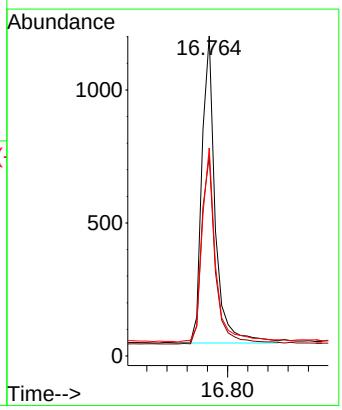
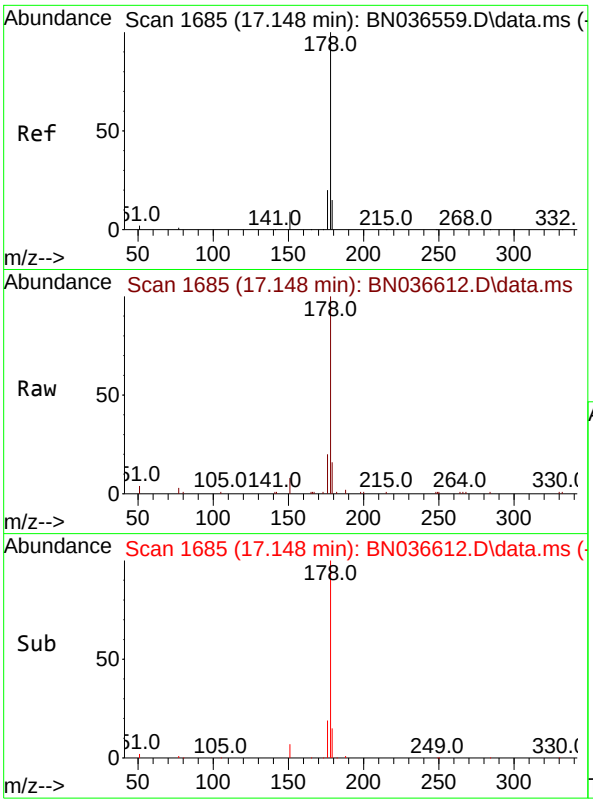


#24
Pentachlorophenol
Concen: 0.864 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:266 Resp: 2125

Ion	Ratio	Lower	Upper
266	100		
264	63.0	49.6	74.4
268	64.0	50.9	76.3

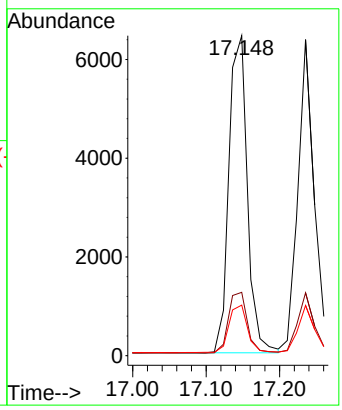




#25
Phenanthrene
Concen: 0.524 ng
RT: 17.148 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:178 Resp: 1121(

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.3	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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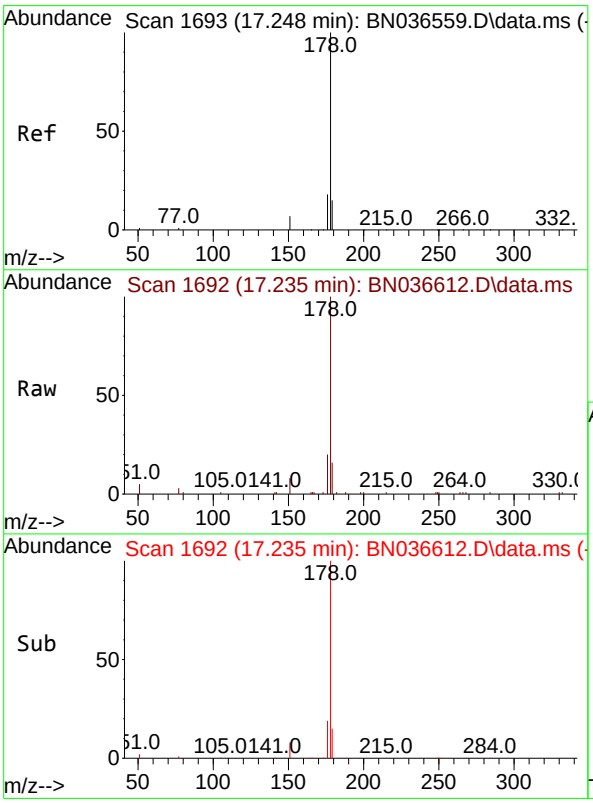
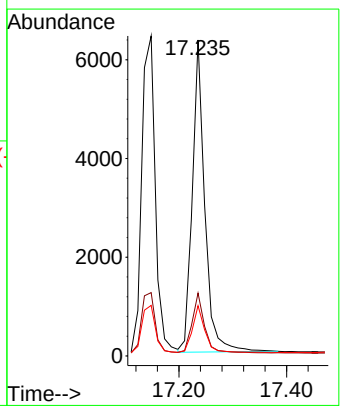
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

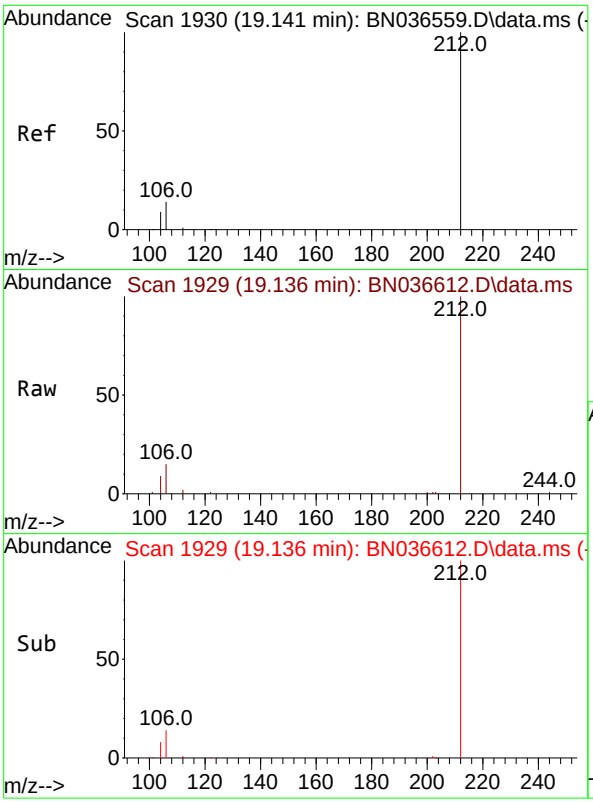


#26
Anthracene
Concen: 0.529 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:178 Resp: 10217

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.2	12.6	18.8

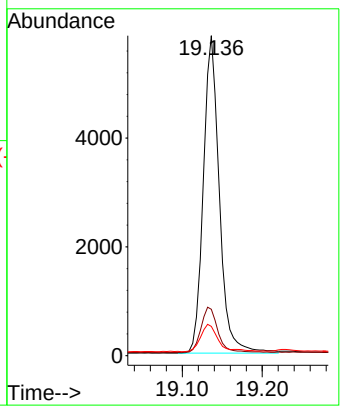




#27
Fluoranthene-d10
Concen: 0.444 ng
RT: 19.136 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:212 Resp: 812

Ion	Ratio	Lower	Upper
212	100		
106	15.2	11.8	17.6
104	9.5	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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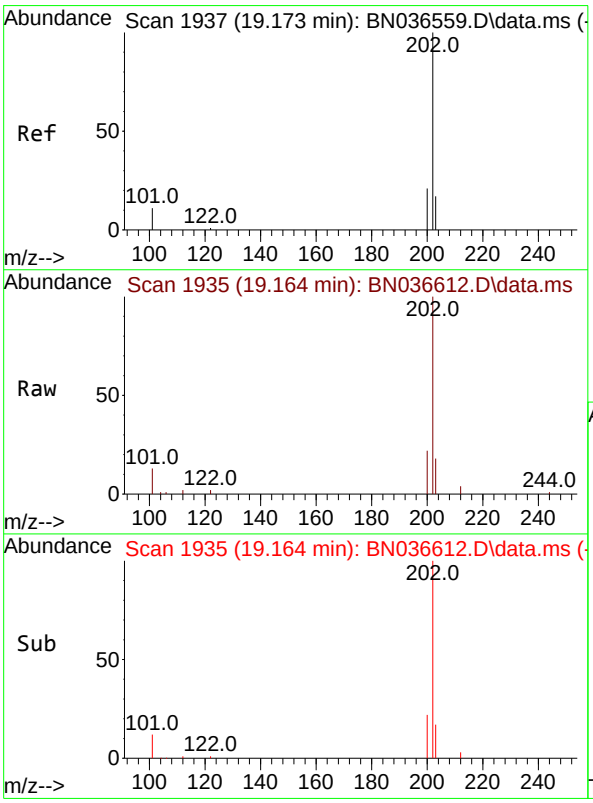
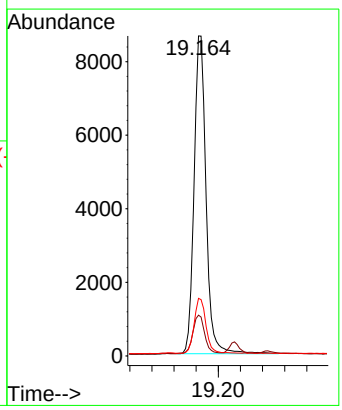
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

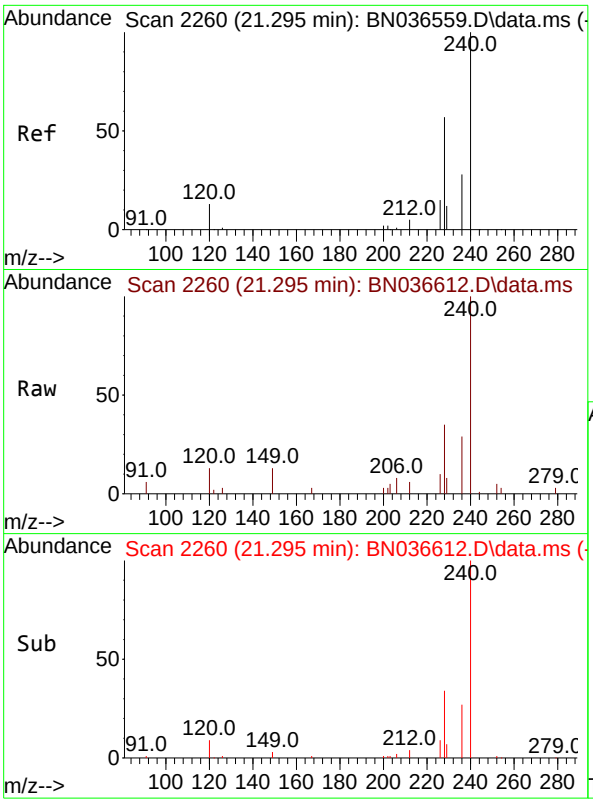


#28
Fluoranthene
Concen: 0.543 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:202 Resp: 13048

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.0	13.5	20.3

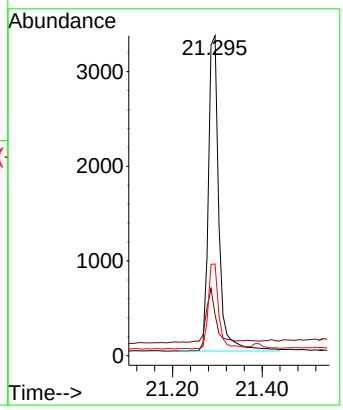




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:240 Resp: 543

Ion	Ratio	Lower	Upper
240	100		
120	12.9	14.6	22.0
236	28.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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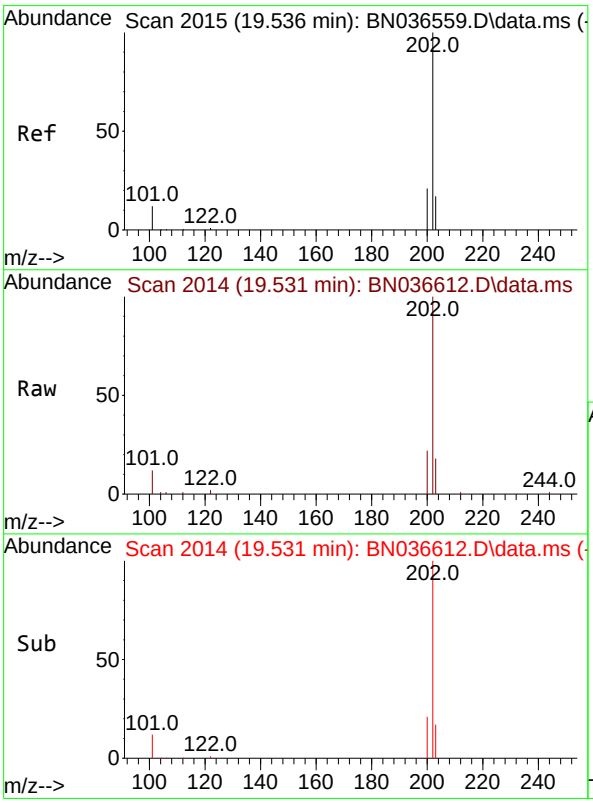
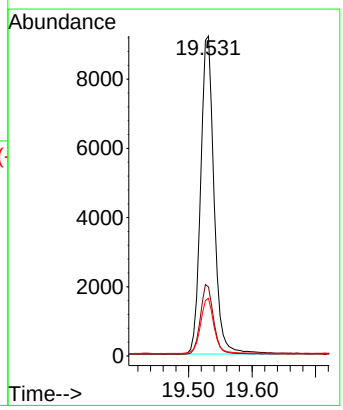
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

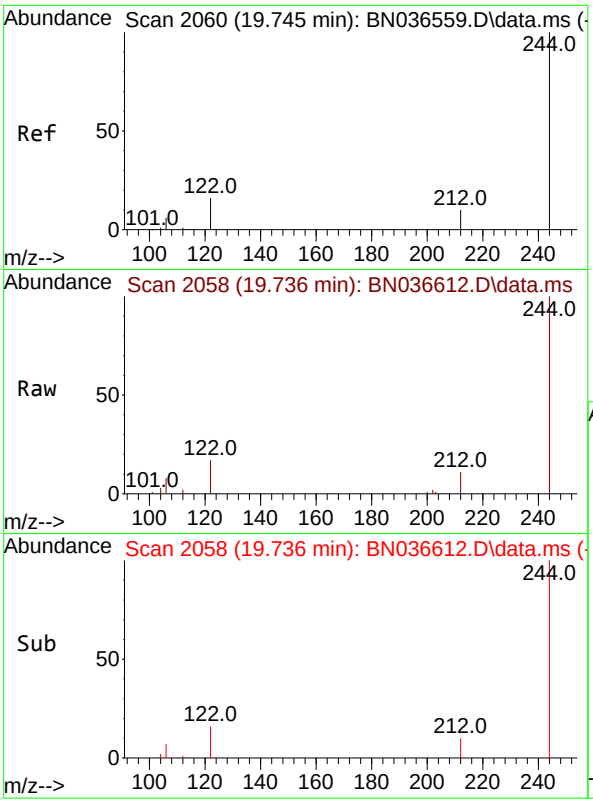


#30
Pyrene
Concen: 0.507 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:202 Resp: 13477

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.5	14.1	21.1

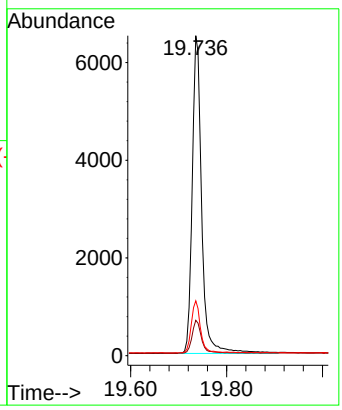




#31
Terphenyl-d14
Concen: 0.688 ng
RT: 19.736 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:244 Resp: 896

Ion	Ratio	Lower	Upper
244	100		
212	11.0	9.6	14.4
122	17.1	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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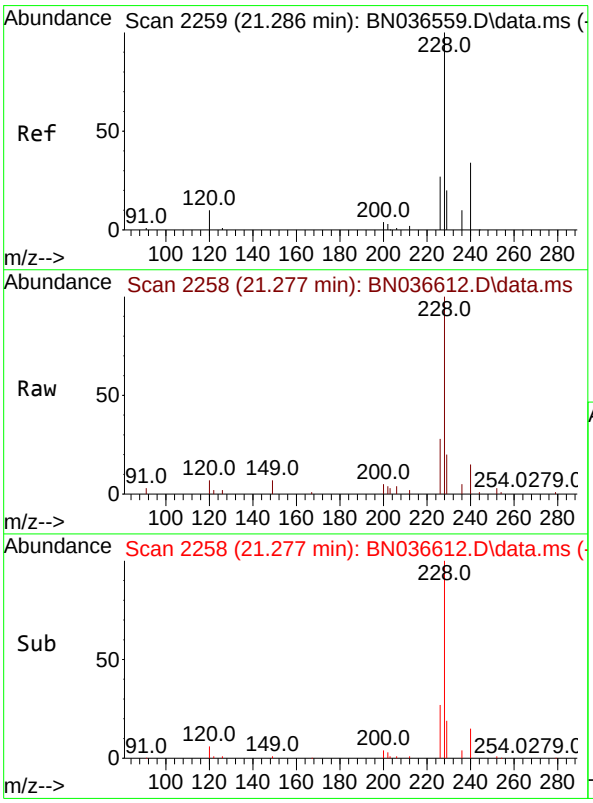
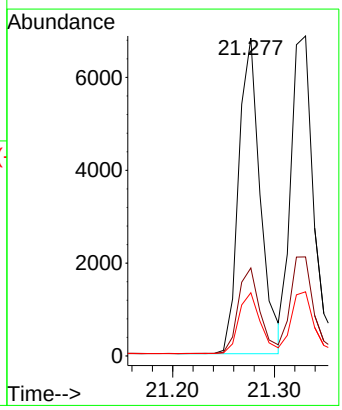
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

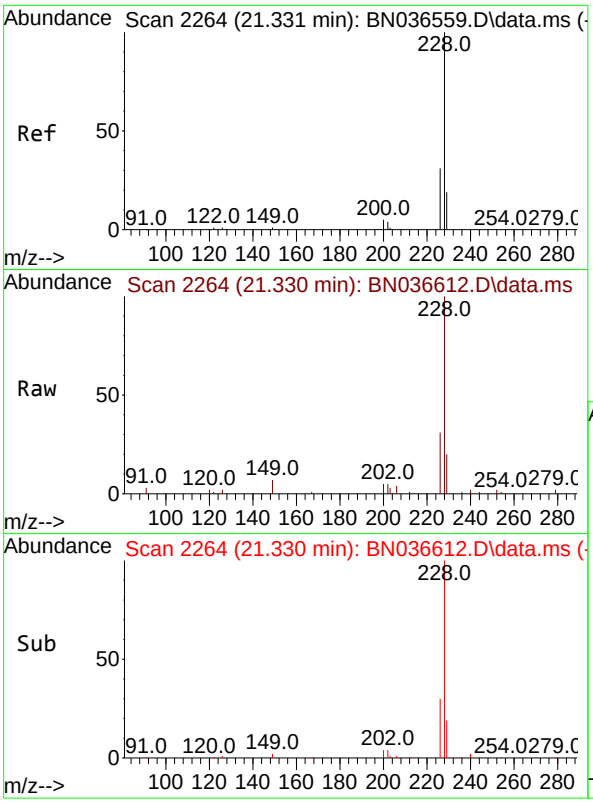


#32
Benzo(a)anthracene
Concen: 0.530 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:228 Resp: 10027

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.5	33.7
229	19.9	16.6	25.0

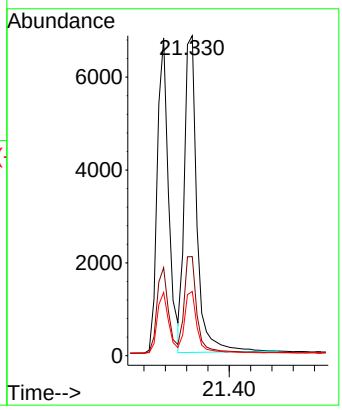




#33
Chrysene
Concen: 0.540 ng
RT: 21.330 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:228 Resp: 1115

Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.3	37.9
229	20.0	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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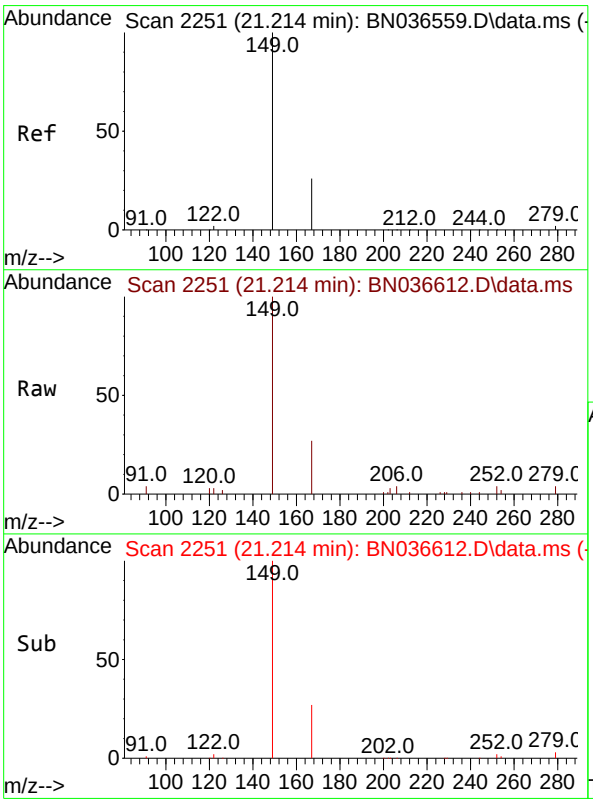
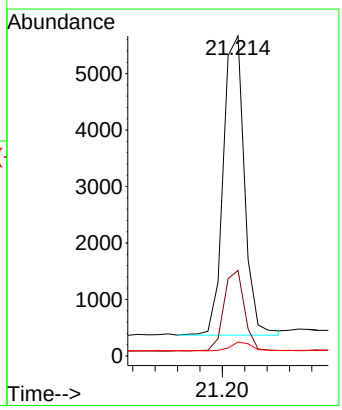
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

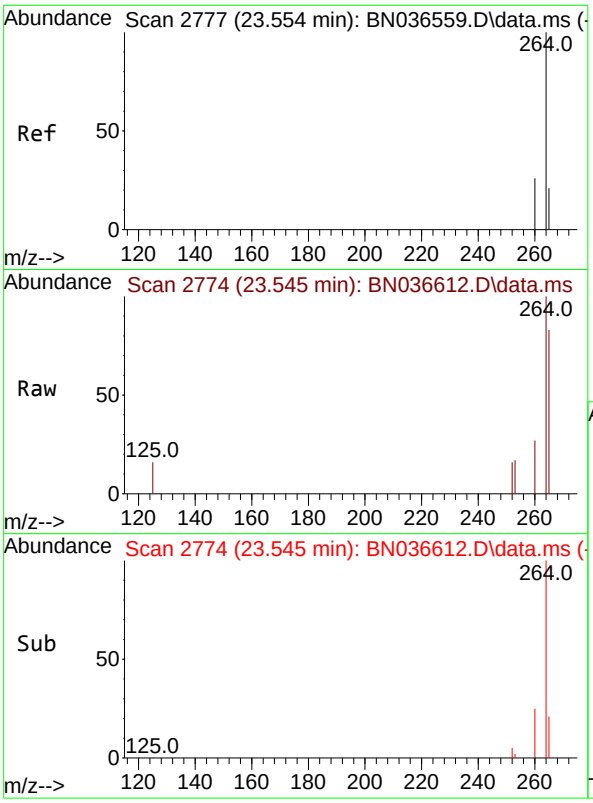


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.518 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:149 Resp: 6969

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.7	31.1
279	2.8	3.6	5.4#

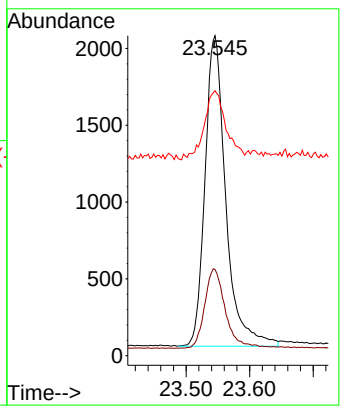




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.545 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:264 Resp: 460

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.6	33.8
265	82.8	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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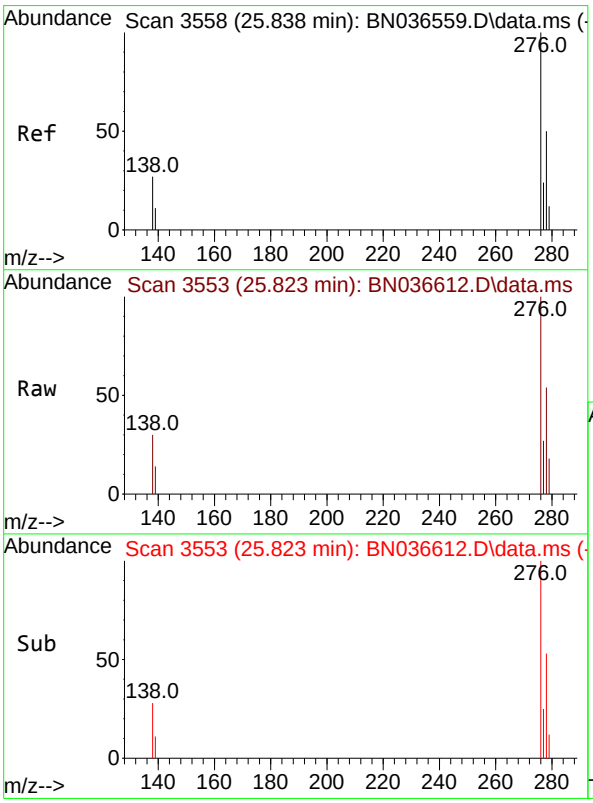
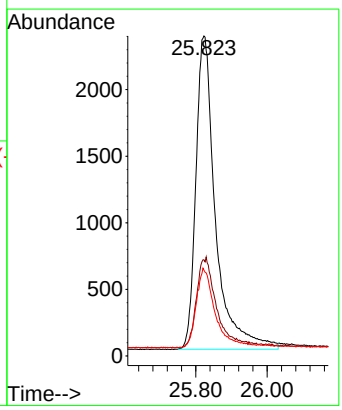
Supervised By :Jagrut Upadhyay 03/17/2025

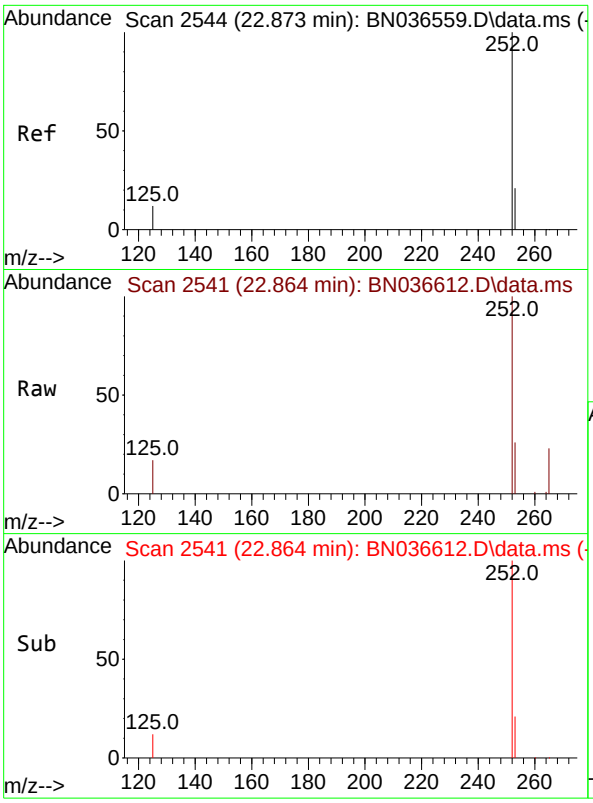


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.542 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.015 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:276 Resp: 9000

Ion	Ratio	Lower	Upper
276	100		
138	28.7	23.4	35.2
277	24.5	20.0	30.0

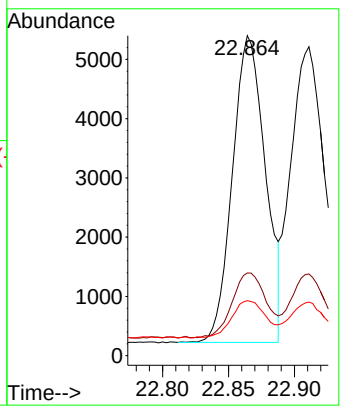




#37
Benzo(b)fluoranthene
Concen: 0.537 ng
RT: 22.864 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:252 Resp: 898

Ion	Ratio	Lower	Upper
252	100		
253	25.9	23.9	35.9
125	17.2	17.4	26.2#



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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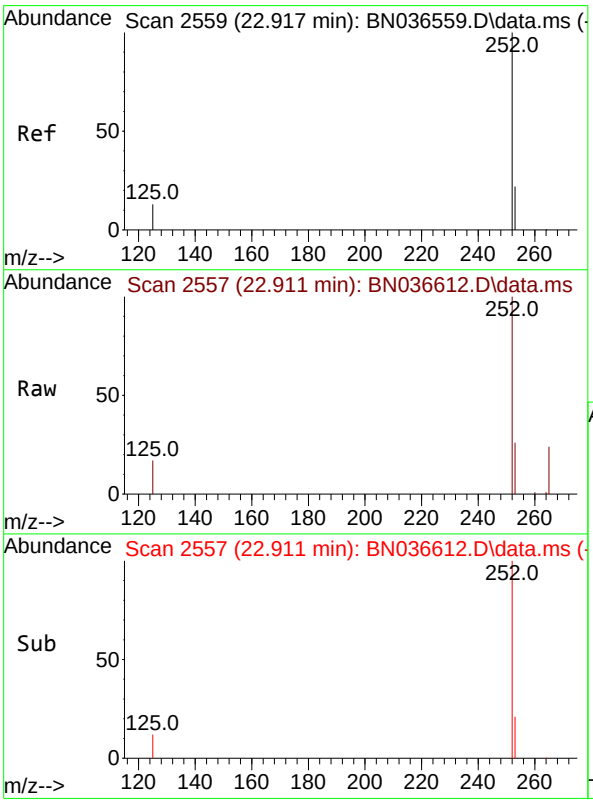
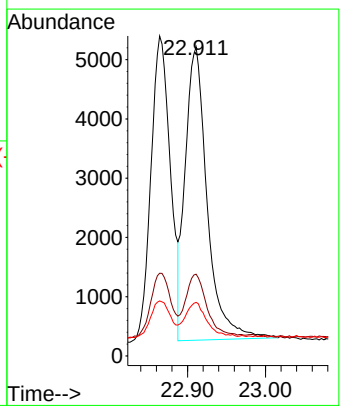
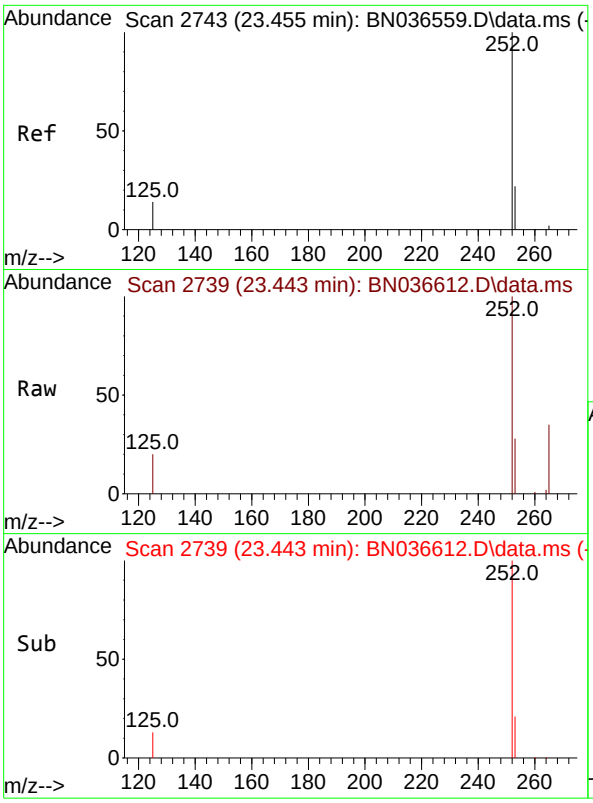


#38
Benzo(k)fluoranthene
Concen: 0.551 ng
RT: 22.911 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:252 Resp: 9690

Ion	Ratio	Lower	Upper
252	100		
253	26.5	24.6	36.8
125	17.3	17.8	26.8#

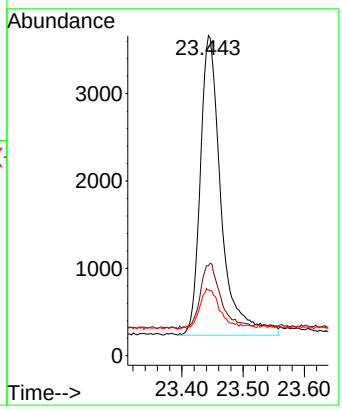




#39
Benzo(a)pyrene
Concen: 0.574 ng
RT: 23.443 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:252 Resp: 810

Ion	Ratio	Lower	Upper
252	100		
253	28.1	27.8	41.8
125	20.5	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

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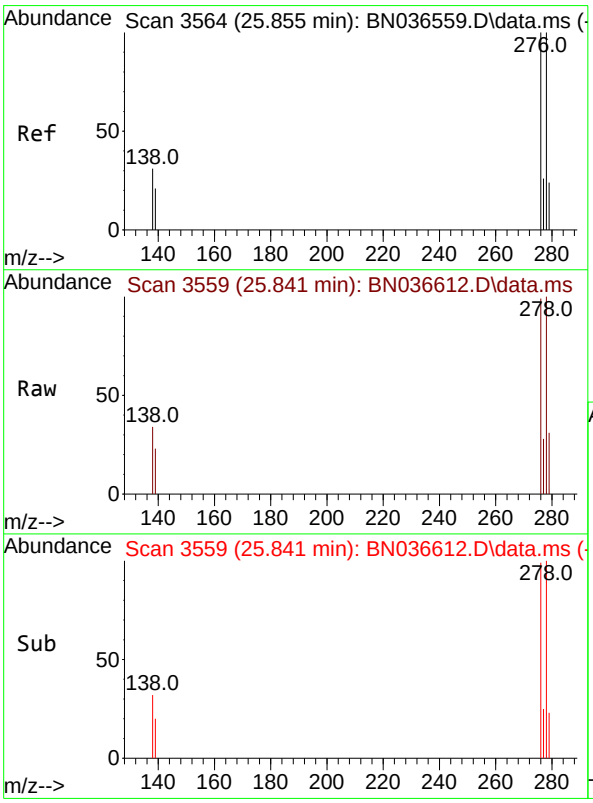
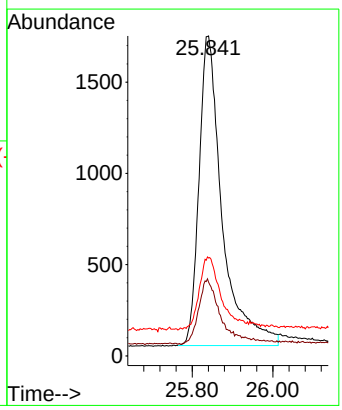
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

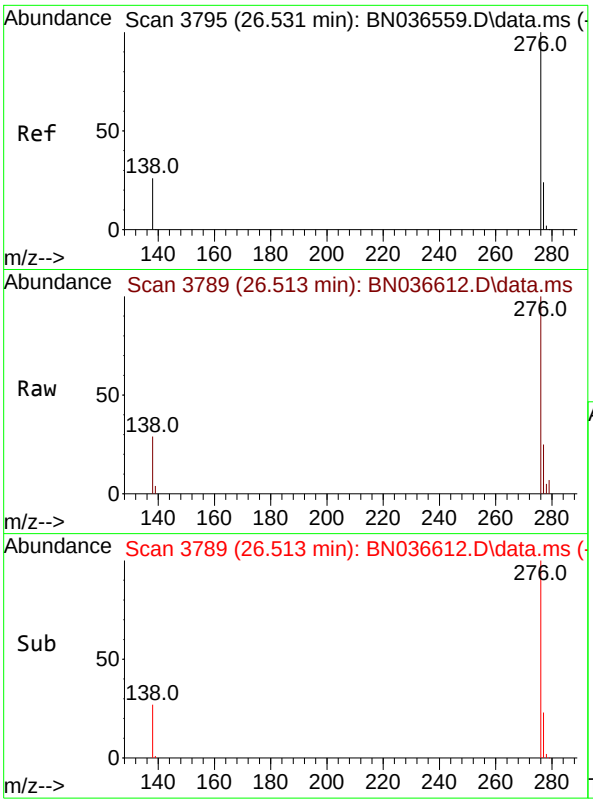


#40
Dibenzo(a,h)anthracene
Concen: 0.522 ng
RT: 25.841 min Scan# 3559
Delta R.T. -0.015 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:278 Resp: 6755

Ion	Ratio	Lower	Upper
278	100		
139	23.0	20.8	31.2
279	30.6	28.8	43.2

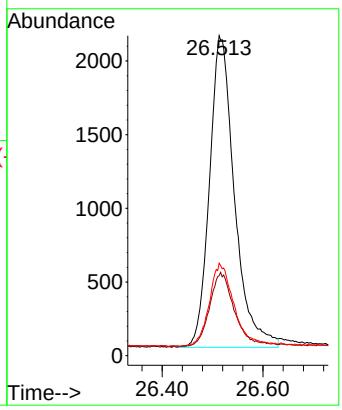




#41
Benzo(g,h,i)perylene
Concen: 0.492 ng
RT: 26.513 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:276 Resp: 727

Ion	Ratio	Lower	Upper
276	100		
277	25.0	22.2	33.4
138	28.9	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

Manual Integrations
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Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

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

Manual Integration Report

Sequence:	BN031025	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036557.D	1,4-Dioxane	anahy	3/11/2025 9:18:29 AM	Jagrut	3/11/2025 10:27:49 AM	Peak Integrated by Software
SSTDICC0.2	BN036558.D	1,4-Dioxane	anahy	3/11/2025 9:19:12 AM	Jagrut	3/11/2025 10:27:51 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Benzo(k)fluoranthene	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Chrysene-d12	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BN031425	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1557-04MS	BN036611.D	2-Methylnaphthalene-d10	anahy	3/17/2025 12:05:52 PM	mohammad	3/22/2025 3:31:08 AM	Peak Integrated by Software
Q1557-05MSD	BN036612.D	2-Methylnaphthalene-d10	anahy	3/17/2025 12:06:49 PM	mohammad	3/22/2025 3:31:08 AM	Peak Integrated by Software
PB167128BS	BN036630.D	2-Methylnaphthalene-d10	anahy	3/17/2025 12:15:52 PM	mohammad	3/22/2025 3:31:08 AM	Peak Integrated by Software
PB167128BS	BN036630.D	Benzo(k)fluoranthene	anahy	3/17/2025 12:15:52 PM	mohammad	3/22/2025 3:31:08 AM	Peak Integrated by Software
PB167128BS	BN036630.D	Bis(2-ethylhexyl)phthalate	anahy	3/17/2025 12:15:52 PM	mohammad	3/22/2025 3:31:08 AM	Peak Integrated by Software
PB167128BL	BN036634.D	2-Fluorobiphenyl	anahy	3/17/2025 12:22:48 PM	mohammad	3/22/2025 3:31:08 AM	Peak Integrated by Software
SSTDCCC0.4	BN036649.D	Benzo(k)fluoranthene	anahy	3/17/2025 12:27:43 PM	mohammad	3/22/2025 3:31:08 AM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM		
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM		
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036556.D	10 Mar 2025 11:03	RC/JU	Ok
2	SSTDICC0.1	BN036557.D	10 Mar 2025 11:42	RC/JU	Ok,M
3	SSTDICC0.2	BN036558.D	10 Mar 2025 12:18	RC/JU	Ok,M
4	SSTDICCC0.4	BN036559.D	10 Mar 2025 12:54	RC/JU	Ok
5	SSTDICC0.8	BN036560.D	10 Mar 2025 13:31	RC/JU	Ok
6	SSTDICC1.6	BN036561.D	10 Mar 2025 14:07	RC/JU	Ok
7	SSTDICC3.2	BN036562.D	10 Mar 2025 14:43	RC/JU	Ok
8	SSTDICC5.0	BN036563.D	10 Mar 2025 15:19	RC/JU	Ok
9	SSTDICV0.4	BN036564.D	10 Mar 2025 16:38	RC/JU	Ok
10	PB167057BL	BN036565.D	10 Mar 2025 17:14	RC/JU	Ok
11	Q1531-03	BN036566.D	10 Mar 2025 17:50	RC/JU	Ok
12	Q1531-04	BN036567.D	10 Mar 2025 18:26	RC/JU	Ok
13	Q1531-05	BN036568.D	10 Mar 2025 19:02	RC/JU	Ok
14	Q1531-06	BN036569.D	10 Mar 2025 19:38	RC/JU	Ok,M
15	Q1531-13	BN036570.D	10 Mar 2025 20:14	RC/JU	Ok
16	Q1531-14	BN036571.D	10 Mar 2025 20:50	RC/JU	Ok
17	SSTDCCC0.4	BN036572.D	10 Mar 2025 21:26	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM		
Supervise By	mohammad	Supervise On	3/22/2025 3:31:08 AM		
SubDirectory	BN031425	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036600.D	14 Mar 2025 09:30	RC/JU	Ok
2	SSTDCCC0.4	BN036601.D	14 Mar 2025 10:09	RC/JU	Ok
3	PB167128BL	BN036602.D	14 Mar 2025 10:45	RC/JU	Not Ok
4	Q1502-21	BN036603.D	14 Mar 2025 11:21	RC/JU	Dilution
5	Q1502-21DL	BN036604.D	14 Mar 2025 12:11	RC/JU	Ok,M
6	Q1502-05	BN036605.D	14 Mar 2025 13:05	RC/JU	Dilution
7	Q1502-05DL	BN036606.D	14 Mar 2025 13:57	RC/JU	Ok
8	Q1502-08	BN036607.D	14 Mar 2025 14:37	RC/JU	Dilution
9	Q1502-08DL	BN036608.D	14 Mar 2025 15:33	RC/JU	Ok
10	Q1557-01	BN036609.D	14 Mar 2025 16:11	RC/JU	Ok
11	Q1557-03	BN036610.D	14 Mar 2025 16:48	RC/JU	Ok
12	Q1557-04MS	BN036611.D	14 Mar 2025 17:24	RC/JU	Ok,M
13	Q1557-05MSD	BN036612.D	14 Mar 2025 18:00	RC/JU	Ok,M
14	SSTDCCC0.4	BN036613.D	14 Mar 2025 18:36	RC/JU	Ok
15	DFTPP	BN036614.D	14 Mar 2025 19:51	RC/JU	Ok
16	SSTDCCC0.4	BN036615.D	14 Mar 2025 20:30	RC/JU	Ok
17	PB167131BL	BN036616.D	14 Mar 2025 21:06	RC/JU	Ok,M
18	Q1557-02	BN036617.D	14 Mar 2025 21:43	RC/JU	Ok
19	Q1559-19	BN036618.D	14 Mar 2025 22:19	RC/JU	Ok,M
20	Q1559-20	BN036619.D	14 Mar 2025 22:54	RC/JU	Ok
21	Q1559-21	BN036620.D	14 Mar 2025 23:30	RC/JU	Dilution

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM		
Supervise By	mohammad	Supervise On	3/22/2025 3:31:08 AM		
SubDirectory	BN031425	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1559-05	BN036621.D	15 Mar 2025 00:06	RC/JU	Ok
23	Q1557-06	BN036622.D	15 Mar 2025 00:42	RC/JU	Ok
24	Q1557-07	BN036623.D	15 Mar 2025 01:17	RC/JU	Ok,M
25	Q1557-08	BN036624.D	15 Mar 2025 01:53	RC/JU	Ok,M
26	Q1559-22	BN036625.D	15 Mar 2025 02:29	RC/JU	Ok,M
27	Q1559-01	BN036626.D	15 Mar 2025 03:05	RC/JU	Dilution
28	Q1559-02	BN036627.D	15 Mar 2025 03:41	RC/JU	Dilution
29	Q1559-03	BN036628.D	15 Mar 2025 04:16	RC/JU	Ok
30	Q1559-04	BN036629.D	15 Mar 2025 04:53	RC/JU	Dilution
31	PB167128BS	BN036630.D	15 Mar 2025 05:28	RC/JU	Ok,M
32	SSTDCCC0.4	BN036631.D	15 Mar 2025 06:04	RC/JU	Ok
33	DFTPP	BN036632.D	15 Mar 2025 06:41	RC/JU	Ok
34	SSTDCCC0.4	BN036633.D	15 Mar 2025 08:35	RC/JU	Ok
35	PB167128BL	BN036634.D	15 Mar 2025 09:11	RC/JU	Ok,M
36	Q1559-06	BN036635.D	15 Mar 2025 09:47	RC/JU	Ok
37	Q1559-07	BN036636.D	15 Mar 2025 10:23	RC/JU	Ok
38	Q1559-08	BN036637.D	15 Mar 2025 10:59	RC/JU	Ok
39	Q1559-09	BN036638.D	15 Mar 2025 11:35	RC/JU	Dilution
40	Q1559-10	BN036639.D	15 Mar 2025 12:11	RC/JU	Ok
41	Q1559-11	BN036640.D	15 Mar 2025 12:48	RC/JU	Ok
42	Q1559-12	BN036641.D	15 Mar 2025 13:24	RC/JU	Ok
43	Q1559-13	BN036642.D	15 Mar 2025 14:00	RC/JU	Ok
44	Q1559-14	BN036643.D	15 Mar 2025 14:36	RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM		
Supervise By	mohammad	Supervise On	3/22/2025 3:31:08 AM		
SubDirectory	BN031425	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	Q1559-15	BN036644.D	15 Mar 2025 15:12	RC/JU	Ok
46	Q1559-16	BN036645.D	15 Mar 2025 15:48	RC/JU	Ok
47	Q1559-17	BN036646.D	15 Mar 2025 16:24	RC/JU	Ok
48	PB167131BS	BN036647.D	15 Mar 2025 17:00	RC/JU	Ok,M
49	PB167131BSD	BN036648.D	15 Mar 2025 17:36	RC/JU	Ok,M
50	SSTDCCC0.4	BN036649.D	15 Mar 2025 18:12	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM	
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM	
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/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	BN036556.D	10 Mar 2025 11:03		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036557.D	10 Mar 2025 11:42	Compound #20 removed.	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036558.D	10 Mar 2025 12:18		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036559.D	10 Mar 2025 12:54		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036560.D	10 Mar 2025 13:31		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036561.D	10 Mar 2025 14:07	Compound #20 kept on QR.	RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036562.D	10 Mar 2025 14:43	Method is good for DOD.	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036563.D	10 Mar 2025 15:19		RC/JU	Ok
9	SSTDICV0.4	ICVBN031025	BN036564.D	10 Mar 2025 16:38		RC/JU	Ok
10	PB167057BL	PB167057BL	BN036565.D	10 Mar 2025 17:14		RC/JU	Ok
11	Q1531-03	RE122D1-20250305	BN036566.D	10 Mar 2025 17:50		RC/JU	Ok
12	Q1531-04	RE126D1-20250306	BN036567.D	10 Mar 2025 18:26		RC/JU	Ok
13	Q1531-05	RE126D2-20250306	BN036568.D	10 Mar 2025 19:02		RC/JU	Ok
14	Q1531-06	DUP01-20250306	BN036569.D	10 Mar 2025 19:38		RC/JU	Ok,M
15	Q1531-13	RE108D1-20250306	BN036570.D	10 Mar 2025 20:14		RC/JU	Ok
16	Q1531-14	RE105D1-20250306	BN036571.D	10 Mar 2025 20:50		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN036572.D	10 Mar 2025 21:26		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM	
Supervise By	mohammad	Supervise On	3/22/2025 3:31:08 AM	
SubDirectory	BN031425	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/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	BN036600.D	14 Mar 2025 09:30		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036601.D	14 Mar 2025 10:09		RC/JU	Ok
3	PB167128BL	PB167128BL	BN036602.D	14 Mar 2025 10:45	Analyzed for contamination check	RC/JU	Not Ok
4	Q1502-21	RR-PAH-WP	BN036603.D	14 Mar 2025 11:21	PT Sample, Need 5X Dilution	RC/JU	Dilution
5	Q1502-21DL	RR-PAH-WPDL	BN036604.D	14 Mar 2025 12:11		RC/JU	Ok,M
6	Q1502-05	PT-BN-WP	BN036605.D	14 Mar 2025 13:05	PT Sample, Need 50X Dilution	RC/JU	Dilution
7	Q1502-05DL	PT-BN-WPDL	BN036606.D	14 Mar 2025 13:57		RC/JU	Ok
8	Q1502-08	PT-ACIDS-WP	BN036607.D	14 Mar 2025 14:37	PT Sample, Need 20X Dilution	RC/JU	Dilution
9	Q1502-08DL	PT-ACIDS-WPDL	BN036608.D	14 Mar 2025 15:33		RC/JU	Ok
10	Q1557-01	BPOW6-7-20250312	BN036609.D	14 Mar 2025 16:11		RC/JU	Ok
11	Q1557-03	BPOW6-9-20250312	BN036610.D	14 Mar 2025 16:48		RC/JU	Ok
12	Q1557-04MS	BPOW6-9-20250312MS	BN036611.D	14 Mar 2025 17:24		RC/JU	Ok,M
13	Q1557-05MSD	BPOW6-9-20250312MS	BN036612.D	14 Mar 2025 18:00		RC/JU	Ok,M
14	SSTDCCC0.4	SSTDCCC0.4EC	BN036613.D	14 Mar 2025 18:36		RC/JU	Ok
15	DFTPP	DFTPP	BN036614.D	14 Mar 2025 19:51		RC/JU	Ok
16	SSTDCCC0.4	SSTDCCC0.4	BN036615.D	14 Mar 2025 20:30		RC/JU	Ok
17	PB167131BL	PB167131BL	BN036616.D	14 Mar 2025 21:06		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM	
Supervise By	mohammad	Supervise On	3/22/2025 3:31:08 AM	
SubDirectory	BN031425	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1557-02	BPOW6-8-20250312	BN036617.D	14 Mar 2025 21:43		RC/JU	Ok
19	Q1559-19	DUP05-20250312	BN036618.D	14 Mar 2025 22:19		RC/JU	Ok,M
20	Q1559-20	RE120D1-20250312	BN036619.D	14 Mar 2025 22:54		RC/JU	Ok
21	Q1559-21	RE120D3-20250312	BN036620.D	14 Mar 2025 23:30	Need 5X Dilution	RC/JU	Dilution
22	Q1559-05	RE134D4-20250310	BN036621.D	15 Mar 2025 00:06		RC/JU	Ok
23	Q1557-06	BPOW6-10-20250312	BN036622.D	15 Mar 2025 00:42		RC/JU	Ok
24	Q1557-07	BPOW6-11-20250312	BN036623.D	15 Mar 2025 01:17		RC/JU	Ok,M
25	Q1557-08	DUP04-20250312	BN036624.D	15 Mar 2025 01:53		RC/JU	Ok,M
26	Q1559-22	RE120D2-20250312	BN036625.D	15 Mar 2025 02:29		RC/JU	Ok,M
27	Q1559-01	RE115D1-20250310	BN036626.D	15 Mar 2025 03:05	Need 2X Dilution	RC/JU	Dilution
28	Q1559-02	RE115D2-20250310	BN036627.D	15 Mar 2025 03:41	Need 5X Dilution	RC/JU	Dilution
29	Q1559-03	RE134D1-20250310	BN036628.D	15 Mar 2025 04:16		RC/JU	Ok
30	Q1559-04	RE134D3-20250310	BN036629.D	15 Mar 2025 04:53	Need 5X Dilution	RC/JU	Dilution
31	PB167128BS	PB167128BS	BN036630.D	15 Mar 2025 05:28		RC/JU	Ok,M
32	SSTDCCC0.4	SSTDCCC0.4EC	BN036631.D	15 Mar 2025 06:04		RC/JU	Ok
33	DFTPP	DFTPP	BN036632.D	15 Mar 2025 06:41		RC/JU	Ok
34	SSTDCCC0.4	SSTDCCC0.4	BN036633.D	15 Mar 2025 08:35		RC/JU	Ok
35	PB167128BL	PB167128BL	BN036634.D	15 Mar 2025 09:11		RC/JU	Ok,M
36	Q1559-06	TT149S1-20250310	BN036635.D	15 Mar 2025 09:47		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM	
Supervise By	mohammad	Supervise On	3/22/2025 3:31:08 AM	
SubDirectory	BN031425	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	Q1559-07	RE125D3-20250310	BN036636.D	15 Mar 2025 10:23		RC/JU	Ok
38	Q1559-08	DUP02-20250310	BN036637.D	15 Mar 2025 10:59		RC/JU	Ok
39	Q1559-09	DUP03-20250310	BN036638.D	15 Mar 2025 11:35	Need 2X Dilution	RC/JU	Dilution
40	Q1559-10	RW10-MW01D-202503	BN036639.D	15 Mar 2025 12:11		RC/JU	Ok
41	Q1559-11	RW10-MW01S-202503	BN036640.D	15 Mar 2025 12:48		RC/JU	Ok
42	Q1559-12	TT158S1-20250311	BN036641.D	15 Mar 2025 13:24		RC/JU	Ok
43	Q1559-13	TT158I1-20250311	BN036642.D	15 Mar 2025 14:00		RC/JU	Ok
44	Q1559-14	RW10A-MW01S-20250	BN036643.D	15 Mar 2025 14:36		RC/JU	Ok
45	Q1559-15	RW10A-MW01I-202503	BN036644.D	15 Mar 2025 15:12		RC/JU	Ok
46	Q1559-16	RW4-RE137-20250311	BN036645.D	15 Mar 2025 15:48		RC/JU	Ok
47	Q1559-17	RE104D1-20250312	BN036646.D	15 Mar 2025 16:24		RC/JU	Ok
48	PB167131BS	PB167131BS	BN036647.D	15 Mar 2025 17:00		RC/JU	Ok,M
49	PB167131BSD	PB167131BSD	BN036648.D	15 Mar 2025 17:36		RC/JU	Ok,M
50	SSTDCCC0.4	SSTDCCC0.4EC	BN036649.D	15 Mar 2025 18:12		RC/JU	Ok,M

M : Manual Integration

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EXTRACTION LOGPAGE

PB167128

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

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 03/13/2025

Extraction Start Time : 12:40

Extraction End Date : 03/13/2025

Extraction End Time : 17:50

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6739
Surrogate	1.0ML	0.4 PPM	SP6741
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2593
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/13/25	RS (EXT lab)	RC/SVOC
17:55	**Preparation Group**	**Analysis Group**

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EXTRACTION LOGPAGE

PrepBatch ID : PB167128

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

Concentration Date: 03/13/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167128BL	SBLK128	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			SEP-1
PB167128BS	SLCS128	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			2
Q1502-05	PT-BN-WP	SVOCMS Group3	1000	6	RUPESH	ritesh	1			3
Q1502-08	PT-ACIDS-WP	SVOCMS Group4	1000	6	RUPESH	ritesh	1			4
Q1502-21	RR-PAH-WP	SVOCMS Group5	1000	6	RUPESH	ritesh	1			5
Q1557-01	BPOW6-7-20250312	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		6
Q1557-02	BPOW6-8-20250312	SVOC-SIMGroup1	990	6	RUPESH	ritesh	1	C		7
Q1557-03	BPOW6-9-20250312	SVOC-SIMGroup1	980	6	RUPESH	ritesh	1	C		8
Q1557-04	Q1557-03MS	SVOC-SIMGroup1	990	6	RUPESH	ritesh	1	C		9
Q1557-05	Q1557-03MSD	SVOC-SIMGroup1	990	6	RUPESH	ritesh	1	C		10
Q1557-06	BPOW6-10-20250312	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		11
Q1557-07	BPOW6-11-20250312	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		12
Q1557-08	DUP04-20250312	SVOC-SIMGroup1	990	6	RUPESH	ritesh	1	C		13
Q1559-22	RE120D2-20250312	SVOC-SIMGroup1	980	6	RUPESH	ritesh	1	C		14

RJ
3/13

* **Extracts relinquished on the same date as received.**

1/13/25 12:40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1557 **WorkList ID :** 188264 **Department :** Extraction **Date :** 03-13-2025 12:32:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1502-05	PT-BN-WP	Water	SVOCMS Group3	Cool 4 deg C	ALLI03	QA Of	03/03/2025	8270-Modified
Q1502-08	PT-ACIDS-WP	Water	SVOCMS Group4	Cool 4 deg C	ALLI03	QA Of	03/03/2025	8270-Modified
Q1502-21	RR-PAH-WP	Water	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	03/03/2025	8270-Modified
Q1557-01	BPOW6-7-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-02	BPOW6-8-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-03	BPOW6-9-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-04	Q1557-03MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-05	Q1557-03MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-06	BPOW6-10-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-07	BPOW6-11-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-08	DUP04-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1559-22	RE120D2-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified

Date/Time 3/13/25 12:35
Raw Sample Received by: RS (Ext-lab)
Raw Sample Relinquished by: CP SM

Date/Time 3/13/25 13:15
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RS (Ext-lab)

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Prep Standard - Chemical Standard Summary

Order ID : Q1502

Test : SVOCMS Group4

Prepbatch ID : PB167128,

Sequence ID/Qc Batch ID: BN031425,

Standard ID :
EP2559,EP2565,EP2593,SP6682,SP6683,SP6684,SP6717,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6741,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3828,E3871,E3873,E3874,E3878,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12208,S12270,S12328,S12469,S12478,S12517,S12525,S12651,S12791,S12966,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
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

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2593	03/07/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 03/07/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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

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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	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

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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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel 01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = 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	SP6731	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = 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	SP6732	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = 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	SP6733	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = 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	SP6734	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = 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	SP6735	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = 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	SP6736	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = 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	SP6738	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3492	8270-SIM-Spike 0.4 PPM	SP6739	02/05/2025	07/29/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 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	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025

FROM 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3491	8270-SIM-Surrogate 0.4 PPM	SP6741	02/20/2025	04/10/2025	Rahul Chavli	None	None	mohammad ahmed 02/28/2025

FROM 0.00400ml of S12189 + 0.00800ml of S12208 + 0.02000ml of S11832 + 99.96800ml of E3873 = Final Quantity: 100.000 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	07/01/2025	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)	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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

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)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

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)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

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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)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

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 / Rajesh	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	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

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	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

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

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	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

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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	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

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	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

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

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	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

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	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

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

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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	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	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

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	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

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	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	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	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 #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

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	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

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	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

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]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

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

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK®
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Fax: (814)353-1309

www.restek.com

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)

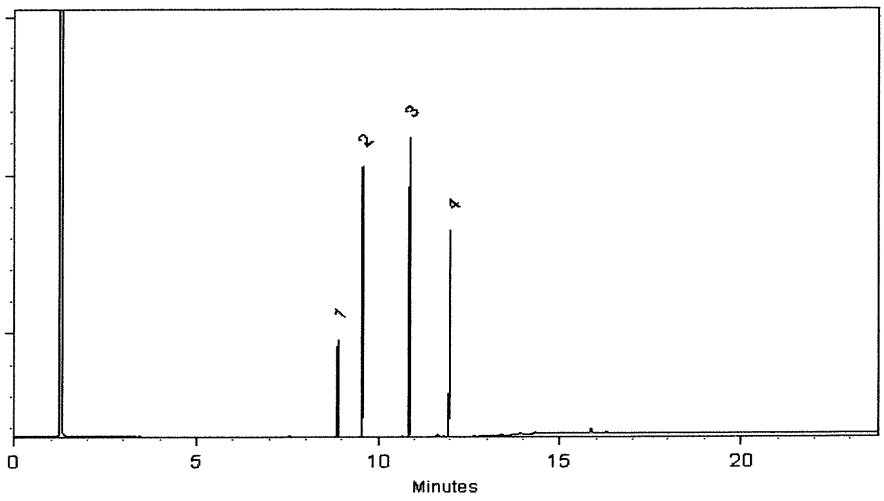
Carrier Gas:
hydrogen-constant pressure 10 psi.

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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Certificate of Analysis

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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 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)

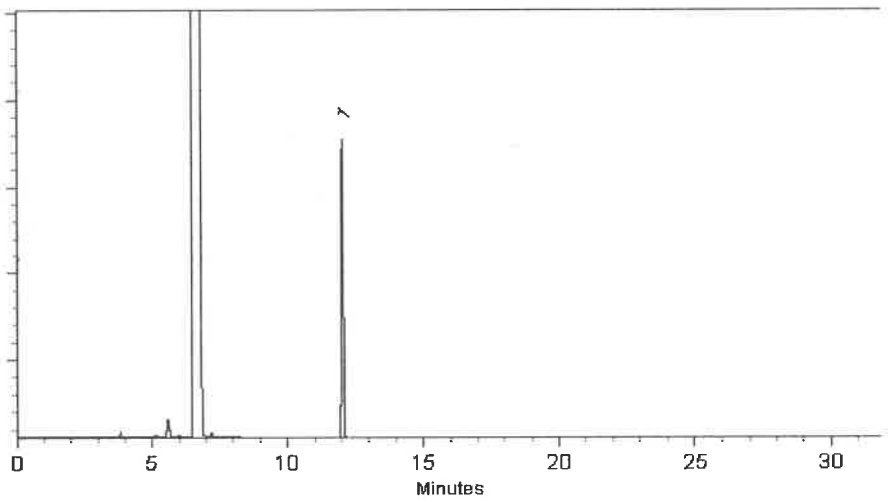
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_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.: 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

12/9-1/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
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 HeptachlorEpoxide) 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	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
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 3871

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.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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 1/29/25

E 3873

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: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
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 HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 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 3874

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

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Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
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 HeptachlorEpoxide) 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	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
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 3878

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
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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

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Santa Rosa, CA 95403

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

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

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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Certificate 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.)

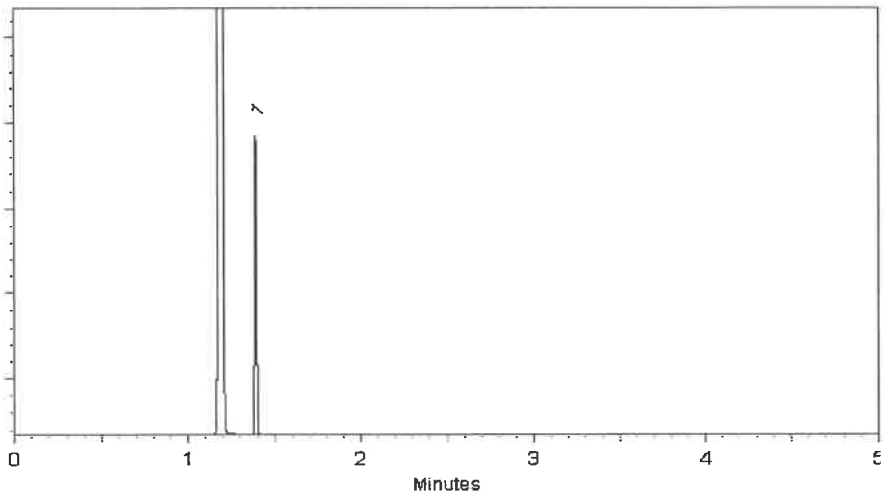
Inj. Temp:
250°C

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.
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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. : 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.)

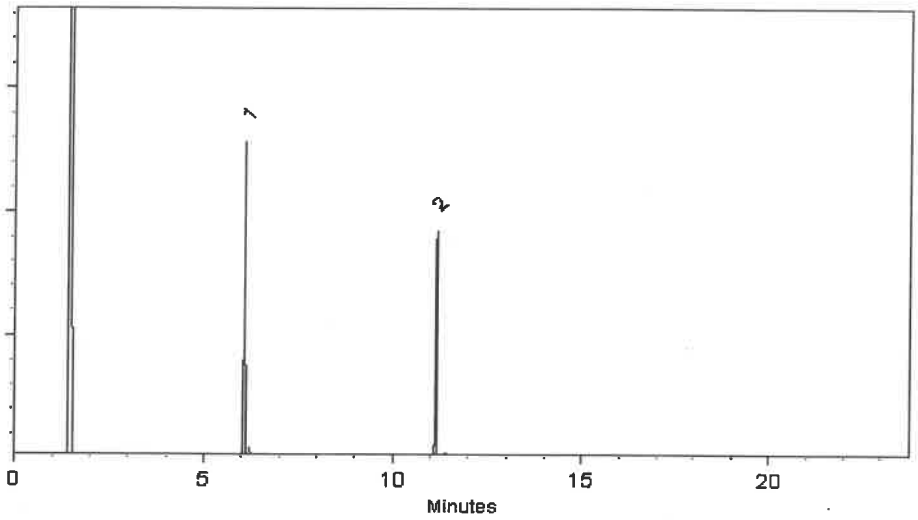
Inj. Temp:
250°C

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.
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  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:

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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.)

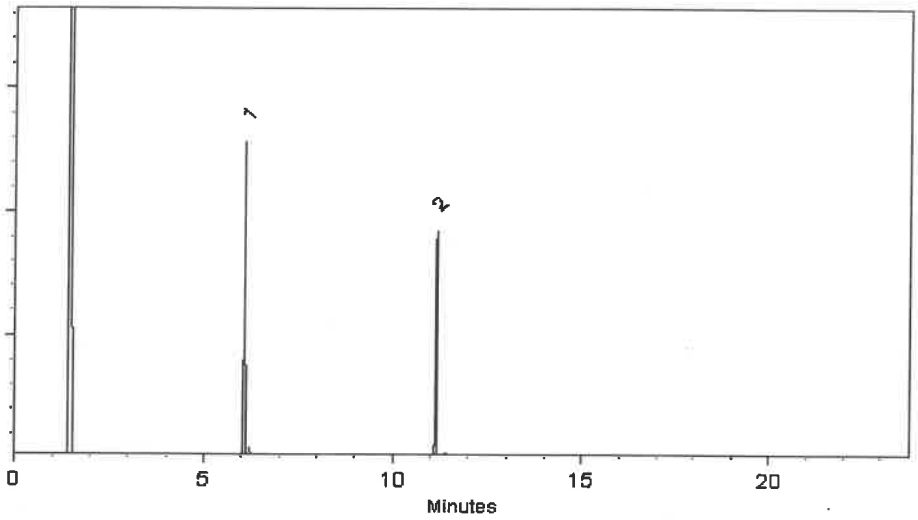
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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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:

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Manufacturing Notes:

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Handling Notes:

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Santa Rosa, CA 95403

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

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

Date Received:_____

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Rev 0

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%

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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.

Catalog No. : 31087 **Lot No.:** A0206206

S12187 ↓ S12206 } RC/ 03/18/24

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

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.)

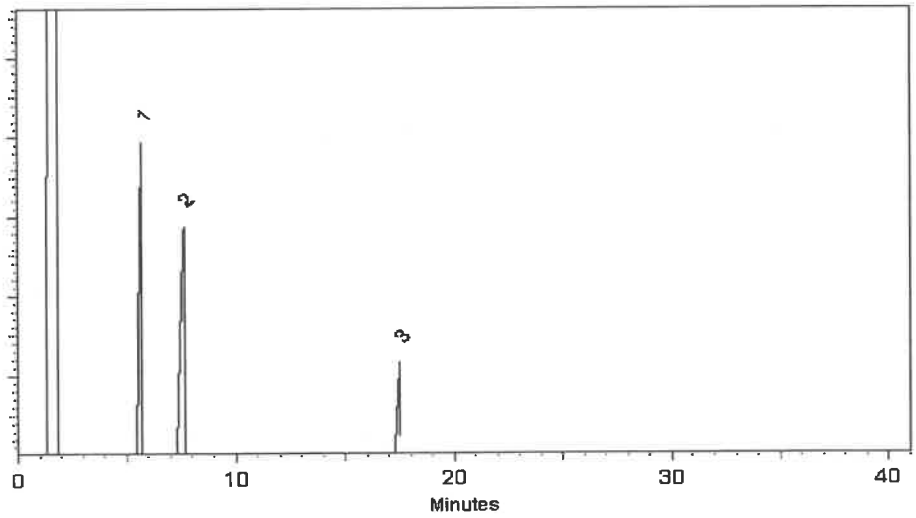
Inj. Temp:
250°C

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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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.)

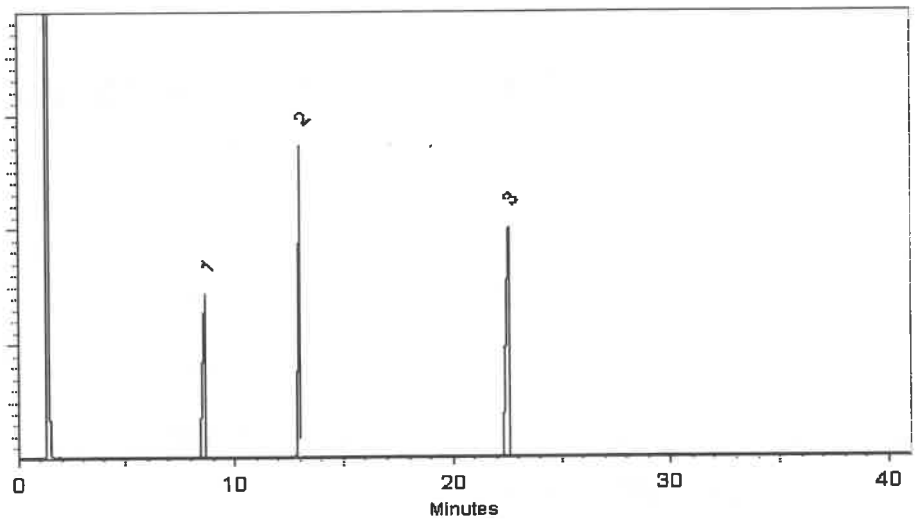
Inj. Temp:
250°C

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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Santa Rosa, CA 95403

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

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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-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	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	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC/ 05/24/24

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
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.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
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.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
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.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

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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.)

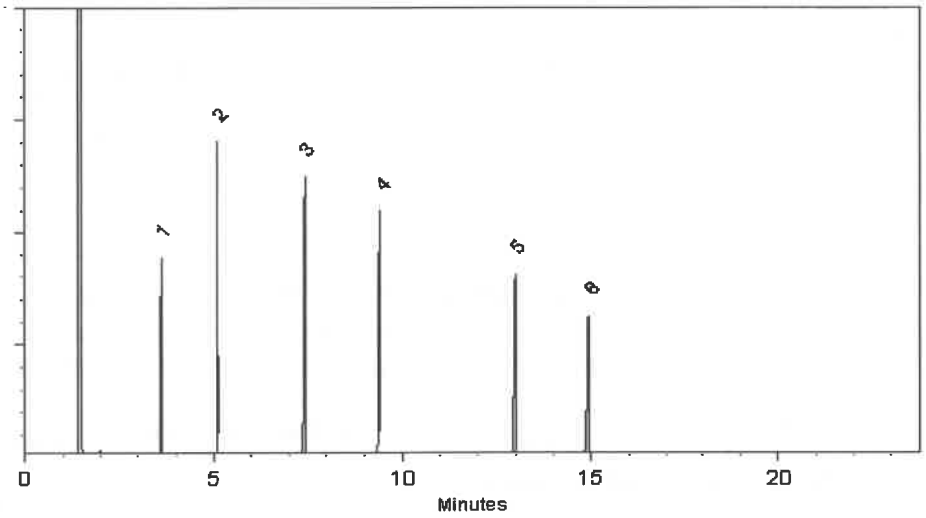
Inj. Temp:
250°C

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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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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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. : 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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 31206 **Lot No.:** A0212266

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 : April 30, 2030 **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%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

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

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

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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

S12280 → S12284 RCI 05/24/24

New numbers Generated.

S12790 → S12794 RCI 11/12/24

*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.

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. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

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

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

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

SHIPPING DOCUMENTS

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
03/03/2025	333289

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
3/5/2025 14:30

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-1517	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0325	8264-04
1	1	0	PT-HG-WP	WP Mercury	WP0325	8264-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0325	8264-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0325	8264-06
1	1	0	PT-DEM-WP	WP Demand	WP0325	8264-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0325	8264-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0325	8264-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0325	8264-72
1	1	0	PT-SOL-WP	WP Solids	WP0325	8264-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0325	8264-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0325	8264-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0325	8264-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0325	8264-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0325	8264-13
1	1	0	PT-PH-WP	WP pH	WP0325	8264-15
1	1	0	PT-CN-WP	WP Cyanide	WP0325	8264-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0325	8264-16

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Packing List

Date	Order #
03/03/2025	333289

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

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Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
3/5/2025 14:30

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-1517	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-S2-WP	WP Sulfide	WP0325	8264-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0325	8264-17
1	1	0	PT-TURB-WP	WP Turbidity	WP0325	8264-20
1	1	0	PT-VOA-WP	WP Volatiles	WP0325	8264-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0325	8264-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0325	8264-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0325	8264-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0325	8264-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0325	8264-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0325	8264-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0325	8264-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R40367	R40367-104
1	1	0	RR-VSOL-WP	WP Volatile Solids	R40367	R40367-18
1	1	0	RR-SIO2-WP	WP Silica	R40367	R40367-21
1	1	0	RR-COL-WP	WP Color	R40367	R40367-51
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R40367	R40367-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R40367	R40367-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R40367	R40367-98
1	1	0	RR-PAH-WP	WP PAH-Low Level	R40433	R40433-37

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
03/07/2025	335989

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
3/11/2025 9:55

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
Email: Sohil Jodhani	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R40480	R40480-108

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